

# Full Program



The 2016 annual meeting of the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists

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## Welcome

We are delighted to welcome you to *Evolution 2016*, the joint annual meeting of the [Society for the Study of Evolution](#), the [Society of Systematic Biologists](#), and the [American Society of Naturalists](#). This year's meeting will be held from June 17-21 at the [Austin Convention Center](#) in Austin, Texas. Austin is an incredible destination with a convention center in the heart of town that is surrounded by great restaurants and several famous entertainment districts.

The conference is the premier annual opportunity for sharing scientific research in the broad field of evolutionary biology and we anticipate just over 1,700 attendees. The meeting features multiple workshops and symposia, three new Spotlight sessions, 950+ contributed talks (regular and lightning), several plenary and outreach talks, and three poster sessions. Product and service providers are also contributing through their sponsorship and exhibits.

Social activities include an evening opening reception, mixers with each evening poster session, Society-sponsored mixers before each Presidential address, and a Super Social at the Palmer Events Center on the last night of the conference. With the exception of a small additional charge for the Super Social, all of these are included with your general registration.

This is the first conference under our new centralized meeting organization structure and we hope it will be one of the most productive and enjoyable ones yet. Thanks for coming and we look forward to seeing you in Texas!

*Howard Rundle – Lead organizer*

*Danielle Wiggins – Conference manager*

## Acknowledgements

The meeting has been made possible through the hard work of many people. These include current and past members of the Joint Meeting Committee – namely Aneil Agrawal, Butch Brodie, Becky Fuller, L. Lacey Knowles, and Bryan Carstens – who served as valuable consultants and information providers throughout. Candace Brown helped with program design and sponsor/exhibitor management, Stephanie Risbon reviewed the program, arranged the DJ, and is helping onsite, Arman Bilge coded our new poster invitation and talk timing systems, Emily Behrman and Mohamed Noor organized the recording/posting of talks and archiving of posters, Yoel Stuart organized our field trips, Dan Bolnick helped arrange the UTAustin residences and sponsorship, and Andrius Dagilis corralled some AV equipment for us. Numerous local volunteers also helped in various capacities and Jory Weintraub graciously coordinated them all (and also caught many awkward errors in the printed program). To all the organizers of the various symposia, spotlight sessions, workshops, and other special events – a heartfelt thank you for your time and effort!

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## General Information

### Venues

The Austin Convention Center (ACC) is located in the heart of Austin, the capital of Texas, and is situated between the shores of Lady Bird Lake and historic Sixth Street. It has easy access to I-35 and is a short distance from 6,500 downtown hotel rooms (all conference hotels are within an easy walking distance) and several famous entertainment districts. The Center is a s a **LEED® Gold** certified building and through a mix of on-site panels and Austin Energy's Green Choice Program, is powered by 100% Renewable Energy.

The conference-ending Super Social will be held at the spectacular Palmer Events Center, an indoor/outdoor venue located with an urban park of oak and cypress with a view of Lady Bird Lake. The Palmer Center is ~1 mile walk from the ACC and on the way you cross the Congress Avenue Bridge, home to the world's largest urban bat colony. Between 750,000 and 1.5 million Mexican free-tailed bats reside under the bridge each summer and emerge at dusk to feed. The bridge and a bat are featured in our conference logo.

### Registration & information desk

The Registration & information desk will be located in the Palazzo on Level 1 of the ACC and will be attended during the times listed below. Staff and volunteers will be identified by distinctive orange conference t-shirts; don't hesitate to ask any of them for help. Your conference registration covers attendance at all scientific events over the four days (June 18-21) including concurrent sessions, symposia, Spotlight sessions, plenary addresses, and three evening poster sessions. It also includes morning and afternoon coffee breaks (June 18-21), the June 17 evening opening reception, the three evening poster session mixers with light food, and wireless access throughout the ACC. There is a small, additional charge for the conference-ending Super Social. With the exception of the Super Social, no meals are provided. The Austin convention center will have a concession stand in the building on Saturday – Tuesday with coffee, drinks, and lunch available for purchase. See the Dining in Austin section later in this program for information about local restaurants.

**In the interest of reducing waste, no conference bag will be provided. Your name badge is your entrance ticket to all of these events: please wear it.**

#### **Registration & information desk hours:**

Friday, June 17	4:00 pm - 8:00 pm
Saturday, June 18	7:30 am - 5:30 pm
Sunday, June 19	8:30 am - 4:30 pm
Monday, June 20	8:30 am - 4:30 pm
Tuesday, June 21	8:30 am - 3:30 pm

## Childcare & nursing

Onsite childcare services for children ages 6 months – 12 years are located in Show Offices 1 & 2 on the Mezzanine Level of the ACC. Bookings had to be made prior to May 20, 2016 (i.e. no unscheduled drop-ins). Childcare services are provided by [KiddieCorp](#), a professional organization that serves for over 175 events each year. Their goal is to provide your children with a comfortable, safe, and happy experience. Snacks and beverages are provided but parents must provide lunch each day. There will be a fridge to store food/drinks but no way to heat them. KiddieCorp enforces a strict NUT FREE policy. All arrangements and payments were handled directly by KiddieCorp.

A quiet, private room with comfortable seating and a mini-fridge is available for nursing mothers in Show Office 5 on the Mezzanine Level, right near the childcare rooms. A [Mamava Suite](#) will also be onsite at the ACC set up near the registration area. These free-standing pods provide a comfortable and private area to nurse/pump.

## Practice room

Meeting Room 2 is available from 8 am – 5 pm daily (Sat-Tues) as a quiet room in which to practice your talk. It will be configured with boardroom-style seating so you will have to use your own laptop/tablet during your practice. The room is reserved for council meetings from 11:30 am – 1:30 pm on Saturday, June 18 and from 8:30 – 10 am on Tuesday, June 21.

## Message board

A message board will be located near the Registration & Information desk in the Palazzo on Level 1 of the ACC. Registrants are welcome to post notices about events, jobs, announcements, and messages for other attendees.

## Charging station

Charging Stations are located in Exhibit Hall 1 on banquet tables nearest Meeting Rooms 2 and 3 Entrances.

## Internet access & electronic devices

Wireless access is provided to participants free of charge throughout the ACC, sponsored in part by Wiley (network: Austin Convention Center; no password required).

The logo for Wiley, featuring the word "WILEY" in a large, bold, serif font.

**Please remember to turn off or mute all electronic devices during all concurrent sessions.**

## First aid & emergencies

A large pharmacy (CVS Pharmacy; 500 Congress Avenue; 512-478-1091) is a 10 min. walk away from the Austin Convention Center.

Call 911 in an emergency for fire/police/ambulance.

## Conference policies

### ***Policy on harassment, discrimination and liability***

The Societies (American Society of Naturalists, the Society of Systematic Biologists, and the Society for the Study of Evolution) are dedicated to providing a safe, hospitable, and productive environment for all participants of the annual Evolution Meetings. Accordingly, the Societies prohibit all forms of discrimination and harassment at the Evolution Meetings. Behavior that undermines the integrity of intellectual discourse and interactions will not be tolerated. This applies to all conference participants including staff, volunteers, and attendees. If a participant engages in harassing or discriminatory behavior, the Societies reserve the right to take action ranging from a simple warning to the offender to expulsion from the conference. If you have a question or concerns about this policy or would like to report an incident involving yourself or another person, please contact any member of the [Joint Meeting Committee](#). We take such issues seriously and will maintain your confidentiality (unless legally compelled otherwise).

The Societies shall not be responsible for any defamatory, offensive, or illegal conduct of all Evolution Meeting participants, and shall not be held liable for personal injury, property damage, theft or damage of any kind suffered by the participants at or in connection with the Evolution meeting.

By registering for and attending the annual Evolution Meeting, each participant acknowledged that they have read this Disclaimer, and expressly released the Societies and its board members, directors, officers, employees, or agents from any and all liability in connection with such Meeting as provided herein.

### ***Weapons policy***

For the safety of all attendees, the Evolution Meetings are ‘weapons free’ and all conference participants, including staff, volunteers, and attendees, are banned from possessing any object or substance intended to cause injury to others, including but not limited to firearms.

### ***Broadcasting policy***

The Evolution Meetings support the communication and discussion of science. Information presented at the Meeting (in oral or poster format) may be reported and discussed by attendees and science writers via blogs, Twitter, or other formats. However, we require that this be done respectfully and without direct reproduction of visual materials (e.g., no posting photos of slides or posters) unless permission is obtained from the presenter or they have already made this information freely available in an open-source forum. If a

presenter does not want information from his/her presentation to be broadcast, they should make this clear in their talk/poster and we ask that attendees respect this.

If you have questions or concerns about this policy, or would like to report an abuse of it, please contact any member of the [Joint Meeting Committee](#).

### ***Policy on multiple presentations***

The Evolution Meetings have grown dramatically of late, increasing the demand for both oral and poster presentations. To reduce competition and give more people an opportunity to present, attendees are limited to presenting one talk, no matter what type (e.g., regular contributed talk, lightning talk, symposium talk, award talk, etc.) and/or one poster. Please note that this only applies to the presenting author; you can be a co-author on multiple presentations given by others.

### **Oral presentations**

Regular concurrent talks will be held to 14 min, including questions, permitting a 1 min movement and switch-over time between talks. This will be rigorously enforced by an automatic audio timing system that will sound at 12 min (indicating two 2 min left), then at 14 min to denote the end of the talk and the start of 1 min of movement time, then finally at 15 min to denote the start of the next talk. Note that the 14 min includes time for questions, so we suggest 12-13 min for the talk and 1-2 min for questions.

Lightning talks are short presentations that are 5 min in duration with no scheduled setup/movement time between them (i.e. the next speaker will need to be 'waiting in the wings'). Timing will also be strictly enforced by an automatic system that will sound once at 4 min to indicate 1 min left, then again at 5 min to denote the end of the current talk and the start of the next.

Special talks of other duration (e.g. '30' min. symposium talks) will likewise include 1 min of movement time, meaning a 30 min talk is actually 29 min including questions.

The AV system is PC-based and will support both PowerPoint (all versions) and PDF files (unfortunately Keynote and Prezi are NOT supported). **Presentations should be formatted using a standard (4:3) slide size, NOT widescreen (16:9).** If your presentation was prepared on a Mac or other non-Windows based system, it is STRONGLY recommended that you review it in the Speaker Ready room prior to giving your talk (see below). Additional details about audio and video support can be found on the [conference website](#).

Talks can be uploaded online before or during the conference, or via the Speaker Ready Room (Meeting Room 1 on Level 1 of the ACC) at the conference. **This must be done a minimum of 2 h before your presentation.** Instructions on how to upload presentations online were emailed to every speaker ahead of the meeting. You can also review your talk in the Speaker Ready Room and AV technicians will be present to help resolve any compatibility or formatting issues and can also explain the in-room setup. The computers



in the Speaker Ready Room will be configured with hardware and software exactly like the ones in the meeting room.

### Speaker Ready Room hours

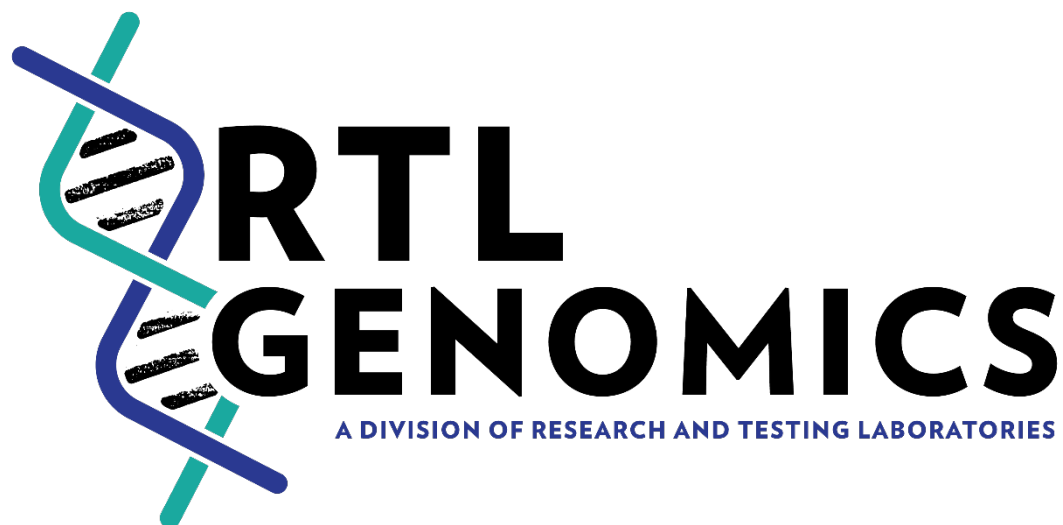
Hours for the Speaker Ready Room (MR1 in ACC) are as follows:

Friday, June 17	3:00 pm – 8:00 pm
Saturday - Monday, June 18-20	8:00 am – 5:00 pm
Tues., June 21	8:30 am – noon

### Session chairs

Session chairs were drawn from attendees who volunteered during registration. Their principal duty is to act as a backup for the automated timing system. Chairs will also receive instructions on how to request AV help in the case of a problem.

Sessions chairs and presenters should arrive at their room at least 10 min before the session begins. Each speaker should introduce him/herself to the Chair and confirm that his/her talk is present on the podium computer. (Talks are uploaded ahead of time via the website or in the Speaker Ready Room, not in the seminar room itself). For regular concurrent talks, the automated timing system will notify the speaker at the 12 min mark (i.e. 2 min remaining), and will then sound a different chime at 14 min indicating the end of the talk and the start of the 1 min movement time. It will sound again at 15 min to denote the start of the next talk. Audio chimes in Symposia and Spotlight sessions will function in a similar way with the exception of lightning talks which will feature a 4 min warning chime and then a different chime at 5 min denoting the end of the current talk and start of the next talk. Should the automated timing system fail, chairs are expected to rigorously enforce the above timing with reference to the time shown on the clock radio in each room.




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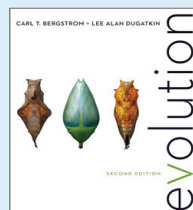
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Booth #112



## NEW FROM NORTON

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W. W. Norton & Company is proud to  
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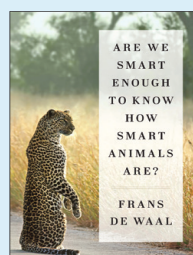


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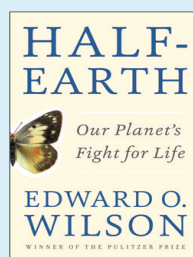
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## Poster sessions

Posters are assigned to one of the three poster sessions that will be held in conjunction with social mixers that include light food, beer, wine and non-alcoholic beverages. Presenters should attend their poster during their assigned session (see the daily schedule later in this program). **All poster sessions will be held in Exhibit Hall 1 (EH-1).**

### Poster session #1: Saturday, 5:45 - 7:45 pm

Posters should be displayed by noon on Saturday and removed by noon on Sunday.

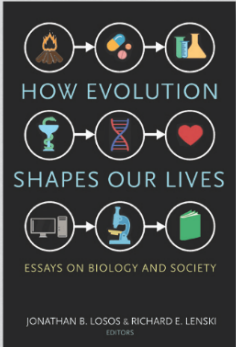
### Poster session #2: Sunday, 5:45 - 7:45 pm

Posters should be displayed by 1pm on Sunday and removed by noon on Monday.

### Poster session #3: Monday, 5:45 - 7:45 pm

Posters should be displayed by 1pm on Monday and removed by 10 am on Tuesday.

Posters can be a maximum of 1.2 m x 1.2 m (4 ft x 4 ft) and pushpins will be provided. **Poster boards will be numbered and presenters should use the space assigned to them in the program.** If the previous poster is still displayed when you arrive to put up your own, please carefully remove it, roll it up, and place it next to your poster board. We will collect unclaimed posters prior to the next poster session and relocate them to a side table.

 <p>HOW EVOLUTION SHAPES OUR LIVES ESSAYS ON BIOLOGY AND SOCIETY JONATHAN B. LOSOS &amp; RICHARD E. LENSKI EDITORS</p>	<p>Reception and Book Signing Monday, June 20 at 6:00 p.m. Please join us at our booth for wine and cheese. <b>How Evolution Shapes Our Lives</b> Essays on Biology and Society <i>Edited by Jonathan B. Losos &amp; Richard E. Lenski</i> Paper \$39.50</p>	<p><b>Following the Wild Bees</b> The Craft and Science of Bee Hunting <i>Thomas D. Seeley</i> Cloth \$22.95</p>	 <p>THE SERENGETI RULES THE QUEST TO DISCOVER HOW LIFE WORKS AND WHY IT MATTERS SEAN B. CARROLL</p>
 <p>STEPHEN B. HEARD <b>THE SCIENTIST'S GUIDE TO WRITING</b> HOW TO WRITE MORE EASILY AND EFFECTIVELY THROUGHOUT YOUR SCIENTIFIC CAREER</p>	<p><b>The Scientist's Guide to Writing</b> How to Write More Easily and Effectively throughout Your Scientific Career <i>Stephen B. Heard</i> Paper \$21.95 <i>Book Signing Sunday, June 19 at 6:00pm</i></p>	<p><b>How to Clone a Mammoth</b> The Science of De-Extinction <i>Beth Shapiro</i> Paper \$14.95 August 2016 Cloth \$24.95</p>	 <p>H 13 AM <b>HOW TO CLONE A MAMMOTH</b> THE SCIENCE OF DE-EXTINCTION BETH SHAPIRO</p>
	<p><b>The Serengeti Rules</b> The Quest to Discover How Life Works and Why It Matters <i>Sean B. Carroll</i> Cloth \$24.95</p>	<p><b>How Men Age</b> What Evolution Reveals about Male Health and Mortality <i>Richard G. Bribiescas</i> Cloth \$27.95 Fall 2016</p>	
	<p><b>Silent Sparks</b> The Wondrous World of Fireflies <i>Sara Lewis</i> Cloth \$29.95</p>	<p><b>Phylogenies in Ecology</b> A Guide to Concepts and Methods <i>Marc W. Cadotte &amp; T. Jonathan Davies</i> Cloth \$55.00 Fall 2016</p>	
		<p><b>Eco-evolutionary Dynamics</b> <i>Andrew P. Hendry</i> Cloth \$65.00 Fall 2016</p>	

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## Super social

The conference-ending Super Social will be held in the indoor/outdoor [Palmer Events Center](#) starting at 6:00 pm on Tuesday, June 21<sup>st</sup>. The Center is located off W Riverside Drive (900 Barton Springs Rd officially) and is about a 1-mile (~20 min.) walk from the ACC. Guided walks will be leaving the ACC Palazzo at 5:30 and 5:45 pm for those interested. Shuttles will also be running between the ACC, UT Austin dorms, and Palmer Event Center from 5:30 pm – 1 am that evening (see below).

## Shuttle service

A free shuttle service will be offered from the UT Austin Duren Hall dorms (pickup location is the corner of 27<sup>th</sup> St. & Whitis Ave.) to the Austin Convention Center. The shuttle stop at the ACC is on Trinity St. immediately outside of the building across from Exhibit Hall 1 (see map on inside back cover). You can also use public transit (Capital Metro), with direct trips (i.e. no transfer) taking ~12 min. plus walking time and costing at little as \$1.25 one-way / \$2.50 day pass (see the Capital Metro [Trip planner](#)).

Shuttle schedule:

FRIDAY, JUNE 17 (ACC– DUREN HALL LOOP)									
Time	Frequency	Departs Duren Hall				Departs ACC			
2:00 pm - 6:00 pm	Every 60 min.	On the hour				On the half-hour			
6:00 pm - 11:00 pm	Every 30 min.	On the hour & half-hour				On the hour & half-hour			
SATURDAY, JUNE 18 – MONDAY, JUNE 20 (ACC – DUREN HALL LOOP)									
7:30 am - 11:00 am	Every 15 min.	:00	:15	:30	:45	:00	:15	:30	:45
11:00 am - 9:00 pm	Every 60 min.	On the hour				On the half-hour			
TUESDAY, JUNE 21 (ACC – DUREN HALL LOOP)									
8:00 am - 11:00 am	Every 15 min.	:00	:15	:30	:45	:00	:15	:30	:45
11:00 am - 9:00 pm	Every 30 min.	On the hour				On the half-hour			
SUPER SOCIAL SHUTTLES (TUESDAY, JUNE 21)									
Time	Frequency	Route							
5:00 pm - 9:00 pm	Every 10 min.	Loops from Austin Convention Center to Palmer Events Center							
9:00 pm - 1:00 am	Every 15 min.	Loops from Palmer Events Center to Convention Center to Duren Hall							

## Sponsors & Exhibitors

### Sponsors

We are grateful to our sponsors whose financial contributions have helped keep registration costs more affordable.

#### Gold



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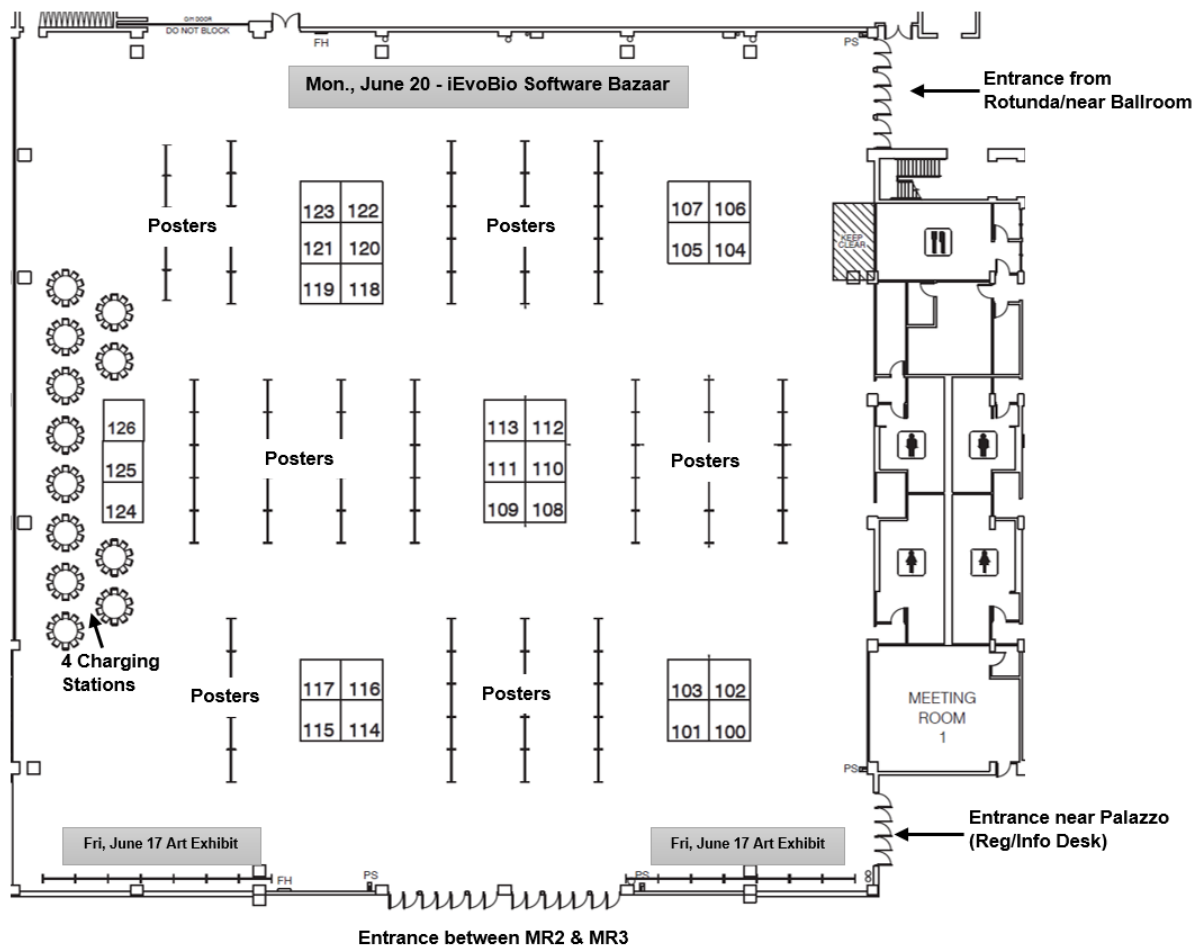


## Exhibitors

A wide range of exhibitors have booths in Exhibit Hall 1. We encourage you to visit them and learn about the publications, products, and services they have to share. Exhibitor hours are:

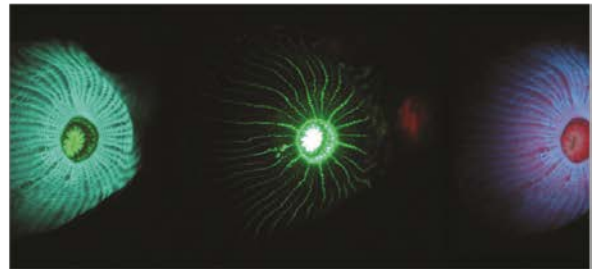
Friday, June 17 7:00 pm – 7:30 pm  
 Saturday - Monday, June 18-20 9:30 am – 7:30 pm  
 Tuesday, June 21 9:00 am – 12 noon

Exhibitor	Booth	Exhibitors	Booth
SimBio	100	Sinauer Associates, Inc., Publishers	116
Harvard University Press	101	Elsevier	117
Princeton University Press	102	MYcroarray	118
Macmillan Learning	103	Genomics (Biomatters)	120
YXLON	104	Taylor & Francis	122
New Phytologist	105	University of Chicago Press	108, 110
Wiley	106	BEACON Center for the Study of Evolution in Action	109, 111
Dragonfly Glass	107	Oxford University Press	119, 121
Arbor Workflows	112	RTLGenomics	124
W.W. Norton	113	British Ecological Society	125
Royal Society Publishing	114	SSE Diverse Careers	126
Arludo	115		



# Welcome to Austin

*on behalf of the* Graduate Program in Ecology, Evolution & Behavior *and the* Department of Integrative Biology *at*  
The University of Texas at Austin



EEB and IB constitute a community of over 40 faculty and 70 PhD students from around the world. We are supported by outstanding field research stations around Austin (Brackenridge Field Laboratory, and the recently-expanded Stengl “Lost Pines” Biology Station), the magnificent biodiversity collections, the Texas Advanced Computing Center, the Genome Sequencing and Analysis Facility, and the Center for Computational Biology and Bioinformatics.



The University of Texas at Austin  
**Department of Integrative Biology**  
College of Natural Sciences



[integrativebio.utexas.edu](http://integrativebio.utexas.edu)



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# Things to Do in Austin

## **Known for music. And so much more.**

Years ago, when people talked about Austin they would quickly mention the music. But that's just the beginning of what they're saying these days. Austin is also home to a wonderful ballet, world-class museums, one-of-a-kind shopping and beautiful outdoor spaces. You can just as easily spend your morning paddling the lake as you can strolling through a celebrated history museum. And it's okay if you don't have time to fit it all in, you can just come back and visit us again.

## **Local attractions**

### **Puzzle Room <http://www.puzzleroomaustin.com/>**

Race the clock to find clues and solve puzzles in this real life game experience. Your team will have one hour to test your wits against a variety of mind-bending challenges. Try your hand at this new genre of game that has been exploding in popularity around the country. Do you have what it takes to escape the room?

### **Austin Aquarium <http://www.austinaquarium.com/>**

Austin Aquarium provides children and families access to the excitement and learning opportunities of the ocean without the long trip to the coast. Guests can watch jellyfish float and glow, admire the bright and colorful corals, feel the soft ray on their fingertips, interact with tropical birds and reptiles... all within easy reach of home. Austin Aquarium offers multiple educational programs and events for kids. Popular activities include feeding the animals, Birthday Parties, Private Events, Sleep with the Sharks, and Morning Rounds.

### **Austin Duck Adventures <http://austinducks.com/>**

A fun, narrated, amphibious tour of downtown Austin that ends with a splash on Lake Austin. Tours and tickets available at Austin Visitor Center.

### **Ann Richards Congress Avenue Bridge Bats [www.batcon.org](http://www.batcon.org)**

Congress Avenue Bridge shelters the largest urban bat colony in North America. Between 750,000 and 1.5 million bats fly out near dusk. Best viewing dates: April-October.

### **Austin Oddities & Entertainment <http://www.austinoddities.com/>**

Austin Oddities & Entertainment is a unique one-stop shop to find and book talent that is both exciting and out of the ordinary. Our focus is in Circus, Texas-themed, and off-beat specialty talent using both local and national acts. Austin Oddities is best known for our large scale big-spectacle events. We build unique concepts that are event specific, design one-of-a-kind costumes, and ensure that creativity and professional execution are at the heart of everything we do.

### **Austin Panic Room <https://texaspanicroom.com/>**

Austin Panic Room is the original live escape room experience in Austin. We are the perfect option for any group outings. Imagine - you are locked up in a room for 60 minutes with your friends, and the only way to get out is by working together to solve the clues and

puzzles hidden inside the room. None of our rooms are scary. Instead, they test your communication skills and the ability to think outside of the box. The current escape rate is ~30% for all our rooms. Are you up for the challenge? Visit our website at [www.texaspanicroom.com](http://www.texaspanicroom.com) to learn more!

### **Austin Toy Museum** <http://austintoymuseum.org/>

The Austin Toy Museum collection primarily features toys and figurines from the golden age of the '80s and is comprised of over 20,000 pieces. The toys range all the way back to the early 1900s. The museum houses many rare and unique items including prototypes of action figures acquired directly from some of the people who used to work in these great toy companies. Exhibits include action figures, dolls, merchandise, arcade games, comic books and over 50 video game systems all the way back to the first home console unit.

### **Austin Zoo** <http://austinzoo.org/>

The mission of Austin Zoo is to assist animals in need through rescue, rehabilitation and education. Located on the southwest edge of Austin off of Highway 290 West and Circle Drive, Austin Zoo is a pleasant Hill Country zoo where visitors from around the world can come to learn about animals close-up, spend some time outdoors getting exercise and have fun.

## **Dining in Austin**

If you're using a pdf version of this program, here are some useful websites by cuisine (click to access hyperlink for each):

- **BBQ in Austin**
- **BBQ on the outskirts of Austin**
- **Cajun & Creole**
- **Chinese**
- **French**
- **Indian Food**
- **Meat Lovers Guide**
- **Mexican**
- **Middle Eastern**
- **Thai**

And by diet:

- **Gluten free**
- **Vegan**
- **Vegetarian**
- **Whole30 diet**

A listing of downtown restaurants is included on the next page. The co-ordinates correspond to the map on the back cover of this program.



# Austin Downtown Restaurant Guide

MAP	RESTAURANT	ADDRESS	PHONE	WEBSITE	CUISINE
E14	Ill Forks D \$\$\$	111 Lavaca St.	474-1776	3forks.com	Steakhouse
G9	1886 Bakery & Café, Driskill Hotel BLD \$	604 Brazos St.	391-7066	1886cafeandbakery.com	Bakery
G13	Annie's Café and Bar BLD \$	319 Congress Ave., Ste. c150	472-1884	anniescafebar.com	American
F9	Athenian Bar & Grill LD \$	600 Congress Ave.	474-7775	athenianbargrill.com	Mediterranean
I10	The Backspace LD \$	507 San Jacinto Blvd.	474-9899	thebackspace-austin.com	Italian
N18	Banger's Sausage House & Beer Garden BLD \$	79 Rainey St.	386-1656	bangersaustin.com	American
E14	Bar Chi LD LN \$	206 Colorado St.	382-5557	barchiaustin.com	Sushi
H9	BD Riley's Irish Pub BLD LN \$	204 E. Sixth St.	494-1335	bdrileys.com	Irish
F13	Bob's Steak and Chop D \$\$\$	301 Lavaca St.	222-2627	bobs-steakandchop.com	Steakhouse
F15	The Bonneville D \$	202 W. Cesar Chavez St.	428-4643	thebonnevilleaustin.com	New American
H10	Buffalo Billiards LD LN \$	201 E. Sixth St.	479-7665	buffalobilliards.com	American
E14	Cantina Laredo LD \$	201 W. Third St.	542-9670	cantinalaredo.com	Mexican
F13	The Capital Grille LD \$\$\$	117 W. Fourth St.	322-2005	thecapitalgrille.com	Steakhouse
K10	Carmelo's LD \$\$\$	504 E. Fifth St.	477-7497	carmelosrestaurant.com	Italian
H13	Cedar Door BLD LN \$	201 Brazos St.	473-3712	cedardooraustin.com	American
I11	Champions Sports Bar BLD \$	300 E. Fourth St.	473-0450	championsaustin.com	American
J10	Chez Nous LD \$\$\$	510 Neches St.	473-2413	cheznousaustin.com	French
F11	Chinatown LD \$	107 W. Fifth St.	637-8888	chinatown-downtown.com	Asian
G13	Cooper's Old Time Pit Bar-B-Que BLD LN \$	217 Congress Ave.	474-4227	coopersbbqaustin.com	Barbecue
G13	Corner Flavors of Texas LD \$\$\$	110 E. Second St.	608-4488	cornerrestaurentaustin.com	New Texan
G13	Counter 3. Five. VII D \$\$\$	315 Congress Ave.	291-3327	counter3fivevii.com	New American
F15	Cru - A Wine Bar D \$	238 W. Second St., Ste. 13	472-9463	cruwinebar.com/locations_austin	New American
G15	DINE BLD \$	111 E. Cesar Chavez	478-2991	dineradissonaustin.com	New American
H10	The Driskill Grill D \$\$\$	604 Brazos St.	391-7162	driskillgrill.com	New Texan
M10	Easy Tiger LD LN \$	709 E. Sixth St.	614-4972	easytigeraustin.com	German
I 11	Eddie V's Steakhouse D LN \$\$\$	301 E. Fifth St.	472-1860	eddiev.com	Seafood & Steak
M18	El Naranjo D \$	85 Rainey St.	474-2776	elnaranjo-restaurant.com	Mexican
L9	El Sol y La Luna BLD \$	600 E. Sixth St.	444-7770	elsolylaluna.com	Mexican
M20	Emmer & Rye BD \$	51 Rainey St., Ste. 110	366-553	emmerandrye.com	New American
H10	Eureka! LD LN \$	200 E. Sixth St.	735-1144	eurekarestaurantgroup.com	American
E12	Fadó Irish Pub LD LN \$	214 W. Fourth St.	457-0172	fadoirishpub.com/austin	Irish
I13	Fleming's Prime Steakhouse D \$\$\$	320 E. Willie Nelson Blvd.	457-1500	flemingssteakhouse.com	Steakhouse
I13	Fogo de Chao LD \$	309 E. Third St.	472-0220	fogodechao.com	South American
F11	Frank BLD LN \$	407 Colorado St.	494-6916	hotdogscoldbeer.com	American
M20	G'Raj Mahal D LN \$	73 Rainey St.	480-2255	grajmahalaustin.com	Indian
L17	Geraldine's BD LN \$	605 Davis St.	476-4755	geraldinesaustin.com	New American
D9	Gloria's LD \$	300 W. Sixth St.	833-6400	gloriasrestaurants.com	Mexican
F11	Gourdough's Public House BLD LN \$	201 W. Fifth St.	645-0255	gourdoughs.com	American
I 14	Gus's Fried Chicken LD \$	117 San Jacinto Blvd.	474-4877	gusfriedchicken.com	Chicken
E12	Halcyon BLD LN \$	218 W. Fourth St.	472-9637	halcyonaustin.com	Coffee House
I9	Iron Cactus LD LN \$	606 Trinity St.	472-9240	ironcactus.com	Mexican
K14	Iron Works LD \$	100 Red River St.	478-4855	ironworksbbq.com	Barbecue
F11	Isla D \$\$\$	208 W. Fourth St.	322-9921	islaaustin.com	Caribbean
D13	Jo's Hot Coffee BLD \$	242 W. Willie Nelson Blvd.	469-9003	josomee.com	Coffee House
K9	Koriente LD \$	621 E. Seventh St.	275-0852	koriente.com	Asian

MAP	RESTAURANT	ADDRESS	PHONE	WEBSITE	CUISINE
C13	La Condesa LD \$\$\$	400A W. Willie Nelson Blvd.	499-0300	lacondesaustin.com	Mexican
F12	La Traviata LD \$	314 N. Congress Ave.	479-8131	latraviata.net	Italian
C14	Lamberts BBQ BLD LN \$	401 W. Willie Nelson Blvd.	494-1500	lambertsaustin.com	Barbecue
H13	Le Café Crepe BLD \$	200 San Jacinto Blvd.	480-0084	cafecrepeofaustin.com	French
C14	Leaf LD \$	419 W. Willie Nelson Blvd.	474-5323	leafsalad.com	American
K11	Liberty Tavern BLD \$	500 E. Fourth St.	493-4901	libertytavern.com	New Texan
F11	Lonesome Dove LD \$\$\$	419 Colorado St.	271-2474	lonesomedoveaustin.com	New Texan
I13	Mai Thai LD \$	207 San Jacinto Blvd.	482-8244	maithaiaustin.com	Asian
C13	Malaga Tapas & Bar LD \$	440 W. Willie Nelson Blvd.	236-8020	malagatapasbar.com	Spanish
E14	Mama Fu's LD \$	100 Colorado St.	637-6774	mamafus.com	Asian
F12	Manuel's BLD \$	310 Congress Ave.	472-7555	manuels.com	Mexican
I13	Max's Wine Dive D \$	207 San Jacinto Blvd.	904-0111	maxswinedive.com austin	American
J16	Micheladas LD \$	333 E. Second St.	320-0300	micheladasaustin.com	Mexican
L12	Moonshine LD \$	303 Red River St.	236-9599	moonshinegrill.com	American
I10	Old Pecan Street Café LD \$	504B Trinity St.	478-2491	oldpecanstcafe.com	American
J10	Old School Bar & Grill LD \$	401 E. Sixth St.	722-6351	oldschoolaustin.com	American
G13	Osteria Pronto	110 E. Second St.	608-4490	oseriaprontoaustin.com	Italian
I14	P.F. Chang's China Bistro LD \$	201 San Jacinto Blvd.	457-8300	pfchangs.com	Asian
I10	Parkside D LN \$\$\$	301 E. Sixth St.	474-9898	parkside-austin.com	American
E12	Pêche D LN \$	208 W. Fourth St.	495-9669	pecheaustin.com	French
K8	Pelon's Tex Mex LD \$	802 Red River St.	243-7874	pelonsaustin.com	Mexican
F8	Perry's Steakhouse & Grille LD \$\$\$	114 W. Seventh St.	474-6300	perryssteakhouse.com	Seafood & Steak
I14	Piranha Killer Sushi LD \$	207 San Jacinto Blvd., Ste. 202	473-8775	piranhakillersushi.com	Asian
G7	Quattro Gatti LD \$	908 Congress Ave.	476-3131	quattrogattiaustin.com	Italian
F12	RA Sushi LD \$	117 W. Fourth St., Ste. 300	726-2130	rasushi.com	Asian
J14	Revival Public House BD \$	340 E. Second St.	469-0000	revivalph.com	New Texan
G8	Roaring Fork LD \$\$\$	701 Congress Ave.	583-0000	roaringfork.com	Southwestern
I11	Russian House LD LN \$	307 E. 5th St.	428-5442	russianhouseofaustin.com	Russian
F10	Ruth's Chris Steak House D \$\$\$	107 W. Sixth St.	477-7884	ruthschris-austin.com	Steakhouse
E11	Searsucker D \$\$\$	415 Colorado St.	394-8000	searsucker.com	American
F13	Second Bar + Kitchen LD LN \$	200 Congress Ave.	827-2750	congressaustin.com	New American
I11	Stella San Jac BLD \$	310 E. Fifth St.	391-2333	stellasanjac.com	
L7	Stubb's BBQ BLD LN \$	801 Red River St.	480-8341	stubbasaustin.com	Barbecue
E13	Sullivan's Steak House BLD \$	300 Colorado St.	495-6504	sullivansteakhouse.com	Steakhouse
G13	Swift's Attic LD LN \$	315 Congress Ave.	482-8200	swiftsattic.com	American
H12	Taco Shack BLD \$	402 Brazos St.	473-0101	tacoshack.com	Mexican
E14	Taverna Ristorante BLD \$	258 W. Willie Nelson Blvd.	477-1001	tavernabylobardi.com	Italian
G7	Thai Passion LD LN \$	620 Congress Ave.	472-1244	thaipassion.com	Asian
D14	Trace at the W Hotel LD LN \$\$\$	200 Lavaca St.	542-3660	traceaustin.com	American
H15	TRIO, The Four Seasons Austin BLD \$	98 San Jacinto Blvd.	685-8300	triorestaurentaustin.com	New American
E12	Truluck's D \$\$\$	400 Colorado St.	482-9000	trulucks.com	Seafood & Steak
H13	Uncle Julio's LD \$	301 Brazos St.	815-2100	unclejulios.com	Mexican
H12	Vince Young Steak House D \$\$\$	301 San Jacinto Blvd.	457-8325	vinceyoungsteakhouse.com	Steakhouse
M9	Waller Creek Pub House LD LN \$\$\$	603 Sabine St.	358-1903	wallercreekpubhouse.com	American

KEY B = Breakfast L = Lunch D = Dinner LN = Late Night \$ = \$5-14 \$\$ = \$15-25 \$\$\$ = \$26-50 B = Music

\*Area code is 512 for all phone numbers



## The Surviving Branch: How Genomes Are Revealing The Twisted Course of Human Evolution

*Please join the Society for the Study of Evolution at Evolution 2016 for a public lecture by*

***Carl Zimmer***

*Stephen Jay Gould Prize winner for 2016*

*Friday June 17<sup>th</sup>*

*7:30 PM Austin Convention Center*

Ever since the days of Charles Darwin, scientists have been uncovering clues to how we evolved. Today, biotechnology is allowing them to gather DNA preserved in ancient human fossils. The knowledge emerging from those studies is changing how we understand our history — and what it means to be human.

Society for the Study of Evolution  
Stephen Jay Gould Prize  
is awarded in recognition of sustained  
and exemplary efforts in the advance  
of public understanding of  
evolutionary science



Lecture is open to the public.



## Field Trips

### **1) Lady Bird Johnson Wildflower Center: 2:30-5:45 pm roundtrip Friday, June 17, 2016**

The Center displays 650 native Texas plant species in gardens, meadows and nature trails. Visitors can also explore indoor art exhibits, learn about Mrs. Johnson and native plant research, and enjoy the café, store and more. Looking for more than wildflowers? The center's offerings include tree swings in the Texas Arboretum, a tower for panoramic views, turtles and fish in ponds, the Little House for kids' crafts, a Visitors Gallery and picnic tables.

**What to bring:** Comfortable walking (field) shoes, water bottle, hat, sunscreen and camera.

**Tour Leaders:** TBD

**Logistics:** Meet in the lobby of the convention center at 2:30 pm. Your tour leaders will arrange cabs to the Wildflower Center. We will return to the convention center by cab at approximately 5:45 pm.

**Cost:** \$30/cab one-way, so ~\$18/person round trip with tip, assuming 4 people ride in each cab. Bring cash to pay your cabbie.

### **2) Barton Springs Pool: Salamanders and Swim: 4:00-6:30 pm, round trip Friday, June 17, 2016**

Barton Springs Pool is a several-acre, spring-fed pool in Zilker Park a few minutes from downtown Austin. It is the only known home of two species of salamander: the Barton Springs Salamander (*Eurycea sosorum*) and the Austin Blind Salamander (*Eurycea waterlooensis*). Join this trip to learn about water and watersheds in the Austin Area, Barton Springs, salamander natural history, and captive breeding and conservation efforts by City of Austin Watershed Protection Department scientists. After the tour, stay for a swim in the Pool and/or explore Zilker Park.

**What to bring:** Comfortable walking shoes, light clothing, water bottle, snack, hat, sunscreen and camera.

**Tour leaders:** Yoel Stuart, Tom Devitt, and CofA staff scientists

**Logistics:** Meet your tour leader in the lobby of the Austin Convention Center at 4:00 pm if you'd like to travel together to Barton Springs Pool. Otherwise, meet at the statue in front of the main pool gate at 4:30 pm.

**Bus:** From the Convention Center to Barton Springs Pool and back take Bus #30 (BartonCreekSq-NB) with ~0.75mi walking; Cost: \$1.25 for a one-way ticket. Bus every ~35min.

**Bike:** \$8 for unlimited 30-minute rides over a 24 h period.

**Cost:** the tour is free (tour is outside pool gates). Admission to pool is \$4 (pay at the pool).

### **3) Morning Naturalizing on Lady Bird Lake**

**Daily from Saturday-Tuesday (June 18-21): 6:30-8:30am**

Many species of bird are abundant in and along Lady Bird Lake. Be you an experienced twitcher or a beginning birder; join us on this (up to 5 mile) trip along the Lady Bird Lake walking trail to add birds to your life list. You may also see several species of turtles and possibly a nutria (aka coypu; an invasive semi-aquatic rodent). We may be able to arrange a few lender pairs of binoculars, but please bring your own if possible.

**What to bring:** Walking shoes, binoculars, water

**Tour Leader(s):** Experienced local birders (TBD)

**Logistics:** Meet in the Convention Center Lobby each morning at 6:30am.

**Cost:** Free

### **4) Hornsby Bend Bird Observatory: 7:00-11:00am roundtrip**

**Wednesday, June 22, 2016**

Hornsby Bend, about 20 min. east of Austin, is a premier birding location. Its relatively small area encompasses large ponds (wastewater, of course), a slow bend in the river, forest, and open meadows, and is good habitat for many bird species as well as mammals and herps. We may be able to arrange a few lender pairs of binoculars, but please bring your own if possible.

**What to bring:** Comfortable walking shoes, water bottle, snack, hat, sunscreen, binoculars, and camera.

**Tour Leaders:** TBD

**Logistics:** Meet in the lobby of the convention center at 7am. Your tour leaders will arrange cabs to Hornsby.

**Cost:** ~\$25/cab one-way, so ~\$15/person with tip, assuming 4 people ride in each cab. Bring cash to pay your cabbie.

### **5) Bats: Sunset 8:35 pm**

**Every Evening**

After a 1980 redesign of the Ann W. Richards Congress Avenue Bridge, the Mexican free-tailed Bat (*Tadarida brasiliensis*) colonized gaps in the bridgework. The colony grew to become the largest urban bat colony in North America. Around dusk, about 30 minutes before sunset, the bats will begin leaving the roost for a feeding flight which, at its colony peak, can take ~9,000kg of flying insects, collectively, per night.

**Logistics:** Head to the east sidewalk of the Congress Avenue Bridge, or to the hillside below the bridge on the south side of the river, to watch this neat spectacle. You can also rent a canoe or kayak from several agencies along the river or join a Capital Cruise.

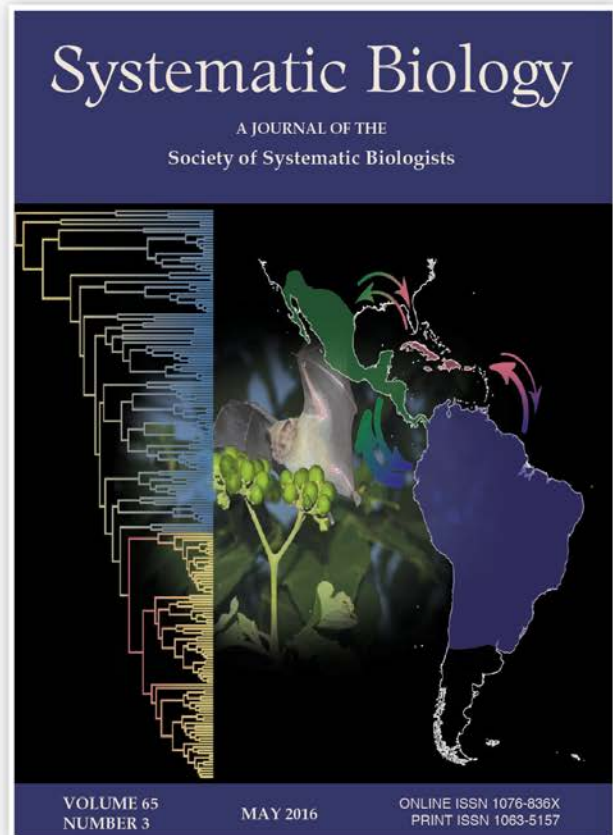
**Cost:** Free

# Systematic Biology

Editor-in-Chief:  
Frank E. Anderson

Impact factor:  
**14.387**

**Systematic Biology** is the bimonthly journal of the Society of Systematic Biologists. Papers for the journal are original contributions to the theory, principles, and methods of systematics as well as phylogeny, evolution, morphology, biogeography, paleontology, genetics, and the classification of all living things.



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## Travel Support

Financial support to attend the meeting was available from various sources. At this stage, application deadlines have all passed.

### **Volunteer at the conference**

In return for volunteering for approximately 1/2 day during the meeting, graduate students can receive a rebate of 50% of their early registration fee. Applications were made available during main conference registration and were accepted until the end of early registration (i.e. midnight on Apr. 30). Recipients were randomly selected from the list of applicants and were informed by May 15<sup>th</sup>. Registration fees must be paid in advance and the rebate will be processed after the meeting, subject to completion of assigned volunteer duties.

### **ASN Graduate Student travel grants**

Graduate student members of the ASN could request to be considered for a \$500 US travel award. To be eligible, the student must present a talk or poster and must not have received the travel award in the previous year. Applications were made available during main conference registration and were accepted until the end of early registration (i.e. midnight on Apr. 30). Recipients were randomly selected from the list of applicants and were informed by May 15<sup>th</sup>.

### **SSE/BEACON Undergraduate Diversity @ Evolution travel award**

This travel award brings talented and diverse undergraduates from throughout the US and Puerto Rico to the meeting to present a poster, receive mentoring and participate in a career-oriented 'Undergraduate Futures in Evolutionary Biology' panel and discussion. The program covers travel, registration, and room and board. For more information visit the their [website](#). Applications were accepted until 11:59 pm (EST) on Apr. 18 and awardees were notified by Apr. 26.

### **SSE Graduate Student travel supplements**

Supplements of \$500 US were randomly selected from among the list of SSE graduate students who volunteered to help during the conference (whether they were chosen as volunteers or not). Applications were made available during main conference registration and were accepted until the end of early registration (i.e. midnight on Apr. 30). Recipients were informed by May 15<sup>th</sup>.

### **SSE International travel stipends**

These stipends support attendance at the conference for scientists at various stages of their professional career (e.g., Masters/PhD students, postdocs, and lecturers). You must

be a member of the SSE. Those working in countries with high GDP are not eligible. For additional information and the application procedure, consult the [SSE's website](#). Deadline for applications was Mar. 31, 2016.

### **ESEB International travel stipends**

These stipends support attendance at the conference for scientists at various stages of their professional career (e.g., Masters/PhD students, postdocs, and lecturers). You must be a member of ESEB. Note that these stipends are given in conjunction with analogous international travel stipends offered by the SSE above, so there is no need to apply for both. Additional details can be found [here](#). Deadline for application was Mar. 31, 2016.

## **Special Talks**

### **Presidential addresses**

- **ASN Presidential address & award announcements**  
Saturday, June 18 from 4:45 - 5:45 pm, Ballroom ABC (Level 1)  
Mark McPeck (Dartmouth), *Traits, adaptation, and the evolution of community structure*
- **SSB Presidential address & award announcements**  
Sunday, June 19 from 4:45 - 5:45 pm, Ballroom ABC (Level 1)  
Paul Lewis (U. Connecticut), *Entropy and information in phylogenetics*
- **SSE Presidential address & award announcements**  
Monday, June 20 from 4:45 - 5:45 pm, Ballroom ABC (Level 1)  
Kim Hughes (Florida State U.), *Variety is the spice of life: death, sex, and the maintenance of genetic variation*



## Spotlight sessions

See the daily schedule later in this program for a listing of the talks in each symposium.

### 1. The evolution of species interactions

Saturday, June 18, 1 - 4 pm, Ballroom A

Organizers: M.C. Stoddard (Harvard), Marjorie Weber (UC Davis/Michigan State) and Jesse R. Lasky (Penn State);

Sponsor: ASN



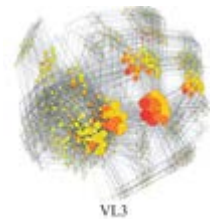
Photo by Ellen Woods

Understanding links between species interactions and evolutionary dynamics has been a fundamental challenge in biology since Darwin. Classic questions remain highly relevant, especially given new molecular, quantitative, and computational tools. For example: How have diverse mechanisms of evolution influenced why some species interact strongly and others weakly? How have the selective forces associated with these interactions shaped genotype, phenotype, and the structure of ecological communities? This session will focus on current research and perspectives on the evolution of species interactions. By bringing together a group of diverse approaches and viewpoints, our goal is to synthesize micro and macro perspectives at the nexus of species interactions and evolutionary biology.

### 2. Next generation phylogenetic inference

Monday, June 20, 1 - 4 pm, Ballroom A

Organizers: Erick Matsen (Fred Hutchinson Cancer Research Center), Tracey Heath (Iowa State), and Felipe Zapata (San Francisco State); Sponsor: SSB



Statistical phylogenetic inference methods, and in particular Bayesian methods, are reaching a hard limit on the number of taxa that can be used in an analysis. Although many interesting and worthwhile efforts have been made to increase the computational efficiency of these methods, it appears that existing inference strategies will simply not scale to orders of magnitude more taxa. In this session we will explore alternate strategies and algorithms for phylogenetic inference.

### 3. Understanding history and process in rapid diversification with genomic data

Organizer: Katie Wagner (U Wyoming)

Sunday, June 19, 1 - 4 pm, Ballroom A; Sponsor: SSE



As the availability of genomic data for non-model organisms increases, our ability to make detailed inferences about the history of even very rapidly diversifying species groups has dramatically increased. However, these data also present new challenges, particularly in the goal of inferring process from pattern. We seek to understand species historical relationships, as well as the roles of selection, incomplete lineage sorting, drift, and introgression in structuring the genetic variation among recently and/or rapidly diverged species. However, accurately distinguishing among these processes can be challenging. In this session, we welcome contributions from researchers working on these questions with genomic data in a diverse array of systems.

## Symposia

See the daily schedule later in the program for a detailed listing of the talks in each symposium.

### 1) ASN VP Symposium: Convergent evolution, natural history, and the big questions in biology

Monday, June 20, 8:30 - 11:45 am, Ballroom A

Organizer: Anurag Agrawal (Cornell)

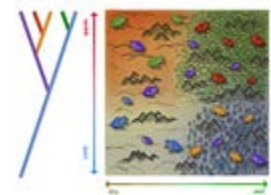


In this symposium, we will bring together researchers working on diverse taxa to address the role of convergent evolution in answering big and long-standing questions in ecology and evolution. Central to our synthesis will be the use of natural history information, and assessing its role in the study of convergence, adaptation, function, and ecology.

### 2) Putting evolution into ecological niche modeling: Building the connection between phylogenies, paleobiology, and species distribution models

Organizers: Nick Matzke (NIMBioS & Australian National U.) and Dan Warren (Macquarie University)

Sunday, June 19, 8:15 - 11:45 am, Ballroom C; Sponsor: SSB

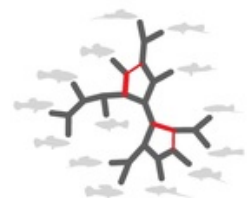


By combining inference of present-day niche distributions with paleo-data and inferences about how niches and distributions evolve on phylogenies, we may be able to improve evolutionary insight and make more robust niche models that are better at capturing the true predictors of species ranges. This symposium will be devoted to “building the connection” between SDMs and phylogenies.

### 3) Advances in the analysis of reticulate population networks

Organizers: Claudia Solís-Lemus (U. Wisconsin) and David Baum (U. Wisconsin)

Monday, June 20, 8:15 - 11:45 am, Ballroom C; Sponsor: SSB



Typical population tree methods are still constrained by the assumption there is a true tree for the taxa under study, with all gene-to-gene discordance being attributable to incomplete lineage sorting (ILS), but what if evolutionary history was not tree-like but involved some reticulation? Systematists would like to have methods for using multilocus sequence data to infer the population network while taking account of both ILS and causes of reticulation such as introgression and hybrid speciation. This symposium will cover some of the most recent advances in developing computationally practical methods for population network inference.



#### 4) How and why? Towards an evolutionary physiological synthesis

Organizer: Chris Muir (University of British Columbia)

Sunday, June 19, 8:30 - 11:30 am, Ballroom A; Sponsor: SSE



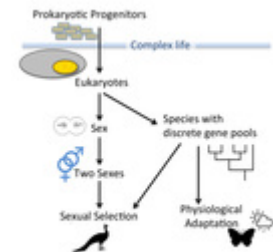
In this symposium, we will assess the progress and potential of evolutionary physiology ('evo-phys') as an interdisciplinary approach to study how and why organismal function evolves. Although evo-phys has a long and successful history, there are several areas that are ripe for new syntheses. The last major syntheses occurred before major advances in Next-Gen sequencing, molecular phylogenetics, phenomics, and other now-standard tools of evolutionary biology.

#### 5) Co-evolving genomes: Cooperation and conflict in cytonuclear interactions

Organizers: Justin Havird (Colorado State), Geoffrey Hill (Auburn U), and Daniel Sloan (Colorado State)

Tuesday, July 21, 9 - 12:15 am, Ballroom A; Sponsor: SSE

This symposium will bring together leading experts working on the evolution of cytonuclear interactions in diverse organismal systems to address emerging and controversial topics in this field. It will explore new and fascinating ideas about cytonuclear interactions and integrate them with familiar evolutionary themes, including genomic conflict, the evolution of sex, speciation, sexual selection, and adaptation.



#### 6) Education Symposium: Making evolution work - Synthesizing research and applied practice to inform both fields

Organizer: Louise Mead (Michigan State) and Kristin Jenkins (BioQUEST), Co-organizers: David Hills (UT Austin) and Ben Wu (Texas A&M). Cost: FREE, [registration required](#); Saturday, June 18, 8:30 – 11:30, MR7; Sponsor: SSE

This symposium brings together evolutionary biology researchers with staff scientists and researchers from state and federal agencies to explore how to use a local conservation topic, in this case Karst watershed conservation, as a way to bring together academic researchers and more applied scientists to address global issues. To provide a framework for the conversation, participants will read a paper by panel members and engage in pre-conference discussion on a virtual platform. Participants will have the opportunity to present virtual posters to inform the discussion on Karst research and conservation during this pre-symposium activity. The symposium will consist of two panel sessions which will set the stage for breakout group discussions to identify mutually relevant areas of interest and potentially fruitful areas for collaboration. Participants should be prepared to interpret their work and knowledge for interested individuals from a different discipline in small group discussions. There is no charge for this event. For more information, visit the [symposium website](#).



## Outreach talks

### 1) SSE's [Stephen J. Gould Prize](#) Lecture

Friday, June 17, 7:30-8:30 pm, Austin Convention Center, Ballroom A/B/C (Level 1)

Speaker: Carl Zimmer, *The surviving branch: How genomes are revealing the twisted course of human evolution*

### 2) Evolution & Art public outreach speaker

Monday, June 20 from 7:30 - 8:30 pm, Austin Convention Center, Meeting room

Speaker: Nathan Morehouse (U. Pittsburgh), *The evolution of seeing*

Sponsor: [Art.Science.Gallery.](#)

## Special Events

### Social events

#### **Friday, June 20**

- Opening Reception & Pop-up Art Exhibit, 6:30 – 10:00 pm, Exhibit Hall 1

#### **Saturday, June 21**

- ASN Student-Mentor Mixer, 4:00 – 4:45 pm, Rotunda (level 1)

#### **Sunday, June 22**

- SSB Student Mixer, 4:00 – 4:45 pm, Rotunda (level 1)
- Evolution Film Festival, 7:00 – 9 pm, MR8

During the first hour, event co-sponsor HHMI Biointeractive will screen some of the terrific evolution videos they offer including “Great Transitions: The Origin of Birds”, and you will have a chance to hear from Dr. Julia Clarke, paleontologist at U. Texas, who is prominently featured in the video. She’ll talk about her experience making the video and answer questions.

During the 2<sup>nd</sup> hour, we will screen the top entrants to this year’s contest. We asked the science and science education communities to tell a story about evolution in 3 min. or less, using animation, art, music, dance, etc. We have some terrific entries and you will be able to see them all and vote on your favorite. (To learn more and see past years’ entries, go to [evolutionfilmfestival.org](http://evolutionfilmfestival.org) and follow #evofilmfest on Twitter.)

Sponsored by the [Duke Initiative for Science & Society](#), the [Howard Hughes Medical Institute \(HHMI\)](#), the [Society for the Study of Evolution \(SSE\)](#) and the [BEACON Center for the Study of Evolution in Action](#).

## ***Monday, June 20***

- **SSE/BEACON Undergraduate Diversity @ Evolution events**

These events are part of the Undergraduate Diversity @ Evolution program but are open to all undergraduates attending the conference. Registration is not required.

- **Undergraduate Ice Cream Social**, 8:00 pm, Rotunda (level 1)  
Come meet and mingle with other undergrads, expand your network, and eat free ice cream! Open to undergraduates and their advisers and mentors.
- **Undergraduate Futures Lecture and Discussion**, 11:30 am – 1:00 pm, MR7  
This session will include an inspirational talk by keynote speaker Dr. Julia Clarke, as well as a panel discussion featuring Dr. Clarke, a postdoctoral fellow, and a graduate student. Plan to attend to learn more about how to get in to and succeed in graduate programs in evolution, as well as the rewards and challenges of a career in evolutionary science. The event is open to all undergraduates attending the conference. Come prepared to ask questions.
- SSE Student-Faculty Mixer, 4:00 – 4:45, Rotunda (level 1)

## ***Tuesday, June 24***

- Super Social, 6:00 pm – midnight, Palmer Events Center. Ticket required.

## **Council & business meetings**

### **1) Executive joint council (ASN/SSB/SSE)**

- Opening meeting: Friday, June 17, 9:00 am; Austin Suite
- Exit meeting: Monday, June 20, 8:30 am; Austin Suite

### **2) ASN**

- Executive council opening meeting: Friday, June 17, 1:00 pm; Austin Suite
- **Business meeting (open to all ASN members): Saturday, June 18, 5:45 pm; MR3**
- Executive council exit meeting: Tuesday, June 21, 8:30 am; Austin Suite

### **3) SSB**

- Executive council opening meeting: Friday, June 17, 1:00 pm; MR3
- **Business meeting (open to all SSB members): Sunday, June 19, 5:45 pm; MR3**
- Executive council exit meeting: Tuesday, June 21, 8:30 am; MR2

#### 4) SSE

- Executive council opening meeting: Friday, June 17, 1:00 pm; MR2
- Education and Outreach Committee: Saturday, June 18, 11:30 am; Austin Suite
- Hamilton Award Committee meeting: Sunday, June 19, 4:00 pm; Austin Suite
- Executive council exit meeting: Monday, June 20, 11:30 am; Austin Suite
- **Business meeting (open to all SSE members): Monday, June 20 5:45 pm; MR3**

#### Workshops & other events

- **ASN Science Communication workshop**

Friday, June 17 from 9:00 am - noon, MR10C; Cost: FREE, registration required (during conference registration)

Sure, your work on [fill-in-the-topic-of-your-research-here] is the most exciting and important science out there! But to have an impact, it must be communicated in ways that enable people to understand and compel them to care. This workshop will provide strategies and approaches that will help you to communicate your work effectively to diverse audiences.

Topics will include:

- The Importance of Message – What is your message? Why does it matter?
- Identifying your Audience – Should your message (or its delivery) change based on your audience (general public, education community, media, policymakers)?
- The Elevator Pitch – What is it? Why is it important? How can you perfect yours?
- Social Media – Do you really need to use social media to communicate your work? If so, how can you do so effectively, without it taking over your life?
- Communicating “Controversial” Science – Why are some areas of science considered controversial, and what strategies can be used to deal with this?

This will be a “hands-on” workshop, so come prepared to practice your skills with your colleagues! This workshop is sponsored by ASN and is being led by the science communication team from Duke University’s Initiative for Science & Society:

- Jory Weintraub, PhD (Science Communication Director, Duke Initiative for Science & Society) – Jory has over 20 years of experience in science education, outreach and communication, including 10+ years leading the education and outreach efforts at NESCent (the National Evolutionary Synthesis Center).
- Abby Olena, PhD (Postdoctoral Fellow, Duke Initiative for Science & Society) – Since receiving her PhD in Developmental Biology, Abby has worked as a science writer/communicator and has led multiple courses and workshops on effective science communication.

- **SSE Diverse Careers Committee workshop**

Friday, June 17 from 1:00 pm - 5:30 pm, MR10C; Cost: \$20, registration required (during conference registration). Restricted to PhD students/PDFs who are members of the SSE, ASN, and/ or SSB

- An afternoon workshop, sponsored by SSE, to point young professionals towards the first steps of personal career exploration (academic and non-academic) and necessary actions for active planning of post-PhD stages. Attendees will leave the workshop with more confidence regarding career options and with actionable items for pursuing the careers of their choosing.
- Participants will be asked to complete a set of exercises before the workshop. On the day of the workshop, there will be a short introduction, followed by two in-depth sessions: a) Networking & Communications (informational interviews, creating a brand, and related topics), and b) Diverse Careers roundtables (small-group meetings with visiting professionals from industry, government, diverse academic positions, etc.). The above sessions will be informative but also highly interactive, balancing guidance and practice.
- **The Diverse Careers committee is also manning a booth in Exhibit Hall 1 for resume-consults and practice of the skills covered in this workshop.**

- **Evo101 Workshop for Science Educators**

Friday, June 17 from 8:30 am - 4:00 pm, MR6B, Austin Convention Center; Cost: \$25 (lunch included), registration required (separate from conference registration - see below).

Science educators in the Austin area are invited to join evolutionary biologists and other science educators for a one-day workshop. Come learn about recent research in the field of evolution, talk with evolutionary biologists, and attend sessions that feature hands-on activities for teaching evolution to all ages. Evolution is the unifying concept of biology and a centerpiece of science education standards BUT also at times one of the more challenging topics to teach. How to teach it effectively? How to deal with student preconceptions? How to make it fun and relevant to their lives? If you've been asking yourself questions like these, and are interested in updating your repertoire of evolution-related teaching materials, we invite you to attend "Evolution 101". Supported by the Society for the Study of Evolution Education Committee and the Howard Hughes Medical Institute.

This workshop had its own registration process that was separate from main conference. [Details here.](#)

- **Women in Science luncheon: Skills for combating bias throughout your scientific career**

Saturday, June 18, 11:30 am – 1 :00 pm, MR18. Pre-registration required. Open to graduate/pdf/faculty who are members of the SSE, ASN, and/or SSB. Interested members of all genders are welcome.

- 30 min. networking period followed by a 1 h panel discussion with several speakers. Discussion will focus on developing personal skills for dealing with biases in science.
- A box lunch could be purchased at time of registration. Options for a quick take-out lunch near the convention center are limited. If you opted out of lunch, you are strongly encouraged to bring a bag lunch. There is a concession stand in the ACC with coffee, drinks, and lunch available for purchase.

- **Taylor & Francis Workshop: Publishing in Academic Journals: tips to help you succeed**

Sunday, June 19 from noon - 12:50 pm, MR7. Cost: FREE, registration not required.

This talk aims to guide new researchers through the process of getting a paper published – from choosing a journal, to what to think about when writing to improve their chances of publication, and then on to how to navigate the peer review process and what you can do once their article is published to increase its impact. The talk will cover article metrics, use of social media, how to respond to reviewers' comments, plus more, giving a thorough understanding of the steps involved, the key information sources authors should be aware of, and what they can (and should) be doing to help get their paper published.

Lunch is not provided but you can bring your own to eat during the event. There is a concession stand in the ACC with coffee, drinks, and lunch available for purchase.

- **iEvoBio satellite conference**

iEvoBio is a forum bringing together biologists working in evolution, systematics, and biodiversity, with software developers and mathematicians. The goal is both to catalyse the development of new tools and to increase awareness of the possibilities offered by existing technologies (ranging from standards and reusable toolkits to mega-scale data analysis to rich visualization).

iEvo bio will host three events at the meeting:

- 1) A Software demo during the Monday poster session (5:45 – 7:45, Exhibit Hall 1)
- 2) Lightning talk session: Tuesday, June 21 from 1:30 – 2:25 pm, MR9C
- 3) All-day session on Wednesday, June 22, MR9

For more details see the daily schedule below and visit [their website](#). Pre-registration is required.



## Daily Schedule

Thursday, June 16

### SSB Phylogenetics Symposium

MR7

8:00	Full breakfast and registration*
9:00	<b>Jim Leebens-Mack.</b> <i>Opening remarks</i>
9:15	<b>Siavash Mirarab.</b> <i>ASTRAL: Fast coalescent-based computation of the species tree topology, branch lengths, and local branch support</i>
9:45	<b>Pranjal Vachaspati.</b> <i>ASTRID</i>
10:15	<b>Coffee break*</b>
10:45	<b>Erin Molloy.</b> <i>The effect of missing data on species tree estimation</i>
11:15	<b>Sébastien Roch.</b> <i>A survey of theoretical results for species tree estimation</i>
11:45	<b>Lunch (on your own)</b>
1:15	<b>Tandy Warnow.</b> <i>Multiple sequence alignment</i>
1:45	<b>Michael Nute.</b> <i>Scaling BALi-Phy to large datasets</i>
2:15	<b>Nam Nguyen.</b> <i>Taxonomic identification of metagenomic data</i>
2:45	<b>Coffee break*</b>
3:15	<b>Dave Swofford,</b> <i>SVDquartets</i>
3:45	<b>Cécile Ané and Claudia Solis Lemus.</b> <i>Quartet-based estimation of reticulate evolution</i>
4:15	<b>Luay Nakhleh.</b> <i>The Multispecies Network Coalescent and Phylogenetic Network Inference</i>
4:45	<b>Tandy Warnow.</b> <i>Closing remarks, and description of Friday's tutorials</i>

\*Attendance at the talks requires registration, but on-site registration will be possible. Breakfast and coffee breaks required pre-registration by May 30.

## Friday, June 17

### SSB Software School\*

MR4 & 7

MR4		MR7
<b>7:30</b>	Full breakfast	
<b>8:30 - 9:45</b>	<b>PhyloNetworks Part I</b> (Claudia and Cécile)	<b>SVDquartets</b> (Dave)
<b>10:00 - 11:00</b>	<b>PhyloNetworks Part II</b> (Claudia and Cécile)	<b>TIPP</b> (Nam)
<b>11:15 - 12:15</b>	<b>Phylonet</b> (Yun and Luay)	<b>ASTRID</b> (Pranjal)
<b>12:15 - 1:45</b>	<b>Lunch (on your own)</b>	
<b>1:45 - 3:15</b>	<b>Multiple Sequence Alignment</b> (Nam), last name M-Z	<b>ASTRAL</b> (Siavash), last name A-L
<b>3:15 - 3:45</b>	<b>Coffee break</b> (provided)	
<b>3:45 - 5:15</b>	<b>Multiple Sequence Alignment</b> (Mike), last name A-L	<b>ASTRAL</b> (Siavash), last name M-Z

\*Additional details and instructions here: <http://tandy.cs.illinois.edu/software-school-2016.html>

### ASN Science Communication workshop

MR10C

9:00 am – noon

### SSE Diverse Careers workshop

MR10C

1:00 – 5:30 pm

### Evo101 Workshop for Science Educators

MR6B

8:30 am – 4:00 pm

	Ballroom A	Ballroom B	Ballroom C
	SSB Mayr Award Symposium 1	Prokaryotes	Contemporary evolution
8:30 am	Likelihood-based parameter estimation for high-dimensional phylogenetic comparative models: overcoming the limitations of 'distance-based' methods  Eric Goolsby	Experimental analysis of barriers to horizontal gene transfer  Hande Acar; Jonathan P. Bollback	Maladaptation to acute metal exposure in resurrected <i>Daphnia</i> ambigua clones after decades of increasing contamination  Mary Rogalski
8:45 am	Targeted sampling and target capture: Assessing phylogeographic concordance with genome-wide data  Lisa Barrow; J. Angel Soto-Centeno; Alan Lemmon; Emily Lemmon	Capturing the phage-host interaction in wastewater  Emily Sible; Katherine Bruder; Siobhan Watkins; Catherine Putonti	The stasis that wasn't: Adaptive evolution goes against phenotypic selection in a wild rodent population  Timothée Bonnet
9:00 am	Historical Biogeography of Reptiles and Amphibians from the Lesser Sunda Islands, Indonesia  Sean Reilly; Ke Bi; Evy Arida; Djoko Iskandar; Jimmy McGuire	Bacteriophages infecting bladder dwelling bacteria  Alexandria Cooper; Katherine Bruder; Kema Malki; Catherine Putonti	Exome sequencing of >800 individuals tracks genomic changes during rapid life history evolution in a non-model species  Nina Overgaard Therkildsen*; Aryn Wilder; David Conover; Stephan Munch; Stephen Palumbi
9:15 am	The abiotic and biotic drivers of rapid diversification in Andean bellflowers (Campanulaceae)  Laura Lagomarsino; Fabien Condamine; Andreas Mulch; Alexandre Antonelli; Charles Davis	Dynamic microbiome evolution in social bees  Waldan Kwong; Nancy Moran	Cancelled
9:30 am	When the Leaf Breaks: Unrooted Phylogenetic Orthology (UPhO) for Phylogenomics  Jesus Ballesteros; Gustavo Hormiga	Two before one; The origin of double membrane envelopes in Firmicutes  Daniel Poppleton*; Luisa Antunes; Andreas Klingl; Céline Brochier-Armanet; Christophe Beloin; Simonetta Gribaldo	Sex, Bugs, and Birth Control: Human Evolution in the 21st Century and Beyond  Scott Solomon

Saturday, June 18 | 8:30 – 9:45 am


(Bold denotes presenter when not first author.)

MR3	MR4	MR5	MR6A
Reproductive systems 1	Development 1	Quantitative genetics 1	Mobile elements
<p><i>Tetrahymena thermophila</i> shows increased evolvability following sex</p> <p>Jason Tarkington</p>	<p>From sticklebacks to humans: Evolving skeletal traits by cis-regulatory changes in bone morphogenetic proteins</p> <p>Vahan Indjeian</p>	<p>New wine in old skin: classical and modern methods reveal the genetic basis of male dichromatism in annual killifishes</p> <p>Enoch Ng'oma; Alessandro Cellerino; Matthias Platzer</p>	<p>Evidence of a recent invasion of <i>Drosophila yakuba</i> by the P-element</p> <p>Antonio Serrato; Daniel Matute</p>
<p>Quantifying genome theft and characterizing gene expression in unisexual <i>Ambystoma</i> salamanders</p> <p>Robert Denton*; Lisle Gibbs; Kyle McElroy; Laura Bankers; Joel Sharbrough; Maurine Neiman</p>	<p>DNA Elimination in Copepods: A Complex Picture of Genes, Transposable Elements and other Sequence Repeats</p> <p>Grace Wyngaard; Maxim Zagoskin; Cheng Sun; Brian Walton; Rachel Lockridge Mueller</p>	<p>Why are humans so long-lived? Selection for genes that promote late-life human longevity</p> <p>Jacob Moorad</p>	<p>Computational modeling of endogenous retrovirus evolution</p> <p>Fabricia Nascimento*; Aris Katzourakis</p>
<p>The Breakdown of the Self-Incompatibility Response in <i>Tolpis</i></p> <p>Boryana Koseva; Keely Brown; Dan Crawford; Mark Mort; John Kelly</p>	<p>Evolution of the Myc/Max transcription factor network: Insights from <i>Trichoplax adhaerens</i></p> <p>Sarah Rolfes; Karolin v. d. Chevallerie; Georgios Tsiavaliaris; Bernd Schierwater</p>	<p>Artificial selection to increase the phenotypic variance in <i>gmax</i> fails in the presence of stabilizing selection</p> <p>Jacqueline Sztepanacz*; Mark Blows</p>	<p>Evaluating the Relationship between Reproductive Mode and Transposable Element Evolution</p> <p>Kyle McElroy; Jeffery Boore; John Logsdon; Maurine Neiman</p>
<p>Ciliate genome architecture allows success without sex</p> <p>Rebecca Zufall; Joe West; Paul Doerder; Ricardo Azevedo</p>	<p>Biology of chitin in <i>Nematostella vectensis</i>, a soft-bodied anemone</p> <p>Lauren Vandepas; Leslie Babonis; Chris Amemiya</p>	<p>High evolutionary constraints limited adaptation to past climate in toad skulls</p> <p>Monique Simon; Fabio Machado; Gabriel Marroig</p>	<p>The evolution of small RNA-mediated silencing of an invading transposable element</p> <p>Erin Kelleher; Ricardo Azevedo; Yichen Zheng</p>
<p>Genome-wide patterns of genetic variation in a clonal angiosperm</p> <p>Magdalena Bartkowska; Aneil Agrawal; Stephen Wright</p>	<p>Allele specific expression of candidate developmental genes in F1 hybrids of <i>Arabidopsis lyrata</i></p> <p>Bishwa Giri*; David Remington</p>	<p>Fitness variation in a wild song sparrow (<i>Melospiza melodia</i>) population: quantitative genetic analyses of fitness components</p> <p>Matthew Wolak; Jane Reid</p>	<p>Cancelled</p>

Morning coffee break | 9:45 – 10:15 am

Sponsor:

New  
Phytologist

	MR6B	MR7	MR8	MR9AB
	Population genetics	Education symposium	Reproductive isolation 1	Adaptation / genomics 1
8:30 am	Cancelled	(Prior registration required) <a href="https://qubeshub.org/groups/sseedsym2016/overview">https://qubeshub.org/groups/sseedsym2016/overview</a>  Introduction & welcome	A widespread and polymorphic genetic incompatibility in <i>Mimulus</i>  Matthew Zuellig*	Significant role of standing regulatory variants in altitudinal adaptation  Yu-Ting Lai; Shou-hsien Li; Kui Lin
8:45 am	Estimating effective population size from temporal allele frequency changes in experimental evolution  Agnes Jonas; Thomas Taus; Carolin Kosiol; Christian Schlötterer; Andreas Futschik	Panel discussion on Karst watershed conservation with Timothy H. Bonner, Texas State University, San Marcos, Jean Krejca, Owner, Sara Environmental LLC, and others	Local adaptation to hosts of different size triggers reproductive isolation in feather lice  Dale Clayton; Sarah Bush; Scott Villa	The genomic basis of bridling and thermal adaptation in a dimorphic seabird  Anna Tigano; Vicki Friesen
9:00 am	Any Ne future: Unifying demography and genetic Ne estimation for conservation of long-lived, low-fecundity species  Dean Blower; Cynthia Riginos; Jennifer Ovenden		Genetic, gametic, and developmental insights into Haldane's rule and its corollary in <i>Caenorhabditis</i> nematodes  Joanna Bundus; Asher Cutter	Genomics of local adaptation in corals ( <i>Acropora millepora</i> ) from the Great Barrier Reef  Sarah Barfield; Mikhail Matz
9:15 am	Riverscape genetics: modeling genomic expectations to test hypotheses about river network architecture as drivers of evolutionary dynamics in aquatic populations  Andréa Thomaz*; Mark R. Christie; L. Lacey Knowles	Small group discussion: What are the challenges, what are important questions?	Epistasis for Premating Postzygotic Isolation  Jennafer Hamlin; Natasha Sherman; Leonie Moyle	Modularity characterizes the <i>Heliconius</i> warning color adaptive radiation  Steven Van Belleghem*; Chris Jiggins; Brian Counterman; Owen McMillan; Riccardo Papa
9:30 am	Are the allele frequency constraints on differentiation measures GST and D less than on FST? A mathematical, simulation and empirical study  Nicolas Alcala; Noah Rosenberg		The evolution of premating reproductive isolation in song in tropical birds  Benjamin Freeman; Graham Montgomery; Dolph Schluter	Rapid evolution during habitat invasions  Carol Eunmi Lee
<p><b>Morning coffee break   9:45 – 10:15 am</b></p> <p><b>Sponsor:</b>  <b>New Phytologist</b></p>				



Saturday, June 18 | 8:30 – 9:45 am

(Bold denotes presenter when not first author.)

MR9C	MR10A	MR10B	MR10C
Expression studies 1	Sexual conflict 1	Species interactions	Genomics 1
Transcribed microsatellite allele lengths are correlated with gene expression in sunflowers  Mark Welch*	Female plasticity and post-copulatory sexual conflict  David McLeod; Troy Day	Visual ecology of a three level predator-prey system  David Outomuro*; Linus Söderquist; Frank Johansson; Anders Ödeen; Karin Nordström	Growth and development in wild sunflowers: Effects of genome size and life history  Hannah Tetreault; Mark Ungerer; Anastasia Weston
Experimental evolution of gene expression and plasticity  Aneil Agrawal; Yuheng Huang	Tearing the sexes apart: Artificial sexually-antagonistic selection reveals the fitness consequences of pleiotropy between sexes  Thomas Gosden; Adam Reddiex; Steve Chenoweth	Modeling tripartite interactions between plants, insects and mutualistic bacteria  Chandra Jack; Leigh Sheneman; Arend Hintze	Coexpression networks connect genes to secondary metabolic pathways in plants  Jennifer Wisecaver; Antonis Rokas
Gene expression through out spermatogenesis: what new genes can tell us  Julia Raices; Paulo Otto; Maria Vibranovski	Does environmental complexity affect sexual selections ability to purge deleterious mutations?  Amardeep Singh*; Aneil Agrawal; Howard Rundle	The proof is in the partially-digested plants: Reconstructing Chrysochus (Eumolpinae, Chrysomelidae) phylogeny and host associations through gut DNA extractions  Elizabeth McHone; Tatyana Livshultz	Genome-wide analysis of indirect genetic effects on maternal behaviour  Reinmar Hager*; David Ashbrook; Beatrice Gini
Using RNA-seq to study the sex-role reversed Gulf pipefish: Are patterns of sex-bias gene expression different when we are dealing with Mr.Mom?  Andria Beal; Matt Hale; Douglas Martin	Female dimorphism and male harassment in the Hawaiian damselfly <i>Megalagrion calliphya</i>  Phoebe Cook; Rebecca Rasmussen; Edward Hsieh; Jackie Brown; Idelle Cooper	Proto-farming and the carried microbiome in a social amoeba  Longfei Shu; Susanne DiSalvo; Tamara Haselkorn; David Queller; Joan Strassmann	The evolution of sex chromosomes in <i>Asparagus</i>  Alex Harkess; Jim Leebens-Mack
	Sexual selection, mutation load, and the private male genome  Karl Grieshop; David Berger; Göran Arnqvist	The symbiotic potential of Burkholderia bacteria in the social amoeba <i>Dictyostelium discoideum</i>  Tamara Haselkorn; Susanne DiSalvo; Usman Bashir; Debra Brock; Joan Strassmann; David Queller	Louse genomes reveal major host switches between birds and mammals  Kevin Johnson; Julie Allen; Bret Boyd; Nam Nguyen; Pranjal Vachaspati; Tandy Warnow

Morning coffee break | 9:45 – 10:15 am

Sponsor:

New  
Phytologist

Saturday, June 18 | 10:15 – 11:30 am

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	SSB Mayr Award Symposium 2	SSE Hamilton Award Symposium 1	Invasion / molecular ecology
10:15 am	Finding space for biogeography in phylogenetic inference  Michael Landis	The two-fold cost of sex: experimental evidence from a natural system  Amanda Gibson; Lynda Delph; Curtis Lively	Effective population size variation and local adaptation in invasion  Joseph Braasch; Katrina Dlugosch
10:30 am	Uncovering macroevolutionary diversification dynamics from clade age, species richness and taxonomic structure  Luna Luisa Sánchez Reyes; Hélène Morlon; Susana Magallon	Coevolutionary interactions with parasites constrain the spread of self-fertilization into outcrossing host populations  Samuel Slowinski; Levi Morran; Raymond Parrish II; Eric Cui; Amrita Bhattacharya; Curtis Lively; Patrick Phillips	Mitochondrial Heteroplasmy Confounds Inference of Infestation History  Grant Robison; Ondrej Balvin; Coby Schal; Edward Vargo; Warren Booth
10:45 am	Drivers of rapid speciation in high Andean Plants (Asteraceae: Diplostephium)  Oscar Vargas; Beryl Simpson	Diet and venom evolution in cone snails  Mark Phuong	Toll-Like Receptor genes in dunnocks: comparing United Kingdom and New Zealand  Carlos Lara*; Shinichi Nakagawa
11:00 am	Vomeroneasal system evolution in bats is a one-way street  Laurel Yohe; Liliana Davalos	Genomic analysis of <i>Escherichia coli</i> from an evolution experiment with intergenomic recombination  Rohan Maddamsetti; Richard Lenski	Rapid evolution of heat tolerance and heat-shock protein gene expression during the invasion of the seaweed <i>Gracilaria vermiculophylla</i>  Ben Flanagan; Erik Sotka; Stacy Krueger-Hadfield
11:15 am	Parallel phylogeographic histories of two <i>Viburnum</i> species complexes revealed with RADseq data  Elizabeth Spriggs; Deren Eaton; Caroline Schlutius; Michael Donoghue	Multiple reproductive barriers separate recently diverged sunflower ecotypes  Katherine Ostevik; Rose Andrew; Sally Otto; Loren Rieseberg	Genetic insights into the range expansion of the coral <i>Oculina patagonica</i> along the Spanish Mediterranean coast  Karine Leydet; Carsten G.B. Grupstra; Rafael Coma; Marta Ribes; Michael Hellberg
Lunch   11:30 am – 1:00 pm			

MR3	MR4	MR5	MR6A
Reproductive systems 2	Development 2	Quantitative genetics 2	Allometry
<p>Nuts &amp; bolts in ants, bees &amp; wasps: describing the meiotic gene inventory in Hymenoptera</p> <p>Eric Tvedte; Andrew Forbes; John Logsdon</p>	<p>Evolution and development of leaves, the story that lycophytes and ferns tell</p> <p>Alejandra Vasco; Barbara Ambrose</p>	<p>Temperature-dependent sex determination under rapid anthropogenic environmental change: evolution at a turtle's pace?</p> <p>Fredric Janzen*</p>	<p>Cancelled</p>
<p>A genetic map of the selfing syndrome in morning glory</p> <p>Joanna Rifkin; Mark Rausher</p>	<p>Reproductive capacity evolves through changes in ecology and allometric growth in Hawaiian <i>Drosophila</i></p> <p>Didem Sarikaya*</p>	<p>The genetic basis of nesting behavior in wild mice (genus <i>Peromyscus</i>)</p> <p>Caitlin Lewarch; Hopi Hoekstra</p>	<p>The evolution of sexual dichromatism in African reed frogs</p> <p>Daniel Portik</p>
<p>Evolutionary lag in populations with both sexual and clonal reproduction</p> <p>Maria Orive*; Michael Barfield; Robert Holt</p>	<p>Tammar wallaby <i>Macropus eugenii</i> (Macropodidae) as a model for mammalian tooth evolution, development and replacement</p> <p>Qamariya Nasrullah; Marilyn Renfree; Alistair R. Evans</p>	<p>Genetic correlations among types of behavioral plasticities in <i>Drosophila melanogaster</i></p> <p>Julia Saltz; Sergey Nuzhdin; Seana Lymer</p>	<p>Variation in limb length across lizards</p> <p>Travis Hagey*; Christofer Clemente</p>
<p>Influences of ploidy level and reproductive mode on patterns of adaptive molecular evolution in a New Zealand freshwater snail</p> <p>Laura Bankers; Jeffery Boore; John Logsdon; Maurine Neiman</p>	<p>Ecological causes and consequences of developmental complexity in experimentally evolved multicellular yeast</p> <p>William Driscoll; Michael Travisano</p>	<p>The genetic basis of the divaricating plant growth form</p> <p>Vaughan Symonds; Kay Pilkington</p>	<p>A genetic parallel between flightlessness evolution in the Galapagos Cormorant (<i>Phalacrocorax harrisi</i>) and human ciliopathies</p> <p>Alejandro Burga; Weiguang Wang; Paul Wolf; Andrew Ramey; Claudio Verdugo; Karen Lyons; Patricia Parker; Leonid Kruglyak</p>
<p>Sex chromosome macroevolution &amp; the reproductive biology of dinosaurs</p> <p>Chris Organ; Andrew Meade; Dan Janes</p>	<p>Comparative genomics and developmental biology suggest a strong role for gene regulation in the evolution of flightless birds</p> <p>Phil Grayson; Tim Sackton; Alison Cloutier; John Young; Michele Clamp; Clifford Tabin; Scott V. Edwards</p>	<p>Cancelled.</p>	<p>Serotonin mediates the evolution of developmental plasticity in horn-polyphenic beetles</p> <p>Daniel Schwab; Keeley Newsom; Armin Moczek</p>
<p><b>Lunch   11:30 am – 1:00 pm</b></p>			

	MR6B	MR7	MR8	MR9AB
	Population genetics / hybridization	Education symposium	Reproductive isolation 2	Adaptation / genomics 2
10:15 am	Selfish evolution of cytonuclear hybrid incompatibility in <i>Mimulus</i>  Andrea Case; Findley Finseth; Camille Barr; Lila Fishman	Panel discussion of the social implications: getting people to think globally	Florally diverse species of <i>Jaltomata</i> (Solanaceae) exhibit multiple post-mating and post-zygotic reproductive barriers  Jamie Kostyun; Leonie Moyle	Convergent local adaptation to climate in conifers: exome sequencing reveals an unexpected role for gene duplication  Sam Yeaman*; K. Hodgins; K. Lotterhos; H. Suren; S. Nadeau; J. Degner; K. Nurkowski; P. Smets; T. Wang; L. Gray; K. Liepe et al.
10:30 am	Balancing selection facilitates introgression of newt immune genes  Anna Fijarczyk; Katarzyna Dudek; Wiesław Babik		Patterns of reproductive isolation in California Jewelflowers ( <i>Streptanthus</i> )  Kyle Christie	Sex-specific selection and sexually dimorphic gene expression in humans and flies  Mark Kirkpatrick; Changde Cheng
10:45 am	Evidence and estimation of genome-wide linked selection and differential introgression in multiple species using mixture-model based isolation with migration (IM) analyses  Arun Sethuraman*; Vitor Sousa; Jody Hey	Small group discussion based on topics identified in earlier session	Parental conflict, parent of origin effects, and the evolution of hybrid seed failure in <i>Mimulus</i>  Jenn Coughlan; John Willis	Cancelled
11:00 am	Asymmetrical introgression mediated by selection in a recent turtle hybrid zone  Peter Scott		Divergent sexual selection on male courtship song drives rapid speciation in <i>Drosophila athabasca</i> species complex  Roman Yukilevich*	Population genomics of a multi-species mimetic hybrid zone  Jake Morris; Kanchon Dasmahapatra
11:15 am	Genomic admixture resulting from secondary contact between two invasive fire ant species  Elizabeth Wade; Sean Ryan; Pnina Cohen; Lucinda Lawson; Kenneth Ross; DeWayne Shoemaker	Large group discussion and feedback for next year	The evolution of incomplete reproductive isolation: from allopatry to sympatry  Olivier Cotto; Maria Servedio	Quantity, not quality: rapid adaptation to local prey proceeds through venom-gene expression changes in rattlesnakes  Mark Margres; Darin Rokyta
Lunch   11:30 am – 1:00 pm				

MR9C	MR10A	MR10B	MR10C
Expression studies 2	Sexual conflict 2	Speciation 1	Genomics 2
<p>The transcriptional basis of quantitative behavioral variation</p> <p>Kyle Benowitz; Elizabeth McKinney; Allen Moore</p>	<p>The Evolution of Sexual Conflict in the Trinidadian Guppy</p> <p>Alex Landy; Joseph Travis; David Reznick; Andrés López-Sepulcre</p>	<p>A novel perspective of the evolution of ring species: Effects of historical contingency, ecological gradients, dispersal and the genetic basis of adaptation</p> <p>Michael Williamson; Cortland Griswold</p>	<p>Multiple whole genome duplications during the evolution of hexapods</p> <p>Zheng Li</p>
<p>Comparative transcriptomics of social behavior: a case in monogamous males</p> <p>Becca Young*; Lauren O'Connell; Hans Hofmann</p>	<p>Sins of the father: the effect of experimentally increased sexual harassment on offspring behaviour in Trinidadian guppies</p> <p>Alex De Serrano; Mitchel Daniel; Helen Rodd</p>	<p>Genetic differentiation associated with host plants and geography in widespread lineages within a hyperdiverse group of neotropical tephritid fruit flies</p> <p>Andrew Forbes; Kristina Ottens; Isaac Winkler; Marty Condon</p>	<p>The genome sequence of the bananaquit (Passeriformes: <i>Coereba flaveola</i>) and insights into the immunogenetic repertoire</p> <p>Jennifer Antonides; J. Andrew DeWoody</p>
<p>Gene expression changes in the brains of pair-bonded blue stripe pipefish</p> <p>Emily Rose; Caitlin Leslie; Adam Jones</p>	<p>Male-male relatedness or familiarity? Which reduces female harm in <i>Drosophila melanogaster</i>?</p> <p>Sally Le Page; Pau Carazo; Stuart Wigby</p>	<p>Disruptive natural selection predicts divergence between the sexes during adaptive radiation</p> <p>Stephen De Lisle; Locke Rowe</p>	<p>Bringing sharks into the genomic age: Insights from genome and transcriptome sequencing in elasmobranchs</p> <p>Nicholas Marra; Minghui Wang; Paulina Pavinski Bitar; Qi Sun; Aleksey Komissarov; Stephen J. O'Brien; Mahmood Shivji; Michael J. Stanhope</p>
<p>Cancelled</p>	<p>Runaway nuclear-mitochondrial coadaptation leaves behind a residue of genomic conflict</p> <p>Devin Drown*; Michael Wade</p>	<p>Divergent phenotypes and their influence on genome-wide divergence in barn swallows</p> <p>Rebecca Safran; Elizabeth Scordato; Georgy Semenov; Alex Rubstov; Matt Wilkins; Joanna Hubbard; Brittany Jenkins; Tomas Albrecht; Samuel Flaxman; Hakan Karaardic; Yoni Vortman et al.</p>	<p>Comparative mitogenomics reveals extreme population differentiation and armless tRNAs in <i>Tigriopus californicus</i></p> <p>Eric Watson; Felipe Barreto; Christopher Willett; Suzanne Edmands; Thiago Lima; Ron Burton</p>
<p>The genetic basis of red ketocarotenoid coloration in birds</p> <p>Nick Mundy; Jessica Stapley; Staffan Andersson; Jon Slate</p>	<p>Does the Y-chromosome facilitate sexual dimorphic evolution or constrain autosomal evolution?</p> <p>Ian Kutch; Kenneth Fedorka</p>	<p>Social context, not individual personality, alters immigrant viability in a social spider</p> <p>Spencer Ingley*; Jonathan Pruitt; Jessica Purcell</p>	<p>Evolutionary dynamics of genomic repeat element landscapes across 200 million years of squamate evolution</p> <p>Giulia Irene Pasquesi*; Todd Castoe; Daren Card; Richard Adams; Andrew Corbin; Drew Schield</p>
<p><b>Lunch   11:30 am – 1:00 pm</b></p>			



(\* indicates session chair)

Afternoon coffee break | 2:15 – 2:45 pm

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MR3	MR4	MR5	MR6A
Phylogenomics 1	Macroevolution 1	Phylogenetic methods development 1	Macroevolution / diversification 1
<p>Evolution of vagility and convergent island gigantism in quail (Aves: Coturnix)</p> <p>Peter Hosner; Joseph Tobias; Ed Braun; Rebecca Kimball</p>	<p>Selection, constraint, and the evolution of coloration in African starlings</p> <p>Rafael Maia; Dustin Rubenstein; Matthew Shawkey</p>	<p>Statistically consistent phylogenetic inference using k-mer frequencies</p> <p>John Rhodes*; Elizabeth Allman; Seth Sullivant</p>	<p>Macroevolutionary dynamics and convergence in frogs</p> <p>Joanna Larson; Daniel Rabosky</p>
<p>Tectonic collision and uplift of Wallacea triggered the global songbird radiation</p> <p>Carl Oliveros*; R. Moyle; M. Andersen; P. Hosner; B. Benz; J. Manthey; S. Travers; R. Brown; B. Faircloth</p>	<p>Macroevolutionary trade-offs in plant-feeding insects</p> <p>Daniel Peterson*; Nate Hardy; Benjamin Normark</p>	<p>Terraphy: characterizing terraces in phylogenetic treespace</p> <p>Derrick Zwickl; Michael Sanderson</p>	<p>The macroevolution of climatic niches and its implications for generating species diversity gradients</p> <p>Marcio Pie; Andressa Duran; Andreas Meyer</p>
<p>Early and dynamic colonization of Central America drives speciation in Neotropical army ants</p> <p>Max Winston; Daniel Kronauer; Corrie Moreau</p>	<p>Complex dynamics in rates of dinosaur body mass evolution</p> <p>Jonathan Mitchell</p>	<p>Construction and diagnosis of hybridization networks</p> <p>Michael Miyagi; Ward Wheeler</p>	<p>Combining performance surfaces in studies of functional and morphological diversification</p> <p>C. Tristan Stayton*</p>
<p>Society Island Partula tree snail survival after a mass extinction: New genomic insights using museum specimens</p> <p>Amanda Haponski; Taehwan Lee; Diarmaid O' Foighil</p>	<p>The role of gut microbes in ant evolution</p> <p>Corrie Moreau; Scott Powell; John Wertz; Jacob Russell</p>	<p>The impact of ancestral population size and incomplete lineage sorting on Bayesian estimation of species divergence times</p> <p>Konstantinos Angelis; <b>Mario dos Reis</b></p>	<p>A quantitative macroevolutionary approach to exploring the pharmaceutical drug innovation crisis</p> <p>Erik Gjesfjeld; Jonathan Chang; Daniele Silvestro; Michael Alfaro</p>
<p>Genomic characterization of anchored phylogenomic and anonymous loci using a de novo chorus frog (Pseudacris) transcriptome</p> <p>Sean Holland; Sarah Banker; Emily Lemmon; Alan Lemmon</p>	<p>The evolution of a morphologically and ecologically specialized soldier caste in a socially complex lineage</p> <p>Shauna Price; Scott Powell</p>	<p>The semantic clade: how computable phylogenetic definitions can link any data to any clade on any phylogenetic tree, ever</p> <p>Gaurav Vaidya; Hilmar Lapp; Nico Cellinese</p>	<p>Ecology of avian diversification across islands</p> <p>Antonin Machac; Knud Jønsson; Carsten Rahbek</p>

	MR6B	MR7	MR8	MR9AB
	Population genetics theory/methods 1	Education	Reproductive isolation 3	Adaptation / genomics 3
1:00 pm	Landscape genomics of the Desert Tortoise  Peter Ralph*; Bradley Shaffer; Evan McCartney-Melstad	Reducing students' perceived conflict between religion and evolution  Elizabeth Barnes; James Elser; Sara Brownell	Tests of reproductive isolation between the fishes <i>Fundulus heteroclitus</i> and <i>F. grandis</i>  Ruthie Barbas; <b>Matthew Gilg</b>	The 1001 genomes of <i>Arabidopsis thaliana</i> reveal a deep climatic adaptation history driven by summer drought  Moises Exposito-Alonso; François Vasseur; George Wang; Detlef Weigel
1:15 pm	Adaptive introgression and the evolutionary genetics of hybrid fitness effects  Joseph Lachance	Avida-ED 3.0: The Digital Evolution Education Platform, Now in the Browser  Robert Pennock; Diane Blackwood; Matthew Rupp; Charles Ofria	Pervasive antagonistic interactions among hybrid incompatibilities  Rafael Guerrero*; Takuya Nakazato; Leonie Moyle	Genomics of lateral gene transfer in grasses  Luke Dunning; Jill Olofsson; Colin Osborne; Patrik Nosil; Pascal-Antoine Christin
1:30 pm	Local maladaptation interacts with expansion load during species range expansions  Kimberly Gilbert; Nathaniel Sharp; Jeremy Draghi; Frédéric Guillaume; Anna Hargreaves; Rémi Matthey-Doret; Gina Conte; Amy Angert; Michael Whitlock	Clicker use in introductory biology: Does question format affect learning?  Joanna Hubbard*; Brian Couch	Quantifying the relationship between pollinator behavior and plant reproductive isolation  Robin Hopkins	Genomic basis of desert adaptation in the rock pocket mouse  Noëlle Bittner; Michael Nachman
1:45 pm	SLiM 2.0: A flexible and interactive framework for population genomic simulations in realistic evolutionary and ecological scenarios  Benjamin Haller; Philipp Messer	Tri-society outreach opportunities through BEACON  Alexa Warwick; Louise Mead	The melting snowball: A test of the snowball theory using RNA  Ata Kalirad; Ricardo B. R. Azevedo	Whole genome comparisons among hummingbirds reveal targets of natural selection during repeated high-altitude colonization  Jessica Weber; O. Chung; H. Kim; Y. Kim; Y.S. Cho; J. McGuire; R. Dudley; E. Beckman; J. Mudge; C. Witt; J. Bhak et al.
2:00 pm	Mind the gap: the effects of INDEL variation on population genetic inference from RAD sequencing  Jonathan Puritz; David S. Portnoy; John R. Gold	Implementing models of biological evolution in video games  Barrie Robison; Terence Soule	Quantitative genetic simulations show that standing variation facilitates the evolution of reproductive isolation during ecological speciation  Kayla Hardwick; Ailene MacPherson; Erica Bree Rosenblum; Luke Harmon	Ecological genomics of parallel adaptation to climate in lodgepole pine and interior spruce  Jeremy Yoder*; Sally Aitken; Sam Yeaman; Michael Whitlock; Kathleen Lotterhos

MR9C	MR10A	MR10B	MR10C
Expression studies 3	Sexual conflict 3	Speciation 2	Genomics / bioinformatics
<p>Genetic changes involved in the evolution of delayed hatching, desiccation tolerance, and diapause among annual and non-annual killifishes</p> <p>Andrew Thompson; Anais Hayes; Jason Podrabsky; Guillermo Orti</p>	<p>Comparing genome-guided and de novo methods for inferring transcriptional sexual dimorphism in <i>Ceratodon purpureus</i></p> <p>Sarah Carey; Jacob Landis; Adam Payton; Emily Woodruff; Kerrie Barry; Jerry Jenkins; Jane Grimwood; Jeremy Schmutz; Stuart McDaniel</p>	<p>Range overlap drives chromosome inversion fixation in passerine birds</p> <p>Daniel Hooper*</p>	<p>The Evolution of the LINE-1 Retrotransposon in Vertebrates</p> <p>Stephane Boissinot</p>
<p>Gene expression under hypoxic conditions in high-elevation Asian pikas</p> <p>Katherine Solari; Elizabeth Hadly</p>	<p>Evolutionary lability in the modulation of sex-biased gene expression by testosterone</p> <p>Christian Cox*; Nick B. Pollock; Henry John-Alder; Audra Andrew; Daren Card; Todd Castoe; Robert Cox</p>	<p>Speciation with gene flow in North American Myotis bats</p> <p>Ariadna Morales; Bryan Carstens; Brian O'Meara; Nathan Jackson</p>	<p>Population Genomics of Transposable Elements in Vertebrates</p> <p>Robert Ruggiero; Stephane Boissinot</p>
<p>Population structure and venom variation within rock rattlesnakes (<i>Crotalus lepidus</i>)</p> <p>Alyssa Bigelow; Kenneth Wray; Mark Margres; Alan Lemmon; Emily Lemmon; Darin Rokyta</p>	<p>Sex-Specific Selection Pressures and the Evolution of Sex Determination in the House Fly</p> <p>Richard Meisel</p>	<p>Chromosomal Reorganization and Evolution of Phyllostomid Bats</p> <p>Cibele Sotero-Caio; Roy Platt; David Ray; Marianne Volleth; Fengtang Yang; Robert Baker</p>	<p>Transposable element decay rates are correlated with genome size across vascular plants, but not rates of genome size evolution</p> <p>Anthony Baniaga</p>
<p>Evolution of CRAL-TRIO domain genes in <i>Heliconius melpomene</i></p> <p>Aide Macias-Muñoz*; Adriana Briscoe</p>	<p>Exploring the evolution of competition and the self-perception of status in humans using video games</p> <p>Michael Kasumovic; Tom Denson; Khandis Blake; Barnaby Dixon</p>	<p>Expression divergence underlies habitat shifts and speciation in silverside fishes</p> <p>Lily Hughes</p>	<p>Using iterative pseudoreferences to estimate phylogenies and infer evolutionary patterns in non-model and near-model systems</p> <p>Brice Sarver*; Sara Keeble; Matthew Dean; Jeff Good</p>
<p>Intestinal regeneration in the garden of eatin': Comparative genomic analysis of extreme intestinal regenerative growth in snakes paves a path for translational research in human systems</p> <p>Blair Perry; Audra Andrew; Daren Card; Stephen Secor; Todd Castoe</p>	<p>A neo-sex chromosome in the monarch butterfly</p> <p>Andrew Mongue; Christopher Hamm; James Walters</p>	<p>Localizing transcriptome model interactions in a drosophilid genome</p> <p>William Etges; Cassia de Oliveira; Subhash Rajpurohit; Allen Gibbs; Axel Wiberg</p>	<p>An Automated Workflow for Mitochondrial DNA Extraction and Analysis from High-throughput Sequencing Data</p> <p>Alisha Mechtley</p>

	Ballroom A	Ballroom B	Ballroom C
	ASN Spotlight: Evolution of species interactions 2	SSE Hamilton Award Symposium 3	Invasion
2:45 pm	Microbe-mediated host defence drives the evolution of reduced pathogen virulence  Suzanne Ford; Kayla King	Mutation, migration, standing variation: the where and how of convergent adaptation  Kristin Lee; Graham Coop	Leveraging species invasions to improve understanding of character evolution and diversification  Patricia Lu-Irving; Katrina Dlugosch
3:00 pm	Eco-evolutionary feedbacks promote fluctuating selection and long-term stability of species-rich antagonistic networks Cecilia Andreazzi; P.R. Guimarães Jr.; C. Melián Hermaphrodite-biased oviposition on a gynodioecious host plant in a novel nursery pollination interaction Laura Doubleday; Lynn Adler Mimics without models: the importance of being spatial Flavia Maria Darcie Marquitti; P.R. Guimaraes Jr; F.C. Santos; J.M. Pacheco	Drug treatment without the evolution of drug resistance  Nina Wale; Derek Sim; Matthew Jones; Troy Day; Andrew Read	The copepod microbiome during independent habitat invasions  Martin Bontrager; Carol Eunmi Lee; Jane Remfert; Joana Carneiro da Silva
3:15 pm	Ecological genomics and ecosystem impacts of mutualism decline  Katy Heath; Dylan Weese; Wendy Yang; Jennifer Lau	Post-K/Pg Extinction Lilliput Effect May Influence Avian Molecular Clocks  Jacob Berv; Daniel Field	Genetic diversity in an asexual invader  Jennifer Madrid Thorson
3:30 pm	Variation in plant and fungal traits indicate mycorrhizal mediated selection in <i>Pinus radiata</i> Megan Rúa; Jason Hoeksema Mutualism breakdown and ecological opportunity in a plant-insect interaction David Hembry; N. Whiteman; K. Dlugosch The maintenance of host-associated differentiation in a vector-borne parasitic plant Kelsey Yule; Judith Bronstein	Understanding the impact of directional selection on the evolution of human quantitative traits  Jeremy Berg; Graham Coop	The cytochrome P450 superfamily in an invasive copepod  Alexandra Mechler-Hickson; Carol Eunmi Lee
3:45 pm	Triangulating the genetic basis of host-parasite coevolution through genetic mapping, population genomics, and transcriptomics  Daniel Bolnick; Jesse Weber; Brian Lohman; Natalie Steinell; Will Shim	Ticket to Ride: The microbiome as a passenger and driver of host evolution in a social, wood-feeding beetle  Alex Waldrop; Andrew Eckert; Maria Rivera	Variability and plasticity in invasive and native shrubs in southeast Michigan  Jeffrey Lake*; Matthew Konieczki; Olivia Herrera; Robert Asphall; Derek Gavelis
<b>ASN Student-Mentor Mixer   4:00 – 4:45 pm, Rotunda (level 1)</b> <b>ASN awards announcements &amp; Presidential Address – Mark McPeck   4:45 – 5:45 pm, Ballroom ABC</b> <b>ASN General Business Meeting   5:45 – 6:45 pm, MR3</b> <b>Poster session #1   5:45 – 7:45 pm, EH1</b>			

MR3	MR4	MR5	MR6A
Phylogenomics 2	Macroevolution 2	Phylogenetic methods development 2	Macroevolution / diversification 2
Phylogenomics of an ancient rapid radiation of misfit fishes (Syngnathiformes)  Sarah Longo	Dental morphology predicts diet across marsupials and placentals  Silvia Pineda-Munoz; John Alroy; Ignacio A. Lazagabaster; Alistair R. Evans	To include or not to include: The impact of missing data on summary methods for species tree estimation  Erin Molloy; Tandy Warnow	Cancelled
Phylogenetics and floral symmetry evolution of the core Goodeniaceae  Rachel Jabaily; Andy Gardner; Kelly Shepherd; Emily Sessa; Dianella Howarth	Eating away the fish tree of life: the phylogenetic distribution of human exploitation  Jonathan Chang; Kaustuv Roy; Julia Baum; Peter Cowman; Matt Friedman; Lauren Sallan; John Clarke; Michael Alfaro	Fast and accurate inference of phylogenetic networks using large-scale genomic sequence data  Hussein Hejase; <b>Kevin Liu</b>	Primate diversification dynamics in deep time: Inferences from fossils vs. extant phylogenies  James Herrera
Anchored phylogenomics recovers a robust phylogeny of Erebininae (Lepidoptera, Noctuoidea, Erebidae)  Nicholas Homziak; Jesse Breinholt; Akito Kawahara	Untangling trait correlations at intra-individual and macroevolutionary scales: insights from seasonal shifts in leaf traits across the dogwoods (Cornus)  Chase Mason; M. LaScaleia; J. Monroe; E. Goolsby	Assessing support and conflict in trees and networks  Klaus Schliep*	A general multiprocess diversification model for phylogenies and fossils  Daniel Rabosky*; Jonathan Mitchell
Resolution of New World Myotis using phylogenomic methods produces novel topologies  Roy Platt*; Brant Faircloth; Kevin Sullivan; Travis Glenn; Troy Kieran; Richard Stevens; Robert Baker; David Ray	Macroevolution of pyrrolizidine alkaloids in Apocynaceae: a case of defense de-escalation?  Tatyana Livshultz*; Elisabeth Kaltenecker; Dietrich Ober	Can differences in model fit explain conflicting estimates of the Squamate tree of life?  Genevieve Mount; Jeremy Brown	Adaptive radiation and ecomorphological convergence in Caribbean Eleutherodactylus frogs  Alejandro Gonzalez Voyer; Alvaro Dugo Cota; Carles Vilà
Cancelled.	Post-turnover diversification of an Australian adaptive reptile radiation  Ian Brennan; Paul Oliver	Cancelled	Determinants of regional species diversity in Australian squamates  Pascal Title; Daniel Rabosky

ASN Student-Mentor Mixer | 4:00 – 4:45 pm, Rotunda (level 1)

ASN awards announcements & Presidential Address – Mark McPeck | 4:45 – 5:45 pm, Ballroom ABC

ASN General Business Meeting | 5:45 – 6:45 pm, MR3

Poster session #1 | 5:45 – 7:45 pm, EH1



**Saturday, June 18 | 2:45 – 4:00 pm**

(\* indicates session chair)

	<b>MR6B</b>	<b>MR7</b>	<b>MR8</b>	<b>MR9AB</b>
	<b>Population genetics theory/methods 2</b>	<b>Education / outreach</b>	<b>Reproductive isolation 4</b>	<b>Adaptation / geographic variation</b>
<b>2:45 pm</b>	Using pedigrees and genomics to understand the consequences of limited and sex-biased dispersal  Graham Coop*; Stepfanie Aguillon; John Fitzpatrick; Reed Bowman; Stephan Schoech; Andrew Clark; Nancy Chen	Active learning promotes diversity in undergraduate science  Cissy Ballen*	A role for disrupted gene regulation in speciation in house mice  Katya Mack; Polly Campbell; Michael Nachman	Cancelled
<b>3:00 pm</b>	The facultative sex coalescent with recombination and gene conversion  Matthew Hartfield; Stephen Wright; Aneil Agrawal	A multifactorial analysis of the acceptance of evolution in college students  Ryan Dunk; Benjamin Campbell; Andrew Petto	Patterns of reproductive isolation are not consistent across cytotypes within a polyploid complex  Brittany Sutherland*; Laura Galloway	Heterochrony and geographic scale in climatic adaptation by the bushy-tailed woodrat ( <i>Neotoma cinerea</i> )  Angela Hornsby
<b>3:15 pm</b>	Selection and polymorphism at two loci  Hamish Spencer	Making ideas sing: engaging students by singing the science  Richard Heineman	The molecular substrates of species discrimination: Vomeronasal transcriptomes of female mice  Polly Campbell; Matthew B. Couger	How a fish lost its worm: tapeworm prevalence in threespine stickleback linked to heritable immune variation and parasite growth  Jesse Weber*; Daniel Bolnick; Natalie Steinel; Will Shim
<b>3:30 pm</b>	Developing models for genotype uncertainty, inbreeding, and allelic inheritance in non-model polyploids  Paul Blischak; Kubatko Laura; Andrea Wolfe	The non-uniform cytochrome C molecular clock and creationism  James Hofmann	Are hybrids fully fertile? Insights from the chromosomal hybrid zones of the Eurasian common shrew <i>Sorex araneus</i>  Svetlana Pavlova; Nikolay Shchipanov	Genetic divergence predicts the degree of physiological divergence in salt marsh Savannah Sparrows  Phred Benham; Zachary Cheviron
<b>3:45 pm</b>	The evolution of serially inverted chromosomes  Spencer Koury	To MATE or not to MATE: Evaluating Measures of Acceptance of Evolution  Cory Kohn; Louise Mead	Prezygotic isolation, mating preferences, and the evolution of chromosomal inversions  Andrius Jonas Dagilis; Mark Kirkpatrick	Phenotypic variation in native and invasive Sahara mustard  Brian Alfaro

**ASN Student-Mentor Mixer | 4:00 – 4:45 pm, Rotunda (level 1)**

**ASN awards announcements & Presidential Address – Mark McPeck | 4:45 – 5:45 pm, Ballroom ABC**


**ASN General Business Meeting | 5:45 – 6:45 pm, MR3**

**Poster session #1 | 5:45 – 7:45 pm, EH1**

MR9C	MR10A	MR10B	MR10C
Expression studies / plants	Sensory systems 1	Speciation 3	Genomics / hybridization
<p>Transcriptome analysis to identify the cause of Yellow Canopy Syndrome in sugarcane</p> <p>Kate Hertweck*; Frikkie Botha; Gerard Scalia; Annelie Marquardt; Rosa Shafiei; Kate Wathen-Dunn</p>	<p>Rapid Evolution, Sexual Dimorphism, and Physiology of Color Visual Systems in Heliconius Butterflies</p> <p>Kyle McCulloch; Adriana Briscoe</p>	<p>Speciation and morphological diversification of mimetic Swallowtail butterflies in the biogeographically complex Indo-Australian Region</p> <p>Jahnvi Joshi; <b>Krushnamegh Kunte*</b></p>	<p>Plumage genes and little else distinguish the genomes of hybridizing golden-winged and blue-winged warblers</p> <p>David Toews*; Scott Taylor; Alan Brelsford; Rachel Vallender; Bronwyn Butcher; Philipp Messer; Irby Lovette</p>
<p>Genomic abundance predicts transcriptional activity of Ty3/Gypsy retrotransposons in sunflower species</p> <p>Fan Qiu; Mark Ungerer</p>	<p>Sexual dimorphism in UV color vision in Heliconius doris</p> <p>Jennifer Briner; Adriana Briscoe</p>	<p>Allopatry and linked selection drive the speciation of <i>Silene nutans</i> lineages</p> <p>Helene Martin; Fabienne Van Rossum; Xavier Vekemans; Jean-François Arnaud; Camille Roux; Touzet Pascal</p>	<p>De novo assembly of a male sex chromosome in a wild vertebrate yields evolutionary and functional insights</p> <p>John Blazier; Molly Schumer; Rongfeng Cui; Peter Andolfatto; Gil Rosenthal</p>
<p>Ancestrally high expression predisposes genes for a function in the C4 biochemistry</p> <p>Jose J Moreno-Villena; Pascal-Antoine Christin</p>	<p>Omnidirectional Crypsis and Socially Modulated signaling: Evidence for polarization communication and crypsis in fish</p> <p>Molly Cummings*; Gina Calabrese; Parrish Brady</p>	<p>Speciation and phenological adaption in action: the transcriptomics of differential diapause regulation in Rhagoletis</p> <p>Thomas Powell; Eddy Dowle; Qinwen Xia; Greg Ragland; Dan Hahn</p>	<p>Introgression and reinforcement in Texas wildflowers</p> <p>Federico Roda; Fabio Mendes; Matthew Hahn; Robin Hopkins</p>
<p>Triplication, domestication and diversification of Brassica rapa</p> <p>xinshuai qi; Hong An; Tara Hall; Chris Pires; Michael Barker</p>	<p>Phylogenomics reveals an ancient metazoan sensory toolkit and a more recent chemosensitivity paradigm shift in the ancestor of protostomes</p> <p>David Plachetzki</p>	<p>Population differentiation and evolution of chemosensory receptors in sibling species of orchid bees</p> <p>Philipp Brand; Thomas Eltz; Santiago Ramirez</p>	<p>What can the genomic composition of the <i>Helianthus</i> hybrids tell us about hybrid speciation?</p> <p>Gregory Owens; Loren Rieseberg</p>
<p>Quantifying expression level divergence following autopolyploidy in Tolmiea (Saxifragaceae)</p> <p>Clayton Visger; Gane Wong; Pamela Soltis; Douglas Soltis</p>	<p>On the reducible complexity of the <i>Daphnia</i> eye</p> <p>Jeff Dudycha</p>	<p>Genomic evidence for diversification and speciation within a geographic mosaic of coevolution</p> <p>Thomas Parchman; Alex Buerkle; Victor Soria-Carrasco; Craig Benkman</p>	<p>A peculiar case of hybridization with advantageous mtDNA introgression and lack of nuclear introgression in Caribbean anoles</p> <p>Tereza Jezkova; Todd Castoe; Manuel Leal; Daren Card; Drew Schield; David Elzinga; Javier Rodríguez-Robles</p>
<p><b>ASN Student-Mentor Mixer   4:00 – 4:45 pm, Rotunda (level 1)</b></p> <p><b>ASN awards announcements &amp; Presidential Address – Mark McPeck   4:45 – 5:45 pm, Ballroom ABC</b></p> <p><b>ASN General Business Meeting   5:45 – 6:45 pm, MR3</b></p> <p><b>Poster session #1   5:45 – 7:45 pm, EH1</b></p>			

Sunday, June 19 | 8:15/8:30 – 9:45 am

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	<b>SSE Symposium: How and why? Towards an evolutionary physiological synthesis 1</b>	<b>Adaptation / plants</b>	<b>SSB Symp.: Putting evol. into ecol. niche modeling: Building the connection between phylogenies, paleobiology &amp; spp. distribution models 1</b>
<b>8:15</b>			phyloSDM: Bayesian hierarchical model for joint estimation of ecological niche models and niche evolution
<b>8:30 am</b>	What is evolutionary physiology?  Christopher Muir	Local adaptation and fitness trade-offs in a California wildflower  Emily Dittmar; Douglas Schemske	Nicholas Matzke
<b>8:45 am</b>	Natural variation in a signaling protein drives a physiological trade-off between resource use efficiency and competitive ability  Dave DesMarais; Thomas Juenger; Brandon Campitelli	Urbanization drives parallel adaptive clines in plant populations  Ken Thompson*; Marc Johnson	Incorporating evolutionary information into niche and distribution models: learning to love terrible SDMs  Dan Warren
<b>9:00 am</b>	Acclimation and adaptation of energy metabolism in Lake Whitefish  Anne Dalziel; Martin Laporte; Helga Guderley; Louis Bernatchez	Mechanisms, evolution and ecology of drought tolerance: analyses within a diverse and keystone lineage, Ceanothus (Rhamnaceae)  Leila Fletcher; Hongxia Cui; Hilary Callahan; Christine Scoffoni; Grace John; Megan Bartlett; Dylan Burge; Lawren Sack	A Tale Of Two Sisters: Ecological & Evolutionary Divergence In Geminate Species Pairs  Erin Saupe; Peter Cowman
<b>9:15 am</b>	Physiology, thermal niche, and predicted local adaptation in a short- lived annual  Joe Hereford	Polyploidy and drought-associated phenotypes in Brachypodium distachyon along the aridity gradient in Israel  Shira Penner; Yuval Sapir; Itay Mayrose; Yamit Bar-Lev	The fossil record and projecting species distribution models through time  Kaitlin Clare Maguire; Jessica Blois; Diego Nieto-Lugilde; Jack Williams; Matthew Fitzpatrick
<b>9:30 am</b>	What field experiments can (and cannot) tell us about the proximate and ultimate basis of life-history tradeoffs: a case study in Anolis lizards  Robert Cox	Adaptative divergence in a biotic context: role of plant-rhizosphere interactions and climate in phenotypic divergence of teosinte  Anna O'Brien; Sharon Strauss; Jeffrey Ross-Ibarra; Ruairidh Sawers	Evolution and epigenetics: unraveling error in niche models  Jenny McGuire; Edward Byrd Davis
<div> <div>Morning coffee break   9:45 – 10:15 am</div> <div>Sponsor:</div> <div>  </div> </div>			

MR3	MR4	MR5	MR6A
Phylogenomics 3	Macroevolution 3	Phylogenetic methods development 3	Biogeography / diversification
An evolutionary timescale for the diversification of ray-finned fishes  Michael Alfaro*; J. Chang; P. Cowman; M. Friedman; L. Sallan; J. Clarke; D. Rabosky; T. Near	Spontaneous evolution of cooperation in a nascent multicellular organism  Jordan Gulli; Will Ratcliff	Inference expands morphological data: filling in the “unknown knowns”  Paula Mabee*; Alex Dececchi; Hilmar Lapp; James Balhoff	Cerrado and Atlantic Forest Eupatorieae (Asteraceae): divergence times, diversification rates and biogeographic history  Vanessa Rivera*; Jose Panero
Species delimitation in <i>Canarium</i> (Burseraceae), a cryptic tropical clade: integrating genomics, morphology, and biogeography  Sarah Federman; Deren Eaton; Douglas C Daly; Michael Donoghue	Evolution of niche and ecomorphological traits in a phylogenetic context in lizards of the <i>Liolaemus bibroni</i> complex (Squamata: Liolaemini)  Danielle Edwards*	New methods for constructing the supertree of life  Benjamin Redelings; Mark Holder	An island called India: Phylogenetic and diversification studies in the endemic <i>Hemidactylus</i> geckos of India reveals an adaptive radiation  Praveen Karanth; Aparna Lajmi; Anjali Verma
Functional and spatial heterogeneity of gene family evolution in non-model species: three strategies using the plant group Caryophyllales as an example  Ya Yang; Michael J. Moore; Samuel F. Brockington; Stephen Smith	Inferring paleopolyploidy in the Mollusca  Jesse Czekanski-Moir; Michael Barker; Zheng Li; Rebecca Rundell; Chris Reardon	Community curation of the tree of life  Karen Cranston	Ecological, evolutionary, and human-mediated determinants of Poeciliid species richness on Caribbean islands  Andrew Furness; David Reznick; John Avise
Assessing genealogical discordance in <i>Adansonia</i> (Malvaceae) by targeted-sequence capture  Nisa Karimi; Noah Stenz; Corrinne Grover; Joseph Gallagher; Jonathan Wendel; <b>David Baum</b>	Molecular functional evolution of RNA interference across animals and plants  Bryan Kolaczowski	Gene tree reconciliation using MUL-trees resolves polyploidy events  Gregg Thomas; S. Hussain Ather; Matthew Hahn	Phylogeny and Biogeography of Coral Reef Fishes Using All Species Trees  Mark Westneat
Dissecting broad introgression using exon capture data in Rainbow skinks across the Kimberley (Australia)  Ana Silva; Mozes Blom; Sally Potter; Craig Moritz	A macroevolutionary analysis of the Pace of Life Syndrome in killifishes  Björn Rogell; Will Sowersby; Simon Eckerström; Alejandro Gonzalez Voyer	Estimating lineage dependent speciation and extinction rates from a phylogeny using a multi-states birth-death model  Joelle Barido-Sottani	The repeated colonization of new biogeographic regions promotes lineage diversification among the Corvids (Aves: Passeriformes)  Jonathan Kennedy; Knud Jønsson; Michael Borregaard; Ben Holt; Jon Fjeldså; Carsten Rahbek
Morning coffee break   9:45 – 10:15 am		Sponsor: 	

	MR6B	MR7	MR8	MR9AB
	Population genetics: inference of selection 1	Social systems 1	Reproductive isolation 5	Adaptation / experimental evolution
8:30 am	Is haplotype information required in selection scans?  Daniel Gómez Sánchez; Viola Nolte; Christian Schlötterer	First evidence of winner-loser effects in a eusocial species  Alok Bang; Raghavendra Gadagkar	Diverged female preferences and male aggression patterns are not sufficient to drive behavioral isolation  Yusan Yang; Corinne Richards-Zawacki	Protein destabilization as a mechanism of evolutionary innovation  Katherine Petrie; Justin Meyer
8:45 am	Measuring natural selection at the gene sequence level in natural populations  John Kelly	Native unicolonial ants show no between-colony aggression across 1000 km, despite genetic and CHC differentiation  Jonathan Brown*; Rebecca Rasmussen; Edward Hsieh; Margaret Mamantov; Leslie Lyons	Wolbachia in the <i>Drosophila yakuba</i> complex: frequency variation in space and time with cytoplasmic incompatibility modulated by intraspecific covariation  Brandon S. Cooper*; Paul Ginsberg; Michael Turelli; Daniel Matute	Host-selected mutations converge on a global regulator to drive an adaptive leap to bacterial symbiosis  Sabrina Pankey*
9:00 am	Population genomic signatures of selection in a single <i>Capsella grandiflora</i> population  Corlett Wood*; John Stinchcombe; Stephen Wright	Performance determines division of labor in leaf-cutting ants  Mateo Garcia; Flavio Roces; Martin Bollazzi	Cascade reinforcement in the fly <i>Drosophila subquinaria</i>  Kelly Dyer	The evolutionary consequences of pleiotropy in bacteriophages under thermal stress  Andrew Sackman; Darin Rokyta
9:15 am	Genomic variation in industrial hemp and drug-type <i>Cannabis sativa</i>  Brian Campbell; John McKay	Sexual selection in social networks depends on population size  Vincent Formica; Butch Brodie	Intraspecific coevolution of male genitalia and female sensory structures might strengthen reproductive isolation between sympatric damselfly species  Alexandra Barnard; Mark McPeck; Ola Fincke; J.P. Masly	Rate of environmental turnover affects adaptive dynamics in RNA virus populations  Valerie Morley; Paul Turner
9:30 am	Identifying differentiation of populations of the clam shrimp <i>Eulimnadia texana</i> through genome assembly and pooled population sequencing  James Baldwin-Brown; Anthony Long; Stephen Weeks	The evolution of cooperation between unrelated individuals  Sarah Fumagalli; Sean Rice	Variation in outcomes of interactions among hybridizing <i>Catostomus</i> fishes  Elizabeth Mandeville; Thomas Parchman; Alex Buerkle	Pleiotropy and epistasis between high-heat and low-pH mutations in a bacteriophage  Carl Whittington; Darin Rokyta

MR9C	MR10A	MR10B	MR10C
Expression studies / adaptation	Sensory systems & signals	Mutualism 1	Speciation / genomics 1
Local adaptation to fluctuating and extreme temperatures and gene regulation in <i>Tigriopus californicus</i>  Christopher Willett; Thiago Lima	Divergence of the dim light opsin gene in Neotropical cichlids reflects macroevolutionary transitions  Frances Hauser; Ryan Schott; Belinda Chang	Conserved gut microbiota in a herbivorous beetle mediates the degradation of host plant defences  Aileen Berasategui; Hassan Salem; Axel Schmidt; Jonathan Gershenzon; Martin Kaltenpoth	Multispecies outcomes of sympatric speciation after admixture with the source population in two radiations of Nicaraguan crater lake cichlids  Andreas Kautt; Gonzalo Machado-Schiaffino; Axel Meyer
Nested gene duplication and nested electric organ evolution in South American electric fish  Ammon Thompson; Harold Zakon	Functional evolution in the cetacean dim-light visual pigment  Sarah Dungan; Belinda Chang	Adaptation to chronic malnutrition: Is there room for microbiota?  Berra Erkosar Combe	Combining RADseq and Allele Frequency Spectrum towards inferring the demographic history of lake whitefish species-pairs  Clément Rougeux; Louis Bernatchez; Pierre-Alexandre Gagnaire
Parallelism in gene expression underlying parallel phenotypic adaptive divergence  Dieta Hanson; Andrew Hendry; Rowan Barrett	Concordance between optical environment and male nuptial color leads to conflicting patterns of male conspicuousness  Chad Brock*	Carnivorous caterpillars: diet, gut microbiota, and ant-association among Lycaenid butterflies  melissa whitaker	Isolation by depth in corals: contrasting brooders vs. broadcast spawners  Pim Bongaerts; <b>Cynthia Riginos</b>
Polar Vortex cold wave elicits rapid physiological, regulatory and genetic shifts in populations of the green anole, <i>Anolis carolinensis</i>  Shane Campbell Staton; Zachary Cheviron; Jonathan Losos; Scott V. Edwards	Chemoreceptor gene family evolution in the phytophagous hymenopteran <i>Neodiprion lecontei</i>  Kim Vertacnik; Catherine Linnen	Endosymbiont encapsulation and metabolic integration sans intracellular localization  Hassan Salem*; Eugen Bauer; Aileen Berasategui; Takema Fukatsu; Martin Kaltenpoth	Fine scale genomic mapping of introgressions within the <i>Drosophila yakuba</i> clade  David Turissini; Daniel Matute
Genetic basis of butterfly eyespot determination  Linlin Zhang*	Pheromonal mechanisms of reproductive isolation in <i>Xiphophorus</i> : opening the black box of male signaling  Chris Holland; Gil Rosenthal	A symbiont-mediated shift in the ecology of host-parasite interactions  John Jaenike; Vincent Martinson; Tamara Haselkorn	Sex chromosomes, speciation and the sensitivity of spermatogenesis  Erica Larson*; Jeff Good



Sunday, June 19 | 10:15 – 11:30/11:45 am

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	SSE Symposium: How and why? Towards an evolutionary physiological synthesis 2	Floral 1	SSB Symposium: Putting evol. into ecol. niche modeling: Building the connection between phylogenies, paleobiology & spp. distribution models 2
10:15 am	Evidence for and against evolution of a whole plant economic spectrum in wild <i>Helianthus</i>  Lisa Donovan; Chase Mason; Alan Bowsher; Alex Pilote	Rethinking flower evolution in irises: are pollinators the agents of selection?  Yuval Sapir; Mahua Ghara; Yamit Bar-Lev; Omer Bar	Extending spatial modelling of climate change responses beyond the realized niche: estimating, and accommodating, physiological limits and adaptive evolution  Renee Catullo; Simon Ferrier; Ary Hoffmann
10:30 am	Selection drives metabolic allometry  Craig White; Daniel Ortiz- Barrientos; Dustin Marshall	Gene regulation associated with anther color polymorphism in <i>Erythronium umbilicatum</i> (Liliaceae)  Rong-Chien Lin; Mark Rausher	Environmental Niche Trackers and Nice Adapters Revealed Through Fine Scale Phenological Niche Modeling  Matthew Van Dam; Andrew J. Rominger; Michael S. Brewer
10:45 am	A phylogenetic perspective reveals extreme evolutionary lability along the C3-CAM continuum in Calandrinia (Montiaceae)  Lillian Hancock; Joseph Holtum; Abigail Moore; Erika Edwards	Variation, heritability, & correlated selection in Phlox petal number  James Mickley; Carl Schlichting	Distribution models below species level  Dan Rosauer
11:00 am	The physiology of adaptive radiation  Alex Gunderson; Manuel Leal; Luke Mahler	The evolution of flower perfume: direct and pleiotropic effects of artificial selection in <i>Brassica rapa</i>  Pengjuan Zu*; Florian Schiestl; Wolf Blanckenhorn	Protecting evolutionary history into the future  Laura Pollock
11:15 am	Linking physiology to biogeography in monkeyflowers  Amy Angert	Local adaptation: mechanical fit between floral ecotypes of <i>Nerine humilis</i> (Amaryllidaceae) and pollinator communities  Ethan Newman; John Manning; Bruce Anderson	Panel discussion and further questions with all symposium presenters  <b>11:15 - 11:45 am</b>
Lunch   11:30 am – 1:00 pm Taylor & Francis Workshop: Publishing in Academic Journals   MR7			

MR3	MR4	MR5	MR6A
Phylogenomics 4	Macroevolution 4	Phylogenetic theory	Biogeography 1
<p>Phylogenomics of amphibia and the nature of support and signal in big data sets</p> <p>Paul Hime; A. Lemmon; E. Lemmon; E. Prendini; J. Brown; R. Thomson; B. Noonan; A. Pyron; P. Peloso; M. Kortyna ; J. Kratovil et al.</p>	<p>Exploring the importance of the evolutionary ratchet in burrowing mammals</p> <p>Samantha Hopkins; Samantha Price</p>	<p>Inappropriate parameterization of fossilized birth-death models causes incorrect estimation of topology and node ages</p> <p>April Wright*; Tracy Heath</p>	<p>Evidence of recent selective sweeps and balancing selection underlining climate-correlated genetic variation in locally adapted populations of <i>Arabidopsis thaliana</i></p> <p>Nicholas Price</p>
<p>Phylogenomics of the Pulmonate Land Snails</p> <p>Luisa Teasdale; Andrew Hugall; Frank Koehler; Dai Herbert; Tim O'Hara; Adnan Moussalli</p>	<p>Constraints on secondary sympatry in bats (Order: Chiroptera)</p> <p>Jeff Shi; Daniel Rabosky</p>	<p>Displayed trees do not determine distinguishability under the network multispecies coalescent</p> <p>James Degnan; Sha Zhu</p>	<p>Looking for clines in clades: An example from Cassidinae beetles</p> <p>Marianna Simoes</p>
<p>Phylogenomics of the Ranunculales with resolution of the Papaveraceae</p> <p>Amanda Lane</p>	<p>Diversification and rapid phenotypic evolution decoupled in Neogene equids</p> <p>Juan L. Cantalapiedra; Jose Luis Prado; Manuel Hernández Fernández; M<sup>a</sup> Teresa Alberdi</p>	<p>Climbing peaks and crossing valleys: Metropolis coupling and rugged phylogenetic distributions</p> <p>Jeremy Brown; Robert Thomson</p>	<p>Does species niche breadth predict plant performance in novel environments? An experimental test in Australian Alps plants</p> <p>Jason Sexton*</p>
<p>Species delimitation of a Cerrado endemic lizard: using Next- Generation Sequencing, ecology, and morphology to test diversification hypotheses</p> <p>Fabricius Domingos*; Guarino Colli; Alan Lemmon; Emily Lemmon; Luciano Beheregaray</p>	<p>The reconstructed ancestral flower and its subsequent diversification</p> <p>Herve Sauquet*; M. von Balthazar; S. Magallon; J.A. Doyle; P.K. Endress; E. Bailes; E. Barroso de Moraes; K. Bull-Herenu; L. Carrive; M. Chartier; G. Chomicki et al.</p>	<p>Is it time for a new look at quartet-based invariant methods for phylogenetic inference?</p> <p>David Swofford</p>	<p>Does behavior shape biogeography? A test of whether behaviorally subordinate species shift away from the ancestral climate niche</p> <p>Eliot Miller; Benjamin Freeman; Wesley Hochachka; Luke Harmon</p>
<p>Green Blood: Investigating the evolutionary history of a unique trait in New Guinea lizards</p> <p>Zachary Rodriguez</p>	<p>Cancelled</p>	<p>Split Scores on Phylogenetic Trees and Applications</p> <p>Elizabeth Allman; John Rhodes; Kubatko Laura</p>	<p>Big brains stabilize populations and facilitate colonization of harsher climates in birds</p> <p>Trevor Fristoe; Andrew Iwaniuk; Carlos Botero</p>

Lunch | 11:30 am – 1:00 pm

Taylor & Francis Workshop: Publishing in Academic Journals | MR7

	MR6B	MR7	MR8	MR9AB
	Population genetics: inference of selection 2	Social systems 2	Speciation & adaptation / modeling	Adaptation / diversification
10:15 am	Genomic patterns of selection through time in a wild pedigreed population  Nancy Chen*; Elissa Cosgrove; Huijie Feng; Ishaan Jhaveri; Ashish Akshat; Reed Bowman; John Fitzpatrick; Andrew Clark	Wild social amoebae change gene expression in response to chimerism during the social cycle in order to compete  Suegene Noh	Haldane's rule as a consequence of the bioenergetics of binding in a regulatory transcription factor network  Norman Johnson*; Adam Porter	Diversification of complex social phenotypes: insights from the turtle ants  Scott Powell
10:30 am	A second coming of sechellia: parallel adaptation to a toxic fruit in <i>Drosophila yakuba</i>  Amir Yassin; Vincent Debat; Heloise Bastide; Nelly Gidaszewski; Jean David; <b>John Pool</b>	Genomic signature of kin selection in an ant with obligately sterile workers  Michael Warner; Alexander Mikheyev; <b>Tim Linksvayer*</b>	Multi trait divergence in early adaptive radiation  Xavier Thibert-Plante; Per-Arne Amundsen; Kimmo Kahilainen; Kim Praebel; Kjartan Østbye; Sergey Gavrillets	Mechanisms of Adaptation in Reef-Building Corals  Groves Dixon; Mikhail Matz
10:45 am	Missing variation uncovered using deep sequencing of a population of <i>D. simulans</i>  Sarah Signor; Felicia New; Lauren McIntyre; Sergey Nuzhdin	Gene duplication in the evolution of sex- and caste-biased gene expression in social insects  Linh Chau; Michael Goodisman	The evolution of imprinting through reinforcement  Justin Yeh; Maria Servedio; Janette Boughman; Glenn-Peter Sætre	The Evolution of Insect Immunity in a Changing Climate  Kenneth Fedorka
11:00 am	Detecting Selection in a Polymorphic Bumble Bee using ddRAD and RNAseq Data  Jason Jackson	Debunking the mating hierarchy: population composition and macrocyst production in <i>Dictyostelium discoideum</i>  Tracy Douglas; Joan Strassmann; David Queller	Mate-choice mechanisms and the dynamics of reproductive isolation: a simulation study  Dan Powell; Gil Rosenthal	Increase in outdoor host-seeking behavior of <i>Anopheles gambiae</i> s.l. over 6 years of vector control on Bioko Island  Jacob Meyers*; Sharmila Pathikonda; Zach Popkin-Hall; Matthew Medeiros; Godwin Fuseini; Abrahan Matias; Guillermo Garcia; Hans Overgaard; Vani Kulkarni; Vamsi Reddy; Christopher Schwabe et al.
11:15 am	Multivariate outliers improve the signal-to-noise ratio in genome scans  Kathleen Lotterhos; Daren Card; Caitlin Collins; Liuyang Wang; Sara Schaal; Robert Verity	Cancelled	Fitness-valley crossing in subdivided asexual populations  Michael McLaren	An inordinate fondness for rove beetles: evolution and diversification of ant social parasites  Joseph Parker

Lunch | 11:30 am – 1:00 pm

Taylor & Francis Workshop: Publishing in Academic Journals | MR7


MR9C	MR10A	MR10B	MR10C
Molecular ecology 1	Sexual selection / behavior 1	Mutualism 2	Speciation / genomics 2
<p>Broad-scale mechanisms generating intraspecific immune gene variation across a latitudinal gradient</p> <p>Margaret Haines; Rachael Giglio; Emily Latch</p>	<p>Courtship experience and success affect male behavioral, morphological, and extended phenotypes</p> <p>Emily Weigel</p>	<p>Assessing the microbiome of two closely related giant salamanders: bacterial community structure reveals important considerations related to amphibian conservation</p> <p>Obed Hernandez-Gomez; Jeffrey Briggler; Rod Williams</p>	<p>The importance of mito-nuclear versus nuclear-nuclear hybrid incompatibilities in a species without sex chromosomes</p> <p>Thiago Lima; Ron Burton; Ricardo Pereira</p>
<p>Supergenes and adaptive divergence in Atlantic cod (<i>Gadus morhua</i>) within the Gulf of Maine</p> <p>Bryan Barney; Stephen Palumbi</p>	<p>Alternative ejaculation tactics and fertilization success in the yellow dung fly</p> <p>Brian Gress; Scott Pitnick</p>	<p>Algal symbiont mediates maintenance of an egg mass polymorphism in the spotted salamander, <i>Ambystoma maculatum</i></p> <p>Rebecca Hale*; Elsea Brown; Danielle Winkelman; Caroline Kennedy</p>	<p>Patterns of differentiation between house mouse subspecies at loci implicated in hybrid sterility: Do loci contributing to reproductive isolation show distinctive signatures in the genomic landscape?</p> <p>Leslie Turner*; Bettina Harr</p>
<p>Genetic variation in the ant social parasite <i>Solenopsis daguerrei</i> predicts host specificity at a micro-geographic scale</p> <p>Sean Ryan*; Elizabeth Wade; DeWayne Shoemaker; Andrew Bouwma; Luis Calcaterra</p>	<p>Behavioral traits as selective regimes: Bird behavior and female plumage evolution</p> <p>Jay McEntee; Zoe Zelazny; J. Gordon Burleigh</p>	<p>Systems biology and eco-evolutionary feedbacks in synthetic microbial communities</p> <p>William Harcombe</p>	<p>Speciation supergenes? Segregating Z chromosome recombination suppressors in European corn borer moths</p> <p>Genevieve Kozak; Brad Coates; Erik Do pman</p>
<p>Hidden genetic variation in the germline genome of <i>Tetrahymena thermophila</i></p> <p>Kristen Dimond; Rebecca Zufall</p>	<p>Testing hypotheses for the genetic architecture underlying song-preference covariance in <i>Laupala</i> crickets</p> <p>Mingzi Xu; Kevin Oh; Kerry Shaw</p>	<p>Specificity of multi-level species interactions: a mutualistic network of ants, aphids, mealybugs and their microbiomes</p> <p>Aniek Ivens; Daniel Kronauer; Toby Kiers</p>	<p>Divergent phenotypes despite (mostly) homogeneous genomes: insights from a continental avian radiation</p> <p>Leonardo Campagna; Márcio Repenning; Luís Fábio Silveira; Carla Suertegaray Fontana; Pablo Tubaro; Irby Lovette</p>
	<p>Male fruit flies make adaptive mate choices using redundant female cues</p> <p>Devin Arbuthnott*; Daniel Promislow</p>	<p>Will rhizobia evolve to be more cooperative mutualists as atmospheric CO<sub>2</sub> rises?</p> <p>Ellen Simms; Erol Akcay</p>	<p>The genetic and physiological mechanisms of plant ecotype evolution</p> <p>David Lowry; Billie Gould</p>

Lunch | 11:30 am – 1:00 pm

Taylor & Francis Workshop: Publishing in Academic Journals | MR7

Sunday, June 19 | 1:00 – 2:15 pm

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	SSE Spotlight: Understanding history & process in rapid diversification with genomic data 1	Floral 2	Experimental evolution 1
1:00 pm	Tracing the ecological and developmental origins of a replicated radiation in <i>Viburnum</i> using genomic RAD-seq data	Pollinator-mediated selection and quantitative genetics of floral divergence in <i>Ipomopsis aggregata</i>  Brandon Campitelli; Amanda Kenney; Elizabeth Milano; Jacob Soule; Robin Hopkins; Thomas Juenger	Comparative experimental evolution of antibiotic resistance in clinical strains of <i>Pseudomonas aeruginosa</i>  Anita Melnyk; Rees Kassen; Jeremy Dettman
1:15 pm	Deren Eaton; Elizabeth Spriggs; Erika Edwards; Michael Donoghue	Evolutionary consequences of pollinator declines: Floral trait evolution in <i>Lobelia siphilitica</i>  Kaitlyn Brown; Christina M. Caruso	Using invasion experiments to test for ecological interactions in experimental evolution  Michael Wiser*; Caroline Turner; Richard Lenski
1:30 pm	Adaptive radiation in a depauperate environment: The East African soda lake cichlids Antonia Ford; K. Dasmahapatra; L. Rüber; J. Day  Anchored phylogenomics resolves evolutionary relationships in the rapid radiation of <i>Protea</i> Nora Mitchell; P. Lewis; E. Lemmon; A. Lemmon; K. Holsinger  Analysis of Neotropical freshwater fish radiations using ultraconserved elements (UCEs) Fernando Alda; Caleb McMahan; Victor Tagliacollo; Maxwell Bernt; Brandon Waltz; William Ludt; James Albert; Prosanta Chakrabarty	The evolutionary consequences of cascading food web interactions: Do predators indirectly affect the strength of pollinator-mediated selection on floral traits?  Amanda Benoit; Christina Caruso	The historical contingency of mutation effects in <i>E. coli</i>  Kedar Karkare
1:45 pm	Phylogenomics of rapid radiation and adaptation in the Andes-Amazon  James Pease; C. Dick; D. Haak; M. Hahn; L. Moyle; M. Silman; S. Smith	Loss of floral pigmentation in <i>lochroma</i> through a novel MYB gene duplication  Daniel Gates; Bradley Olson; Stacey Smith	Plasmid/CRISPR-Cas conflict results in compromised adaptive immunity in <i>Enterococcus faecalis</i>  Valerie Price; Wenwen Huo; Ardan Sharifi; Kelli Palmer
2:00 pm	Phylogenies of rapid radiations can be exceptionally prone to bias: a cautionary tale from the army ants Marek Borowiec  2:05 pm  Rapid cis-regulatory evolution underlies racial divergence in the mimetic butterfly <i>Heliconius erato</i> James Lewis; Robert Reed	The mutualism to antagonism continuum in floral visitors: implications for selection on floral design in <i>Polemonium brandegeei</i>  Anne Worley*; Dawn Wood	Exploring how specialism arises within broad host-range viruses  Siobhan Watkins; Alex Kula; Kema Malki; Catherine Putonti
Afternoon coffee break   2:15 – 2:45 pm <span style="float: right;">Sponsor: </span>			

MR3	MR4	MR5	MR6A
Phylogenomics 5	Macroevolution 5	Phylogeography / hybridization	Biogeography 2
<p>Who Let the CAT Out of the Bag? Handling substitutional heterogeneity with computationally efficient data partitioning results in more accurate phylogenies</p> <p>Nathan Whelan*; Kenneth Halanach</p>	<p>Discrete and continuous morphological characters reveal different patterns and processes of macroevolution</p> <p>Nicolas Mongiardino Koch; F. Sara Ceccarelli; Andres A. Ojanguren-Affilastro; Martin J. Ramirez</p>	<p>Comparative landscape genetics and hybridization in two Australian freshwater rainbowfishes</p> <p>Andrew Mather; Cynthia Riginos</p>	<p>What limits the elevational ranges of tropical birds? A test of two little-studied mechanisms</p> <p>Daniel Cadena; David Ocampo; Paulo Pulgarín</p>
<p>Simulation of Species Tree Inference based on SNP data</p> <p>Sereina Rutschmann; David Posada; Sara Rocha</p>	<p>Rates of phenotypic evolution at multiple scales in clownfishes</p> <p>Nicolas Salamin*</p>	<p>Divergence and hybridization shape genomic diversity among three closely related water bird species (Aves; Plegadis)</p> <p>Jessica Oswald; M. Harvey; R. Remsen; D. Foxworth; D. Dittmann; S. Cardiff; R. Brumfield</p>	<p>Genome biogeography reveals the intraspecific spread of adaptive mutations for a complex trait</p> <p>Jill Olofsson; Matheus Bianconi; Luke Dunning; Colin Osborne; Patrik Nosil; Pascal-Antoine Christin</p>
<p>Big data and outlier loci: A cautionary tale with genome-scale phylogenetic data</p> <p>Lyndon Coghill; Jeremy Brown; Robert Thomson</p>	<p>Diatom evolution across the benthos-plankton and marine-freshwater divides</p> <p>Teofil Nakov; Elizabeth Ruck; Andrew Alverson</p>	<p>A decadal comparison of hybrid zone dynamics in the Plateau Fence Lizard (<i>Sceloporus tristichus</i>) in Arizona</p> <p>Adam Leache; Jared Grummer; Ian Breckheimer</p>	<p>Out of or into the tropics: Processes underlying biodiversity patterns in New World swallowtail butterflies</p> <p>Hannah Owens; Fabien Condamine; Anne-Laure Clamens; Julian Dupuis; Felix Sperling; Akito Kawahara; Robert Guralnick</p>
<p>Friend or foe: investigating the impacts of positive selection on multispecies coalescent inferences</p> <p>Richard Adams; Drew Schield; Daren Card; Todd Castoe</p>	<p>Estimating correlated rates of trait evolution from phylogenies with uncertainty</p> <p>Daniel Caetano; Luke Harmon</p>	<p>Divergence, gene flow, and the evolution of aposematic coloration in Phyllobates poison frogs</p> <p>Roberto Marquez*; Tyler Linderoth; Daniel Mejía-Vargas; Rasmus Nielsen; Marcus Kronforst; Adolfo Amézquita</p>	<p>Phylogeographic meta-analysis into global patterns of genetic variation</p> <p>Bryan Carstens*; Ariadna Morales; Tara Pelletier</p>
<p>An Investigation of Branch Lengths Using Ultraconserved Elements</p> <p>William Ludt; Jeremy Brown; Christopher Burridge; Prosanta Chakrabarty</p>	<p>Why are red flowers so rare? Testing the macroevolutionary causes of tippiness</p> <p>Julienne Ng; Stacey Smith</p>	<p>Phylogeography and historical hybridization in stickleback fishes</p> <p>Cui Wang</p>	<p>Population structure and migration assessed using 45 discordant gene regions in the Deep-Sea Limpet <i>Lepetodrilus aff. schrolli</i></p> <p>Abigail LaBella; Sophie Plouviez; Bernard Ball; Cindy Van Dover; Cliff Cunningham</p>
<p>Afternoon coffee break   2:15 – 2:45 pm</p>			
<p>Sponsor: </p>			



Sunday, June 19 | 1:00 – 2:15 pm

(\* indicates session chair)

	MR6B	MR8	MR9AB
	Population genetics: inference of selection 3	Speciation / adaptation	Adaptation / evolutionary ecology
1:00 pm	Using resurrection ecology to study impacts of environmental change on evolving populations of <i>Daphnia</i>  Lawrence Weider	Host-associated divergence in a sympatric population of the red-headed pine sawfly ( <i>Neodiprion lecontei</i> )  Robin Bagley; Catherine Linnen	Repair of UV-induced DNA damage in <i>Daphnia</i> from differing UV environments  Brooks Miner*
1:15 pm	The genomic landscape of rapid repeated adaptation to human-altered environments  Andrew Whitehead*; Noah Reid	Selection on oviposition traits generates reproductive isolation between two pine sawflies  Emily Bendall; Kim Vertacnik; Catherine Linnen	Genome-wide evidence of evolution and adaptation in the invasive Florida python population  Daren Card; Drew Schield; Richard Adams; Audra Andrew; Blair Perry; Frank Mazzotti; Margaret Hunter; Kristen Hart; Todd Castoe
1:30 pm	The genomic basis of environmental adaptation in house mice  Megan Phifer-Rixey; Ke Bi; Kathleen Ferris; Michael Sheehan; Dana Lin; Sara Keeble; Jeff Good; Michael Nachman	Exploring complex fitness landscapes supporting novel adaptive zones in Caribbean pupfishes: contributions from ecological opportunity, hybrid swarm, frequency-dependence, and genetic architecture  Christopher Martin	Consequences of 400 generations of thermal adaptation in a marine diatom and implications for rapid evolution in response to global change  Daniel O'Donnell; I. C. Hamman; E. Johnson; C.A. Klausmeier; E. Litchman
1:45 pm	Exposure to avian malaria drives evolution of disease-related genes in a Hawaiian honeycreeper  Loren Sackett	Ecological divergence and adaptation to coral host in a marine snail  Sara Simmonds*; Allison Fritts-Penniman; Samantha Cheng; Ngurah Mahardika; Paul Barber	Why do most mammals eat the placenta and why don't humans?  Jeff Arendt; Keenan Morrison; Andrew Furness; Juan Perea-Rodriguez; David Reznick
2:00 pm	Eco-evolutionary dynamics in a marine ecosystem engineer  David Aguirre; Wilma Blom; Todd Landers; Marti Anderson	Adaptation to both discovered and self-constructed niches during incipient speciation in an experimental population of <i>E. coli</i>  Zachary Blount; Richard Lenski; Kiyana Weatherspoon	Can corals adapt to simultaneous climate change-related stressors?  Rachel Wright; Mikhail Matz; Carly Kenkel; Line Bay

Afternoon coffee break | 2:15 – 2:45 pm

Sponsor:



MR9C	MR10A	MR10B	MR10C
Molecular ecology 2	Sexual selection / behavior 2	Mutualism 3	Molecular evolution / genomics 1
<p>Effect of phoretic dispersal on the structure of parasite populations</p> <p>Emily DiBlasi; Andrew Beach; Angela Hansen; Sarah Bush; Dale Clayton</p>	<p>Multivariate phenotypic selection on a complex sexual signal</p> <p>Jessie Tanner; Jessica Ward; Ruth Shaw; Mark Bee</p>	<p>The role of gene flow in shaping a Cnidarian-Dinoflagellate symbiosis on the Pacific coast</p> <p>Brendan Cornwell</p>	<p>Targeted hybrid enrichment of complete coding regions across divergent species</p> <p>Ryan Schott; Bhawandeep Panesar; Belinda Chang</p>
<p>Shared and unique mutations underly candidate mechanisms of evolutionary color shifts in <i>Aquilegia</i></p> <p>Nathan Derieg; Scott Hodges</p>	<p>The morphometric and phylogenetic basis of ornamentation in the livebearer genus <i>Poecilia</i></p> <p>Daniel Goldberg; Alex Landy; Joseph Travis; Mark Springer; David Reznick</p>	<p>Context-dependent vertical transmission structures the heritable symbiont communities of the pea aphid</p> <p>Jacob Russell; Danielle Rock; Andrew Smith; Jonah Joffe; Kerry Oliver</p>	<p>Insights into the evolution of DNA methylation and its role in social behaviour in insects</p> <p>Adam Bewick; Kevin Vogel</p>
<p>Reconstructing demographic history of gray whales using whole-genome sequences</p> <p>Anna Brüniche-Olsen; J. Andrew DeWoody; Nadia Fernandez; Jennifer Antonides; Jacqueline Doyle; Rick Westerman; Phillip San Miguel; John Bickham; Celine Godard-Coding</p>	<p>Context-dependent mate choice: microspatial effects on female preference</p> <p>Pablo Delclos; Molly Schumer</p>	<p>Impacts of an Environmentally-Acquired Symbiosis for an Insect Host</p> <p>Nicole Gerardo*</p>	<p>Insights from comparative genomic analyses in a non-model organism – <i>Elephas maximus</i></p> <p>Ishani Sinha; Raman Sukumar; Sanjeev Galande; Puli Chandramouli Reddy; Ashwin Kelkar; Farhat Habib</p>
<p>Site fidelity and habitat features shape fine-scale genetic structure of greater sage-grouse in central Nevada</p> <p>Josh Jahner; Daniel Gibson; Chava Weitzman; Erik Blomberg; James Sedinger; Thomas Parchman</p>	<p>Rapid evolution by sexual selection in an invasive mammal</p> <p>M. Aaron Owen; David Lahti</p>	<p>The influence of host outcrossing on symbiont vertical transmission rates across multiple generations</p> <p>Michelle Sneck; Tom Miller; Carolyn Young; Jennifer Rudgers</p>	<p>Mapping the regulatory architecture of a butterfly wing patterning gene</p> <p>Anyi Mazo-Vargas; Robert Reed</p>
<p>Recruitment of deep-sea wood-boring Xylophaga (Xylophagidae, Mollusca) inferred from RAD sequence data</p> <p>Yuanning Li*; Kenneth Halanych</p>	<p>You can't get there from here: female trait evolution under polygyny when the quality of their mates varies</p> <p>Maria Servedio*; Courtney Fitzpatrick</p>	<p>Morphological plasticity of host sponge contributes to symbiosis with other organisms: evolutionary implication of plasticity in sponges</p> <p>Remi Tsubaki</p>	<p>The evolution of Geadephagan chemical defense: Molecular evolution and functional validation of genes essential to quinone production in bombardier beetles</p> <p>Tanya Renner*; Aman Gill; Athula Attgalle; Kipling Will; Wendy Moore</p>

Sunday, June 19 | 2:45 – 4:00 pm

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	SSE Spotlight: Understanding history and process in rapid diversification with genomic data 2	Pollination	Experimental evolution 2
2:45 pm	Rapid adaptation to climatic extremes in house mice across Western North America  Kathleen Ferris; Megan Phifer-Rixey; Andreas Chavez; Taichi Suzuki; Dana Lin; Felipe Martins; Ke Bi; Michael Nachman	Geographic pollinator mosaics drive ecological divergence and convergence of floral tube length  Bruce Anderson	Exploiting an evolutionary trade off to eliminate multi-drug resistance in pathogenic bacteria  Mark Sistrom*; Benjamin Chan; Paul Turner
3:00 pm	Phenotypic and genotypic divergence in an island radiation of African reed frogs Rayna Bell Multiple genomes reveal accelerated evolution in conserved pathways during Anolis lizard adaptive radiations Marc Tollis; E. Hutchins; J. Stapley; W. Eckalbar; S. Rupp; I. Maayan; M. Wilson Sayres; R. Fisher; K. Kusumi Darwinian punctuated disequilibrium during speciation in <i>Rhagoletis</i> Jeffrey Feder; M. Doellman; T. Powell; G. Hood; S. Egan; G. Ragland; P. Meyers; S. Berlocher; P. Nosil	Exploration-exploitation trade-offs and the evolution of multicomponent signals  David Kikuchi*	Within-population diversification of <i>Pseudomonas aeruginosa</i> in a lung-like environment  Alana Schick; Rees Kassen
3:15 pm	Genomic basis of hybridization in two barn swallow contact zones  Elizabeth Scordato; Rebecca Safran; Nolan Kane; Matt Wilkins; Georgy Semenov	Quantifying the pollinator effectiveness of native solitary bees for <i>Echinacea angustifolia</i> , a native prairie perennial  Jennifer Ison; Maureen Page; Alison Bewley; Stuart Wagenius	Investigating evolutionary viability of bacterial efflux pumps for innovative phage therapy  Sabah Ul-Hasan; Mark Sistrom; Benjamin Chan
3:30 pm	The effect of wildflower seeding on population structure in 'natural' populations of Texas bluebonnet Kathryn Turner; Daisy Huang; Quentin Cronk; Loren Rieseberg Evidence of adaptation in feral ( <i>Gallus gallus</i> ) genepools Eben Gering; Dominic Wright; Thomas Getty; Martin Johnsson The genetic basis of evolved acute stress response in the nematode <i>Caenorhabditis remanei</i> Christine O'Connor	Variation in phenotypic selection in relation to pollinator service in the insect-pollinated plant <i>Sabatia angularis</i>  Sarah Emel; Steven Franks; Rachel Spigler	Pathogen of most resistance: Floral phytochemicals affect growth and evolution of the bumble bee parasite <i>Crithidia bombi</i>  Evan Palmer-Young; Ben Sadd; Phil Stevenson; Iain Farrell; Rebecca Irwin; Lynn Adler
3:45 pm	Cascading speciation among mutualists and antagonists in a tree-beetle-fungal interaction  Ryan Bracewell; Dan Vanderpool; Jeff Good; Diana Six	Can selfing facilitate shifts in pollination syndrome?  Carolyn Wessinger; John Kelly	Experimental evolution of sexually selected traits and a selfish X in the stalk-eyed fly, <i>Teleopsis dalmanni</i>  Kimberly Paczolt; Gerald Wilkinson

SSB Mixer | 4:00 – 4:45 pm, Rotunda (level 1)

SSB awards announcements & Presidential Address – Paul Lewis | 4:45 – 5:45 pm, Ballroom ABC

SSB General Business Meeting | 5:45 – 6:45 pm, MR3

Poster session #2 | 5:45 – 7:45 pm, EH1 --- Evolution Film Festival | 7:00 – 9:00 pm, MR8

MR3		MR4	
Phylogenomics / phylogeography		Lightning session: Phylogenetics / systematics	
Cryptic phylogenetic structure and history of hybridization in a rapids-adapted clade of cichlids from the Congo River  Liz Alter; Jason Munshi-South; Melanie Stiassny		Disentangling the roles of ecological and historical processes in structuring plant communities across the United States Robert Laport; William Weaver; Julienne Ng	
		How not to "Test" Dollo's Law and why Boris Igic; Emma Goldberg	
		Synthesizing paleontological and neontological data Robert Meredith; Tracy Heath; Daniel Ksepka	
hyRAD, Museum Genomics, and Phylogeography of a New Guinea Forest Kingfisher  Ethan Linck		There is no phylogenetic anomaly zone Matthew Hahn; Fabio Kuriki Mendes	
		A phylogenomic hypothesis of relationships among Typical Owls (Strigidae) Jessie Salter	
		A phylogenomic tree for African non-rift-lake cichlids Viviana Astudillo-Clavijo; Katriina Ilves; Walter Salzburger; Melanie Stiassny	
Demographic history of threespine stickleback populations, estimated from whole genome sequences  Michael M. Hansen; Shenglin Liu; Magnus Jacobsen		Investigating nuclear and mitochondrial discordance in Yellowfin Shiners Karen Bobier; John Wares	
		Beyond the pond: an organismal, multi-scale approach to integrative phylogeography Inigo Martinez-Solano; Jorge Gutierrez-Rodriguez; Gregorio Sanchez Montes; A. Márcia Barbosa; Joao Gonçalves; Emilio Civantos	
		Phylogeography of Wallacean Forest Birds Luke Bloch	
A genome-wide phylogeographic investigation of the model organism <i>Anolis carolinensis</i> using target capture  Joseph Manthey*; Marc Tollis; Emily Lemmon; Alan Lemmon; Stephane Boissinot		A nuclear gene phylogeny of the goat genus <i>Capra</i> Steve Jordan; Gordon Luikart	
		Rapidly evolving long exon capture in Squamates Todd Jackman*; Ben Karin	
		Asymmetric gene flow during the protracted diversification of two Neotropical-aridland bird communities Jessica Oswald; Isaac Overcast; William Mauck III; Michael Andersen; <b>Brian Smith</b>	
Ice ages drove explosive diversification of kiwi: a phylogenomic perspective  Jason Weir; Oliver Haddrath; Hugh Robertson; Rogan Colbourne; Allan Baker		Inferring responses to climate dynamics from historical demography in neotropical forest lizards Ivan Prates; Alexander Xue; Jason Brown; Diego Alvarado-Serrano; Miguel Rodrigues; Michael Hickerson; Ana Carnaval	
		First phylogeny of the leech genus <i>Placobdella</i> (Hirudinea: Glossiphoniia) Danielle de Carle; Sebastian Kvist	
		Does increased taxon sampling improve phylogenetic resolution when using small molecular datasets? Sara Ruane	
SSB Mixer   4:00 – 4:45 pm, Rotunda (level 1) SSB awards announcements & Presidential Address – Paul Lewis   4:45 – 5:45 pm, Ballroom ABC SSB General Business Meeting   5:45 – 6:45 pm, MR3 Poster session #2   5:45 – 7:45 pm, EH1 --- Evolution Film Festival   7:00 – 9:00 pm, MR8			

Sunday, June 19 | 2:45 – 4:00 pm

(\* indicates session chair)

	MR5	MR6A
	Lightning session: Population & quantitative genetics / molecular evolution / expression	Lightning session: Biogeography / diversification / varia (chair: A. Agrawal*)
2:45 pm	Evolution of allorecognition in a colonial marine invertebrate Marie Nydam	Evolution in the Eastern Mediterranean: Insights from Bellflowers Andrew Crowl; Nico Cellinese
	Population genomics of hybridization in the amphibian-killing chytrid fungus Thomas Jenkinson; T. James; K. Zamudio; F. Toledo	Projecting the potential future distributions of three mangrove species in Florida and beyond using ecological niche modeling Richard Hodel; Pamela Soltis; Douglas Soltis
	Sea-level mediated refugia as a driver of genetic diversification on subtropical coastlines--a paleohabitat and genetic study Greer Dolby; Ryan Ellingson; Lloyd Findley; David Jacobs	Differentiating between competing phylogeographic hypotheses to explain diversification in the Congo Basin Katy Morgan; P. Mickala; S. Ntie; J.-F. Mboumba; E. Fokam; G. Tasse; C. Miller; T. Tionga; R. Limesse; T. Ganz; N. Anthony
3:00 pm	Historical demography of the Brown Rat ( <i>Rattus norvegicus</i> ) inferred from whole genome sequences Jason Munshi-South; Emily Puckett	Island plant breeding systems: broad support for Baker's law Emma Goldberg
	Building and simulating coalescent models in an ABC framework with the PipeMaster R package Marcelo Gehara; Guilherme Mazzocchi; Frank Burbrink	Adequacy and limits of current diversification models Orlando Schwery; Brian O'Meara
	Evaluation of tools of deleterious mutation prediction in plants Li Lei; T. Kono; P. Hoffman; C.-H. Shi; J. Fay; P. Morrell	Phenotypic and genetic structure supports cladogenesis and introgression in an Amazonian flooded forest specialist, the Ash-breasted Antbird species complex Gregory Thom; F. Amaral; A. Aleixo; C. Ribas; C. Miyaki
3:15 pm	Distinguishing recent admixture from ancestral population structure Christoph Theunert; Montgomery Slatkin	Body size evolution and diversification rates of squamate reptiles Christopher Blair; Alex Pyron
	Characterising mutational input to quantitative traits Katrina McGuigan	Evolution of ontogeny and body size diversity in Neotropical cichlids Sarah Steele; Hernan Lopez-Fernandez
	Environmental variability and the evolution of the glucocorticoid receptor in African starlings Natalie Hofmeister; Dustin Rubenstein	Ecological success in space and time among North American fossil canids Mairin Balisi; Blaire Van Valkenburgh
3:30 pm	Thumbs up or thumbs down? A test for molecular evolutionary effects of background selection in the absence of (hard) selective sweeps Katharine Korunes; <b>Mohamed Noor*</b>	The evolution of sexual signal modes and associated sensor morphology in fireflies (Lampyridae, Coleoptera) Kathrin Stanger-Hall
	Convergent gene recruitment in the evolution of aquatic CAM in lycopods and eudicots Daniel Wood	Evolution of sex-specific growth control in <i>Drosophila prolongata</i> David Luecke; Artyom Kopp
	Concerted gene expression and selection signatures in convergent Gesneriaceae flowers M.L. Serrano Serrano; A. Marcionetti; M. Perret; N. Salamin	Host switching and the evolution of virulence in a plant pathogen Sean Meaden; Britt Koskella
3:45 pm	MIR retrotransposons rewired the GATA2 regulatory network in decidual stromal cells Katelyn Mika; Vincent J. Lynch	Chromosome evolution in an invasive plant Shana Welles; Katrina Dlugosch
	Co-option of endogenous retroviral genes in placental Poeciliid species Nathaniel Jue; Rachel O'Neill; Michael O'Neill	Gut microbiome of clonal and non-clonal congeneric lizards Iris Holmes; Alison Davis Rabosky; Daniel Rabosky
	Gene expression patterns of oxidative phosphorylation chain across and within a marine hybrid zone Alice Saunier; Vanessa Becquet; Eric Pante; Pascale Garcia	One gene makes all the difference: social exploitation selects against aggregative multicellularity Jennifer Pentz; Will Ratcliff
<b>SSB Mixer   4:00 – 4:45 pm, Rotunda (level 1)</b> <b>SSB awards announcements &amp; Presidential Address – Paul Lewis   4:45 – 5:45 pm, Ballroom ABC</b> <b>SSB General Business Meeting   5:45 – 6:45 pm, MR3</b> <b>Poster session #2   5:45 – 7:45 pm, EH1 --- Evolution Film Festival   7:00 – 9:00 pm, MR8</b>		

MR6B	MR7
Lightning session: Genomics / ecological genetics / bioinformatics	Lightning session: Adaptation / (evolutionary) ecology
De novo genome sequencing of the environmentally responsive spadefoot toads <i>Spea multiplicata</i> and <i>Sp. bombifrons</i> Fabian Seidl; A. Kelly; D. Pfennig; K. Pfennig; I. Ehrenreich	Ecological and genetic mechanisms of local adaptation in white clover Sara Wright; Daniel Cui Zhou; Kenneth Olsen
From 0 to genome: the Ninespine Stickleback experience Federico Calboli; P. Rastas; B. Guo; T. Shikano; J. Merilä	Testing for local adaptation in plant-microbe mutualisms Corlett Wood; Tia Harrison; Isabela Borges; <b>John Stinchcombe*</b>
Snake venom diversity through gene loss Matt Giorgianni; Sean Carroll; Noah Dowell	Multiple causative alleles underlie adaptive species differences suggesting soft sweeps from ancestral polymorphisms during evolution in <i>Aquilegia</i> Evangeline Ballerini; Nathan Derieg; Scott Hodges
Expression of tandem gene duplicates is often greater than two-fold David Loehlin; Sean Carroll	Various mechanisms of threespine stickleback adaptation to freshwater (White Sea and Kamchatka regions) Nadezhda Terekhanova; Nikolai Mugue
Genomics of adaptation in Yellowstone <i>Mimulus guttatus</i> Lila Fishman; Findley Finseth	Testing the adaptive significance of body size in Belau's land snails Teresa Rose Osborne; Rebecca Rundell
Common transcriptomic responses to native and novel <i>Wolbachia</i> infections Rosemarie Herbert; Elizabeth McGraw	Thermal tolerance, acclimatory capacity and vulnerability of the Túngara frog to global climate change Hilton Oyamaguchi; P. Vo; K. Grewal; A. Lin; R. Do; K. Tse; C. Chen; N. Jeong; M. Miyaki; E. Erwin; M. Gridi-Papp
Population genomics of the blue crab ( <i>Callinectes sapidus</i> ) in coastal US Luis Hurtado; Mariana Mateos; Wei Wang; Danielle Macedo	Accounting for environmental change in stochastic population models Geoffrey Legault; Brett Melbourne
Genomic insights into hybridization using <i>Heteronotia binoei</i> James Titus-McQuillan; Matthew Fujita; Craig Moritz	Character displacement in lesser antillean <i>Anolis</i> lizards James Boyko; Luke Mahler
Collecting insects for genomic research Mauren Turcatel; Torsten Dikow	Multivariate performance and the search for functional trade-offs Ann Céspedes; Simon Lailvaux
Use of whole genome sequencing to combat antimicrobial resistant gonorrhea Audrey Abrams McLean	Independent origins of resistance or susceptibility of parasitic wasps to a defensive symbiont Mariana Mateos; Lauryn Winter; Caitlyn Winter; Victor Higareda-Alvear; Esperanza Martinez-Romero; Jialei Xie
Population genomics in Mexican cavefish Suzanne McGaugh	The cost of competition in a natural system: insights from critically endangered <i>Cyclura carinata</i> iguanas Giuliano Colosimo; Mark Welch; Glenn Gerber
The evolution of genomic crosstalk in plant stress responses David Haak; Leonie Moyle; Matthew Hahn	Bacterial warfare and the evolution of cooperation Will Ratcliff; Luke McNally; Eryn Bernardy; Ben Kalzigi; Peter Yunker; Sam Brown; Brian Hammer
Sex, doublesex, and triplesex Rita Graze	How to be an effective ant bodyguard? A candidate gene approach Pierre-Jean Malé; Kyle Turner; Ina Anreiter; Aaron Allen; Manjima Doha; Marla Sokolowski; Megan Frederickson
Decontaminating de novo assemblies with machine learning Janna Fierst*	Hybrids are less colorful: another consequence of interpopulation hybridization of the marine copepod, <i>Tigriopus californicus</i> Ryan Weaver; Felipe Barreto; Ron Burton; Geoffrey Hill
Haplostrips: revealing population structure through haplotype visualization Davide Marnetto; Emilia Huerta-Sanchez	Using RNA-seq to assess sensory biases in the color vision of closely related species, a case study in <i>Anolis</i> and <i>Agamid</i> lizards Alexander Stubbs; Jimmy McGuire
<b>SSB Mixer   4:00 – 4:45 pm, Rotunda (level 1)</b> <b>SSB awards announcements &amp; Presidential Address – Paul Lewis   4:45 – 5:45 pm, Ballroom ABC</b> <b>SSB General Business Meeting   5:45 – 6:45 pm, MR3</b> <b>Poster session #2   5:45 – 7:45 pm, EH1 --- Evolution Film Festival   7:00 – 9:00 pm, MR8</b>	



Sunday, June 19 | 2:45 – 4:00 pm

(\* indicates session chair)

	MR8	MR9AB
	Lightning session: Speciation / reproduction isolation / sexual selection	Phenotypic plasticity / adaptation
2:45 pm	Sequential divergence and the multiplicative origin of community diversity Glen Hood; Andrew Forbes; Thomas Powell; Scott Egan; Gabriela Hamerlinck; James Smith; Jeffrey Feder	Adapting to a changing environment: modeling the interaction of directional evolution and plasticity  Leonard Nunney
	Birth-and-death evolution of fatty acyl-CoA reductase gene family and the evolution of cuticular hydrocarbon synthesis in <i>Drosophila</i> Henry Chung; Cédric Finet; Kailey Slavik; Jocelyn Millar; Sean Carroll	
	Style length is a speciation phenotype in <i>Silene latifolia</i> Lynda Delph; Amanda Brothers	
3:00 pm	Preference functions and the ecological niche in diversification Janette Boughman	Testing for local adaptation and plasticity in four alpine species using reciprocal transplantation experiments  Elena Hamann; Halil Kesselring; Johannes Scheepens; Georg Armbruster; Juerg Stoecklin
	Idiosyncratic and repeatable aspects of hybrid speciation in alpine butterflies Zachariah Gompert	
	Detecting epistatic selection in hybridizing populations Yaniv Brandvain; Molly Schumer	
3:15 pm	Recombination and the Origin of Species Laurie Stevison	Mechanisms of hypoxia adaptation: plasticity and evolution of heart size and gene regulation in high-altitude deer mice  Jonathan Velotta; Zachary Cheviron; Graham Scott
	A Spatially Explicit Test of Neotropical Diversification Models Jordan Koch; Vinson P. Doyle; Brian Smith	
	Does habitat diversity reliably predict diversity in sexual signaling? Justin Yeager; Kinsey Brock; Danielle Edwards	
3:30 pm	Rates of evolution among sperm genes and implications for speciation in a small nocturnal primate, genus <i>Microcebus</i> C. Ryan Campbell; Matthew Dubin; Anne Yoder	Variable selection and plasticity counteract theoretically favorable genetic architecture for speciation  Brook Moyers*; Loren Rieseberg
	The unexpected role of male coloration in a darter mating system Becky Fuller*; Muchu Zhou	
	Male density and rapid evolution of genital morphology in the seed beetle <i>Callosobruchus maculatus</i> Deanna Soper; Willow Macy	
3:45 pm	Sexual cooperation and conflict in butterfly spermatophore proteins Camille Meslin; Tamara Cherwin; Melissa Plakke; Brandon Small; Breanna Goetz; Nathan Morehouse; <b>Nathan Clark</b>	Gene expression plasticity in the gill transcriptome differs among stickleback ecotypes in response to salinity  Taylor Gibbons; Timothy Healy; David Metzger; Patricia Schulte
	Sexually antagonistic effects on development and maturation in <i>Drosophila melanogaster</i> Brian Hollis; Laurent Keller; Tadeusz Kawecki	
	Innate predispositions and learned behaviors: the effects of hybridization on birdsong Nicole Creanza	

SSB Mixer | 4:00 – 4:45 pm, Rotunda (level 1)

SSB awards announcements & Presidential Address – Paul Lewis | 4:45 – 5:45 pm, Ballroom ABC

SSB General Business Meeting | 5:45 – 6:45 pm, MR3

Poster session #2 | 5:45 – 7:45 pm, EH1 --- Evolution Film Festival | 7:00 – 9:00 pm, MR8

MR9C	MR10A	MR10B	MR10C
Molecular evolution / computational biology	Sexual selection / behavior 3	Disease	Molecular evolution / genomics 2
<p>Interpretation of codon-level positive selection relative to equilibrium dynamics on a mutation-selection landscape</p> <p>Christopher Jones; Edward Susko; <b>Joseph Bielawski</b></p>	<p>It's what's on the inside that counts - or is it? Microbial vs physiological mediation of sexually selected chemical signals in a songbird</p> <p>Danielle Whittaker*; S. Slowinski; K. Rosvall; N. Gerlach; H. Soini; M. Novotny; E. Ketterson; K. Theis</p>	<p>Cannibalism and infectious disease: friend or foe?</p> <p>Benjamin Van Allen*; Forrest Dilleuth; Andrew Flick; Matthew Faldyn; David Clark; Volker Rudolf; Bret Elderd</p>	<p>Use of contrasting phylogenetic depths to identify evolutionary constraint within neurotransmitter system genes and the implications for discovering behavioral disorder mutations</p> <p>Kristen Wade; Brian Verrelli</p>
<p>Translational errors purge structural order from potential polypeptides, facilitating future innovation</p> <p>Luke Kosinski; Joanna Masel</p>	<p>A new method for detecting directional and stabilizing mate preference</p> <p>Derek Roff; Alexandra Prokuda; Daphne Fairbairn</p>	<p>Insights into the factors limiting disease emergence in a natural host-pathogen system</p> <p>Molly Staley; Geoffrey Hill; Jonathan Armbruster; Camille Bonneaud</p>	<p>Accurate transposable element annotation is vital when analyzing new genome assemblies</p> <p>David Ray*; Roy Platt; Laura Blanco-Berdugo</p>
<p>How are proteins different from the random sequences from which they once evolved, and how do they change with age?</p> <p>Joanna Masel; Scott Foy; Ben Wilson; Rafik Neme</p>	<p>Coos, booms, and hoots: the evolution of closed-mouth vocal behavior in birds</p> <p>Tobias Riede; <b>Chad Eliason</b>; Edward Miller; Franz Goller; Julia Clarke</p>	<p>Factors that structure parasite populations in an aquatic host-parasite system</p> <p>Clara Shaw; Meghan Duffy</p>	<p>Evolutionary and functional (epi)genomics of gene regulation in the primate liver</p> <p>Marco Trizzino; YoSon Park; Minal Caliskan; Marcia Holsbach-Beltrame; George "PJ" Perry; Christopher Brown</p>
<p>Functional sites induce long-range evolutionary constraints in enzymes</p> <p>Benjamin Jack; Austin Meyer; Julian Echave; <b>Claus Wilke*</b></p>	<p>Brain size and cognitive ability affect the assessment of male attractiveness during mate choice in the guppy</p> <p>Alberto Corral-Lopez; Natasha Bloch; Alexander Kotrschal; Wouter van der Bijl; Severine Buechel; Judith Mank; Niclas Kolm</p>	<p>Connecting within- and between- host microbial dynamics in primed insect populations</p> <p>Ann Tate</p>	<p>Mitochondrial genome evolution across major sea urchin families, with special focus on the emerging model <i>Tripneustes gratilla</i></p> <p>Áki Jarl Láruson; Floyd Reed; David Carlon</p>
<p>Mechanistic models of protein evolution</p> <p>Richard Goldstein; David Pollock</p>	<p>Interactive courtship behavior varies geographically in divergent populations of a Neotropical frog</p> <p>Maria Akopyan; Kristine Kaiser; Jeanne Robertson</p>	<p>Within-host dynamics and the evolution of pathogen virulence</p> <p>Melanie Clerc; Dieter Ebert; <b>Matt Hall</b></p>	<p>Population genomics of ancient trans-species polymorphisms in <i>Drosophila</i></p> <p>Christina Muirhead; Daven Presgraves</p>
<p><b>SSB Mixer   4:00 – 4:45 pm, Rotunda (level 1)</b>  <b>SSB awards announcements &amp; Presidential Address – Paul Lewis   4:45 – 5:45 pm, Ballroom ABC</b>  <b>SSB General Business Meeting   5:45 – 6:45 pm, MR3</b>  <b>Poster session #2   5:45 – 7:45 pm, EH1 --- Evolution Film Festival   7:00 – 9:00 pm, MR8</b></p>			

Monday, June 20 | 8:30 – 9:45 am

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	ASN VP Symposium: Convergent evolution, natural history, and the big questions in biology 1	Evolutionary ecology / fish	SSB Symposium: Advances in the analysis of reticulate population networks 1
8:15			
8:30 am	Convergence, natural history, and some big questions in biology  Anurag Agrawal	Contrasting effects of ecology and genetics generate a continuum of parallel evolution in threespine stickleback  Yoel Stuart; Daniel Bolnick; Catherine Peichel; Andrew Hendry	Statistical inference of reticulate evolutionary histories  Luay Nakhleh; Yun Yu; Dingqiao Wen
8:45 am	Toxic plant secondary metabolites and the convergent evolution of insect defenses  Susanne Dobler; Georg Petschenka; Vera Wagschal; Alexander Donath	Phenotypic integration of feeding and locomotor performance across divergent locally adapted populations of Trinidadian guppies  Emily Kane*; Cameron Ghalambor	Quartet-based inference of phylogenetic networks  Claudia Solis-Lemus; Cecile Ane
9:00 am		Vertebral counts count  Petter Tibblin; Hanna Berggren; Oscar Nordahl; Per Larsson; Anders Forsman	
9:15 am	Pattern and process in the comparative study of convergence  D. Luke Mahler; Travis Ingram	Predation pressure impacts brain anatomy in the wild  Alexander Kotrschal; Amy Deacon; Ann Magurran; Niclas Kolm	(Explicit) phylogenetic networks: do branch lengths help?  Celine Scornavacca
9:30 am		Physiological and genomic adaptations to salinity in populations of killifish, <i>Fundulus heteroclitus</i> , following a marine to freshwater habitat shift  Reid Brennan; Andrew Whitehead	

Morning coffee break | 9:45 – 10:15 am

Sponsor:



MR3	MR4	MR5	MR6A
Phylogenomics / speciation	Phylogeography 1	Paleobiology	Biogeography / systematics
One is the loneliest number: genomic data reveals morphologically distinct salamander "species" are actually phenotypes  Kara Jones; David Weisrock	Historical demography of Rheobates from Colombian Andes  Astrid Muñoz-Ortiz; Carlos Guarnizo; Gabrielle Genty; Alvaro Andrés Velásquez; Crawford Andrew	Extinction biases and their ramifications on Caribbean lizard communities  Melissa Kemp	Reticulate evolution, divergence times and infrageneric classification insights of the Neotropical genus <i>Lachemilla</i> (Rosaceae)  Diego Morales-Briones*; David Tank
Testing the parallel speciation hypothesis using phylogenomic data in Californian Skinks (Plestiodon)  Andrew Frank; Jonathan Richmond; Alan Lemmon; Emily Lemmon; Elizabeth Jockusch	Testing models of refugial isolation, colonization, and population connectivity in Sierra Nevada Web-toed salamanders  Sean Rovito*; Sean Schoville	Tunneling through time: Horizontal gene transfers constrain the timing of microbial evolution  Joanna Wolfe*; Cara Magnabosco; Gregory Fournier	Historical biogeography of the butterfly-bushes ( <i>Buddleja</i> ): origins and timing of intercontinental disjunctions  John Chau; Richard Olmstead
Larger X inversions in <i>Drosophila</i> flies  Changde Cheng; Mark Kirkpatrick	Southern hemisphere phylogeography: Effects of sea-level changes on populations of Australian Common Seadragons investigated with next-generation sequencing  Josefin Stiller; Nerida G. Wilson; Greg Rouse	Phylogenetic diversity through deep time: an exploration using Mesozoic dinosaurs  Graeme Lloyd; David Bapst; Matt Friedman; Katie Davis	Understanding the evolution of plants in the Andes: The case of Eriocaulaceae (Poales)  Amalia Diaz; Beryl Simpson
Microendemism in North American freshwater fishes: a tropical pattern in a temperate setting  Thomas Near*	Phylogeography of the brown rat ( <i>Rattus norvegicus</i> ): Global range expansion and admixture since the 1500s  Emily Puckett; Jason Munshi-South	Using stable isotopes to detect responses to environmental change in parapatric ctenomyid rodents  Risa Takenaka; Melanie Miller; Mauro Tammone; Eileen Lacey; Todd Dawson	Systematics, biogeography and evolution of kairomone response in the tribe Dacini (Diptera: Tephritidae)  Michael San Jose; Luc Leblanc; Dan Rubinoff
Phylogenetics of the sweet potato complex: A comparison of RAD-seq and targeted gene capture for resolving relationships  Lauren Eserman; Jim Leebens-Mack	Heterogeneous effects of climate and geography on genetic diversity in Mabuya skinks  Danielle Rivera; Ana Carnaval; Miguel Rodrigues	Cancelled.	You say tomato, i say two tomatoes: RADseq, crosses, and morphology uncover a cryptic species in <i>Solanum</i> sect. <i>Lycopersicon</i>  Andrew Raduski; Boris Igic
<b>Morning coffee break   9:45 – 10:15 am</b>		<b>Sponsor:</b> 	

	MR6B	MR7	MR8	MR9AB
	Pop. genetics: inference of selection 4	Life history 1	Speciation / hybridization	Phenotypic plasticity 1
8:30 am	Population genetics of polygenic adaptation  Kevin Thornton	Supper for your singing mouse: The effect of energetic resources on investment in a sexually selected trait  Erin Giglio; Phelps Steve	Ancient hybridization and genomic stabilization in a swordtail fish  Molly Schumer; Rongfeng Cui; Dan Powell; Gil Rosenthal; Peter Andolfatto	Intrapopulation genetic variation for flowering and growth in response to photoperiod  Kelly Schmid; Jannice Friedman
8:45 am	Does specific immunity selection structure the <i>Plasmodium falciparum</i> population into strains from the perspective of the major blood antigen PfEMP1?  Qixin He*; Mercedes Pascual	Striking a balance: Immune challenge elicits sex-specific trade-offs in reproductive investment in the cabbage white butterfly  Nathan Morehouse*; Nicholas Saleh; Molly Silverman; Celia Hanss; Tamara Cherwin; Caroline Kirkby	Evolutionary consequences of hybridization: an experimental test  Aaron Comeault*; David Turissini; Daniel Matute	Physiological causes and consequences of plastic responses to predators and pond drying in spadefoot toads  Pablo Burraco; Carmen Díaz-Paniagua; Miguel A Rendón; Ivan Gomez-Mestre
9:00 am	The evolutionary forces contributing to within-population variation in local and distal regulation of gene expression  Emily Josephs; Young Wha Lee; Daniel Schoen; John Stinchcombe; Stephen Wright	Cerebral lateralization and personality as part of a life history strategy  Peter Hurd	Reproductive barriers between heterostylous primroses  Elena Conti; Barbara Keller; Jurriaan De Vos; James Thomson	What is the relative importance of genotypic diversity versus phenotypic plasticity on productivity under manipulated drought conditions?  Cynthia Chang*; Rebecca Kim; Elizabeth Nightingale; Meerit Said; Stefany Sideris; Erica Qiao; Nicolas Vradenburg
9:15 am	Natural selection on secondary metabolites changes direction between adjacent tissues  Rose Keith; Tom Mitchell-Olds	Using DNA methylation data to test heritability-based predictions of evolutionary models of human aging  Chloe Robins; David Cutler; Karen Conneely; Joseph Powell; Allan McRae; Grant Montgomery; Peter Visscher	Strong plant-pollinator association doesn't explain disruptive selection and reproductive isolation in a Joshua tree hybrid zone  Anne Royer; Sean Stankowski; Jackson Waite-Himmelwright; Christopher Smith	Morphological and behavioral plasticity associated with fluctuations in population size  Holly Swift; Michael Dawson
9:30 am	Demography and mating system shape the genome-wide impact of natural selection in <i>Arabis alpina</i>  B. Laenen; <b>Andrew Tedder</b> ; M. Nowak; P. Toräng; J. Wunder; S. Wötzel; Y. Kourmpetis; T. Odong; A. Drouzas; M. Bink; J. Ågren et al.	A re-evaluation of the predictions and mechanisms that underlie the interactions between current reproduction, future reproduction, and survival  Wendy Hood; Yufeng Zhang	Asymmetric hybrid incompatibility drives speciation of neo-allopolyploid monkeyflower  Taliesin Kinser	Population differentiation in root architecture in <i>Arabidopsis thaliana</i> : a common garden approach  Courtney Murren; Javier Puy; Clare Kohler; Begonia Peco; Juan Traba; Juan Malo; Gorka Sancho

MR9C	MR10A	MR10B	MR10C
Molecular ecology / gene flow 1	Parental behavior	Ecological genetics 1	Molecular evolution 1
Landscape epigenetics  Rodney Dyer*; Chitra Seshadri	Colony size of pine sawflies, genus <i>Neodiprion</i> , is driven by female oviposition behavior rather than larval aggregative tendency  John Terbot; Catherine LInnen	Barking up the right trees: the influence of forest fire on the genetic architecture of bark thickness in southeastern pines  Chris Friedline; Andrew Eckert; Brandon Lind; Alice Shanfelter; Mitra Menon	The evolutionary origin of sex-limited gene expression in <i>Drosophila</i>  Emily Delaney; Artyom Kopp; Amir Yassin; John Pool; Steve Chenoweth
Fine-scale population subdivision of Northern pike ( <i>Esox lucius</i> ) in coastal areas of the Baltic Sea  Oscar Nordahl; Per Koch-Schmidt; Anders Forsman; Per Larsson	Parental behaviour increases the potential for evolutionary change  Benjamin Jarrett; Matthew Schrader; Rebecca Kilner	Strong genetic differentiation but not local adaptation towards a geographical range limit  Christopher Eckert*; Karen Samis; Adriana López Villalobos	Rapid evolution and positive selection in the synaptonemal complex of <i>Drosophila</i>  Lucas Hemmer; Justin Blumenstiel
Genetic rescue in small populations of Trinidadian guppies following augmentation with divergent immigrants  John Kronenberger; Jill Gerberich; Sarah Fitzpatrick; Dale Broder; Lisa Angeloni; Chris Funk	Mechanisms of parental care: a poison frog perspective  Eva Fischer; Alexandre Roland; Kyle Summers; Adam Stuckert; Lauren O'Connell	Physiology of toxin sequestration in poison frogs  Lauren O'Connell	Molecular evolution of cone opsin genes in Neotropical cichlids  Julian Torres-Dowdall*; Axel Meyer
Fine-scale isolation by distance and genetic bottleneck effects in New Zealand's rarest kiwi ( <i>Apteryx rowi</i> )  Kristina Ramstad; Hugh Robertson; Rachael Abbott; Charles Daugherty	The evolution of reduced dependence on parental care in experimental populations of the burying beetle, <i>Nicrophorus vespilloides</i>  Matthew Schrader*; Benjamin Jarrett; Darren Rebar; Rebecca Kilner	Evolutionary and ecological impacts of horizontal gene transfer in arthropods  Jennifer Kovacs; Emily Weigel; Kiera Brown; Jack Werren	Evolutionary dynamics of transposable elements in <i>Zea mays</i>  Michelle Stitzer; Jeffrey Ross-Ibarra
Genetic and ecological recovery from a massive invertebrate die-off along the central coast of California  Lauren Schiebelhut; Brian Gaylord; Rick Grosberg; Laura Jurgens; Michael Dawson		Adaptive Ecotypic Variation and Genetic Divergence of an Ecologically Dominant Prairie Grass across the Great Plains Precipitation Gradient  Matthew Galliard	Evolution of epibatidine resistance in poison frogs  Rebecca Tarvin; Wiebke Sachs; Cecilia Borghese; Juan Carlos Santos; Lauren O'Connell; David Cannatella; Harold Zakon; Adron Harris



Monday, June 20 | 10:15 – 11:30/11:45 am

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	ASN VP Symposium: Convergent evolution, natural history, and the big questions in biology 2	Evolutionary ecology / reptiles	SSB Symposium: Advances in the analysis of reticulate population networks 2
10:15 am	(Incomplete) convergence across levels at White Sands	The Niche variation hypothesis and its relationship to lizard population density  Maria Novosolov; Gordon Roda; Alison Gainsbury; Shai Meiri	Inference of ancestral recombination through topological data analysis
10:30 am	Erica Bree Rosenblum	Factors influencing cranial morphological variation of parthenogenetic and gonochoristic whiptail lizards: implications on evolution  Sarah Tulga; Elizabeth Ferrer	Pablo G Camara; Arnold Levine; Raul Rabadan
10:45 am	Where is phylogenetic biology headed? Big trees and the unfortunate rise of 'automated' natural history	Ecological specialization and morphological diversification in Greater Antillean Boas  R. Graham Reynolds*; David Collar; Stesha Pasachnik; Matthew Niemiller; Alberto Puente-Rolon; Liam Revell	Reconstructing a dated tree of life using phylogenetic incongruence
11:00 am	Erika Edwards	Evolutionary effects of urbanization on the tropical lizard genus <i>Anolis</i>  Kristin Winchell; Liam Revell; Alberto Puente-Rolon	Gergely Szollosi; Adrian A Davin; Eric Tannier; Bastien Boussau; Vincent Daubin
11:15 am	Homoplasy, natural history, and the evolution of snake-primate interactions  Harry Greene  11:15 - 11:45 am	Optimal feeding frequency and the physiological mechanisms underlying its evolution  Charles Watson	Interrogating transcriptomes to characterize the different causes of gene tree discord in empirical data  L. Lacey Knowles; Huanteng Huang; Jeet Sukumaran; Stephen Smith  11:15 - 11:45 am
Lunch   11:30 am – 1:00 pm			
NSF information session   MR10A --- Undergraduate Futures Lecture & Discussion   MR7			

MR3	MR4	MR5	MR6A
Phylogenomics / systematics	Phylogeography 2	Paleobiology / macroevolution	Geographic variation
<p>Evolution Underground: Phylogenomics of Eurycea Salamanders Deep in the Heart of Texas</p> <p>Tom Devitt; April Wright; David Cannatella; David Hillis</p>	<p>Comparative phylogeography of two loaches, <i>Schistura fasciolata</i> and <i>Pseudogastromyzon myersi</i>, in Hong Kong: the role of sea level changes in the population differentiation of South China freshwater fishes</p> <p>Wai Yee Wong; Ka Yan Ma; Ling Ming Tsang; Ka Hou Chu</p>	<p>New approaches for disparity-through-time analyses</p> <p>Thomas Guillaume*; Natalie Cooper; Martin Brazeau</p>	<p>Predator perspective drives geographic variation in frequency-dependent polymorphism</p> <p>Maggie Grundler; Iris Holmes; Alison Davis Rabosky</p>
<p>Expanding Anchored Enrichment to resolve both deep and shallow relationships within the spider Tree of Life</p> <p>Chris A. Hamilton; Alan Lemmon; Emily Lemmon; Jason Bond</p>	<p>Inland seas may have driven the diversification of Rhacophorid frogs on Sumatra</p> <p>Kyle O'Connell; Eric Smith; Matthew Fujita</p>	<p>Protochordate gill function suggests ions and not oxygen as the primary constraint on body size during early chordate evolution</p> <p>Michael Sackville; Colin J Brauner</p>	<p>Variation in venom gene family repertoires in populations of a Cone Snail</p> <p>Peter Cerda; Thomas Duda</p>
<p>Influence of gene family evolution on phylogenomic analyses</p> <p>Joseph Walker; Ya Yang; Stephen Smith</p>	<p>Geographical factors promoting diversification of the northern Andes and Brazilian Cerrado regions: The case of frogs and Anole lizard species</p> <p>Carlos Guarnizo*</p>	<p>Why are dinosaurs big and mammals are not?</p> <p>Steven Orzack; Nathan Myhrvold</p>	<p>Constraints on geographic variation in fiddler crabs of the western Atlantic</p> <p>Melanie Hopkins; Annat Haber; Carl Thurman</p>
<p>DNA sequences identify cryptic species of quillworts (<i>Isoetes</i> L.)</p> <p>Elizabeth Zimmer*; W. Carl Taylor; Peter Schafran; Gabriel P. Johnson</p>	<p>Phylogeographic structure within the Red Diamond Rattlesnake (<i>Crotalus ruber</i>) of Baja California: A genomic perspective based on RADseq data</p> <p>Sean Harrington</p>	<p>How macroecology affects macroevolution: the interplay between extinction intensity and trait-dependent extinction in brachiopods</p> <p>Peter Smits</p>	<p>Venom variation in the Florida Bark Scorpion</p> <p>Micaiah Ward*; Darin Rokyta</p>
<p>A complete species-level phylogeny of Mammalia using a supermatrix of 31 genes</p> <p>Nathan Upham; Walter Jetz; Jacob Esselstyn</p>	<p>Phylogeography of <i>Peromyscus maniculatus</i> based on the mitochondrial gene cytochrome-b</p> <p>James Francis; Caleb Phillips; Robert Bradley</p>	<p>Detecting clade-wide shifts in trait macroevolutionary dynamics: the evolution of gigantism in mysticetes</p> <p>Graham Slater; Nicholas Pyenson; Jeremy Goldbogen</p>	<p>Mimics here and there, but not everywhere: Müllerian mimicry in <i>Ceroglossus</i> ground beetles?</p> <p>Carlos Munoz-Ramirez; L. Lacey Knowles</p>

**Lunch | 11:30 am – 1:00 pm**
**NSF information session | MR10A --- Undergraduate Futures Lecture & Discussion | MR7**

Monday, June 20 | 10:15 – 11:30 am

(\* indicates session chair)

	MR6B	MR7	MR8	MR9AB
	Sex/recombination 1	Life history 2	Speciation / reproductive isolation	Phenotypic plasticity 2
10:15 am	<p>Sex-biased gene expression in XX and XY males of <i>Rana temporaria</i>, a species with polymorphic sex determination</p> <p>Melissa Touns; Nicolas Perrin; Paris Veltsos; Alan Brelsford; Nicolas Rodrigues</p>	<p>Adaptive advantage of the ontogenetic transition from conspicuous colored tails to a cryptic phenotype in lizards</p> <p>William Krogman; Charles Watson</p>	<p>Incipient speciation: Investigating the genetic basis of mate choice in <i>Drosophila melanogaster</i></p> <p>Charles Miller; David Turissini; Aaron Comeault; Geoffrey Liu</p>	<p>Mitochondrial epistasis for fitness and gene expression in <i>Drosophila</i>: common features of GxG and GxE</p> <p>David Rand; James Mossman; Leann Biancani</p>
10:30 am	<p>Rapid evolution of sex chromosomes in African clawed frogs (<i>Xenopus</i>) by genomic recycling</p> <p>Benjamin Furman*; Ben Evans</p>	<p>A clinal polymorphism in insulin signaling has pleiotropic effects on <i>Drosophila</i> life history</p> <p>Mukaddes Esra Durmaz; Subhash Rajpurohit; Nicolas Betancourt; Paul Schmidt; Flatt Thomas</p>	<p>Behavioral isolation and color pattern divergence are driven by male behavior in darters</p> <p>Rachel Moran; Becky Fuller</p>	<p>Genetics of variation in phenotypic plasticity in butterfly <i>J. coenia</i></p> <p>Karin van der Burg; Robert Reed</p>
10:45 am	<p>Evolution of sex chromosomes in <i>Silene otites</i> and <i>Silene pseudotites</i></p> <p>Fantin Carpentier; Helene Martin; Aline Muyle; Gabriel Marais; <b>Touzet Pascal</b></p>	<p>Predator driven brain size evolution in natural populations of Trinidadian killifish</p> <p>Shannon Beston; Whitnee Broyles; Matthew Walsh</p>	<p>Personality drive, mate choice, and speciation</p> <p>Gil Rosenthal*</p>	<p>Inconsistent clines and shifting thresholds: the genetics of seasonal adaptation in annual <i>Mimulus guttatus</i></p> <p>Benjamin Blackman*; Nicholas Kooyers</p>
11:00 am	<p>Evolution of recombination on diploid sex chromosomes: The role of pollen or sperm competition</p> <p>Michael Scott; Sally Otto</p>	<p>A density-dependent polyphenism in <i>Notophthalmus viridescens</i> louisianensis is mediated by chemical cues</p> <p>Jason Bohenek; William J. Resetarits Jr.</p>	<p>Introgression of genes in a female pheromone biosynthesis pathway alters female signal and male courtship response</p> <p>Jennifer Gleason; Denny Swartzlander</p>	<p>Plastic genes: parallels between learning and gene expression as mechanisms of developmental plasticity</p> <p>Kristin Sikkink; Megan Kobiela; Emilie Snell-Rood</p>
11:15 am	<p>A genealogical look at recent X chromosome ancestry</p> <p>Vince Buffalo; Graham Coop; Stephen Mount</p>	<p>Oviposition preference matches larval performance in Cope's gray treefrog</p> <p>Matthew Pintar*; William J. Resetarits Jr.</p>	<p>Behavioral defects in <i>Drosophila</i> hybrids</p> <p>Daniel Matute</p>	<p>Symbiont identity and structural genomic variation alter gene expression in <i>Medicago truncatula</i> nodules and roots</p> <p>Liana Burghardt; Joseph Guhlin; Peng Zhou; Junqi Liu; Robert Stupar; Peter Tiffin</p>

Lunch | 11:30 am – 1:00 pm

NSF information session | MR10A --- Undergraduate Futures Lecture & Discussion | MR7

MR9C	MR10A	MR10B	MR10C
Molecular ecology / gene flow 2	Behavior	Ecological genetics 2	Molecular evolution 2
<p>Analyzing the demographic history of three admixed Barn Swallow subspecies using approximate Bayesian computation</p> <p>Chris Smith; Elizabeth Scordato; Samuel Flaxman; Rebecca Safran</p>	<p>How to become monogamous, very rapidly!</p> <p>Alejandro Berrio*; Mariam Okhovat; Phelps Steve</p>	<p>Parallel evolution in lake-stream threespine stickleback at local versus global scales</p> <p>Antoine Paccard; Dieta Hanson; Yoel Stuart; Daniel Bolnick; Daniel Berner; Frank Von Hippel; Martin Kalbe; Tom Klepaker; Bjarni Kristjánsson; Andrew Hendry; Rowan Barrett</p>	<p>The evolution of environmentally-responsive gene regulatory networks</p> <p>Samuel Scarpino; Jesse Lasky; Rafael Guerrero; Dave DesMarais</p>
<p>Sex in the city: urbanization facilitates gene flow among natural habitats of the Western black widow spider</p> <p>Lindsay Miles; Brian Verrelli</p>	<p>Applying automated tracking technology to study behavioral evolution in <i>Drosophila</i></p> <p>Jon Massey; Patricia Wittkopp</p>	<p>The multivariate association between genome-wide DNA methylation and climate across the range of <i>Arabidopsis thaliana</i></p> <p>Thomas Keller; Jesse Lasky; Soojin Yi</p>	<p>Functional genomic evolution of paedomorphic Cypriniformes</p> <p>Milton Tan; Jonathan Armbruster</p>
<p>Plastid landscape genomics - using whole-genome chloroplast sequencing to estimate seed dispersal</p> <p>Mitch Cruzan*; Monica Grasty; Brendan F Kohn; Elizabeth Hendrickson; Pamela Thompson</p>	<p>Effects of early and late-life nutritional stress on host selection in a butterfly</p> <p>Sarah Jaumann; Emilie Snell-Rood</p>	<p>Age-related stress and fitness responses: Implications for evolutionary theories of aging</p> <p>Elizabeth Everman; Theodore Morgan</p>	<p>Repeated adaptation to dangerous prey through a predictable molecular pathway in the garter snake <i>Thamnophis sirtalis</i></p> <p>Michael Hague; Butch Brodie</p>
<p>Landscape connectivity of a noxious crop weed: human-aided or natural dispersal?</p> <p>Diego Alvarado-Serrano; Megan Van Etten; Shu-Mei Chang; Regina Baucom</p>	<p>The evolution of extreme encephalization results in higher energetic demand and reduced hypoxia tolerance in weakly electric African fishes (Mormyridae)</p> <p>Kimberley Sukhum; Megan K. Freiler; Robert Wang; Bruce A. Carlson</p>	<p>Selection causes rapid genome-wide evolution in <i>Brassica rapa</i> following a climatic change</p> <p>Steven Franks*; Nolan Kane; Niamh O'Hara; Silas Tittes; Arthur Weis; Joshua Rest</p>	<p>How an ongoing evolutionary process within you maintains a set of protective antibodies to block pathogens</p> <p>Frederick Matsen*; Trevor Bedford; Vladimir Minin; Duncan Ralph</p>
<p>Spatial population genomics of brown rats in New York City</p> <p>Matthew Combs; Jason Munshi-South</p>		<p>Predatory toolkits: impact of phylogeny and ecology on venom composition in <i>Conus</i></p> <p>Andrew Wood; Thomas Duda</p>	<p>Co-option of cell cycle regulated gene expression during the evolution of undifferentiated multicellularity</p> <p>Tara Marriage; Erik Hanschen; Bradley Olson</p>
<p><b>Lunch   11:30 am – 1:00 pm</b></p> <p><b>NSF information session   MR10A --- Undergraduate Futures Lecture &amp; Discussion   MR7</b></p>			

	Ballroom A	Ballroom B	Ballroom C
	SSB Spotlight: Next generation phylogenetic inference 1	Evolutionary ecology 1	Experimental evolution / coevolution
1:00 pm	Large-scale phylogenetic inference: information-theoretic insights  Sebastien Roch	When local means local: Polygenic signatures of local adaptation within whitebark pine ( <i>Pinus albicaulis</i> Englm.) across the Lake Tahoe Basin, USA  Brandon Lind; Chris Friedline; Jill Wegrzyn; Patricia Maloney; Detlev Vogler; Andrew Eckert	Darwin's tangled bank in digital and microbial coevolution  Luis Zaman
1:15 pm		Phenotypic divergence despite gene flow along elevational gradients in a poison frog in the Andes  Monica Paez; Daryl Trumbo; Chris Funk	Evolution of cryptic coloration in ectoparasites  Sarah Bush*; Scott Villa; Dale Clayton
1:30 pm	Bayesian phylogenetics with importance sampling  Bret Larget; Claudia Solis-Lemus	Drift selection migration? MHC genetic variation along a latitudinal gradient in Moor frogs  Maria Cortazar Chinarro; Ella Z.Lattenkamp; Yvonne Meyer; Emilien Luquet; Jacob Höglund; Anssi Laurila	Major Histocompatibility Complex diversity impedes pathogen fitness and virulence evolution  Douglas Cornwall
1:45 pm	A network framework to explore phylogenetic structure in genome data Guifang Zhou; J. Ash; W. Huang; M. Marchand; D. Morris; P. Van Dooren; J. Wilgenbusch; J. Brown; K. Gallivan  Genome-wide gene genealogy interrogation advances resolution of recalcitrant groups in the Tree of Life Dahiana Arcila; G. Orti; L. Revell; R. Betancur-R  Summarizing population genome variation in phylogenetic analyses August Guang; Casey Dunn; Charles Lawrence	Fish evolution in dynamic size-structured resources  Jungkoo Kang*; Xavier Thibert-Plante	Heritability of obligate symbiont titer and link to aphid host fitness  Becky Chong; Nancy Moran
2:00 pm	Accelerating bayesian inference for evolutionary biology models  Xavier Meyer; Nicolas Salamin	Predicting range contractions in niche conserved plethodontid salamanders comparing correlative and biophysical niche models  Marta Lyons; Ken Kozak	Evolution of apoptosis-like programmed cell death  Joanna Klim; Arkadiusz Gladki; Roza Kucharczyk; Urszula Zielenkiewicz; <b>Szymon Kaczanowski</b>
Afternoon coffee break   2:15 – 2:45 pm			

MR3	MR4	MR5	MR6A
Phylogenomics methods/techniques	Phylogeography 3	Systematics / bioinformatics	Comparative biology 1
Phylogenomic sensitivity and discordance: Assessing the effect of locus and site selection using anchored phylogenomic data from Chorus Frogs ( <i>Pseudacris</i> )  Sarah Banker; Alan Lemmon; Emily Lemmon	Historical climate change shapes population structure and genomic divergence of treefrogs in the Neotropical Cerrado savanna  Mariana Vasconcellos*; Guarino Colli; David Cannatella	Representing phylogeny as a logically tractable variable  Nico Franz*; Guanyang Zhang; Shizhuo Yu; Bertram Ludäscher	Evolutionary modularity allows for big brains and strange faces  Kory Evans; James Albert; Brian Sidlauskas; Victor Tagliacollo; Brandon Waltz
An empirical test of reduced-representation genomics to inferring species-level phylogenies for two ant groups  Corrie Moreau; <b>Brian Wray</b>	Tests of species-specific models reveal the importance of drought in postglacial range shifts of a Mediterranean-climate tree: insights from iDDC modelling and ABC model selection  Jordan Bemmels; Pascal Title; Joaquín Ortego; L. Lacey Knowles	Misjudging a snake by its color: molecular systematics of coralsnakes of the <i>Micrurus diastema</i> species complex  Jacobó Reyes Velasco; Richard Adams; Thomas Eimermacher; Christopher Parkinson; Jonathan Campbell; Eric Smith; Todd Castoe	Evolution of digital morphology in relation to the acquisition of the adhesive system in geckos  Mingna Zhuang*; Anthony Russell; Timothy Higham
Recovering genome-scale data from formalin fixed samples: an Anchored Phylogenomics approach  Michelle Kortyna; Felipe Grazziotin; Alan Lemmon	Testing models of colonization in the robust lancetooth snail ( <i>Haplotrema vancouverense</i> ) from the Pacific Northwest using Approximate Bayesian Computation and the Site Frequency Spectrum  Megan Smith; Anahí Espíndola; Megan Ruffley; David Tank; Jack Sullivan; Bryan Carstens	Phylogenetics and morphological evolution of butterflyfishes and angelfishes  Charlene McCord	Rates and traits: Does life history drive genome size evolution in amphibians?  Hans Christoph Liedtke; Ivan Gomez-Mestre
Using phylogenetic reconciliation to decipher microbial evolution: Theory and practice  Mukul Bansal*	Phylogeography of <i>Alnus rubra</i> in the Pacific Northwest temperate rainforest  Megan Ruffley; Anahí Espíndola; Megan Smith; Bryan Carstens; David Tank; Jack Sullivan	TimeTree: A public knowledge-base of divergence times among organisms  Sudhir Kumar; S Blair Hedges	3D reconstruction of a Late Triassic Neopterygian braincase – ecological implications of the neurocranium, and the phylogeny of Neopterygi  Ashley Latimer
Radder than RAD: Anonymous MetaPrep extends Anchored Phylogenomics to thousands of customizable loci with minimal missing data at costs comparable to RAD sequencing  Alan Lemmon; Emily Lemmon; Paul Sunnucks; Ashley Murphy; Hernan Morales; Alexandra Pavlova	Global altitudinal diversity of birds  Ignacio Quintero; Walter Jetz	Comparing the performance of orthology prediction programs  Madison Hansen	The role of telomeres in the evolution of exceptional longevity in bats  Nicole Foley; Graham Hughes; Zixia Huang; Gareth Jones; Roger Ransome; Gerald Kerth; Sebastien Puechmaile; Emma Teeling

Afternoon coffee break | 2:15 – 2:45 pm



	MR6B	MR7	MR8	MR9AB
	Sex/recombination 2	Life history 3	Hybridization 1	Phenotypic plasticity 3
1:00 pm	<p>Selection for sex in a quantitative trait model</p> <p>Denis Roze</p>	<p>The contributions of cell size and cell number to body size</p> <p>Sarah Schaack; Leigh Latta IV; Jesse Meik; Angela Omilian; Michael Lynch</p>	<p>When two genomes become one: adaptation following interspecific hybridization</p> <p>Caiti Smukowski Heil</p>	<p>Seed environment affects germination and flowering timing in <i>Mimulus guttatus</i></p> <p>Matthew Rubin; Jannice Friedman</p>
1:15 pm	<p>Higher rates of sex evolve during adaptation to more complex environments</p> <p>Pepijn Luijckx*; Eddie Ho; Majid Gasim; Suyang Chen; Connor Yanchus; Yun Seong Kim; Aneil Agrawal</p>	<p>Life-history divergence in response to ecological selection: a meta-analysis in livebearing fishes</p> <p>Michael Moore; Rüdiger Riesch; <b>Ryan Martin*</b></p>	<p>Comparing parallel clines of a polygenic iridescence trait in mimetic butterflies</p> <p>Emma Curran; Melanie Brien; Carolina Pardo-Diaz; Camilo Salazar; Roger Butlin; Nicola Nadeau</p>	<p>Thermoregulatory color plasticity of <i>Battus philenor</i> caterpillars is maintained in regions where it is not used</p> <p>Matthew Nielsen*; Daniel Papaj</p>
1:30 pm	<p>Mutation accumulation and gene conversion in obligately asexual <i>Daphnia</i></p> <p>Abraham Tucker; Michael Lynch; Nathan Keith</p>	<p>A meta-analytic review of maternal effect senescence theory</p> <p>Edward Ivimey-Cook; Jacob Moorad</p>	<p>Secondary metabolism and hybridization in sunflower</p> <p>Celine Caseys; Kenneth Whitney; Loren Rieseberg</p>	<p>Plasticity in ethanol tolerance along life stages in <i>Drosophila melanogaster</i></p> <p>Katherine O'Brien; Kristi Montooth</p>
1:45 pm	<p>The maintenance of asexual reproduction in complex natural environments</p> <p>Catherine Rushworth; Tom Mitchell-Olds</p>	<p>Pleiotropic regulation of flowering and seed traits: FLC orthologue PEP1 regulates seed dormancy and longevity in <i>Arabis alpine</i> (Brassicaceae)</p> <p>William Hughes</p>	<p>Topology of syngameons</p> <p>Willaim Boecklen*</p>	<p>From big to small and back again? Plasticity in egg size and number in a sacoglossan sea slug</p> <p>Serena Caplins</p>
2:00 pm	<p>Adaptive Gene-Drive: does meiosis facilitate a mechanism that can bias gene conversion in favor of existing (wildtype) alleles, and against newly arising mutations?</p> <p>Virgil Reese</p>	<p>Adaptive seasonal dynamics in <i>Drosophila melanogaster</i></p> <p>Emily Behrman; Alan Bergland; Dmitri Petrov; Paul Schmidt</p>	<p>The Avid Wooer: Is there hybridization between the Southern and California Dogface Butterflies?</p> <p>Jennifer Schwab; Brian Counterman</p>	<p>Thermal plasticity of floral color and reflectance: multigenerational effects?</p> <p>Elizabeth Lacey; Scott Richter</p>
Afternoon coffee break   2:15 – 2:45 pm				

MR9C	MR10A	MR10B	MR10C
Molecular ecology / genomics	Behavior / predation	Ecological genetics 3	Adaptation / molecular evolution 1
<p>Genetic structure and viability selection in the Golden Eagle (<i>Aquila chrysaetos</i>), a vagile raptor with a holarctic distribution</p> <p>Nadia Fernandez; Jacqueline Doyle; Todd Katzner; Gary Roemer; James Cain; Brian Millsap; Carol McIntyre; Sarah Sonsthagen; Maria Wheeler; Zafar Bulut; Peter Bloom et al.</p>		<p>The causes of fluctuating selection in red squirrels</p> <p>Andrew McAdam*; Murray Humphries; Ben Dantzer; Jeffrey Lane; Stan Boutin</p>	<p>Exaptation and the evolution of tetrodotoxin resistance in <i>Taricha newts</i></p> <p>Kristopher Pedersen</p>
<p>Population genomics reveals multiple drivers of population differentiation in a sex-role-reversed pipefish</p> <p>Sarah Flanagan*; Emily Rose; Adam Jones</p>	<p>Choosy cannibals preferentially consume siblings with low fitness prospects</p> <p>Matthew Dugas; Larkin McCormack; Alice Gadau; Ryan Martin</p>	<p>The genetic basis of local adaptation and fitness tradeoffs</p> <p>Christopher Oakley; Jon Ågren; Douglas Schemske</p>	<p>Adaptation to warmer climates by parallel molecular evolution</p> <p>John Monroe</p>
<p>Genetic characterization of unisexual <i>Aspidoscelis tessellata</i> and <i>A. dixonii</i></p> <p>Alexander Hall; James Cordes; James walker; Danielle Rivera; Matthew Fujita</p>	<p>Scared fitless: context-dependent response of fear to loss of predators over evolutionary time</p> <p>Kyle Elliott*; Ian Dworkin; Gustavo Betini; Ryan Norris</p>	<p>Effects of paternal and maternal stress in Poeciliids</p> <p>Amber Makowicz; Ralf Schneider; Julian Torres-Dowdall; Thomas Elbert; Axel Meyer</p>	<p>Adaptation via divergence in gene regulation along a temperature cline: cis and trans effects on HSP expression the copepod <i>Tigriopus californicus</i></p> <p>Sumaetee Tangwanchaoen*; Ron Burton</p>
<p>RADcap: Sequence capture of dual-digest RADseq libraries with identifiable duplicates</p> <p>Sandra Hoffberg; Travis Glenn; Julian Catchen; Brant Faircloth; Rodney Mauricio</p>	<p>Predation and resource availability shape the evolution of risk-taking behavior</p> <p>Matthew Singer; Spencer Gomez; Barrie Robison</p>	<p>Pleiotropic effects of Rps2 alleles in the absence of pathogen contribute to their long-term maintenance in <i>Arabidopsis thaliana</i></p> <p>Alice MacQueen; Xiaoqin Sun; Joy Bergelson</p>	<p>Adaptive convergence in hemoglobin function in high-altitude birds: roles of parallel and divergent substitutions</p> <p>Jay Storz; Chandrasekhar Natarajan; Federico Hoffmann; Roy Weber; Angela Fago; Christopher Witt</p>
<p>How to process 1500 RADseq samples in a week for \$6/sample</p> <p>Natalia Bayona Vásquez; Sandra Hoffberg; Brant Faircloth; Travis Glenn</p>	<p>Complex dynamics underlie the convergent evolution of imperfect Batesian mimicry among locally sympatric Neotropical Adelpha butterflies</p> <p>Susan Finkbeiner; Sean Mullen</p>	<p>Investigating the genetic basis of high altitude adaptation in Andean hummingbirds</p> <p>Marisa Lim; Christopher Witt; Catherine Graham; Liliana Davalos</p>	<p>Physiological resistance of garter snakes to toxic prey involves six genes in the voltage-gated sodium channel family</p> <p>Joel McGlothlin; Tyler Miller; John Abramyan; Wesley Warren; Michael Pfrender; Butch Brodie; Todd Castoe</p>
<b>Afternoon coffee break   2:15 – 2:45 pm</b>			

Monday, June 20 | 2:45 – 4:00 pm

(\* indicates session chair)

	Ballroom A	Ballroom B	Ballroom C
	SSB Spotlight: Next generation phylogenetic inference 2	Evolutionary ecology 2	Coevolution 1
2:45 pm	Hamiltonian Monte Carlo on the space of phylogenies Vu Dinh; <b>Arman Bilge</b> ; Frederick Matsen	Intraspecific variation in phenotypic and transcriptomic plasticity in <i>Tigriopus californicus</i> in response to salinity stress  Melissa DeBiasse; Morgan Kelly	Female meiotic drive promotes the coevolution of centromeres and suppressors in <i>Mimulus</i>  Findley Finseth*; Andrea Sweigart; Lila Fishman
3:00 pm	Bayesian analysis of continuous-time Markov chain parameters using Hamiltonian Monte Carlo  Tingting Zhao; Ziyu Wang; Alexander Cumberworth; Joerg Gsponer; Nando de Freitas; Alexandre Bouchard-Côté	Transgenerational plasticity in <i>Daphnia</i>  Nicole Hales	Coevolution of venom function and venom resistance in a rattlesnake predator and its squirrel prey  Matthew Holding; James Biardi; Lisle Gibbs
3:15 pm	Continually updated phylogenies Emily Jane McTavish; Mark Holder  Self-Updating Platform for the Estimation of Rates of Speciation, Migration And Relationships of Taxa (SUPERSMART) Rutger Vos  Fast coalescent-based computation of local branch support from quartet frequencies Siavash Mirarab; Erfan Sayyari	Life cycle, interrupted: the invasion of novel habitats uncouples haploid-diploid life cycles  Stacy Krueger-Hadfield; N. Kollars; J. Byers; T. Greig; M. Hamman; D. Murray; C. Murren; S. Shainker; A. Strand; R. Terada; F. Weinberger et al.	Age matters: the effects of host age on parasite infectivity, transmission and within-host competition  Rony Izhar; Frida Ben-Ami
3:30 pm	Nearest neighbors of phylogenetic time-trees  Alex Gavryushkin	Limits on the evolution of photosynthetic and stomatal traits: insights from artificial selection  Christina Caruso; Hafiz Maherali	The interplay between gene flow and metapopulation structure affects coevolutionary dynamics at the mutualism/antagonism interface  Paula Lemos-Costa; Ayana Martins; Marcus de Aguiar
3:45 pm	StarBEAST2 improves convergence and can infer per-species substitution rates  Huw Ogilvie; Alexei Drummond	The evolution of spawning strategies in broadcast spawners  Colin Olito*	The evolution of herbivore impact in novel plant-insect systems  Stephen Heard; Zoryana Shibel

**SSE Student-Faculty Mixer | 4:00 – 4:45 pm, Rotunda (level 1)**

**SSE awards announcements & Presidential Address – Kim Hughes | 4:45 – 5:45 pm, Ballroom ABC**

**SSE General Business Meeting | 5:45 – 6:45 pm, MR3**

**Poster session #3 | 5:45 – 7:45 pm, EH1 --- iEvoBio Software demos (see p. 96)**

**Outreach talk: Nathan Morehouse | 7:30 – 8:30 pm, MR5**

MR3	MR4	MR5	MR6A
Phylogenetic comparative methods	Comparative phylogeography 1	Systematics / species delimitation	Comparative biology 2
Coal-Map-2: Mapping the genomic architecture of adaptive traits with interspecific introgressive origin  Hussein Hejase; Kevin Liu	Comparative phylogeographic and population genomic inference under hierarchical multi-taxa co-divergence models  Alexander Xue*; Michael Hickerson	Genomic signatures of ancient introgression in darters (Percidae: Etheostominae)  Daniel MacGuigan; Thomas Near	Comparative miRNomes and transcriptomes reveal mechanisms of exceptional longevity in bats  Zixia Huang; David Jebb; Conor Whelan; Nicole Foley; Emma Teeling
Rodent ecomorphology in a phylogenetic framework  Luis Verde Arregoitia; Manuel Schweizer	Comparative population genomics of bird species from Indo-Burma and Sundaland using UCE markers and historical DNA  Haw Lim; Robert Fleischer; Robert Moyle; Frederick Sheldon; Michael Braun	Resolving species boundaries and relationships of <i>Lygus</i> plant bugs with RADseq  Joel Kits; Robert Footitt	Physiological mechanisms of high-altitude adaptation and plasticity of respiratory performance in deer mice  Graham Scott; Kevin Tate; Sajeni Mahalingam; Grant McClelland; Jay Storz; Zachary Cheviron
The influence of coloration and life-history on the evolution of prealternate molt in Parulidae  Ryan Terrill*; Jared Wolfe; Glenn Seeholzer	Contrasting evolutionary histories between birds of upland and floodplain forest in the Amazon  Michael Harvey; Alexandre Aleixo; Camila Ribas; Robb Brumfield	What the hellbender? SNP-based species delimitation in North America's largest salamander  David Weisrock*; Paul Hime; Steven Price; Shem Unger; Jeffrey Briggler; Amy McMillan; Michael Freake; Andrea Drayer; Mary Foley; Emily Lemmon	A comparative analysis of the carnivorous pitcher plant ( <i>Sarracenia sp.</i> ) microbiome  Jessica Stephens; Willie Rogers; Ron Determann; Russell Malmberg
The impact of (hyper)prior misspecification on phylodynamic studies  Jiansi Gao; Michael May; Bruce Rannala; Brian Moore	Evidence for shared refugia based on allele frequency gradients of genomic data among five alpine Alaskan small mammal species?  Melisa Olave; Qixin He; L. Lacey Knowles	Assessing ant taxonomy and hidden diversity using morphology and genetic data in the southern Atlantic Forest  Priscila Hanisch; Pablo D. Lavinia; Andrew V. Suarez; Dario Lijtmaer; Maurice Leponce; Carolina Paris; Pablo Tubaro	The relationship between viviparity and diversification among South American <i>Liolaemus</i> lizards  James Schulte*; Benjamin Gentile
Linking rainforest ecosystem services to species' traits  Rodrigo Cámara-Lere; <b>Haris Salsis-Lagoudakis</b>	Phylogeographic inference of historical forest refuges in the Southern Appalachian mountains  Ryan Garrick; Louis Zachos; Rodney Dyer; Jeffrey Oliver; Travis Glenn; Zakee Sabree	Species delimitation's new conceptual roots  Anthony Barley; Robert Thomson	Ecomorphological variation in the limbs of small-bodied "generalists:" a test case with voles  Jonathan Nations; Link Olson

SSE Student-Faculty Mixer | 4:00 – 4:45 pm, Rotunda (level 1)

SSE awards announcements &amp; Presidential Address – Kim Hughes | 4:45 – 5:45 pm, Ballroom ABC

SSE General Business Meeting | 5:45 – 6:45 pm, MR3

Poster session #3 | 5:45 – 7:45 pm, EH1 --- iEvoBio Software demos (see p.96)

Outreach talk: Nathan Morehouse | 7:30 – 8:30 pm, MR5

	MR6B	MR7	MR8	MR9AB
	Mitochondria	Life History / phenotypic plasticity	Hybridization 2	Phenotypic plasticity 4
2:45 pm	Mitochondrial epistasis and linkage disequilibrium in modern humans and related hominins  Daniel Sloan; Justin Havird; Peter Fields; Gregory Noe	Understanding the maintenance of polyphenism using lifetime reproductive success in a long-lived amphibian  Alycia Lackey*; Michael Moore; Howard Whiteman	Experimental evolution of a novel sex chromosome in a species with polygenic sex determination  Barret Phillips*; Eric Watson; Suzanne Edmands	Phenotypic plasticity in Midas cichlid opsin expression  Andreas Härer; Julian Torres-Dowdall; Axel Meyer
3:00 pm	Mitochondrial heteroplasmy and evolution in long and short lived bats  David Jebb; Andrea Locatelli; Nicole Foley; Sebastien Puechmaile; Emma Teeling	Evolutionary divergence in transgenerational plasticity  Matthew Walsh	RAD-Seq analysis of an intertidal goby <i>Chaetogobius annularis</i> uncovered stable hybrid population with novel genomic composition  Shotaro Hirase; Ayumi Tezuka; Atsushi Nagano; Wataru Iwasaki	The microbiota and host genotype contribute asymmetrically to transcriptional variation among larval threespine stickleback guts  Clayton Small; Kat Milligan-Myhre; Susan Bassham; Karen Guillemain; William Cresko
3:15 pm	Effects of experimental mismatching of mito-nuclear genotypes in <i>Drosophila</i>  Rebecca Vaught; Klaus Reinhardt; Ralph Dobler; David Clancy; Damian Dowling	The effects of social environment on male alternative life histories  Elizabeth Lange; Kimberly Hughes	An integrative approach to understanding hybrid zone movement and introgression in <i>Sphyrapicus</i> woodpeckers  Shawn Billerman; Matthew Carling	The consequences of complexity: How does organismal complexity affect canalization in the volvocine green algae?  Dinah Davison; Richard Michod
3:30 pm	Inefficient purifying selection and variation in functional constraint drives accelerated but heterogeneous accumulation of harmful mutations in asexual lineages of a freshwater snail  Joel Sharbrough; M. Luse; P. Cherukuri; E. Greimann; M. Lin; M. Zhang; J.L. Boore; J. Logsdon; M. Neiman	The role of changing reproductive synchrony in the population dynamics of wild great tits  Emily Simmonds; Ella Cole; Ben Sheldon; Tim Coulson	Love under cover of darkness: population genomics of central Texas cave and spring salamanders (Plethodontidae: Eurycea)  Andrew Corbin; Matthew Moseley; Drew Schield; Giulia Irene Pasquesi; Andrew Gluesenkamp; Todd Castoe; Paul Chippindale	Phenotypic plasticity in response to salinity environment in sailfin molly fish ( <i>Poecilia latipinna</i> )  Kelly Hogan*
3:45 pm	Genetic surfing, not allopatric divergence, explains spatial sorting of mitochondrial haplotypes in venomous coralsnakes  Jeffrey Streicher*; Jay McEntee; Laura Drzich; Daren Card; Drew Schield; Utpal Smart; Christopher Parkinson; Tereza Jezkova; Eric Smith; Todd Castoe	Evolutionary consequence of a change in life cycle complexity: A link between precocious development and evolution toward female-biased sex allocation in a hermaphroditic parasite  Emily Kasl; C. McAllister; H. Robison; M. Connior; W. Font; C. Criscione	Gene flow and mating system variation in the face of facultative asexuality  Martin Schilling	The evolution of robustness and the mode of phenotypic plasticity  Michael Whitlock; Rémi Matthey-Doret; Jeremy Draghi

**SSE Student-Faculty Mixer | 4:00 – 4:45 pm, Rotunda (level 1)**

**SSE awards announcements & Presidential Address – Kim Hughes | 4:45 – 5:45 pm, Ballroom ABC**

**SSE General Business Meeting | 5:45 – 6:45 pm, MR3**

**Poster session #3 | 5:45 – 7:45 pm, EH1 --- iEvoBio Software demos (see p.96)**

**Outreach talk: Nathan Morehouse | 7:30 – 8:30 pm, MR5**

MR9C	MR10A	MR10B	MR10C
Methods / techniques	Social systems / behavior	Ecological genetics 4	Adaptation / molecular evolution 2
<p>ASTRID: Fast, accurate species tree estimation with thousands of taxa</p> <p>Pranjal Vachaspati; Tandy Warnow</p>	<p>Social inheritance, social networks, and longevity in wild spotted hyenas</p> <p>Amiyaal Ilany; Kay Holekamp; Erol Akcay</p>	<p>Applying Fisher's Fundamental Theorem of Natural Selection: Empirical evaluation of a plant population's capacity for adaptation</p> <p>Amber Eule-Nashoba; Ruth Shaw</p>	<p>ADH adaptation in <i>Drosophila</i>: Testing a classic hypothesis with ancestral sequence reconstruction</p> <p>Mohammad Siddiq; Joe Thornton; David Loehlin; Kristi Montooth</p>
<p>Using dPCR to simultaneously quantify and genotype the amphibian-killing fungus</p> <p>David Rodriguez</p>	<p>Interpopulation effects on social fitness within groups of the social amoeba, <i>Dictyostelium discoideum</i></p> <p>Heather Votaw</p>	<p>Identifying mechanisms of copper tolerance in the yellow monkeyflower</p> <p>Annie Jeong; Kevin Wright; John Willis</p>	<p>The molecular evolution of a novel metazoan ion transporter</p> <p>Nick Mathers; Carol Eunmi Lee</p>
<p>Bayesian and RelTime methods produce similar time estimates</p> <p>Beatriz Mello Carvalho; Qiqing Tao; Sudhir Kumar</p>	<p>Evolutionary transitions towards eusociality in snapping shrimps</p> <p>Solomon T. C. Chak; J. Emmett Duffy</p>	<p>Genetic causes and fitness consequences of resistance to herbivory, flowering time variation and drought tolerance in <i>Boechera</i></p> <p>Julius Mojica; Jing Wang; Tom Mitchell-Olds</p>	<p>Comparative transcriptome sequencing reveals signatures of selection, small population size, and reticulate evolution in the evolutionary history of <i>Caulanthus amplexicaulis</i> var. <i>barbarae</i></p> <p>Angela Hawkins; Elyssa Garza; W. Daryl Hawkins; Alan Pepper</p>
<p>Performance of time estimation methods when rate models vary from clades to clades</p> <p>Qiqing Tao; Sudhir Kumar</p>	<p>Social inheritance and its consequences for social structure and behaviors</p> <p>Erol Akcay*; Amiyaal Ilany</p>	<p>Repeated adaptation to serpentine soils in <i>Mimulus guttatus</i></p> <p>Jessica Selby*; John Willis</p>	<p>Phenotypic convergence is mirrored at genes but not at mutations in anoles</p> <p>Russell Corbett-Detig*; Shelbi Russell; Rasmus Nielsen; Jonathan Losos</p>
<p>Evaluating the utility of Ks plots for detecting whole genome duplications</p> <p>George Tiley*; Michael Barker; J. Gordon Burleigh</p>	<p>Stochastic environments, rather than genetic relationship, select for social behavior: the fall of Hamilton's rule</p> <p>Kurt Heininger</p>	<p>Evidence for environmentally driven functional variation in gray wolves</p> <p>Rena Schweizer; Jacqueline Robinson; Bridgett vonHoldt; Ryan Harrigan; Pedro Silva; Marco Galaverni; Marco Musiani; David Coltman; Richard Green; John Novembre; Robert Wayne</p>	<p>Local adaptation without beneficial mutations: conditionally deleterious mutations and genomic signatures of selection</p> <p>Jon Mee; Sam Yeaman</p>
<p><b>SSE Student-Faculty Mixer   4:00 – 4:45 pm, Rotunda (level 1)</b></p> <p><b>SSE awards announcements &amp; Presidential Address – Kim Hughes   4:45 – 5:45 pm, Ballroom ABC</b></p> <p><b>SSE General Business Meeting   5:45 – 6:45 pm, MR3</b></p> <p><b>Poster session #3   5:45 – 7:45 pm, EH1 --- iEvoBio Software demos (see p. 96)</b></p> <p><b>Outreach talk: Nathan Morehouse   7:30 – 8:30 pm, MR5</b></p>			

	Ballroom A	Ballroom B	Ballroom C
	SSE Symposium: Co-evolving genomes: Cooperation and conflict in cytonuclear interactions 1	Evolutionary theory 1	Coevolution 2
9:00 am	Harmony vs. discord in relationships of heritable symbionts and their hosts  Nancy Moran; Becky Chong	When predators help prey adapt and persist in a changing environment  Matthew Osmond*; Sally Otto; Christopher Klausmeier	The genetic architecture of resistance to virus infection in <i>Drosophila</i>  Rodrigo Cogni; Chuan Cao; Francis Jiggins
9:15 am		Genetic diversity through allelic division of labour: a mathematical model of heterozygote advantage  Mattias Siljestam; Claus Rueffler	Wolbachia in the montium species subgroup of <i>Drosophila</i>  Brooke Peckenpaugh; Brandon S. Cooper; Paul Ginsberg; Michael Turelli
9:30 am	Functional and genomic consequences of mitonuclear coevolution during population divergence in a marine copepod  Felipe Barreto	The contrast between selection on fecundity versus interference: Grime's triangle and lottery models  Jason Bertram; Joanna Masel	Microbes influence the fitness of the generalist flour beetle <i>Tribolium castaneum</i>  Aparna Agarwal*; Deepa Agashe
9:45 am	Expression, selection, and co-evolution in mitonuclear genes  Justin Havird; Daniel Sloan	Cell cycle regulation, cell differentiation, and the evolution of multicellularity  Erik Hanschen; Richard Michod; Bradley Olson	Evo-devo of mimetic color diversification in bumble bees  Heather Hines; Li Tian; Sarthok Rahman; Briana Ezray
10:00 am	The efficacy of selection on mtDNA and implications for mitochondrial-nuclear coevolution  Jeffrey Adrion; Kristi Montooth	Exaptation-- an unneeded term in the science of form  Gregory Mayer	Unexpected Archaeal Diversity in the Great Ape Gut Microbiome  Kasie Raymann; Howard Ochman
Morning coffee break   10:15 – 10:45 am			



MR3	MR4	MR5	MR6A
Phylogenetic comparative methods/development	Comparative phylogeography 2	Systematics 1	Diversification
Phylogenetic comparative solutions applied to complex evolutionary scenarios  Henry Ferguson-Gow*; Andrew Meade; Chris Vendittit	Zoogeography of the San Andreas Fault system: Great Pacific Fracture Zones correspond with spatially concordant phylogeographic boundaries in western North America  Andrew Gottscho*	Phylogenetic relationships between the members of the genus <i>Notropis</i> (Family Cyprinidae)  Ryan Vazquez*; Llewellyn Densmore; Gene Wilde	Space, time, and host: Patterns of speciation in <i>Blepharoneura</i> fruit flies  Isaac Winkler*; Marty Condon; Sonja Scheffer; Andrew Forbes
Bayesian analysis of macroevolutionary mixtures (BAMM): A critical appraisal  Brian Moore; Sebastian Hoehna; Michael May; Bruce Rannala; John Huelsenbeck	Using natural experiments to explore correlates of genetic variation  Michael Dawson; Lauren Schiebelhut	Fully-sampled phylogenies of squamates reveal evolutionary patterns in threat status  João Filipe Tonini	Parallel phenotypic diversification and rapid speciation of <i>Crenicichla</i> species flocks: riverine analogs to the East African Great Lake cichlids  Edward Burrell; Oldřich Říčan; Lubomír Piálek; Jorge Casciotta; Milton Tan; Jonathan Armbruster
A new hierarchical Bayesian phylogenetic method for detecting shifts in rates of speciation and extinction along lineages  Michael May; Brian Moore; Sebastian Hoehna; Bruce Rannala; John Huelsenbeck	Continental synthesis of phylogeographic patterns in North American amphibians  Katharine Marske; Michael Borregaard; Carsten Rahbek; David Nogues-Bravo	Morphological evolution in neotropical Ariidae  Madlen Stange; Michael Matschiner; Gabriel Aguirre-Fernández; Walter Salzburger; Marcelo R. Sánchez-Villagra	The relative importance of competition and predation for adaptive radiation  Jiaqi Tan; Xian Yang; Meng-Hsiu Tsai; Lin Jiang
DisintegratoR: an upcoming R package for evaluating phylogenetic trees while accounting for non-independence of characters  William Gelnow	(Comparative phylogeography)^200: emergent patterns of genetic diversity across the Indo-Pacific Ocean  Libby Liggins; Eric D. Crandall; Cynthia Riginos; Michelle Gaither; Sean R. Connolly; Eric A. Trembl; Chris Bird; Loic Thibaut; Elizabeth Sbrocco; David Aguirre; Maria Beger et al.	Multidimensional niche evolution as a driver of diversification: phylogenetic insights from codistributed predatory robber flies (Asilidae: Lasiopogon)  Tristan McKnight; L. Lacey Knowles	Natural constraints to species diversification  Eric Lewitus; Hélène Morlon
Consensus trees & their suitability for macroevolutionary analysis  Liam Revell; Cristián Hernández Ulloa; Klaus Schliep	Testing for co-diversification in an ecological community: an example from the <i>Sarracenia alata</i> pitcher plant system  Jordan Satler; Bryan Carstens	Phylogenetics using genomic restriction-site-associated sequencing in <i>Camassia</i> and <i>Hastingsia</i> (Asparagaceae): inference from genera to subspecies  Jenny Archibald; Patrick Monaghan; Karen Olson; Susan Kephart; Kathryn Theiss	Adaptive radiation of Batesian mimetic butterflies across a tropical archipelago  David Lohman; Chia-Hsuan Wei; Dylan Scott; Djunijanti Peggie; Krushnamegh Kunte; Tenzing Doleck; Elva Yang; Susan Tsang; Chris Müller; Shen-Horn Yen
Morning coffee break   10:15 – 10:45 am			

	MR6B	MR7	MR8	MR9AB
	Mutation 1	Bioinformatics	Species delimitation	Microbes
9:00 am	<p>Whole-genome mutagenesis under long-term antibiotic exposure in <i>E. coli</i></p> <p>Hongan Long*; Sam Miller; Chloe Strauss; Chaoxian Zhao; Lei Cheng; Zhiqiang Ye; Katie Griffin; Ronald Te; Heewook Lee; Chi-Chun Chen; Michael Lynch</p>	<p>Molecular evolution of hemichordate toll-like receptors and their associated pathways</p> <p>Michael Tassia; Kenneth Halanych</p>	<p>Predicting cryptic diversity from phylogeographic, climatic and taxonomic data</p> <p>Anahí Espíndola; Megan Ruffley; Megan Smith; David Tank; Bryan Carstens; Jack Sullivan</p>	<p>Mating alters the gut microbiome in a gift-giving insect</p> <p>Chad Smith; Srygley Robert; Emma Dietrich; Ulrich Mueller</p>
9:15 am	<p>Spontaneous mutations in the field: GxE for fitness from germination to fruit production in <i>Arabidopsis thaliana</i></p> <p>Angela Roles; Matthew Rutter; Ian Dworkin; Charles Fenster; Jeffrey Conner</p>	<p>Inferring rates of phage transmission from the host phylogeny</p> <p>Jason Shapiro; Catherine Putonti</p>	<p>Gene flow and species limits among Olympic, Vancouver Island, and hoary marmots: a 21-gene salute</p> <p>Kathryn Everson; Jonathan Nations; Link Olson; Mahaut V. Sorlin</p>	<p>Development of gnotobiotic stickleback model to examine host-microbe evolution</p> <p>Kat Milligan-Myhre</p>
9:30 am	<p>The industrialization of farming may be driving virulence evolution</p> <p>Carly Rozins; Troy Day</p>	<p>Population dynamics of maternal selfish genetic factors, specifically Maternal-Effect Dominant Embryonic Arrest (MEDEA)</p> <p>Catherine Rogers</p>	<p>The prokaryotic species problem</p> <p>Louis-Marie Bobay; Howard Ochman</p>	<p>Scaling of biodiversity - variation in fish microbiomes among and within host species, populations and individuals</p> <p>Hanna Berggren; Stina Israelsson; Petter Tibblin; Oscar Nordahl; Per Larsson; Jarone Pinhassi; Anders Forsman</p>
9:45 am	<p>Conserved rates and patterns of transcription errors across bacterial growth states and lifestyles</p> <p>Charles Traverse; Howard Ochman</p>	<p>FINGERPRINT: Computational filtering of targeted sequences from environmental contaminants</p> <p>Michael Rosenberg</p>	<p>Patterns of speciation and delimitation of populations, species, and genomic adaptations across widely-distributed North American rattlesnake lineages</p> <p>Drew Schield*; Richard Adams; Daren Card; Blair Perry; Tereza Jezkova; Audra Andrew; Giulia Irene Pasquesi; Stephen Mackessy; Todd Castoe</p>	<p>Molecular evolution of obligate bacterial symbionts in sharpshooter leafhoppers (Hemiptera: Cicadellinae)</p> <p>Gordon Bennett*</p>
10:00 am	<p>Lessons from 200,000 <i>Arabidopsis</i> phenotypes: the power of unPAK</p> <p>Matthew Rutter; Courtney Murren; Allan Strand; Hilary Callahan; Michael Wolyniak; April Bisner</p>	<p>Unrecognized diversity of Hemerythrins in Annelida</p> <p>Elisa Paiva; Nathan Whelan*; Damien Waits; Scott Santos; Antonio Sole-Cava; Kenneth Halanych</p>	<p>One kingfisher, two kingfisher, red kingfisher, blue kingfisher: using RADseq to describe the species status of the Oriental dwarf kingfisher</p> <p>Alana Alexander; Joseph Manthey; Frederick Sheldon; Robert Moyle</p>	<p>What's in a tortoise nose? Microbial patterns across space</p> <p>Chava Weitzman; Franziska Sandmeier; C. Richard Tracy</p>
Morning coffee break   10:15 – 10:45 am				

MR9C	MR10A	MR10B	MR10C
Competition	Sexual selection 1	Evolutionary theory / behavior	Host-parasite 1
<p>The role of selection in niche differentiation among sympatric monkeyflowers along an elevation gradient</p> <p>Nicholas Kooyers*; Brooke James; Benjamin Blackman</p>	<p>Determining Genomic Signatures of Sexual Selection in Primates Utilizing Sex Hormone Response Elements</p> <p>Andrew Anderson; Adam Jones</p>	<p>Can microbes explain the evolution of host altruism?</p> <p>Ohad Lewin-Epstein; Ranit Aharonov; Lilach Hadany</p>	<p>Alternate hosts influence genetic co-structure between <i>Peromyscus maniculatus</i> and an ectoparasite across the California Channel Islands</p> <p>Paul Durst; V. Louise Roth</p>
<p>Long-term social dynamics drive loss of function in pathogenic bacteria</p> <p>Sandra B. Andersen; Rasmus Lykke Marvig; Molin Søren; Helle Krogh Johansen; Ashleigh S. Griffin</p>	<p>Impact of Mating System Evolution on Genomic Variation in Mice</p> <p>Sara Keeble; Brice Sarver; Colin Callahan; Jeff Good; Matthew Dean</p>	<p>Learning to cooperate: The evolution of social rewards in repeated interactions</p> <p>Slimane Dridi; Erol Akcay</p>	<p>A Neutral Model for the Evolution of Specialization</p> <p>Matthew Forister; Stephen Jenkins</p>
<p>Is bacteriocin production plastically induced by the presence of a competitor?</p> <p>Amrita Bhattacharya; Hannah Pak; Farrah Bashey-Visser</p>	<p>Comparative sperm proteomics in mouse species with divergent mating systems</p> <p>Kirill Borziak*; Steve Dorus</p>	<p>Boastful offspring and neglectful parents: Ecology and parent-offspring communication in birds</p> <p>Shana Caro</p>	<p>The impact of male-female differences on pathogen fitness</p> <p>Stephen Gipson; Matt Hall</p>
<p>Pervasive frequency-dependence effects in <i>Caenorhabditis elegans</i> competitions</p> <p>Sara Santos; Ana Paula Marques; <b>Ivo Chelo</b></p>	<p>The baculum (penis bone) was gained and lost multiple times during mammalian evolution</p> <p>Nicholas Schultz; Michael Lough-Stevens; Eric Abreu; Teri Orr; Matthew Dean</p>	<p>Trait Continuity Affects a Model of Song Evolution</p> <p>Eleanor Brush</p>	<p>Natural selection on disease transmission helps explain boom-bust population cycles in the gypsy moth and its virus pathogen</p> <p>David Paez*; Vanja Dukic; Jonathan Dushoff; Arietta Fleming-Davies; Greg Dwyer</p>
<p>Fluctuations-induced coexistence in public goods dynamics</p> <p>Hilla Behar</p>	<p>The evolution of genital complexity and mating rates in size dimorphic spiders</p> <p>Matjaz Kuntner; Ren-Chung Cheng; Simona Kralj-Fišer; Chen-Pan Liao; Jutta Schneider; Mark Elgar</p>	<p>Sensitive periods and the ontogenetic shape of behavioral plasticity</p> <p>Kim Hoke; Andrew Barron; Hauber Mark; Michael Kopp; <b>Jeremy Van Cleve*</b></p>	<p>Galapagos mockingbirds lose tolerance to introduced nest parasites in dry years</p> <p>Sabrina McNew; Graham Goodman; Ashley Saulsberry; Angela Hansen; John Jackson; Dale Clayton</p>
Morning coffee break   10:15 – 10:45 am			

	Ballroom A	Ballroom B	Ballroom C
	SSE Symposium: Co-evolving genomes: Cooperation and conflict in cytonuclear interactions 2	Evolutionary theory 2	Coevolution 3
10:45 am	Mutation accumulation and adaptation within the mitochondria: case studies from <i>Drosophila</i>  Damian Dowling	Experimental adaptation under UV radiation: a case for multi-level adaptation  Maria Rebolleda-Gomez; Michael Travisano	Co-evolution of endogenous retroelements and zinc finger proteins in vertebrates  Marjan Barazandeh
11:00 am		Experimental Evolution of Drift Robustness in Digital Organisms  Thomas LaBar; Christoph Adami	Tip of the Iceberg: Spectacular and Unprecedented Genome Diversity in Obligate Endosymbionts of Cicadas  Chris Simon; Russell Meister; Elizabeth Wade; David Marshall; Christopher Owen; Kathy Hill; Emily Lemmon; Alan Lemmon; John McCutcheon
11:15 am	The contribution of cytonuclear incompatibility to incipient speciation: rapid organelle evolution and biparental inheritance as opposing forces  Karen Barnard-Kubow; Laura Galloway	Evolutionary capacitance emerges spontaneously during adaptation to environmental changes  Paul Nelson*; Joanna Masek	Coevolution of predator prey behavior modeled using artificial neural networks  David Streett; Terence Soule; Barrie Robison
11:30 am	Cell biological and evolutionary dynamics of the mitochondrial genome  Maulik Patel	Testing an assumption of monophyly in a group that supports punctuated equilibrium  Michael Gemmell; Mary Morgan-Richards; Steve Trewick; Simon Hills	Disentangling diet and phylogeny reveals both horizontal and vertical evolution of mammalian microbiomes  Mathieu Groussin; Florent Mazel; Jon Sanders; Chris Smillie; Sebastien Lavergne; Wilfried Thuiller; Eric Alm
11:45 am	Mitonuclear ecology  Geoffrey Hill  <b>11:45 am - 12:15 pm</b>	Murphy's Law in phylogenetics and beyond  Mike Steel	Metapopulation dominance and genomic-island acquisition of Bradyrhizobium with superior catabolic capabilities  Joel Sachs*
Lunch   12:00 noon – 1:30 pm			

MR3	MR4	MR5	MR6A
Phylogenetic methods	Paleontology	Systematics 2	Diversification / macroevolution
<p>An empirical assessment of model performance tests in phylogenetics</p> <p>Emilie Richards; Anthony Barley; Jeremy Brown; Becky Chong; <b>Robert Thomson</b></p>	<p>Phylogenetic evidence for adaptive radiation and elevated morphologic rates among stem lineage fossil crinoids (Echinodermata)</p> <p>David Wright</p>	<p>Using sequence capture of UCEs for intraspecific phylogenetics and species delimitation of a large-genome salamander, <i>Plethodon serratus</i></p> <p>Catherine Newman*; Christopher, Austin</p>	<p>High rates of species accumulation in animals with bioluminescent courtship displays</p> <p>Emily Ellis; Todd H. Oakley</p>
<p>New methods for species tree estimation (ASTRAL, ASTRID, and statistical binning)</p> <p>Tandy Warnow*; Siavash Mirarab; Pranjal Vachaspati; S. Md. Bayzid; Bastien Boussau</p>	<p>Out of the Antilles: Fossil phylogenies support reverse colonization to South America</p> <p>Liliana Davalos*; Jonah Rothleder; Valeria Tavares</p>	<p>Testing for hidden histories of gene flow in highland birds using genomic markers</p> <p>John McCormack; Eugenia Zarza; Brant Faircloth; Whitney Tsai; Robert Bryson; John Klicka</p>	<p>Total-evidence analyses support a Cretaceous origin of Telluraves</p> <p>Nicholas Crouch; Karolis Ramanauskas</p>
<p>Dealing with phylogenomic data with an intuitive index of informativeness from invertebrates to vertebrates</p> <p>Hernan Vazquez Miranda; Emily Lemmon; Keith Crandall; Alan Lemmon; Heather Bracken-Grisson</p>	<p>New approaches to maximum likelihood phylogenetics using morphological data</p> <p>Liam Heins</p>	<p>Names can be deceiving: how epithets sometimes complicated our understanding of diversity</p> <p>Lukas Musher; Joel Cracraft</p>	<p>Exceptional preservation and the fossil record of tetrapod integument</p> <p>Julia Clarke*; Chad Eliason; Leah Hudson; Hector Garza; Taylor Watts</p>
<p>Tree-based networks</p> <p>Maria Anaya; Olga Anipchenko-Ulaj; Aisha Ashfaq; Joyce Chiu; Mahedi Kaiser; Max Shoji Ohsawa; Megan Owen; Ella Pavlechko; <b>Katherine St. John</b>; Shivam Suleria; Keith Thompson et al.</p>	<p>Combined analysis of extant Rhynchonellida (Brachiopoda) using morphological and molecular data</p> <p>David Bapst; Sandra Carlson; Holly Schreiber</p>	<p>A preliminary phylogeny of Emerald Moths (Lepidoptera: Geometridae) using anchored enrichment</p> <p>David Plotkin; Akito Kawahara; Jesse Breinholt</p>	<p>'Running colors': Evolution of long-term coloration trends with biochemically unstable ingredients</p> <p>Erin Morrison; Dawn Higginson; Virginia Belloni; Alexander Badyaev</p>
<p>Able was I ere I saw assembly errors</p> <p>Brant Faircloth</p>	<p>Old continent, young fauna: Molecular evidence for a mid-Tertiary turnover in Australian squamates</p> <p>Paul Oliver; Andrew Hugall</p>	<p>Cancelled</p>	<p>Genetic diversification decoupled with morphological diversification</p> <p>Liza Gómez Daglio; Michael Dawson</p>
<p><b>Lunch   12:00 noon – 1:30 pm</b></p>			

	MR6B	MR7	MR8	MR9AB
	Mutation 2	Bioinformatics / comparative methods	Conservation biology	Experimental evolution / microbes
10:45 am	<p>The role of mutation bias in the evolution of mutation rate</p> <p>Ricardo Azevedo; Bingjun Zhang</p>	<p>Towards an evolutionary map of the cell</p> <p>Benjamin Liebeskind*; Claire McWhite; Edward Marcotte</p>	<p>Evolutionary Rescue through Assisted Gene Flow: Phenology Makes it Complicated</p> <p>Arthur Weis; Susana Wadgymar; Colin Bonner</p>	<p>When Sensing is Gambling: An Experimental System Reveals how Plasticity can Generate Tunable Bet-Hedging Strategies</p> <p>Colin Maxwell; Paul Magwene</p>
11:00 am	<p>Mutation accumulation in lab yeasts</p> <p>David Hall</p>	<p>Automated workflows for building time-calibrated phylogenies for comparative analyses using Arbor</p> <p>Josef Uyeda</p>	<p>Evaluating the status of the critically endangered northern white rhino using the recently sequenced genome - how much is left to save?</p> <p>Tate Tunstall; Cynthia Steiner; Richard Kock; Jiri Vahala; Oliver Ryder</p>	<p>Social dynamics in bacterial populations</p> <p>Melanie Ghoul</p>
11:15 am	<p>Consistency and Idiosyncrasy in the <i>C. elegans</i> mutational process</p> <p>Reza Farhadifar; Jose Miguel Ponciano; Erik Andersen; Daniel Needleman; <b>Charles Baer*</b></p>	<p>Investigating flavonoid pathway evolution across angiosperms using bioinformatics, phylogenetics, and network analysis</p> <p>Andrea Berardi; Stacey Smith; Aaron Clauset</p>	<p>Captive breeding has long term demographic and genetic effects for wild populations</p> <p>Janna Willoughby; Mark R. Christie</p>	<p>Adaptation to fluctuating selection for biofilm formation and planktonic growth</p> <p>Caroline Turner; Sean Buskirk; Katrina Harris; Nathan Phillips; Vaughn Cooper</p>
11:30 am	<p>Cancelled</p>	<p>Rphenoscape: Connecting the semantics of evolutionary morphology to comparative phylogenetics</p> <p>Hilmar Lapp; Hong Xu; James Balhoff</p>	<p>Sexual extinction in threatened plant species</p> <p>Mary Ashley*</p>	<p>What can we learn from experimental evolution?</p> <p>Katherine Liu</p>
11:45 am	<p>Fitness effects of mutations depend on gene class</p> <p>Peter Lind</p>	<p>Super-ordination—a simple method to build consensus from alternative (morphometric, taxonomic, genetic, etc.) ordinations</p> <p>Thomas DeWitt</p>	<p>Genomic consequences of population decline and recovery in the Pinzón Island Galápagos Tortoise</p> <p>Evelyn Jensen; Adalgisa Caccone; Michael Russello</p>	<p>Predicting Life's Tape</p> <p>Eric Libby*</p>
Lunch   12:00 noon – 1:30 pm				

MR9C	MR10A	MR10B	MR10C
Ecology	Sexual selection 2	Inbreeding	Host-parasite 2
Modeling and understanding four millennia of human-resource dynamics in a North Pacific ecosystem  Nancy Huntly; Colby Tanner	Female-female aggression in a sexual/unisexual species complex over resources  Ingo Schlupp*; Amber Makowicz; Ingo Schlupp	The importance of population size: Increased genetic load and faster ageing in small populations  Jennifer Lohr*; Christoph Haag	Evolutionary history between a group of doves and their parasitic wing lice  Andrew Sweet; Kevin Johnson
Trait-based ecology at regional scales needs an evolutionary context  Timothy Moore; Carl Schlichting; Matthew Aiello-Lammens; Kerri Mocko; Cynthia Jones	Food over sex: Resource competition underlies fitness effects of group sex ratio  Deepa Agashe; Imroze Khan; Arun Prakash; Swastika Issar; Mihir Umarani; Prakash Lama; N M Jagadeesh; Radhika Venkatesan	Inbreeding depression and multiple paternity in a wild population of a simultaneously hermaphroditic freshwater snail  Anja Buerkli; Jukka Jokela	Explaining vicariance on the African continent by making use of the phylogeographic genetic structure obtained for a generalist ecotoparasitic tick, <i>Hyalomma truncatum</i>  Conrad Matthee; Francis Sands; Sonja Matthee; Dmitry Apanaskevich
Searching for keystone communities: Evidence from Protist metacommunities  Emlyn Resetarits*; Bertrand Fournier; Mathew Leibold	Sex-specific consequences of a novel environment on sexually selected traits  Pablo Allen; Christine Miller	Influence of kinship and inbreeding on the gut microbiome of a hindgut-fermenting tortoise  Michael Yuan; Samantha Dean; Ana Longo; Betsie Rothermel; Tracey Tuberville; Kelly Zamudio	Evolution of teleost adaptive immunity: characterization of the melano-macrophage center and parasite-induced immunoregulation  Natalie Steinel; Daniel Bolnick
Linking the continental migratory cycle of the monarch butterfly to understand its population decline  Hidetoshi Inamine; Stephen Ellner; James Springer; Anurag Agrawal	Comparing phenotype networks across barn swallow populations: sexual selection and phenotypic integration  Matt Wilkins; Daizaburo Shizuka; Rebecca Safran	Can population estimation enhance kin recognition for inbreeding avoidance and nepotism?  Mitchel Daniel; Helen Rodd	Parasites may develop synchronously—or not—can we tell the difference?  Megan Greischar*; Sarah E. Reece; Nicholas J. Savill; Nicole Mideo
Experimental tests for thermal local adaptation and heritable phenotypic plasticity in hatching timing by sockeye salmon using a common garden approach  Morgan Sparks; Peter Westley; Jeff Falke; Thomas Quinn	Finding beauty in the eyes of the beholders: Mate choice and color vision in the family Poeciliidae  Ben Sandkam; Felix Breden	Conservation implications of relatedness, deformity, and reproductive skew in the hatchery stock of greenback cutthroat trout  Sierra Love Stowell; Christopher Kennedy; Andrew Martin	Genetic relatedness and metapleural gland activity influencing disease resistance in acorn ants  Svjetlana Vojvodic
<b>Lunch   12:00 noon – 1:30 pm</b>			



## Tuesday, June 21 | afternoon

### Awards symposium

Ballroom ABC

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**1:30 ASN Jasper Loftus-Hills Young Investigator Prize & Ruth Patrick Student Poster Award announcements**

Mark McPeck

**1:45 Young Investigator Prize talk**

*Cultural inheritance of foraging skills in great tits, Parus major*

Lucy Aplin

**2:15 Young Investigator Prize talk**

*Experimental and statistical approaches to understanding the processes driving parallel evolution*

Susan Bailey

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**2:45 Coffee break**

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**3:15 Young Investigator Prize talk**

*Macroecology across deep time*

Matthew Pennell

**3:45 Young Investigator Prize talk**

*The rates and effects of mutations are altered by multiple types of genomic variation*

Nathaniel Sharp

**4:15 SSE Dobzhansky Prize announcement**

Kim Hughes

**4:20 Dobzhansky Prize talk**

*A multidisciplinary perspective on the evolution of avian eggs*

Mary Stoddard

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## iEvoBio Lightning session

MR9C, 1:30 – 2:45 pm

- |      |  |
|------|--|
| 1:30 | <i>Integrating machine learning, structural modeling and phylogenetics to reconstruct molecular function on a grand scale</i><br>Bryan Kolaczkowski      |
| 1:37 | A simulation-based approach to learning about host-parasite biogeography: Distinguishing between phylogenetic and geographic processes<br>Jeet Sukumaran |
| 1:44 | PhyloNet-HMM: A comparative genomic framework for detecting introgression in Eukaryotes<br>Kevin Liu   |
| 1:51 | <i>SLiM 2.0: Flexible, interactive forward genetic simulations</i><br>Benjamin Haller  |
| 1:58 | <i>Coal-Map-2: A tool for mapping the genomic architecture of adaptive traits</i><br>Hussein Hejase  |
| 2:05 | TreeScaper: Software to visualize and extract phylogenetic signals from sets of trees<br>Guifang Zhou  |
| 2:12 | <i>Trait-dependent dispersal models for phylogenetic biogeography, in the R package BioGeoBEARS</i><br>Nicolas Matzke                                    |
| 2:19 | <i>Aligning multiple incongruent phylogenies with the Euler/X toolkit</i><br>Nico Franz  |
| 2:26 | <i>Arbor workflows: Recruiting contributors to new software</i><br>Bob Thacker   |
| 2:33 | <i>SensiPhy: an R-package for sensitivity analysis of phylogenetic comparative methods</i><br>Gijsbert Werner  |

**Super Social** – drinks, dinner & socializing (DJ & dancing later in the evening)

**Palmer Events Center**, 6:00 pm - midnight

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## Wednesday, June 22

### iEvoBio satellite meeting ('Unconference')

MR9, 9:00 am – 3:30 pm

<b>9:00</b>	Opening comments
<b>9:15</b>	Birds-of-a-feather (BoF) topics & voting
<b>10:00</b>	<b>Coffee break</b>
<b>10:30</b>	First BoF discussions
<b>11:30</b>	BoF summaries
<b>12:00</b>	<b>Lunch</b>
<b>1:15</b>	Panel discussions
<b>2:15</b>	BoF organizing
<b>2:30</b>	Second BoF discussions (and coffee)
<b>3:00 - 3:30</b>	Wrap-up

Footnote for Monday, June 20:

### iEvoBio Software demo

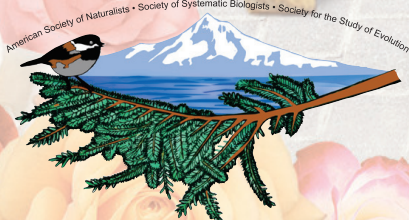
EH1, 5:45 – 7:45 pm

Software title	Authors
NeOGen-Power	Blower, D.; Riginos, C.; Ovenden, J.
SLiM 2.0: Flexible, interactive forward genetic simulations	Haller, Benjamin C.; Messer, Philipp W.
MINOTAUR	Verity, R.; Collins, C.; Card, D.C.; Schaal, S.M.; Wang, L.; Lotterhos, K.E.
phangorn 2: New trees in the phylogenetic forest	Schliep, Klaus; Paradis, Emmanuel; Potts, Alastair
Open Tree of Life	Allman, J.F., Brown, J.W., Cranston, K.A., Hinchliff, C., Holder, M.T., Leto, J., McTavish, E.J., Rees, J.A., Smith, S.A.
BuddySuite	Bond, Stephen R.; Keat, Karl E.; Baxevanis, Andreas D.
ipyrad: interactive assembly and analysis of RAD-seq data sets	Eaton, Deren, A.R.; Overcast, Isaac
BioGeoBEARS	Matzke, Nicholas J.
ASTRID: Fast, Accurate Species Tree Estimation with Thousands of Taxa Evolutionary Morphology, computable: The Phenoscape KB	Vachaspati, Pranjal; Warnow, Tandy
Evolutionary Morphology, computable: The Phenoscape KB	Balhoff, J.P.; Manda, P.; Mao, C.; Zhang, L.; Xu, H.; Dececchi, Alexander, T.; Vision, T.J.; Mabee, P.M.; Lapp, H.

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# Posters

## Session 1: Saturday, June 18

5:45 - 7:45 pm, Exhibit Hall 1 (EH1). **Bold** denotes presenter when not first author.

Adaptation	
1	Can we predict how hosts will react to changing biodiversity based on current selection pressures on genes in tropical areas? Rosemarie Herbert; Elizabeth McGraw
2	Interspecific variation in plumage brightness in relation to light environment among antbirds Rafael Marcondes; Gustavo Bravo; Robb Brumfield
3	Constraints on cold tolerance and hardening limit the distribution of <i>Aphaenogaster picea</i> (Formicidae) at its northern range boundary Andrew Nguyen; Jordan Zitnay; M.Brown; Sara Helms Cahan; Nicholas J. Gotelli; Amy Arnett; Aaron Ellison
4	Functionality of the spotted salamander egg mass polymorphism Matthew Pintar; William J. Resetarits Jr.
5	Phenotypic variation, epigenetic variation, and local adaptation in an asexual animal Mark Smithson
6	Variation in chlorophyll fluorescence, circadian rhythms and ecophysiological traits in <i>Arabidopsis thaliana</i> RILs under light stress Yulia Yarkhunova; Carmela Rosaria Guadagno; Matthew Rubin; Brent Ewers; Cynthia Weinig
Behavior	
7	Exposure to male calling song accelerates shift from dispersal to reproduction in female sand crickets Lauren Conroy; Derek Roff
8	Does allopreening control avian ectoparasites? Graham Goodman; Scott Villa; Dale Clayton
9	When opportunity knocks: Brain activity patterns in a social climber Sean Maguire; Hans Hofmann
10	Male preference for male calling song in the Pacific field cricket, <i>Teleogryllus oceanicus</i> Rachel Olzer; Marlene Zuk
11	Stress and cognition: an improvement on a new learning assay Kelly Wallace; R. Ian Etheredge; Matthew Armstrong; Molly Cummings
Biogeography	
12	Looking in the past to understand the present: glacial refugia and post-glacial recolonization of North America by the spadefoot toads Iulian Gherghel; Ryan Martin
13	Niche conservatism or divergence: a comparison of distribution models across a clade of pine species native to the eastern United States Constance Bolte; Daniel J. McGarvey; Andrew Eckert
14	Phylogenetically clumped species composition of marine green algae (Chlorophyta) in the temperate zone Hungyen Chen; Satoshi Nagai

Bioinformatics	
15	Novel method for transposable element annotation across multiple taxa Austin Osmanski; Roy Platt; David Ray; Llewellyn Densmore
16	A targeted resequencing approach facilitates annotation of polymorphic TE insertions in <i>Drosophila</i> genomes Shuo Zhang; Erin Kelleher
17	Variation and Inbreeding depression in <i>C. remanei</i> Paula Adams; Janna Fierst; Patrick Phillips; Anna Crist
18	A bioinformatics pipeline for processing and evaluating Anchored Phylogenomics data. Kirby Birch; Alan Lemmon; Ameer Jalal
Coevolution	
19	How does species abundance affect coevolution in mutualistic networks? Lucas Medeiros; Paulo Roberto Guimarães Jr.
20	Resistance in <i>Daphnia</i> ; insights from the range of host susceptibilities Sigal Orlansky; Frida Ben-Ami
21	Molecular dynamics and phenotypic divergence in a postcopulatory reproductive interaction in the butterfly <i>Pieris rapae</i> Melissa Plakke; Camille Meslin; Kelly Dulin; Breanna Goetz; Aaron Deutsch; Nathan Clark; Nathan Morehouse
22	smithRNAs: could mitochondria ‘bend’ nuclear regulation? Andrea Pozzi; Fabrizio Ghiselli; Marco Passamonti
23	Experimental coevolution and the origin of biodiversity Carina Baskett; Alita Burmeister; Luis Zaman; Justin Meyer; Chris Takahashi
24	Preliminary evidence for a coevolutionary dynamic between Gulf Fritillary ( <i>Agraulis vanillae</i> ) and Purple Passionflower ( <i>Passiflora incarnata</i> ) Nicholas Batora; Rodney Mauricio
25	The effect of style length and floral morphology on the reproductive success of the yucca moths ( <i>Tegeticula</i> spp. Lepidoptera: Perdoxidae) in a Joshua tree ( <i>Yucca brevifolia</i> : Agavaceae) hybrid zone Jackson Waite-Himmelwright; Chris Smith
Comparative phylogeography	
26	Inferring responses to climate dynamics from historical demography in neotropical forest lizards Ivan Prates; Alexander Xue; Jason Brown; Diego Alvarado-Serrano; Miguel Rodrigues; Michael Hickerson; Ana Carnaval
27	Phylogeography of two broadly overlapping to minnow species using GBS SNPs. David Duvernell; Jacob Schaefer
28	Mechanisms of diversification in west African rainforest amphibians and reptiles Matthew Fujita; Adam Leache; Daniel Portik
Conservation Biology	
29	Exploring novel tools for island conservation through the mating and assessment of wild and laboratory mouse strains Megan Serr

30	The imperiled fish fauna in the Nicaragua Canal Zone Andreas Härer; Julian Torres-Dowdall; Axel Meyer
31	50 Years of integrative biological and conservation research in Madagascar Rachel Williams; Anne Yoder; Erin Ehmke
<b>Development</b>	
32	Host adapted microbes drive normal gut development in the cockroach <i>Periplaneta americana</i> Ben Jahnes; Sema Osman; Marie Asao; Noelle Beckman; Zakee Sabree
33	Gene co-expression network analysis during chicken epidermal embryogenesis Weier Bao; Matthew Greenwold; Roger Sawyer
34	The genetic basis for gas bladder evolution in ray-finned fishes Emily Funk
<b>Disease</b>	
35	Antagonistic pleiotropy in polymorphic disease alleles Hanna Bellafard; Ashley Vo; Ashley Carter
36	iReceptor: Bioinformatic platform for storing and sharing Next Generation Sequencing (NGS) data from immune repertoires Felix Breden; Nishanth Marthandan; Bojan Zimonja; Jerome Jaglale; Brian Corrie; Jamie Scott
37	The effect of maternal obesity on offspring in mice Madeline Keleher; James Cheverud
<b>Diversification</b>	
38	Fossils matter: revising divergence times in <i>Pinus</i> reveals older diversification Bianca Saladin; Andrew, B. Leslie; Rafael O Wueest-Karpati; Glenn Litsios; Nicolas Salamin; Elena Conti; Niklaus Zimmermann
39	Tracking diversification dynamics in mature and emerging digital ecosystems Erik Gjesfjeld; Jonathan Chang
40	Ecology of diversification across islands and continents Antonin Machac
<b>Education</b>	
41	Introducing the paper box to increase student understanding of primary literature Heather Lerner
42	EvoED Digital Library: SSE's education resource Richard Kliman; Luana Maroja; <b>Samantha Price</b> ; Robert Thomson; James Smith
43	The best instrument may not be the most fit: applying measurement standards to evolution education assessments Kathryn Schwartz; Cory Kohn; Alexa Warwick; Ross Nehm; Louise Mead
44	Comparing human and machine learning scoring of open-ended responses about natural selection Michael Wiser; Cory Kohn; Louise Mead; James Smith; Robert Pennock



45	Addressing potential conflict between students' religious beliefs and evolution: instructor attitudes, practices, and barriers Elizabeth Barnes; Sara Brownell
46	Identifying visual approaches to tree-thinking Kristy Daniel; E. Austin Leone; Oleg Komogortsev; Evgeny Abdulin
47	Math Integration does not effect evolution content learning in a freshman biology course Avis James
<b>Evolutionary ecology</b>	
48	Habitat fragmentation drives rapid female genital diversity Christopher Anderson; Brian Langerhans
49	Seasonal change in <i>Drosophila melanogaster</i> innate immunity Emily Behrman; Virginia Howick; Fabian Staubach; Alan Bergland; Dmitri Petrov; Brian Lazzaro; Paul Schmidt
50	The genome wide distribution of ancestral and derived variants in European Norway rats that evolved warfarin resistance Sreyasi Biswas; Michael Kohn
51	Stature effect as a cause of size-dependent sex allocation in wind-pollinated plants: Does male reproductive success really increase with plant height in <i>Ambrosia artemisiifolia</i> ? Toru Nakahara; Yuya Fukano; Shun Hirota; Tetsukazu Yahara
52	Character displacement in four livebearing species of the genus <i>Poeciliopsis</i> Andrea Roth-Monzón; Jasen Valenzuela; Scott Clawson; Jerald Johnson
53	Does the microbiome mediate novel host use, immune response, and performance in the specialist butterfly <i>Lycaeides melissa</i> ? Su'ad Yoon; Josh Harrison; Matthew Forister; Angela Smilanich
<b>Experimental evolution</b>	
54	Experimental evolution in a temporally varying environment Peter Conlin; Samuel Reed; Joseph Marcus; Will Ratcliff; Benjamin Kerr
55	Plasmid/CRISPR-Cas conflict results in compromised adaptive immunity in <i>Enterococcus faecalis</i> Valerie Price; Wenwen Huo; Ardalan Sharifi; Kelli Palmer
56	Debunking a major evolutionary transition -- a functional comparison of ciliates and metazoans Pu Wang; Michael Travisano
57	Ecological complexity in the evolution of multicellularity Beatriz Baselga; Michael Travisano
58	How important is antagonistic pleiotropy in the experimental local adaptation of a virus? Lisa Bono; Christina Burch; David Pfennig
59	Experimental adaptive radiation - Genomics of diversification in bird lice Sarah Bush; Bret Boyd; Scott Villa; Julie Allen; Nam Nguyen; Kevin Johnson; Michael Shapiro; Dale Clayton;
154	Evolution of plasmid permissiveness in a <i>Pseudomonas sp.</i> strain Wesley Loftie-Eaton; Kelsie Bashford; <b>Kieran Dong</b> ; Hannah Quinn; Jose M. Ponciano; Eva M. Top

Genomics	
60	Recombination in the chocolate factory: A genomewide recombination map for <i>Theobroma cacao</i> Enrique Jimenez Schwarzkopf
61	Genomic evolution of transposable element evolution in the Solanaceae John Mendieta
62	Genome evolution following adaptive shifts to an ecological extreme John G. Phillips; Ronald Bonett
63	The evolution of separate sexes in Cannabis Kristin White
64	Comparative genomics of large phages of <i>Bacillus subtilis</i> that differ in tRNA genes and host range. Alexandra Agesen; Madison Strine; Greg Krukonis; Veronique Delesalle
65	A draft genome of the resurrection lycopphyte <i>Selaginella arizonica</i> [Selaginellaceae] Anthony Baniaga
Geographic variation	
66	Ghosts on the landscape: how unsampled populations influence patterns of spatial genetic structure Geoffrey House
67	It's getting cold in here: Thermal trait variation in an invasive lizard ( <i>Anolis sagrei</i> ) Tamara Fetters; Joel McGlothlin
68	Uncovering dead wood invertebrate biodiversity hotspots in the Southern Appalachian Mountains Ryan Garrick; Louis Zachos; Rebecca Symula; Rodney Dyer; Michael Ulyshen
69	An analysis of temporal and spatial variation in honey bee microbial symbionts Jennifer Kovacs; Dene Voisin; Nyla Flowers; Beanca Michel
70	Impact of habitat change on bacterial diversity in ectoparasites of bats Kelly Speer; Nancy Simmons; Susan Perkins
Hybridization	
71	Fickle frogs: Directionality of reproductive character displacement flips depending upon species composition in Chorus Frog ( <i>Pseudacris</i> ) contact zones William Booker
72	Population genomics of interspecific polymorphic introgressed tracts in Old World Mice Eslam Elshahat; Michael Kohn
73	Skin microbiome composition across a salamander hybrid zone Sofia Prado-Irwin; Andrew Zink; Vance Vredenburg
74	ABC inference of rooted evolutionary trees Ayed Alanzi; James Degnan
Modeling	
75	Evolution of gap gene regulatory network transcription factor binding sites Joshua Schiffman; Vitaly Gursky; Alexandra Chertkova; Maria Samsonova; Sergey Nuzhdin; Peter Ralph
76	Feedbacks between host genetic diversity and disease spread Julie Xu; Curtis Lively; Frida Ben-Ami

77	Exploring biotic and abiotic factors predicting native and alien parasitoid wasps across the Hawaiian Islands using environmental niche modeling Natalie Graham; Robert Peck; Rosemary Gillespie
78	Distribution of the chytrid fungus <i>Batrachochytrium dendrobatidis</i> (Bd) in an amphibian hotspot Courtney Miller
<b>Molecular evolution</b>	
79	RADseq phylogenetics and the nonrandom nature of missing data Devon Humphreys; <b>E. Anne Chambers</b> ; Katie Lyons; David Hillis
80	Tetrodotoxin-resistant sodium ion channels from avian genomes John Abramyan; Joel McGlothlin
81	Beneficial synonymous mutations mediate adaptation to deleterious synonymous changes Deepa Agashe; Mrudula Sane; Kruttika Phalnikar; Gaurav D Diwan; Alefiyah Habibullah; N Cecilia Martinez-Gomez; Vinaya Sahasrabuddhe; William Polachek; Jue Wang et al.
82	Spatial clustering of amino acid substitutions in <i>Drosophila</i> , primates, and <i>Arabidopsis</i> implicates positive selection, epistasis and convergence in protein evolution Andrew Taverner; <b>Peter Andolfatto</b>
83	Testing for convergent molecular and physiological evolution of cold tolerance in Arctic plants Siri Birkeland
84	Cancelled
85	Evolutionary consequences of genic DNA methylation in Stony Corals Groves Dixon; Line Bay; Mikhail Matz
86	Reconstruction of ancestral primate neocortical transcriptomes Erin Fry; Vincent J. Lynch
<b>Mutation</b>	
87	Knocking it out of the park: Tolerance of extreme heat stress by mature <i>Arabidopsis</i> knockout mutants Emma Bergh; Angela Roles; Nia Daidis; Karsten Jurkiewicz; Jun Takaki
88	Taming variation: wild-types, ecotypes and phytometers in the UNPAK project Hilary Callahan; Clare Kohler; Courtney Murren; Matthew Rutter; Allan Strand; Michael Wolyniak
89	Estimating the mutation rate in wolves through pedigree sequencing Evan Koch; Rena Schweizer; John Novembre; Robert Wayne; Mark Reppell
<b>Phenotypic plasticity / GxE</b>	
90	Thermal variability reduces maximum swimming performance in a threatened tadpole José Luis Bartheld; Paulina Artacho; Leonardo Bacigalupe
<b>Phylogenetic comparative methods</b>	
91	Better living through HGT: Evidence for metabolic optimization through horizontal transfer of a fused gene Noelle Anderson; Scott Roy
92	Probabilistic models of chromosome number and ploidy evolution Heath Blackmon; Emma Goldberg

93	Generalists and sexual dimorphism: Do species with greater niche breadth exhibit greater sexual dimorphism? Kinsey Brock; Danielle Edwards; Justin Yeager
94	Testing hypotheses for the evolution of dark facial stripes in birds Stephen Scribner; <b>Brent Burt</b>
95	How and why overcome the impediments to resolution: Lessons from rhinolophid and hipposiderid bats Nicole Foley; Sebastien Puechmaille; Emma Teeling
<b>Phylogenomics</b>	
96	Phylogenomics of the two-lined salamander ( <i>Eurycea bislineata</i> ) species complex Todd Pierson; Ben Fitzpatrick; Ken Kozak
97	Phylogenomics of the Pulmonate Land Snails Luisa Teasdale; Frank Koehler; Andrew Hugall; Dai Herbert; Tim O'Hara; Adnan Moussalli
98	Progress in resolving the avian tree of life Noor White; Michael Braun; Ed Braun; Brant Faircloth
<b>Phylogeography</b>	
99	Phylogeography of Wallacean Forest Birds Luke Bloch
100	Phylogeography of subterranean termites ( <i>Reticulitermes flavipes</i> ) in the Appalachians Chaz Hyseni; Ryan Garrick
101	Historical refuges and postglacial recolonization routes of the the spotted wintergreen ( <i>Chimaphila maculata</i> ) in the Southern Appalachian Mountains John Banusiewicz; Ryan Garrick
102	Phylogeography of Neotropical savanna frogs Ísis da Costa Arantes; Brice Noonan; Guarino Colli
<b>Plants / pollination</b>	
103	Hermaphrodite-biased oviposition on a gynodioecious host plant in a novel nursery pollination interaction Laura Doubleday; Lynn Adler
104	Plant-Pollinator evolution: A case of native pollinators replacement Rosa Rodriguez; Ruth Bastardo; Katherin Manzueta; Josue Fernandez; Kathleen Kron
105	Breakdown of self-incompatibility in Tolpis Keely Brown; Boryana Koseva
106	Local adaptation to latitude and the absence of sexual dimorphism in balsam poplar ( <i>Populus balsamifera</i> L.) Haley Hale; Helen Scott; Matt Olson
<b>Population genetics: inference of selection</b>	
107	Population genetics and gene flow of arctic tussock cottongrass ( <i>Eriophorum vaginatum</i> ) in the context of local adaptation and climate change Elizabeth Stunz; Jonathon Mohl; Ned Fetcher; Jim Tang; Michael Moody

108	Bursts of coalescence and substitution caused by climate change Meggan Alston; Will Goodall-Copestake; Sílvia Pérez-Espona; Sarah Bradburn; Carina Marón; Fred Adler; Jon Seger
109	Investigating genome-wide signals of natural selection in a human population from Central Mexico Austin Reynolds; Obed Garcia; Jaime Mata-Míguez; Abigail Bigham; Deborah Bolnick
110	Naive Bayes classifier for identifying genomic sites under neutral evolution, hard sweeps, and soft sweeps Stephen Rong; Lauren Sugden; Sohini Ramachandran
111	Estimating the strength of genetic drift in heritable obligate endosymbionts Serena Zhao; Becky Chong; Nancy Moran
<b>Sexual selection / conflict</b>	
112	Using phylogenetic models to understand the origins of female mating preferences in poeciliid fishes Michael Foisy; Helen Rodd; D. Luke Mahler
113	Exploring the evolutionary function of carotenoid signals using a carotenoid-free bird Rebecca Koch; Geoffrey Hill
<b>Speciation / reproductive isolation</b>	
114	Cancelled
115	Cancelled
116	The Origin of species: Influence of demography and climate on patterns of genetic diversity in <i>Pinus strobiformis</i> (Southwestern white pine) Mitra Menon; Chris Friedline; Daniel McGarvey; Anna Schoettle; Sam Cushman; Andrew Eckert
117	Using experimental evolution to study cascade reinforcement Nicholas Arthur; Kelly Dyer; Howard Rundle
<b>Species delimitation</b>	
118	A better estimate of species diversity in aquatic invertebrates: Case study of two sessile rotifers Azar Kordbacheh; Elizabeth J. Walsh
119	A new interpretation of fossil muskrat species using lower first molar morphology Justin Levy; Zachary W. Pierce; Maria C. Vallejo-Pareja; Patrick J. Lewis
120	Examining the phylogeny of Canyon Lizard subspecies in the Chihuahuan Desert of West Texas Sarah McBride; Ray Willis
<b>Systematics</b>	
121	Building a comprehensive evolutionary history of flagellate plants Emily Sessa; S. McDaniel; E. Christine Davis; P. Antonenko; M. von Konrat; E. Gaus; H.Cui; J. Gordon Burleigh
122	Phylogeny and evolution of New World milkweed vines (Asclepiadoideae, Gonolobinae): a genome skimming and targeted enrichment approach Angela McDonnell; Mark Fishbein
123	Sorting out the Serranids: a multilocus phylogeny of the seabasses and groupers Raymond Simpson; Ava Ghezelayagh; Thomas Near

124	Ancient hybridization events between two species of Dusky Salamanders ( <i>Desmognathus</i> ) David Beamer
<b>Undergraduate diversity</b>	
125	Conditional dependence of developmentally plastic traits in the Southern Dogface Butterfly Heather Smith
126	Cryptic diversity in Northern Dusky Salamanders Adriana Cabrera Zurita; David A Beamer; Marilu Salazar
127	Early survival in <i>Solanum dulcamara</i> is dependent on family, breeding history, and DNA methylation Max Aleman; Jorge Mena-Ali
128	Seasonal changes in male size and alternative mating tactics in sailfin mollies ( <i>Poecilia latipinna</i> ) Ivonne Arriola Mendieta; Elizabeth Lange; Kimberly Hughes
129	Comparative species and population patterns of evolutionary conservation in schizophrenia-associated loci Mariam Sankoh; Kristen Wade; Brian Verrelli
130	Genetic architecture of variation in sex comb tooth number in <i>Drosophila subobscura</i> Briana Mittleman; Mohamed Noor
131	Assessing the utility of CYTB for antelope phylogenetics in comparison to random sampling of the mitochondrial genome Logan Vinson; Samantha Price
132	The effect of deleterious mutations and finite genome size on clonal interference and the rate of evolution Mackenzie Johnson; Lei Wei; Maria Orive
133	Lighten up: genetics of coat color evolution in the Honduran White Bat, <i>Ectophylla alba</i> Ramatu Abubakar; Liliana Davalos; Laurel Yohe
134	Morphometric analysis of ovipositor structure in three sympatric populations of the red-headed pine sawfly, <i>Neodiprion lecontei</i> Melanie Hurst
135	Size differences and rearing conditions affect cannibalism rates in <i>Anisolabis maritima</i> nymphs Michelle Davila; Andrew Zink
136	Simulating microbial evolutionary dynamics in the presence of recombination Jasmin Templin; Joanna Masel; Jason Bertram
137	Plant defense mechanisms against seed predators in a tropical rainforest: uniting scientific and traditional knowledge Diontae Matthews
138	More than just cats and dogs: a phylogenetic analysis of carnassial tooth morphology in omnivorous carnivores Lilia Galvez; Samantha Hopkins; Samantha Price
139	Determining the genetic differentiation between populations of Great Bustards ( <i>Otis tarda</i> ) in Europe & Asia Malia Santos; Ramona Flatz; Christopher Smith; Mimi Kessler
140	Building a large phylogeny of Archaea Anthony Coleman; Iva Sinamati; Fabia Battistuzzi

141	Sex ratio evolution in <i>Tetrahymena thermophila</i> Bilal Tariq; Rebecca Zufall; Kristen Dimond
142	Quantifying transposable element abundance in sexual vs. asexual snails Jorge Moreno; Maurine Neiman; Kyle McElroy; John Logsdon
143	The demographic and ecological factors influencing the range expansion of the Plains spadefoot toad Rafael Gutierrez; Amanda Pierce; Karin Pfennig
144	Hedging bets and the pattern of sibling group membership in populations of the Chorus Frog <i>Pseudacris maculata</i> Osama Brosh; Luana Maroja; David Smith
145	Building a toolbox for authentic undergraduate research experiences in evolutionary genetics using the sexually dimorphic moss <i>Ceratodon purpureus</i> Brandon Corder; Samantha E. Lahav; Daniella N. Scola; Jacquelyn D. Orr; Wesley P. Burtcher; Erin E. Holiman; Adam Payton; Stuart McDaniel;
146	Investigating unique genomic features of rare cluster M mycobacteriophages in the novel phage 'Nanosmite' Reavelyn Pray; R. Deborah Overath; Rob Hatherill
147	Characterizing the biodiversity of Botryllid Ascidians in the Philippines through CO1 barcoding Ryan Fergusson; Darragh Clancy; Kelly Donahoe; C. Sarah Cohen
148	Assessing the genetic and experimental effects of salinity in model and non-model Brassicaceae plants Rosemarie Dale; Karen Samis; Hardy Strom; Jultwahnique McDonald; Justin Ferrish
149	Structural, biochemical, and evolutionary characterization of a complex ejaculate Tamara Cherwin; Melissa Plakke; Brandon Small; Breanna Goetz; Nathan Clark; Nathan Morehouse; Camille Meslin
150	The Neches River Rose Mallow ( <i>Hibiscus dasycalyx</i> ) is dead, long live the Neches River Rose Mallow! Taxonomic clarification using evolutionary genetics and ecological niche modeling Katherine Barthel
151	Adaptive gene expression differences for salamanders in response to predation and food availability Nikelle Petrillo; Jonathan Richardson; Mark Urban
152	Lack of support for a relationship between predation risk and neonatal mass in three orders of mammals Samuel Degregori; Ashley Carter; Theodore Stankowich
153	<i>Herpomyces</i> : The phylogeny and ecology of a fungal genus on cockroaches Tristan Wang
<b>Last minute additions</b>	
~160	Miss the poster deadline? Bring your poster and put it up here. Please share the space with others if necessary and only post for one session. These posters won't be in the printed or online schedule.



## Session 2: Sunday, June 19

5:45 - 7:45 pm, Exhibit Hall 1 (EH1). **Bold** denotes presenter when not first author.

Adaptation	
1	Functional divergence of heat shock proteins between populations of <i>Tigriopus californicus</i> from the California coast Reginald Blackwell; Ron Burton; Gary Moy
2	Vestigial eyespots but many opsins in sand crabs Claudette Segura; Leslie Garcia; Matthew Terry; <b>Zen Faulkes</b>
3	The ecological genomics of gypsy moth invasion along a latitudinal gradient Chris Friedline; Andrew Eckert; Trevor Faske; Kristine Grayson; Derek Johnson; Dylan Parry
4	Exploring morphological characters associated with habitat transitions in the Acidocerinae (Coleoptera: Hydrophilidae) Jennifer Giron Duque; Andrew Short
5	Studying adaptation of sunflowers in Great Sand Dunes National Park using genotyping-by-sequencing April Goebel; Nolan Kane; Silas Tittes
6	Modeling patterns of long-term adaptation and extinction with diminishing returns Kevin Gomez
7	Investigating adaptability to climate change by monitoring temperature effects on genetic inheritance patterns in <i>Caenorhabditis briggsae</i> Rania Haddad; Joseph Ross
8	Genomic analyses uncover parallel and idiosyncratic evolutionary changes following the colonization of a novel host plant Samridhi Chaturvedi; Lauren Lucas; Matthew Forister; Zachariah Gompert
9	Species distribution models meet intraspecific variation: Contrasting predictions of distribution under climate change in a dominant prairie grass Loretta Johnson; Alsdurf Jacob; Adam Smith; Mary Knapp; Sara Baer
10	Limitations of the heterozygosity-Fst outlier approach for detecting adaptation in population genomics studies Adam Jones; Sarah Flanagan
11	Using self-guided “guppy kits” to teach adaptation and evolution using authentic science Emily Kane; E. Dale Broder; Andrew Warnock; Courtney Butler; A. Lynne Judish; Lisa Angeloni; Cameron Ghalambor
12	Patterns of adaptive trait evolution across the North American <i>Asclepias</i> Raffica La Rosa
13	Significant role of standing regulatory variants in altitudinal adaptation Yu-Ting Lai; Shou-hsien Li; Kui Lin
14	Catastrophic Selection on the body shape of Trinidadian Guppies Alex Landy; Joseph Travis

Behavior	
15	Sensory modality use across a phylogeny Kaila Colyott; Jennifer Gleason
16	Effect of predation on the evolution of artificial neural networks Spencer Gomez; David Streett; Matthew Singer; Terence Soule; Barrie Robison
17	Context-dependent female mate choice: Neurogenetic framework of learned preferences Pablo Delclos
18	Learning associated to cutting performance in leaf-cutting ants Mateo Garcia; Flavio Roces; Martin Bollazzi
19	Environmental variation influences how relatedness and density affect fitness in American toad tadpoles Sara Garnett; Thomast Getty
Biogeography	
20	Geographic drivers of diversification in loliginid squids Gabrielle Genty; Carlos José Pardo-De la Hoz; Elena Ritschard
21	Biogeography of mangrove gastropods differs across taxa: a comparison to the “Coral Triangle” Tricia Goulding; Benoît Dayrat
22	The influence of host genetic structure on fungal endophyte community assembly Josh Harrison; Thomas Parchman; Matthew Forister
Bioinformatics	
23	AMAS: a fast tool for alignment manipulation and computing of summary statistics Marek Borowiec
24	Cancelled
25	Sniffing out accurate olfactory gene family assemblies from PacBio sequencing Wei Jiang; Laurel Yohe; Liliana Davalos
26	Exploring the Origin of Chloroplast using the tRNA-protein Interaction Network Travis Lawrence
27	Evolutionary implications of bat antimicrobial peptides in white nose syndrome: from hidden Markov models to hibernacula Katherine Martin; Gregory Poterewicz; Liliana Davalos; Marianne Moore
Coevolution	
28	Genotypic and phenotypic variation in space & time of naturally occurring Bacillus bacteriophage communities Katherine Boas; Veronique Delesalle; Greg Krukonis

29	Viral host range expansion limits the evolution of resistance in experimental populations of <i>E. coli</i> and phage $\lambda$ Alita Burmeister; Rachel Sullivan; Richard Lenski
30	Sexual cooperation and conflict enacted through butterfly spermatophore proteins Camille Meslin; Tamara Cherwin; Melissa Plakke; Brandon Small; Breanna Goetz; Nathan Morehouse; Nathan Clark
31	Is ecological displacement a driving force in the evolution of belowground root structures of invasive weed species? Sara Colom
32	Analysis of functional morphology of genitalia reveals strong functional integration and coevolution in stink bugs Bruno Genevicius; Cristiano Schwertner
<b>Comparative biology</b>	
33	Insect egg evolution: Diversity of size and shape at the single-cell stage Samuel Church; Extavour Cassandra; Seth Donoughe
34	Skeletons in the closet: the Vertebrate collections at the Natural History Museum, London. Access, relevance and opportunities Natalie Cooper; Jeffrey Streicher
35	Interspecific comparisons of intra-individual variation in crocodilian dorsal scutes with discussion of possible functional implications Lauren English
36	A preliminary study investigating the gut microbiome of two sympatric endemic primates, red colobus ( <i>Procolobus pennantii</i> ) & bioko drill ( <i>Mandrillus leucophaeus poensis</i> ), on Bioko Island, Equatorial Guinea Bryan Featherstone; Steve Miller; Drew Cronin; Matthew Mitchell; Janina Dordel; Dana Venditti; Johnathan Clayton; Gabe Al-Ghalith; Dan Knight; Katherine Amato; Katy Gonder
<b>Comparative phylogeography</b>	
37	Genomic signatures of shared life history traits versus biome specific histories: comparison across 3 widespread marsh rat species ( <i>Holochilus</i> ) Joyce Prado; L. Lacey Knowles; Alexandre Reis Percequillo
38	Comparative phylogeography of guiana shield herpetofauna Andrew Snyder; Brice Noonan
39	Comparative phylogeography of ants in the Brazilian Atlantic Rainforest Patrícia R. Ströher; Eugenia Zarza; Whitney Tsai; John McCormack; Marcio Pie
<b>Development</b>	
40	Using RNAseq to study sources of skull morphological variation among sympatric species of Cyprinodon pupfishes from San Salvador Island, Bahamas Ezra Lencer
41	Can adaptive evolution undermine developmental canalization? The case of wing size evolution in high altitude <i>Drosophila</i> Lack Justin; Matthew Monette; Evan Johanning; Quentin Sprengelmeyer; Amir Yassin; <b>John Pool</b>

42	Central Texas Eurycea, a Novel System for the Study of Eve-Devo Ruben Tovar
43	Testing the hourglass model of development in vivo and in silico Becca Young; Heather Goldsby; Arend Hintze; Hans Hofmann
<b>Diversification</b>	
45	The evolution of relative trait size and shape: insights from the genitalia of dung beetles Harald Parzer; P. David Polly; Armin Moczek
46	Quantitative analysis of color variation in the Ruffed Grouse ( <i>Bonasa umbellus</i> ) Alexis Powell
47	Relationships among rates of climatic niche evolution and diversification Seema Sheth; Will Freyman; Bruce Baldwin; David Ackerly
<b>Ecological genetics</b>	
48	Landscape Genetics and the Impact of Neighboring Land Use: the Proximity Effect Stephanie Burgess; Ryan Garrick
49	The genetic architecture of invasion at the range margin Trevor Faske; Lily Thompson; Chris Friedline; Salvatore Agosta; Derek Johnson; Kristine Grayson; Andrew Eckert
50	Genomics of local adaptation, genetic diversity, and community response to environmental change Jesse Lasky
<b>Evolutionary ecology</b>	
51	Why does anther colour vary in trout lily ( <i>Erythronium americanum</i> )? Emily Austen; Jessica Forrest
52	Patterns of Genomic Differentiation in the Cuatro Ciénegas Cichlid ( <i>Herichthys minckleyi</i> ) Katherine Bell; Chris Nice; Francisco J. García-de-León; Darrin Hulsey
53	The evolution of edaphic specialization in plants: relationships between competitive ability, defense and soil resource availability in a clade of California Jewelflowers ( <i>Streptanthus</i> ) N. Ivalu Cacho; Sharon Strauss
54	Condition dependence of shared traits differs between sympatric Anolis lizards John Curlis; Ryan Davis; Emily Zetkovic; Christian Cox
55	Quantitative genetics of early growth in a combined cross of Large and Small mice Devin Dobias; Javier Morfin; James Cheverud
56	Evolution through the lens of a tourist camera: Social media enables remote-sensing of <i>Gallus gallus</i> genotypes, phenotypes, and demography Eben Gering; Levi Storks; Sigrid van Dort; Dominic Wright; Thomas Getty
57	Diversification of darter diets: phylogenetic analyses of diet data reveal trophic niche differences in the darter radiation (Percidae: Etheostomatinae) Richard Harrington; Thomas Near

58	Morphological evolution on a performance landscape: example from the suction-feeding mechanism of reef fish Roi Holzman; Tal Keren; China Victor; Ofri Mann; Christopher Martin; Moshe Kiflawi
59	Coarse- and fine-grained phenotypic divergence in threespine stickleback from alternating lake and stream habitats Rebecca Izen
60	Alcohol tolerance is associated with reproductive behavior in <i>Drosophila melanogaster</i> and <i>Drosophila suzukii</i> Paul Klawinski; Julia Smith; Ronan Zhao; Hailey Mills
<b>Experimental evolution</b>	
61	Evolution of heat tolerance under different warming rates: lessons from <i>Drosophila subobscura</i> Luis Castaneda; Marcela Morales; Andres Mesas
62	Mechanism and fitness benefits of pyruvate kinase: a recurrent target of evolution Kristina Duan; Timothy Cooper
63	Mechanisms of apoptotic cell differentiation in experimentally evolved multicellular yeast Noah Gettle; Michael Travisano
64	When sensing is gambling: An experimental system reveals how plasticity can generate tunable bet-hedging strategies Colin Maxwell; Paul Magwene
65	One gene makes all the difference: social exploitation selects against aggregative multicellularity Jennifer Pentz; Will Ratcliff
66	Host shift dynamics of competitive and exploitative viruses Sonia Singhal; Paul Turner
<b>Expression studies/transcriptomics</b>	
67	Host and symbiont transcriptomic profiling of <i>Acropora millepora</i> corals from the Great Barrier Reef: influence of local adaptation and acclimatization Sarah Barfield
68	Transmutation in the visual system of the Northern Pine Snake, <i>Pituophis melanoleucus</i> Nihar Bhattacharya; Benedict Darren; Ryan Schott; Belinda Chang
69	Next-generation transcriptomic insights for understanding horn development in juvenile cattle ( <i>Bos taurus</i> ) Zachary Calamari
70	RNA in Polyneoptera insects. De novo transcriptomic insights into the molecular substrate underlying evolutionary adaptations in <i>Cryptocercus punctulatus</i> (Dictyoptera: Cryptocercidae) Ioana C. Chintauan-Marquier; Frederic Legendre; Roger A. Barthelson; Fiona McCarthy; Hannes Becher; Laure Desutter-Grandcolas; Sandrine Pavoine; André Nel; Xiaole Xu et al.
71	The effect of ocean acidification on the species interaction between a bioeroding sponge and a stony coral Melissa DeBiasse; Amber Stubler; Morgan Kelly

Genomics	
72	Conservation genetics of the critically endangered Kemp's Ridley Sea Turtle Xochitl De La Rosa; Mariana Mateos; Donna Shaver; Miguel Angel Reyes López; Luis Hurtado
73	Characterization of a chromosomal inversion associated with adaptive divergence in <i>Mimulus guttatus</i> Reno Eckebrecht; Jannice Friedman
74	Hybrid genome assembly of the northern acorn barnacle ( <i>Semibalanus balanoides</i> ) Rebecca Elyanow; Bianca Brown; Joaquin Nunez; David Rand
75	Genomic consequences of transitions to asexuality in a freshwater snail Joseph Jalinsky; John Logsdon; Maurine Neiman; Isaac Weinberg
76	Sex differences in the genetic basis of susceptibility to the herbicide Atrazine in <i>D. melanogaster</i> Sarah Marcus; Anthony Fiumera
77	Genome sequence of the White Shark ( <i>Carcharodon carcharias</i> ): Insights into genome size evolution, life history characters, and a primitive adaptive immune system Nicholas Marra; Minghui Wang; Paulina Pavinski Bitar; Qi Sun; Aleksey Komissarov; Stephen J. O'Brien; Michael J. Stanhope; Mahmood Shivji;
78	Alphabet Soup: A Primer For Population Genomics Tessa Clark; Louise Mead; Sydney Berger; Melissa Wilson Sayres
Hybridization	
79	Divergence of transcriptomes of two hybridizing cyprinid fishes (genus <i>Cyprinella</i> ) Richard Broughton; Feifei Zhang; Krithi Sankaranarayanan
80	Mating with a different species: not always a bad idea? Joana Bernardes; Rike Stelkens; Duncan Greig
81	Does position along the watershed affect hybridization dynamics between the native <i>Orconectes sanbornii</i> and invasive <i>O. rusticus</i> ? Elisa Henderson; Angela Roles
82	Signatures of introgression in natural replicated hybrid zones Gaston Jofre; John Blazier; Gil Rosenthal; Molly Schumer; Alisa Sedghifar; Peter Andolfatto
83	Genomic and geographic patterns of gene flow between two spadefoot toad species Audrey Kelly; Karin Pfennig
84	Exploring species boundaries between introduced and endemic weevils in Santa Cruz Island: Galápagos Sarah Pangburn; Flavia Mendonca de Sousa; Sara Eslami; <b>Andrea Sequeira</b>
Life History	
85	Adult infection-energetic interactions in mitochondrial-nuclear hybrid <i>Drosophila</i> Justin Buchanan; Cassie Treu; Kristi Montooth
86	Life History Genetics: How semelparous and iteroparous strategies evolve from one Another William Hughes

Mitochondrial	
87	Discordant patterns of cytoplasmic genetic variation in a flowering plant ( <i>Lobelia siphilitica</i> , Campanulaceae) Binaya Adhikari; Christina Caruso; Andrea Case
88	The Doubly Uniparental Inheritance (DUI) of mitochondria: a model system for mito-nuclear coevolution Fabrizio Ghiselli; Liliana Milani; Marco Passamonti
89	Developmental and metabolic physiology of the fruit fly, <i>Drosophila melanogaster</i> Omera Matoo; Cole Julick; Kristi Montooth
90	Mitochondrial membrane potential: a trait involved in organelle inheritance? Liliana Milani
91	Mitochondrial selfish elements and the evolution of biological novelties Liliana Milani; Fabrizio Ghiselli; <b>Marco Passamonti</b>
92	Mapping mitochondrial contribution to high temperature resistance in <i>Saccharomyces cerevisiae</i> John Wolters; Heather Fiumera
Modeling	
93	The effect of landscape structure on inbreeding depression and metapopulation persistence Etsuko Nonaka
94	Agent-based analysis of mixed strategy threshold public goods Jorden Schossau; Christoph Adami
95	ENVIREM: An expanded set of bioclimatic variables improves ecological niche modeling performance Pascal Title; Jordan Bemmels
Molecular evolution	
44	Molecular evolution of strigolactone perception in parasitic weeds of the Orobanchaceae Caitlin Conn; David Nelson
96	Sex chromosome dosage compensation in Lepidoptera: insights from a neo-Z chromosome. Liuqi Gu; James Walters; Knipple Douglas
97	Sodium-potassium ATPase gene family expansion in Annelida during the invasion of freshwater habitats Kevin Horn; Frank Anderson
98	Morphological variation, population structure and the origin of Colombian weedy rice Veronica Hoyos; Guido Plaza; Ana Caicedo
99	Apoptosis: its origin, history, maintenance Urszula Zielenkiewicz; Joanna Klim; Roza Kucharczyk; <b>Szymon Kaczanowski</b> ; Arkadiusz Gładki
100	Evolutionary analysis of the <i>Caenorhabditis</i> nematode sperm proteome using microfluidic techniques Katja Kasimatis; Patrick Phillips



101	The metabolomic basis of sexual dimorphism in immature moss plants in a common garden Leslie Kollar; Lauren McIntyre; Rainey Patterson; Alexander Kirpich; Alison Morse; Adam Payton; Stuart McDaniel
102	Evidence of retrogenes in loblolly pine Tomasz Koralewski; Claudio Casola
103	Gene tree discordance generates patterns of diminishing molecular convergence over time Fabio Kuriki Mendes; Yoonsoo Matthew Hahn
<b>Mutation</b>	
104	Discovering deviants in UNPAK's database of mutant phenotypes Clare Kohler; Amanda McLamb; Lu Gomezdelatorre; Amita Wanar; Hilary Callahan
105	Rates and biases of mitotic gene conversion in <i>Saccharomyces cerevisiae</i> Holly McQueary
106	Conserved rates and patterns of transcription errors across bacterial growth states and lifestyles Charles Traverse; Howard Ochman
107	The natural history of mutations: sequence data from <i>Arabidopsis thaliana</i> mutation accumulation lines Mao-Lun Weng; Matthew Rutter; Charles Fenster
<b>Phylogenetic comparative methods</b>	
108	Evolution of sex in the volvocine green algae Erik Hanschen
109	The relationship of species diversification and morphological evolution in New World oscines Tyler Imfeld; Keith Barker
110	Trait evolution inference under tree estimation error Huan Jiang; James Degnan
112	The connection between diet and evolution of wing morphology in neotropical bats Kristjan Mets
112	Evolutionary independence among the modular subcomponents of avian plumage Nicholas Sly; Zachary Cheviron
<b>Phylogenomics</b>	
113	The role of geographical barriers in shaping long-lived <i>Pinus greggii</i> varieties with incomplete lineage sorting and high levels of gene flow Xitlali Aguirre-Dugua; David Gernandt; Alejandra Moreno-Letelier
114	Phylogenomic understandings of polyphyly in the tribe Brassiceae R. Shawn Abrahams; Jacob Washburn; Chris Pires
115	Interrogating the genome evolution of the Cleomaceae using transcriptomic data Wade Dismukes

116	Why is there a limit to the resolution of the plastome phylogeny in a rapidly diversifying clade? Mark Fishbein; Shannon Straub; Kimberly Hansen; Richard Cronn; Aaron Liston
117	Sequence capture and phylogenetic utility of genomic ultraconserved elements obtained from pinned insect specimens more than 100 years old Bonnie Blaimer; Michael Lloyd; <b>Wilson Guillory</b> ; Seán Brady
118	Phylogenomics of Sigmodontinae as told by mitochondrial genomes and UCEs. John Hanson; Roy Platt; Guillermo D'Elía; Andres Parada
119	A scalability study of computational methods for inferring phylogenetic networks using multi-locus sequence data Hussein Hejase; Kevin Liu
<b>Phylogeography</b>	
120	Phylogeography and speciation in the field vole ( <i>Microtus agrestis</i> ) Nicholas Fletcher
121	Multi-locus species delimitation in a geographically widespread Mexican ambystomatid salamander ( <i>Ambystoma rosaceum</i> ) Richard Grewelle; Justin Kratovil; David Weisrock; Mary Foley; Bradley Shaffer
122	Impact of the human slave trade on the New World distribution of <i>Perna perna</i> Eric Hoffman; Claudia Tagliaro; Gerardo Zardi; Carlos E. L. Ferreira; Flavio Fernandes; Edson Pereira Silva; Katy Nicastro; Carla Lourenco; Savio Calazans
123	Molecular taxonomy and phylogeography of the sponge genus <i>Ircinia</i> from northern Australia Joseph Kelly
<b>Population genetics: molecular ecology</b>	
124	Comparison of Island Fox scat bacterial communities Nicole Adams; Xiaoming Wang; Suzanne Edmands
125	Untangling the population genetic structure patterns of a cosmopolita fish, <i>Coryphaena hippurus</i> Natalia Bayona Vásquez; Travis Glenn; Manuel Uribe-Alcocer; Píndaro Díaz-Jaimes
126	Single-cell ddRAD sequencing: Methods, pitfalls, and application to diatom population genomics. Mariska Brady; Edward Theriot
127	A proposal for studying the evolution of urban pigeons Elizabeth Carlen
128	Geographic genomic variation detected in recently adapted populations of Song Sparrows ( <i>Melospiza melodia</i> ) previously described as undifferentiated Josie Griffin
129	Comparison of genetic structure of two tree lizard species: differential responses of a thermal specialist and a thermal generalist to climate change Greg Haenel

Population genetics: theory and methods	
130	On the joint distribution of coalescent tree height and length Ilana Arbisser
131	Joint site frequency spectra for source and rapidly flushing founder populations Richard Kliman
132	CallHap: A pipeline for population-level chloroplast DNA analysis Brendan F Kohn; Pamela Thompson; Mitch Cruzan
133	Evaluation of tools for deleterious mutation prediction in plants Li Lei; Thomas Kono; Paul Hoffman; Ching-Hua Shi; Justin Fay; Peter Morrell
Sexual selection / conflict	
134	Correlates of throat and spine coloration within and between the sexes in the threespine stickleback Haley Overman; <b>Christopher Anderson</b> ; Jeffrey McKinnon
135	Evolution of dwarf males in spoon worms: Dwarf males originated before the colonization of the deep sea Ryutaro Goto
136	When chytrid doesn't kill: females discriminate against infected males Sofia Rodriguez-Brenes; Sylvia Garza; Michael J. Ryan
137	Investigating heterospecific functions of the seminal protein ovulin in <i>Drosophila</i> Trevor Sless; Mariana Wolfner
138	Spatial Edition! The alignment of sexual and natural selection Li Yun; Patrick Chen; Howard Rundle; Aneil Agrawal
Speciation / Reproductive Isolation	
139	Widespread outbreeding depression in arctic selfing plants Lovisa Gustafsson
140	Genomic resolution of cryptic speciation in chipmunks Nathanael Herrera; Brice Sarver; Colin Callahan; John Demboski; Jeffrey Good
141	Genetic and morphological differentiation among host-associated populations of <i>Eurosta solidaginis</i> Brandon Zsigray; Annelie Lindberg-Livingston; Jenny Korstian; Timothy Craig; Joanne Itami; Dean Williams; John Horner
142	Parallel speciation in an Australian wildflower Maria Clara Melo; <b>Maddie James</b> ; Federico Roda; Diana Bernal-Franco; Melanie Wilkinson; Huanle Liu; Daniel Ortiz-Barrientos
143	Genomic patterns of pheromone strain divergence in the European Corn Borer, <i>Ostrinia nubilalis</i> Henry Kuerth; Steve Bogdanowicz; Genevieve Kozak; Erik Dopman; Richard Harrison

144	Non-introgressing loci in <i>Gryllus firmus</i> and <i>G. pennsylvanicus</i> map to the X chromosome. Luana Maroja; Patrick Gainey
145	<i>Drosophila</i> speciation: All roads lead to Cid Emily Beck
<b>Systematics</b>	
146	Phylogenetic relationships and patterns of homoplasy in <i>Mentzelia</i> section <i>Bicuspidari</i> (Loasaceae) Joshua Brokaw; John Schenk
147	Building a comprehensive evolutionary history of flagellate plants Emily Sessa; Stuart McDaniel; E. Christine Davis; Pavlo Antonenko; Matt von Konrat; Eve Gaus; Hong Cui; J. Gordon Burleigh
148	Pipelines and methods for visualization and analysis of phenomic data Chad Eliason; Julia Clarke
149	Beyond OTUs - Phylogenetic identification of bacterial symbiont sequences Nico Franz; Guanyang Zhang; Zhen Geng; Andrew Johnston; Patrick Browne; Hinsby Cadillo-Quiroz
150	Development of nuclear markers for phylogeny reconstruction In <i>Thomasomys</i> (Rodentia: Cricetidae) amber Grothe; Joshua Brokaw
151	Digitizing Molluscan biodiversity at the University of Michigan Museum of Zoology (UMMZ) Taehwan Lee; Thomas Duda; <b>Amanda Haponski</b> ; Diarmaid O' Foighil
152	Combing Africa: preliminary attempts at untangling the historical evolution of the Ledebouriinae (Scilloideae, Asparagaceae). Cody Howard; Nico Cellinese
153	Utilizing genome skimming of the mitochondria, chloroplast, and nuclear genomes to resolve the recalcitrant Goodenia Clade C backbone Pryce Michener; Emily Sessa; Rachel Jabaily
<b>Microbes</b>	
154	Microbiome analyses of acorn barnacles from habitat extremes of a tidal stress gradient Bianca Brown; Rebecca Elyanow; Joaquin Nunez; David Rand
155	Microbial diversity of alpine streams: a North American perspective Mary Foley; Scott Hotaling; J. Joseph Giersch; Debra Finn; Lusha M. Tronstad; Clint C. Muhlfeld; Lydia Zeglin; David W. Weisrock
<b>Last minute additions</b>	
~160	Miss the poster deadline? Bring your poster and put it up here. Please share the space with others if necessary and only post for one session. These posters won't be in the printed or online schedule.

## Session 3: Monday, June 20

5:45 - 7:45 pm, Exhibit Hall 1 (EH1). **Bold** denotes presenter when not first author.

Adaptation	
1	Environmental adaptation and phenotypic differences between temperate and tropical populations of house mice Mallory Ballinger; Kathleen Ferris; Michael Nachman
2	Salinity tolerance expression patterns in two distinct populations of <i>Tigriopus californicus</i> Jee Yun Lee; Marshall Phillips; Christopher Willett
3	Identifying loci of adaptive significance in the widely distributed Dusky-footed Woodrat ( <i>Neotoma fuscipes</i> ) Sarah Brown; Jessica Blois
4	Parallel ecomorphological evolution in ground-dwelling squirrels: Roles of phylogeny, allometry, and modularity Bryan McLean; Joseph Cook
5	Evolutionary genomic analysis of plant adaptation to serpentine (ultramafic) geology in <i>Caulanthus amplexicaulis</i> (Brassicaceae) Alan Pepper; Angela Hawkins; Elyssa Garza; W. Daryl Hawkins; N. Ivalu Cacho; Adrian Platts; Stephen Wright; Sharon Strauss;
6	Investigating evolutionary linkages between modules in the evolution of avian locomotion James Proffitt
7	Origin and dynamics of adaptation in <i>Schizosaccharomyces pombe</i> : Standing genetic variation vs. de novo mutation Alexandre Rego; Zachariah Gompert
8	Gene duplication among African cichlid fishes Susan Renn
9	The molecular basis of embryonic acid adaptation in amphibians Longfei Shu; Anssi Laurila; Marc Suter; Katja Rasanen
10	Does differential habitat use maintain color polymorphism in vipers from warmer environments? Alexandru Strugariu; Iulian Gherghel; Tiberiu C. Sahlean; Paul C. Dinca; Raluca Melenciu; Mihail V. Hutuleac-Volosciuc; Stefan R. Zamfirescu
11	Various mechanisms of threespine stickleback adaptation to freshwater (White Sea and Kamchatka regions) Nadezhda Terekhanova; Nikolai Mague
12	Climate change, germination, and survival in the montane perennial plant, <i>Boechera stricta</i> Susana Wadgyamar; Jill Anderson
13	Local adaptation in Louisiana Iris Alexander Zalmat; Noland Martin
14	Genetic basis of butterfly eyespot determination Linlin Zhang

15	Population genomic signatures of selection during independent invasions into novel environments Tiago da Silva Ribeiro; Martin Bontrager; Carol Eunmi Lee
16	Evolution of an agricultural weed, <i>Helianthus annuus</i> Emily Drummond; Loren Rieseberg
<b>Behavior</b>	
17	How do microbes respond to increasing population density and why? Jennifer Rattray; Roman Popat; Sam Brown
18	Dietary macronutrients effect <i>Drosophila melanogaster</i> mate preference and attractiveness Janna Schultzhaus
19	The unique mate-guarding behavior of Tigriopus copepods: Exploration of its genetic, molecular and evolutionary bases Satomi Tsuboko-Ishii; Ron Burton
20	Nutritional effects on inter-individual variation in social behaviors Eric Wice; Julia Saltz
21	Population differences in territorial aggression in invasive brown anoles, <i>Anolis sagrei</i> Julie Wiemerslage; Joel McGlothlin; Tamara Fетters
<b>Biogeography</b>	
22	A phylogenetic perspective on the phytogeography of Western Ghats, India Praveen Karanth; Divya B
23	Niche conservatism in plant species with bipolar disjunction Kamil Konowalik
24	Major diversification events in an ancient African anuran lineage (Brevicipitidae: Breviceps) shadow Tertiary geo-climatic change. Stuart Nielsen
<b>Bioinformatics</b>	
25	Gene exchange is rare between species of Coccidioides Kathleen Mattox; David Turissini; Daniel Matute
27	Computational methods for filtering contaminants from NGS data Duncan Murdock; Janna Fierst
28	Zequencer: An automated workflow for analyzing NGS data from Zika virus Helen Shearman
29	ASTRID: Fast, accurate species tree estimation with thousands of taxa Pranjal Vachaspati; Tandy Warnow
30	Comparative genomic analyses of a new cluster of <i>Bacillus subtilis</i> phages with different host ranges Albert Vill; Veronique Delesalle; Greg Krukonis

Coevolution	
31	Evolution of nervous systems in early animals Anuj Guruacharya; Richard Broughton
32	No safety in the trees: Local and species-level adaptation of the Eastern gray squirrel to the venom of sympatric rattlesnakes Abby Pomento; Blair Perry; <b>Matthew Holding</b> ; Rob Denton; Lisle Gibbs
33	Elevated rate of molecular evolution in insect endosymbionts can be exploited for elucidating pest introduction history Alejandro Otero Bravo; Zakee Sabree
34	Less is more: Independent loss-of-function OCIMENE SYNTHASE alleles parallel pollination syndrome diversification in monkeyflowers ( <i>Mimulus</i> ) Foen Peng; Kelsey Byers; Toby Bradshaw
35	Plastid and nuclear coevolution in plastid metabolic complexes: CLP and heteromeric ACCase Kate Rockenbach; John Monroe; Justin Havird; Deborah Triant; Doug Taylor; Daniel Sloan
36	Coevolution of RNA phages and <i>Pseudomonas syringae</i> bacteria is consequential for viral performance in alternate environments Elizabeth Williams; Lisa Bono; Paul Turner
Comparative biology	
37	Differential sensitivity of opsin expression to estrogen manipulation in two poeciliid freshwater fishes Caitlin Friesen; Mary Ramsey; Molly Cummings
38	Scent divergence in functionally distinct floral and vegetative organs in carnivorous pitcher plants ( <i>Sarraceniaceae</i> spp.) Winnie Ho; Julianne Ng; Nathan Kutz; Jeff Riffell
39	A map of conserved plant protein complexes Claire McWhite; Ophelia Papoulas; Edward Marcotte; Claire Palmer; Pamela Ronald; John Houser; Cuihong Wan; Karen Browning; Hong Qiao et al.
Disease	
40	Host switching and the evolution of virulence in a plant pathogen Sean Meaden; Britt Koskella
41	Genome-wide associations for chronic wasting disease in mule deer using improved genotype calls from a novel bioinformatic pipeline Kelly Pierce; Nathan Galloway; Michael Antolin
42	Examining codon bias and its effects on the pathogenicity of viruses Michael Williamson; Troy Day
Ecological genetics	
43	Population genetics of <i>Batrachochytrium dendrobatidis</i> in Texas Thomas Marshall

44	Transatlantic population genomics of the northern acorn barnacle ( <i>Semibalanus balanoides</i> ): a comparison of Fst outliers using different reference assemblies Joaquin Nunez; Bianca Brown; Rebecca Elyanow; David Rand
45	Rapid adaptation in a contaminated environment: Evolutionary adaptive response of old field grass <i>Andropogon virginicus</i> to heavy metals in abandoned Lead and Zinc mines Samantha Sharpe; Loretta Johnson
46	Evolutionary genetics of body size in <i>Drosophila subquinaria</i> amanda Shaver; Kelly Dyer
<b>Evolutionary ecology</b>	
47	Evolutionary assembly of communities in butterfly mimicry rings Jahnavi Joshi; Anupama Prakash; <b>Krushnamegh Kunte</b>
48	On the adaptive value of monomorphic vs dimorphic enantiostily in <i>Solanum rostratum</i> Carlos Emiliano Mora Carrera; César Augusto Domínguez; Juan Fornoni
49	Urban cyanogenesis clines in white clover: the interplay between gene flow and local adaptation amanda Nelson; Marc Johnson; Hargurdeep Saini
50	Phenotypic variation in the Puddle frog ( <i>Phrynobatrachus auritus</i> ) across environmental gradients in the African Guineo–Congolian rainforest. Hilton Oyamaguchi; Geraud Tasse; Eric Bertrand Fokam; Mary Gonder
51	Environmental-specific heritable variation in morphological traits and survival of juvenile Atlantic salmon ( <i>Salmo salar</i> ): Evidence from field experiments David Paez; Julian Dodson
52	Short-term effects of genetic admixture on offspring performance Johanna Sunde
53	Effects of color polymorphism on population performance in damselflies and butterflies Noriyuki Suzuki; Yuma Takahashi
54	Testing hypotheses for the presence of tRNA genes in mycobacteriophage genomes Natalie Tanke; Veronique Delesalle; Greg Krukoni
55	Genomic characterization of newly isolated SPP1-like Bacillus phages from the Sonoran desert and their host range mutants Brianne Tomko; Veronique Delesalle; Greg Krukoni
56	Genome-wide SNP analysis reveals patterns of subspecies differentiation along a habitat gradient Jennifer Walsh; Adrienne Kovach; Virginia Winder; Greg Shriver; Brian Olsen; Christopher Elphick; Irby Lovette
57	Sexual selection in juvenile Collared Lizards? <b>Jodie Wiggins</b> ; Ron Van Den Bussche; Stanley Fox
<b>Evolutionary theory</b>	
58	Integrated Complex Phenotypes: a new perspective for understanding evolution-selection dynamics. Bishwa Giri



59	Epistasis and migration drift balance in a finite metapopulation Charles Goodnight
60	A model of selection for outcrossing upon secondary contact of purged inbred populations Alexander Harkness; Emma Goldberg; Yaniv Brandvain
61	Mutation accumulation in selfing populations under temporally fluctuating selection Eddie Ho
62	Fitness-valley crossing in subdivided asexual populations Michael McLaren
63	The evolution of relative assessment in status-dependent strategies under stochastic environments Yuuya Tachiki
<b>Expression studies/transcriptomics</b>	
64	Relatedness of competitors influences gene expression in <i>Arabidopsis thaliana</i> Lisa Dorn
65	MIR retrotransposons rewired the GATA2 regulatory network in decidual stromal cells Katelyn Mika; Vincent J. Lynch
66	Regulatory architecture of gene expression variation in the threespine stickleback, <i>Gasterosteus aculeatus</i> Victoria Pritchard; Heidi Viitaniemi; R.J. Scott McCairns; Juha Merilä; Mikko Nikinmaa; Craig Primmer; Erica Leder
67	Opsin gene diversity and expression in Mantodea Elizabeth Lopez; <b>Matthew Terry</b>
<b>Genomics</b>	
68	Hybrid assembly of the <i>Desmodus rotundus</i> (common vampire bat) and <i>Macrotus californicus</i> (California leaf-nosed bat) genomes Roy Platt; L. Irber; C. Titus Brown; C. Caio; J. Hanson; C. Phillips; F. Hoffmann; L. McGuire; R. Stevens et al.
69	Chemosensory gene expression in the proboscis of <i>Anopheles gambiae</i> mosquitoes Zach Popkin-Hall; Michel Slotman
70	Codon biases of transposable elements in vertebrate genomes Robert Ruggiero; Stephane Boissinot
72	Mapping photoreceptor genes in the rainbow trout genome Christy Smith; Courtney Bell; Matt Hale
73	The genome of <i>Bambusicola thoracicus</i> and insights on molecular evolution in Phasianidae George Tiley; Rebecca Kimball; Ed Braun; Peter Hosner; J. Gordon Burleigh
74	Exploring the Cannabinoid pathway genes in <i>Cannabis sativa</i> Daniela Vergara
75	Generalized alien index pipeline detects horizontal gene transfer and contamination in genome assemblies Jennifer Wisecaver; Antonis Rokas
76	Joint modeling of error processes from whole genome sequencing using mixtures of Dirichlet multinomial distribution Steven Wu; Rachel Schwartz; David Winter; Donald Conrad; Reed Cartwright

Host-parasite	
77	Role of parasite transmission in promoting inbreeding Jillian Detwiler; Isabel Caballero; <b>Charles Criscione</b>
78	Museum metagenomics: a novel pathway revealing gut helminth communities and microbiomes of small mammals Stephen Greiman; J. Cook; V. Tkach; A. Hope; S. Talbot; E. Hoberg; Damian Menning; Sarah Sonsthagen;
79	Divergence and Diversity in Primate CD4 and CCR5, the HIV/SIV Receptors Maria Kaczmarek
89	Ectoparasite diversity on wild fauna species of economic importance in Ondo State, Nigeria Bukola Oguntuase
81	Host associations and biogeography of parasitic avian chewing lice from Sub-Saharan Africa Oona Takano; Gary Voelker; Jessica Light
Life History	
82	Direct evidence that metabolic genes underlie temperate adaptation of <i>Drosophila melanogaster</i> life history Spencer Koury
83	Measurements of oxidative stress vary with tissue type and reproductive status in Damaraland mole-rats ( <i>Fukomys damarensis</i> ) Christina Schmidt; Sandra Arbi; Jon Blount; Nigel Bennett
84	Comparative dispersal abilities in a fig wasp community Vignesh Venkateswaran; Renee Borges; Anusha Kumble; Amitabh Srivastava
85	Pathogen induced immune response in <i>Nicrophorus vespilloides</i> Michelle Ziadie
Macroevolution	
86	Loss of the melanocortin 1 receptor in domestic pigeons affects pigmentation patterning Shreyas Krishnan; John Fondon III
87	Diversity-dependent diversification: Fact or artifact? Andrew Magee; Michael May; Brian Moore
88	Convergent evolution provides evidence of similar radiations in shell shape in the turtle families Emydidae and Geoemydidae Connor McLaughlin; C. Tristan Stayton
89	Selection drove the evolution of the Lemur skull Anna Penna; Gabriel Marroig
90	The evolutionary history of fossil and extant Lungfish Rafael Rivero; Ricardo Betancur-R; Dahiana Arcila
Molecular evolution	

91	Gene duplication as an escape from evolutionary constraint: a study of the Na <sup>+</sup> /K <sup>+</sup> ATPase's function in Milkweed bugs Jennifer Lohr
92	Testing models of molecular divergence in the hormone synthesis pathway Carrie Olson-Manning; Joe Thornton
93	BlastPhyMe: A toolkit for rapid generation and analysis of protein-coding sequence datasets Ryan Schott; Daniel Gow; Belinda Chang
94	Parallel signatures of selection in an avian family: genomic landscapes of genetic diversity and divergence are conserved across evolutionary time Benjamin Van Doren; Leonardo Campagna; Barbara Helm; Juan Carlos Illera; Irby Lovette; Miriam Liedvogel
95	Swimming with the Red Queen: Adaptive evolution of a ZP-domain glycoprotein in galaxiid fishes Graham Wallis; Lise Wallis; David Winter; Luca Jovine
96	Mitochondrial tRNA gene loss in the angiosperm family Caryophyllaceae Jessica Warren; Daniel Sloan
97	Environmental drivers, gene recruitment and the evolution of aquatic CAM photosynthesis Daniel Wood
98	Making colorful tomatoes: evolution of carotenoid pathway genes Altynay Zhanayeva; Ana Caicedo; Ian Gillis; Madeleine Klein
<b>Mutualism</b>	
99	Plant polyploidy may enhance the legume-rhizobia mutualism by altering root architecture and bacteroid structure Nicole Forrester; Tia-Lynn Ashman
100	Assessing the holobiont response to disturbance: bacterial community structure in a threatened salamander reveals important considerations related to amphibian conservation Obed Hernandez-Gomez; Rod Williams
101	Dimensions of holobiont biodiversity: the interplay between ecology, evolution, and geography in the 46 million year old symbiosis between turtle ants and their gut bacteria Jacob Russell; Corrie Moreau; Scott Powell; John Wertz; Yi Hu; Shauna Price; Jon Sanders
<b>Phenotypic plasticity/GxE</b>	
102	Phenotypic variation across an exposure and latitudinal gradient in two gastropods Nicole Bitler
103	Salt tolerance in a native prairie legume: The interaction of genes and the environment Nicholas Goldsmith; Amber Eule-Nashoba
104	Effects of global epigenetic DNA hypomethylation on germination and flowering in <i>Brassica rapa</i> Emily Kottler; Steven Franks; Acer VanWallendael

105	Plasticity emerges from common environmental influences – how the nest shapes variation in behavior in a passerine bird Kathleen Miller; Kellan Weston; Christopher Gurguis
106	Among population variation in root and shoot plasticity and plasticity of integration in <i>A. thaliana</i> Elsa Cousins; Courtney Murren
<b>Phylogenetic theory/methods</b>	
26	Phylogenetic Networks Reconstruction from Distorted Metrics Kun-Chieh Wang, Sebastien Roch
107	Characterizing the terraced treescapes of recent phylogenetic studies Barbara Dobrin; Derrick Zwickl; Michael Sanderson
108	Cladogenetic and anagenetic models of chromosome number evolution: model averaging using reversible jump MCMC Will Freyman
109	To include or not to include: The impact of missing data on summary methods for species tree estimation Erin Molloy; Tandy Warnow
110	An explicit positional model to explore UCE rate heterogeneity David Morris; Jeremy Brown
111	FuturePhy: NSF conferences and workshops on the future of phylogenetics Mark Westneat; David Maddison; Lucinda McDade; Betsy Arnold; Rob Knight
<b>Phylogenomics</b>	
112	Gene genealogy interrogation: a new way to analyze phylogenomic data sets Guillermo Orti; Dahiana Arcila; Ricardo Betancur-R
113	Choosing between reduced representation and targeted enrichment for phylogenomics Eric Pante; Amélia Viricel
114	Phylogenomics of a large radiation of Neotropical rodents: untangling the intertribal relationships of Sigmodontinae Andres Parada; Juan C. Opazo; John Hanson; Joseph Cook; Enrique P. Lessa; Guillermo D'Elia
115	TreeToReads: Validation of phylogenomic analysis methods for pathogen traceback Emily Jane McTavish; Marc Allard; James Pettengill; Errol Strain; <b>Ruth Timme</b>
116	Combination of phylogenetics and genetic mapping reveals ancient hybrid origin of a decaploid strawberry Na Wei; Jacob Tennesen; Aaron Liston; Tia-Lynn Ashman
117	Goldilocks and phylogenomics: intron presence-absence rarely gets it just right Brooke Weinstein; Scott Roy
<b>Phylogeography</b>	
118	Identifying the number and geographic location of ancestral refugia with spatially explicit models and ABC in the Alaskan Ground Squirrel

	Mariah Kenney; L. Lacey Knowles
119	Genomic phylogeography of a “Great Speciator” ( <i>Zosterops sp.</i> ): isolation and gene flow variation among Solomon Islands populations Joseph Manthey; Michael Andersen; Carl Oliveros; Chris Filardi; Robert Moyle
120	Origins of diversification in a widespread neotropical frog genus, <i>Hypsiboas</i> Cinnamon Mittan
121	Analysis of reproductive mode (placental and nonplacental) on genetic variation across geographically isolated populations of <i>P. prolifica</i> and <i>P. infans</i> Anthony Nguyen; Keenan Morrison; David Reznick; William Tedjo; Tasnim Rahman
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123	Determining the optimal sample size for an Amazonian plant species in the genomic era Alison Nazareno; Jordan Bemmels; Christopher Dick; Lúcia Lohmann
124	Active pollination behavior of pollinating insects leads to sexual dimorphism in floral scents. Tomoko Okamoto
125	Shoot height and growth form variation across and within ecotypes of <i>Mimulus guttatus</i> Damian Popovic
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126	Genomic tests for inbreeding, population structure and selection in Hudson River eastern oysters, <i>Crassostrea virginica</i> Matthew Hare; Yuka Kutsumi
127	A rescue in the desert: fitness in inbred fish recovered after admixture Kyle Keepers; Nolan Kane; Andrew Martin
128	Genetic structure of seagrasses from the western Gulf of Mexico Patrick Larkin; Sebastian Rubiano; Tabitha Maloney; Michael Barrett
129	Phylogeography of a reef fish Daniel Volk; Carlos E. L. Ferreira; Eric Hoffman
130	Genetic diversity of the Wyoming endemic <i>Phlox pungens</i> (Polemoniaceae), placed within a taxonomic context Mercedes Santiago; <b>Katherine Waselkov</b> ; Bonnie Heidel; Mark H. Mayfield; Carolyn J. Ferguson
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133	Transposable element discovery methods and the detection of clinal TEs in <i>Drosophila melanogaster</i> Jeffrey Adrion; Matthew Hahn
134	The Moran Coalescent in a linear spatial model Max Shpak; Jie Lu
135	Population pedigrees and inference in a subdivided population with migration John Wakeley; Peter Wilton; Pierre Baduel; Matthieu Landon

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71	Best frenemies forever: Recombinations between friend virus complex and related ERVs alter retroviral evolutionary trajectory Earl Middlebrook; Douglas Cornwall; Jason Kubinak; Wayne Potts
136	The distribution of PRDM in vertebrates Zachary Baker; Molly Schumer; Molly Przeworski
137	Recombination in the chloroplasts of the Andean subtribe Iochrominae (Solanaceae) Erin Collier-Zans; Nolan Kane
138	Sex chromosome evolution in House Geckos ( <i>Hemidactylus</i> ) Tony Gamble
139	Adaptive Gene-Drive: does meiosis facilitate a mechanism that can bias gene conversion in favor of existing (wildtype) alleles, and against newly arising mutations? Virgil Reese
140	The evolution of fine-scale recombination rates across the threespine stickleback genome Alice Shanfelter; Yoel Stuart; Jesse Weber; Lucas Nell; Daniel Bolnick; Michael White
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141	Exploring variation in courtship song throughout the <i>Drosophila nasuta</i> clade Wynn Meyer; Dat Mai; Matthew Nalley; Gordon Berman; Doris Bachtrog
142	Niche divergence or conservatism help understand the speciation process in Mexican pines and junipers Alejandra Moreno-Letelier; Niza Gámez; Carmen Domínguez-Bautista
143	Microgeographic adaptation drives the evolution of reproductive isolation in parapatry Henry North; Maddie James; Daniel Ortiz-Barrientos
144	The genetic basis of reproductive isolation in <i>Drosophila</i> : divergent male pheromone preferences isolate sympatric species Michael Shahandeh; Thomas Turner
145	Phylogenetic evidence for cladogenetic polyploidization in land plants Shing Zhan; Michal Drori; Emma Goldberg; Sally Otto; Itay Mayrose
146	Does immigrant inviability promote reproductive isolation among host-associated populations of the gall wasp <i>Belonocnema treatae</i> ? Linyi Zhang; Amanda Driscove; Rebecca Izen; Jim Ott; Scott Egan; Busbee Robert
147	Hybrid allelic imbalance and gene expression evolution in the <i>Anopheles gambiae</i> species complex Kevin Deitz; Willem Takken; Michel Slotman
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150	Molecular phylogenetics of the <i>Peromyscus mexicanus</i> species group Taylor Soniat; Robert Bradley; Nicte Ordonez-Garza

151	Phylogeny of the rodent genus <i>Thomasomys</i> (Rodentia: Cricetidae) based on mitochondrial markers Samantha Studvick; Kathryn Mitchell; Joshua Brokaw
152	Patterns of diversification of a widespread South American tribe of snakes (Dipsadidae, Xenodontinae, Tachymenini) Vivian Trevine; Felipe Grazziotin; Brice Noonan; Hussam Zaher
153	Preliminary phylogeny of Deep-sea Wood-boring bivalves Janet Voight; J Dylan Maddox
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154	Development of gnotobiotic threespine stickleback as model for host-microbe interactions Kat Milligan-Myhre
155	Gut microbiome and Bergmann's rule in natural populations of house mice Taichi Suzuki; Felipe Martins; Megan Phifer-Rixey; Michael Nachman
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Abrahams, R. Shawn (University of Missouri)	Angert, Amy (University of British Columbia)
Abrams, Jeanine (CDC)	Antonides, Jenny (Purdue University)
Abramyan, John (Virginia Tech)	Aplin, Lucy (University of Oxford)
Abu Awad, Diala (INRA - SupAgro Montpellier)	Arantes, Ísis (University of Mississippi)
Abubakar, Ramatu (Stony Brook University)	Arbisser, Ilana (Stanford University)
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Adams, Nicole (University of Southern California)	Archibald, Jenny (University of Kansas)
Adams, Paula (University of Alabama)	Arcila, Dahiana (The George Washington University)
Adams, Rich (University of Texas Arlington)	Arendt, Jeff (UC - Riverside)
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Adrian, Jeff (Indiana University)	Arthur, Nick (University of Georgia)
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Agashe, Deepa (National Centre for Biological Sciences (NCBS))	Astudillo-Clavijo, Viviana (University of Toronto)
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Agrawal, Aneil (U Toronto)	Austin, Chris (Louisiana State University)
Agrawal, Anurag (Cornell Univ)	Azevedo, Ricardo (University of Houston)
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Aguirre-Dugua, Xitlali (Instituto de Biología UNAM)	Baer, Charles (University of Florida)
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Anderson, Frank (Southern Illinois University)	Barido-Sottani, Joelle (ETH Zurich)
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	Bartheld, José Luis (Universidad Austral)



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 Fletcher, Leila (University of California, Los Angeles)  
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 Foisy, Michael (University of Toronto)  
 Foley, Mary (University of Kentucky)  
 Foley, Nicole (University College Dublin)  
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 Frank, Andrew (University of Connecticut)  
 Franks, Steve (Fordham University)  
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 Freeman, Ben (University of British Columbia)  
 Freyman, Will (University of California, Berkeley)  
 Friedline, Chris (Virginia Commonwealth University)  
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 Fristoe, Trevor (Washington University in St Louis)  
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 Fuller, Becky (University of Illinois)  
 Fuller, Zach (Penn State)  
 Fumagalli, Sarah (Texas Tech University)  
 Funk, Emily (Cornell University)  
 Furman, Benjamin (McMaster University)  
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 Galloway, Laura (University of Virginia)  
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 Genty, Gabrielle (University of Los Andes)  
 Gerardo, Nicole (Emory University)  
 Gering, Eben (Michigan State University)  
 Gettle, Noah (University of Minnesota)  
 Gherghel, Iulian (Case Western Reserve University)  
 Ghiselli, Fabrizio (University of Bologna)  
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 Gibbs, Lisle (Ohio State University)  
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 Grewelle, Richard (University of Kentucky)  
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 Guarnizo, Carlos (University of los Andes)  
 Guerrero, Rafael (Indiana University)  
 Guillerme, Thomas (Imperial College)  
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 Gulli, Jordan (Georgia Tech)  
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 Kelly, Joe (Stony Brook University)  
 Kelly, John (University of Kansas)  
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 Lara, Carlos (University of Otago)  
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 Mojica, Julius (Duke University)  
 Molina, Jean (Long Island University)  
 Molloy, Erin (University of Illinois at Urbana-Champaign)  
 Molnar, Ruxandra (Evolutionary Biology Centre)  
 Monahan, Patrick (Science Magazine)  
 Mongiardino Koch, Nicolas (Yale University)  
 Mongue, Andrew (University of Kansas)  
 Monroe, Grey (Colorado State University)  
 Moody, Michael (University of Texas at El Paso)  
 Moorad, Jacob (University of Edinburgh)  
 Moore, Allen (University of Georgia)  
 Moore, Brian (UC Davis)  
 Moore, Paco (National Science Foundation)  
 Moore, Tim (University of Connecticut)  
 Mora, Emiliano (Instituto de Ecología UNAM)  
 Moraes, Lucas (National Centre for Flora Conservation (Brazil) - Federal University of Rio de Janeiro)  
 Morales, Ariadna (The Ohio State University)  
 Morales-Briones, Diego (University of Idaho)  
 Moran, Nancy (University of Texas at Austin)  
 Moran, Rachel (University of Illinois)  
 Moreau, Corrie (Field Museum of Natural History)  
 Morehouse, Nate (University of Pittsburgh)  
 Moreno, Jorge (University of Iowa)  
 Moreno-Letelier, Alejandra (Universidad Nacional Autonoma de Mexico)  
 Moreno-Villena, Jose J (University of Sheffield)  
 Morgan, Katy (University of New Orleans)  
 Moriarty Lemmon, Emily (Florida State University)  
 Morley, Valerie (Yale University)  
 Morris, David (LSU)  
 Morris, Jake (University of York)  
 Morrison, Erin (University of Arizona)  
 Mount, Genevieve (Museum of Natural Science, Louisiana State University)  
 Moyers, Brook (Colorado State University)  
 Muir, Chris (UBC)  
 Muirhead, Christina  
 Mundy, Nick (University of Cambridge)  
 Muñoz-Ortiz, Astrid (Universidad de La Salle)  
 Munoz-Ramirez, Carlos (EEB, University of Michigan)  
 Munshi-South, Jason (Fordham University)  
 Muralidhar, Pavitra (Harvard University)  
 Murdock, Duncan (The University of Alabama)

Murnik, Mary (Ferris State University)  
 Murren, Courtney (College of Charleston)  
 Musher, Luke (American Museum of Natural History)  
 Nachman, Michael (UC Berkeley)  
 Nakahara, Toru (Kyushu University)  
 Nakhleh, Luay (Rice University)  
 Nakov, Teo (University of Arkansas)  
 Narum, Shawn (Univ. Idaho / CRITFC)  
 Nascimento, Fabricia (University of Oxford)  
 Nasrullah, Qamariya (Monash University)  
 Nations, Jon (LSU Museum of Natural Science)  
 Naylor, Gavin (Hollings Marine Lab)  
 Nazareno, Alison (University of São Paulo)  
 Near, Tom (Yale University)  
 Nelson, Amanda (University of Toronto Mississauga)  
 Nelson, Paul (University of Arizona)  
 Newman, Cathy (Louisiana State University)  
 Newman, Ethan (Stellenbosch University)  
 Ng, Julianne (University of Colorado Boulder)  
 Ng'oma, Enoch (University of Missouri)  
 Nguyen, Andrew (University of Vermont)  
 Nguyen, Anthony (University of California Riverside)  
 Nice, Chris (Texas State University)  
 Nielsen, Matthew (University of Arizona)  
 Nielsen, Stu (Marquette University)  
 Nishida, Alex (UT Austin)  
 Noh, Suegene (Washington University in St. Louis)  
 Nonaka, Etsuko (University of Helsinki & Lund University)  
 Noor, Julie (Duke University)  
 Noor, Mohamed (Duke University)  
 Nordahl, Oscar (Linnaeus University)  
 North, Henry (The University of Queensland)  
 Novosolov, Maria (Tel Aviv University)  
 Nowak, Mike (University of Oslo Natural History Museum)  
 Nunez, Joaquin (Brown University)  
 Nunney, Len (University of California)  
 Nydam, Marie (Centre College)  
 Oakley, Chris (Michigan State University)  
 O'Brien, Anna (University of California Davis)  
 O'Brien, Katherine (University Of Nebraska)  
 Ochman, Howard (UT Austin)  
 O'Connell, Kyle (University of Texas Arlington)  
 O'Connell, Lauren (Harvard University)  
 O'Connor, Christine (University of Oregon)  
 O'Donnell, Danny (Kellogg Biological Station, Michigan State University)  
 Ogilvie, Huw (Australian National University)  
 Oguntuase, Bukola (Federal University of Technology)  
 Okamoto, Tomoko (Gifu University)  
 Olave, Melisa (University of Michigan)  
 Olito, Colin (Monash University)  
 Oliver, Paul (Australian National University)  
 Oliveros, Carl (Louisiana State University)  
 Olofsson, Jill (University of Sheffield)  
 Olsen, Ken (Washington University)  
 Olson, Matt (Tx Tech U.)  
 Olson-Manning, Carrie (University of Chicago)  
 Olzer, Rachel (University of Minnesota- Twin Cities)  
 Organ, Chris (Montana State University)  
 Orive, Maria (University of Kansas)  
 Orlansky, Sigal (TAU)  
 Orti, Guillermo (George Washington University)  
 Ortiz-Barrientos, Daniel (The University of Queensland)  
 Orzack, Steven (Fresh Pond Research Institute)  
 Osborne, Teresa Rose (SUNY College of Environmental Science and Forestry)  
 Osmanski, Austin (Texas Tech University)  
 Osmond, Matt (University of British Columbia)  
 Ostevik, Kate (Duke)  
 Ostrowski, Elizabeth (University of Houston)  
 Oswald, Jessica (Louisiana State University)  
 Otero Bravo, Alejandro (Ohio State University)  
 Otto, Sally (University of British Columbia)  
 Outomuro, David (Animal Ecology, Uppsala University)  
 Overgaard Therkildsen, Nina (Cornell University)  
 Owen, Aaron (City University of New York)  
 Owens, Gregory (University of British Columbia)  
 Owens, Hannah (Florida Museum of Natural History, University of Florida)  
 Oyamaguchi, Hilton (Drexel University)  
 Paccard, Antoine (McGill University)  
 Paczolt, Kim (University of Maryland)  
 Paez, David (MSU)  
 Paez-Vacas, Monica (Colorado State University)  
 Pak, Nina (UC Berkeley)  
 Palacio, Juan (The University of Texas at Austin)  
 Palazzesi, Luis (MACN-CONICET)  
 Palmer-Brown, Bianca (Brown University)  
 Palmer-Young, Evan (University of Massachusetts)  
 Panero, Jose L. (University of Texas)  
 Pangburn, Sarah (Wellesley College)  
 Pankey, Sabrina (University of New Hampshire)  
 Pante, Eric (CNRS - University of La Rochelle)  
 Papoulas, Ophelia (University of Texas at Austin)  
 Parada, Andres (Universidad Austral de Chile - UACH)  
 Parchman, Tom (University of Nevada, Reno)  
 Pardo, Carlos (Universidad de Los Andes)  
 Parigi, Abhijna (Michigan State University)  
 Parker, Joseph (Columbia University/American Museum of Natural History)  
 Parzer, Harald (Fairleigh Dickinson University)  
 Pasquesi, Giulia (University of Texas Arlington)  
 Passamonti, Marco (University of Bologna)  
 Patel, Maulik (Vanderbilt University)  
 Patterson, Lindsay (Tumble Science Podcast for Kids)  
 Pavolva, Svetlana (A.N. Severtsov Institute of Ecology and Evolution RAS)  
 Pease, James (Wake Forest University)  
 Peckenpaugh, Brooke (University of California, Davis)  
 Pedersen, Kristopher  
 Peng, Foen (University of Washington)  
 Penna, Anna (University of Sao Paulo - USP)  
 Pennell, Matt (UBC)  
 Penner, Shira  
 Pennock, Rob (Michigan State Univ.)  
 Pentz, Jennifer (Georgia Institute of Technology)

Pepper, Alan (Texas A&M University)  
 Perkins, Susan (American Museum of Natural History)  
 Perry, Blair (University of Texas at Arlington)  
 Peterson, Daniel (University of Massachusetts)  
 Petrie, Katherine (UC San Diego & ELSI (Tokyo Tech))  
 Petrillo, Nikelle (Providence College)  
 Phifer-Rixey, Megan (UC Berkeley)  
 Phillips, Barret (University of Southern California)  
 Phillips, Caleb (Texas Tech University)  
 Phillips, John G. (University of Tulsa)  
 Phuong, Mark  
 Pie, Marcio (UFPR)  
 Pierce, Kelly (Flinders University)  
 Pierce, Naomi (Harvard University)  
 Pierson, Todd (University of Tennessee)  
 Pineda-Munoz, Silvia (Smithsonian Institution)  
 Pintar, Matthew (University of Mississippi)  
 Pirani, Renata (National Research Institute of the Amazon (INPA))  
 Plachetzki, Dave (University of New Hampshire)  
 Plakke, Melissa (University of Pittsburgh)  
 Platt, Alexander (Temple University)  
 Platt, Roy (Neal) (Texas Tech University)  
 Plotkin, David (University of Florida)  
 Pollock, David (University of Colorado School of Medicine)  
 Pollock, Laura (LECA, CNRS)  
 Pool, John (University of Wisconsin)  
 Popkin-Hall, Zach (Texas A&M University)  
 Popovic, Damian (Michigan State University)  
 Poppleton, Daniel (Institute Pasteur)  
 Portik, Dan (University of Texas at Arlington)  
 Powell, Alexis (Emporia State University)  
 Powell, Daniel (Texas A&M University)  
 Powell, Scott (George Washington University)  
 Powell, Tom (University of Florida)  
 Pozzi, Andrea (University of Bologna)  
 Pozzi, Luca (German Primate Center - DPZ)  
 Prado, Joyce (Universidade de São Paulo)  
 Prado-Irwin, Sofia (Harvard University)  
 Prates, Ivan (City University of New York (CUNY))  
 Pray, Reavelyn (Del Mar College)  
 Preston, Jill (University of Vermont)  
 Price, Nicholas (Colorado State University)  
 Price, Sam (UC Davis)  
 Price, Shauna (Field Museum of Natural History)  
 Price, Valerie (UT Dallas)  
 Pritchard, Victoria (University of Turku)  
 Proffitt, James (The University of Texas at Austin)  
 Puckett, Emily (Fordham University)  
 Purcell, Jessica (UC Riverside)  
 Puritz, Jonathan (Marine Science Center, Northeastern University)  
 Putonti, Catherine (Loyola University Chicago)  
 Qi, Xinshuai (University of Arizona)  
 Qiu, Fan (Kansas State University)  
 Quintero, Ignacio (Yale University)  
 Rabosky, Dan (University of Michigan)  
 Raduski, Andy (University of Illinois Chicago)  
 Raices, Julia (University of Sao Paulo)  
 Ralph, Peter (University of Oregon)  
 Ramanauskas, Karolis (University of Illinois)  
 Ramsey, Mary (University of Texas)  
 Ramstad, Kristina (University of South Carolina Aiken)  
 Rand, David (Brown University)  
 Ratcliff, Will (Georgia Tech)  
 Rattray, Jennifer (Georgia Institute of Technology)  
 Rausher, Mark (Duke University)  
 Ray, David (Texas Tech University)  
 Raymann, Kasie (University of Texas)  
 Razzaque, samsad (The University of Texas at Austin)  
 Reardon, Chris (University of Arizona)  
 Rebolleda-Gomez, Maria (University of Minnesota)  
 Redelings, Benjamin (Duke University)  
 Reding, Luke (University of Texas at Austin)  
 Reeder, Tod (San Diego State University)  
 Reese, Virgil  
 Rego, Alexandre (Utah State University)  
 Reilly, Sean (Museum of Vertebrate Zoology, UC Berkeley)  
 Remfert, Jane (Virginia Commonwealth University)  
 Renn, Suzy (Reed College)  
 Renner, Tanya (San Diego State University)  
 Resetarits, Emlyn (University of Texas at Austin)  
 Resetarits, William (University of Mississippi)  
 Revell, Liam (University of Massachusetts Boston)  
 Reyes-Velasco, Jacobo (NYUAD)  
 Reynolds, Austin (University of Texas at Austin)  
 Reynolds, R. Graham (University of North Carolina Asheville)  
 Rhodes, John (University of Alaska Fairbanks)  
 Rieseberg, Loren (University of British Columbia)  
 Rifkin, Joanna (Duke University)  
 Riginos, Cynthia (The University of Queensland)  
 Rissler, Leslie (National Science Foundation)  
 Ritschard, Elena (Universidad de los Andes)  
 Rivera, Danielle (University of Texas Arlington)  
 Rivera, Maria (Virginia Commonwealth University)  
 Rivera, Vanessa (Universidade de Brasília)  
 Rivero, Rafael (Universidad de Puerto Rico - Recinto de Rio Piedras)  
 Robertson, Stirling (TxDOT)  
 Robins, Chloe (Emory University)  
 Robison, Barrie (University of Idaho)  
 Robison, Grant (The University Of Tulsa)  
 Roch, Sebastien (UW-Madison)  
 Rockenbach, Kate (Colorado State University)  
 Roda, Federico (Harvard University)  
 Rodd, Helen (University of Toronto)  
 Rodriguez, David (Texas State University)  
 Rodriguez, Rosa (The Ohio State University)  
 Rodriguez, Zachary (Louisiana State University)  
 Rodríguez-Brenes, Sofía (University of Texas at Austin)  
 Roff, Derek (University of California)  
 Rogalski, Mary (University of Michigan)  
 Rogell, Björn (Stockholm University)  
 Rogers, Catherine (University of Texas Arlington)  
 Rokyta, Darin (Florida State University)

Roles, Angie (Oberlin College)  
 Rolfes, Sarah (Tierärztliche Hochschule Hannover)  
 Rong, Stephen (Brown University)  
 Rosauer, Dan (Australian National University)  
 Rose, Emily (Texas A&M University)  
 Rosenberg, Mike (Arizona State University)  
 Rosenblum, Erica Bree (University of California, Berkeley)  
 Rosenthal, Gil (Texas A&M University / CICHZ)  
 Rosenzweig, Ben (Indiana University)  
 Roth, Andrea (Brigham Young University)  
 Rothfels, Carl (UC Berkeley)  
 Rougeux, Clément (Université Laval)  
 Roussos, Stephen (University of North Texas)  
 Rovito, Sean (Langebio, Centro de Investigación y Estudios Avanzados del IPN)  
 Rowe, Locke (University of Toronto)  
 Rowe, Taylor (Queen's University)  
 Royer, Anne (Willamette University)  
 Roze, Denis Roze (CNRS)  
 Rozins, Carly (Queen's University)  
 Rúa, Megan (National Institute for Mathematical and Biological Synthesis)  
 RUANE, SARA (LSU Museum of Natural Science)  
 Rubin, Matthew (Syracuse University)  
 Ruffley, Megan (University of Idaho)  
 Ruggiero, Robert (NYU Abu Dhabi)  
 Rundell, Rebecca (State University of New York College of Environmental Science and Forestry)  
 Rundle, Howard (uOttawa)  
 Rushworth, Cathy (UC Berkeley)  
 Russell, Jake (Drexel University)  
 Rutschmann, Sereina (University of Vigo)  
 Rutter, Matt (College of Charleston)  
 Ryan, Sean (USDA-ARS)  
 Sabree, Zakee (The Ohio State University)  
 Sachs, Joel (University of California - Riverside)  
 Sackett, Loren (Smithsonian Institution)  
 Sackman, Andrew (Florida State University)  
 Sackville, Michael (University of British Columbia, Department of Zoology)  
 Safran, Rebecca (University of Colorado)  
 Saladin, Bianca (Swiss Federal Research Inst. WSL)  
 Salamin, Nicolas (University of Lausanne)  
 Salem, Hassan (Emory University)  
 Salter, Jessie (Louisiana State University)  
 Saltz, Julia (Rice University)  
 Samuk, Kieran (University of British Columbia)  
 San Jose, Mike (University of Hawaii)  
 Sánchez-Reyes, Luna (UNAM)  
 Sandate, Oscar (Texas Tech University)  
 Sandkam, Ben (Simon Fraser University)  
 Sankoh, Mariam (Virginia Commonwealth University)  
 Santonastaso, Trent (University of New Orleans)  
 Santos, Cinthya (Universidade Federal Fluminense)  
 Santos, Malia (Willamette University)  
 Sapir, Yuval (Tel Aviv University)  
 Sardell, Jason (University of Texas at Austin)  
 Sarikaya, Didem (UC Davis)  
 Sarver, Brice (University of Montana)  
 Saslis, Haris (NHM Denmark)  
 Satler, Jordan (The Ohio State University)  
 Saulsberry, Ashley (University of Utah)  
 Saunier, Alice (Littoral Environnement et Sociétés - UMR 7266 - CNRS - Université de La Rochelle)  
 Saupe, Erin (Yale University)  
 Sauquet, Herve (Universite Paris-Sud)  
 Sayyari, Erfan  
 Scarpino, Sam (University of Vermont)  
 Schaack, Sarah (Reed College)  
 Scheiner, Sam (US National Science Foundation)  
 Schick, Alana (University of Ottawa)  
 Schiebelhut, Lauren (University of California, Merced)  
 Schield, Drew (University of Texas at Arlington)  
 Schiffman, Josh (University of Southern California)  
 Schilling, Martin (Utah State University)  
 SCHLICHTING, CARL (UCONN)  
 Schliep, Klaus (University of Massachusetts Boston)  
 Schlupp, Ingo (University of Oklahoma)  
 Schmid, Kelly (Syracuse University)  
 Schmidt, Christina (Wells College)  
 Schossau, Jory (Michigan State University)  
 Schott, Ryan (University of Toronto)  
 Schrader, Matthew (University of the South)  
 Schuenzel, Erin (UTRGV)  
 Schulte, Jim (Beloit College)  
 Schultz, Nick (University of Southern California)  
 Schultzhaus, Janna (Texas A&M University)  
 Schumer, Molly (Columbia University)  
 Schwab, Daniel (Indiana University)  
 Schwab, Jennifer (Mississippi State University)  
 Schwartz, Kathryn (Michigan State University)  
 Schweizer, Rena (University of Montana)  
 Schwery, Orlando (University of Tennessee)  
 Scordato, Liz (The University of Colorado)  
 Scornavacca, Céline (ISE-M, University of Montpellier)  
 Scott, Alison Dawn (University of Wisconsin)  
 Scott, Graham (McMaster University)  
 Scott, Michael (University of British Columbia)  
 Scott, Peter (University of Alabama)  
 Seger, Jon (University of Utah)  
 Segura, Claudette (University of Texas Rio Grande Valley)  
 Seidl, Fabian (University of Southern California)  
 Selby, Jessica (Duke University)  
 Sequeira, Andrea (Wellesley College)  
 Serr, Megan (North Carolina State University)  
 Serrano-Serrano, Martha Liliana (University of Lausanne)  
 Serrato, Antonio (University of North Carolina-Chapel Hill)  
 Servedio, Maria (University of North Carolina)  
 Sessa, Emily (University of Florida)  
 Sethuraman, Arun (Temple University)  
 Sexton, Jason (UC Merced)  
 Shah, Premal (Rutgers University)  
 Shahandeh, Mike (University of California Santa Barbara)  
 Shanfelter, Alice (University of Georgia, Department of Genetics)

Shangguan, Julia (Grinnell College)  
 Shapiro, Jason (Loyola University Chicago)  
 Sharbrough, Joel (University of Iowa)  
 Sharp, Nathaniel (University of British Columbia)  
 Sharpe, Samantha (Kansas State University)  
 Shaver, Amanda (University of Georgia)  
 Shaw, Clara (University of Michigan)  
 Shaw, Frank (Hamline University)  
 Shaw, Ruth (University of Minnesota)  
 Shearman, Helen (Biomatters)  
 Sheldon, Ben (Dept of Zoology, University of Oxford)  
 Sheneman, Leigh (Michigan State University)  
 Sheth, Seema (UC Berkeley)  
 Shi, Jeff (University of Michigan)  
 Shpak, Max (St. David's Medical Center)  
 Shu, Longfei (Washington University in St. Louis)  
 Sible, Emily (Loyola University Chicago)  
 Siddiq, Mo (University of Chicago)  
 Sideris, Stefany (University of Washington -Bothell)  
 Signor, Sarah (University of Southern California)  
 Sikkink, Kristin (University of Minnesota)  
 Siljestam, Mattias (Uppsala University)  
 Silva, Ana (Australia National University and Lisbon University)  
 Simmonds, Emily (University of Oxford)  
 Simmonds, Sara (UCLA)  
 Simms, Ellen (UC Berkeley)  
 Simoes, Marianna (University of Kansas)  
 Simon, Chris (UCONN)  
 Simon, Monique (Universidade de São Paulo)  
 Simpson, Raymond (Yale University)  
 Singer, Matthew (University of Idaho)  
 Singh, Amardeep (University of Toronto)  
 Singhal, Sonia (University of Washington)  
 Sinha, Ishani (Centre for Ecological Sciences, Indian Institute of Science)  
 Sinnott-Armstrong, Miranda (Yale University)  
 Sistrom, Mark (UC Merced)  
 Slate, Jon (University of Sheffield)  
 Slater, Graham (University of Chicago)  
 Sless, Trevor (Cornell University)  
 Sloan, Dan (Colorado State University)  
 Slowinski, Samuel (Indiana University)  
 Sly, Nicholas (University of Montana)  
 Small, Clay (University of Oregon)  
 Smith, Brian (American Museum of Natural History)  
 Smith, Chad (University of Texas at Austin)  
 Smith, Chris (CU Boulder)  
 Smith, Chris (Willamette University)  
 Smith, Christy  
 Smith, Heather (Mississippi State University)  
 Smith, Megan (Ohio State University)  
 Smith, Stacey D. (University of Colorado)  
 Smithson, Mark (Washington State University)  
 Smits, Peter (University of Chicago)  
 Smukowski Heil, Caiti (University of Washington)  
 Sneck, Michelle (Rice University)  
 Snyder, Andrew (University of Mississippi)  
 Solari, Katie (Stanford University)  
 Solis-Lemus, Claudia (University of Wisconsin-Madison)  
 Solomon, Scott (Rice University)  
 Soniat, Taylor (Texas Tech University)  
 Soper, Deanna (University of Iowa)  
 Sosa, Tim (University of Chicago; Field Museum)  
 Sotero-Caio, Cibele (Texas Tech University)  
 Sparks, Morgan (University of Alaska Fairbanks)  
 Speer, Kelly (RGGS/American Museum of Natural History)  
 Spencer, Hamish (University of Otago)  
 Spigler, Rachel (Temple University)  
 Spriggs, Beth (Yale University)  
 St. John, Katherine (CUNY/AMNH)  
 Staley, Molly (Auburn University)  
 Stange, Madlen (University of Zürich, Paleontological Institute and Museum)  
 Stanger-Hall, Kathrin (University of Georgia)  
 Stayton, Tristan (Bucknell University)  
 Steel, Mike (University of Canterbury)  
 Steele, Sarah (University of Toronto)  
 Steinel, Natalie (University of Texas at Austin)  
 Stephens, Jess (University of Georgia)  
 Steppan, Scott (Florida State Univ.)  
 Stevison, Laurie (Auburn University)  
 Stiller, Josefin (Scripps Institution of Oceanography, University of California San Diego)  
 Stinchcombe, John (University of Toronto)  
 Stitzer, Michelle (UC Davis)  
 Stoddard, Mary (Princeton University)  
 Storz, Jay (University of Nebraska)  
 Streett, David (University of Idaho)  
 Streicher, Jeff (The Natural History Museum)  
 Strine, Madison (Gettysburg College)  
 Ströher, Patrícia R. (UFPR)  
 Strotz, Luke (Yale University)  
 Strugariu, Alexandru (Alexandru Ioan Cuza University of Iasi)  
 Stuart, Yoel (University of Texas at Austin)  
 Stubbs, Alexander (UC Berkeley)  
 Studvick, Samantha (Abilene Christian University)  
 Stunz, Liz (UTEP)  
 Sukhum, Kimberley (Washington University in Saint Louis)  
 Sukumaran, Jeet (University of Michigan)  
 Sullivan, Jack (University of Idaho)  
 Sunde, Johanna (Linnaeus University)  
 Sutherland, Brittany (University of Virginia)  
 Suzuki, Noriyuki (UC Berkeley)  
 Suzuki, Taichi (UC Berkeley)  
 Sweet, Andrew (University of Illinois at Urbana-Champaign)  
 Sweigart, Andrea  
 Swift, Holly (University of California, Merced)  
 Swofford, Dave (Duke University)  
 Symonds, Vaughan (Massey University)  
 Symula, Beckie (University of Mississippi)  
 Szöllösi, Gergely (Eötvös University)  
 Sztepanacz, Jacqueline (University of Queensland)  
 Tachiki, Yuuya (Kyoto University)

Takano, Oona (Texas A&M University)  
 Takenaka, Risa (UC Berkeley)  
 Tan, Jiaqi (Georgia Institute of Technology)  
 Tan, Milton (Auburn University)  
 Tangwancharoen, Sumaetee (Scripps Institution of Oceanography, UCSD)  
 Tanke, Natalie (Gettysburg College)  
 Tanner, Jessie (University of Minnesota - Twin Cities)  
 Tao, Qiqing (Temple University)  
 Tariq, Bilal (University of Houston)  
 Tarkington, Jason (University of Houston)  
 Tarvin, Becca (University of Texas at Austin)  
 Tassia, Michael (Auburn University)  
 Tate, Ann (University of Houston)  
 Taub, Max (Southwestern University)  
 Teasdale, Luisa (Museum Victoria and The University of Melbourne)  
 Tedder, Andrew (Stockholm University)  
 Teitel, Zachary (University of Guelph)  
 Templin, Jasmin (University of Arizona)  
 Terbot, II, John (University of Kentucky)  
 Terekhanova, Nadezhda (Institute for Information Transmission Problems)  
 Terrill, Ryan (Museum of Natural Science / Louisiana State University)  
 Terry, Matthew (University of Texas, RGV)  
 Tetreault, Hannah (Kansas State University)  
 Thacker, Bob (Stony Brook University)  
 Theunert, Christoph (UC Berkeley)  
 Thibert-Plante, Xavier (Umea University)  
 Thom, Gregory (University of São Paulo)  
 Thomas, Gregg (Indiana University)  
 Thomaz, Andréa (UMICH)  
 Thompson, Ammon (UC Davis)  
 Thompson, Drew (The George Washington University)  
 Thompson, Ken (University of Toronto)  
 Thomson, Bob (University of Hawaii)  
 Thornton, Kevin (UC Irvine)  
 Tibblin, Petter (Linnaeus University)  
 Tigano, Anna (Queen's University)  
 Tiley, George (University of Florida)  
 Timme, Ruth (FDA)  
 Title, Pascal (University of Michigan)  
 Titus-McQuillan, James (University of Texas at Arlington)  
 Toews, David (Cornell University & Cornell Lab of Ornithology)  
 Tollis, Marc (Arizona State University)  
 Tomasco, Ivanna (Universidad de la Republica)  
 Tomko, Brianne (Gettysburg College)  
 Tonini, João (George Washington University)  
 Torres, Christopher (University of Texas at Austin)  
 Torres-Dowdall, Julián (University of Konstanz)  
 Touns, Melissa (University of Lausanne)  
 Touzet, Pascal (University Lille)  
 Tovar, Ruben (Univ. of Tulsa)  
 Traverse, Chuck (University of Texas - Austin)  
 Trevine, Vivian (MZUSP)  
 Trizzino, Marco (University of Pennsylvania)  
 Trovant, Berenice (IDEAus - CONICET)  
 Tsubaki, Remi (Japan Agency for Marine Earth Science and Technology)  
 Tsuboko-Ishii, Satomi (Scripps Institution of Oceanography, UCSD)  
 Tucker, Abe (Southern Arkansas University)  
 Tulga, Sarah (University of Chicago)  
 Tunstall, Tate (San Diego Zoo Institute for Conservation Research)  
 Turcatel, Mauren (Smithsonian Institution)  
 Turchin, Michael (University of Chicago)  
 Turissini, David (University of North Carolina)  
 Turner, Caroline (University of Pittsburgh)  
 Turner, Kathryn (Colorado State University)  
 Turner, Leslie (Max Planck Inst. for Evolutionary Biology)  
 Tvedte, Eric (University of Iowa)  
 Ul-Hasan, Sabah (UC Merced)  
 Upham, Nate (Yale University / Field Museum of Nat Hist)  
 Urena, Elias (University of Houston)  
 Uyeda, Josef (University of Idaho)  
 Vachaspati, Pranjal (University of Illinois)  
 Valvo, Jennifer (Florida State University)  
 Van Allen, Benjamin (Louisiana State University)  
 Van Belleghem, Steven (University of Puerto Rico)  
 Van Cleve, Jeremy (University of Kentucky)  
 Van Dam, Matthew (Zoologische Staatssammlung (Bavarian State Collection of Zoology))  
 van der Burg, Karin (Cornell University)  
 Van Doren, Benjamin (Cornell University)  
 Vandepas, Lauren (University of Washington)  
 Vargas, Oscar (The University of Texas at Austin)  
 Vasco, Alejandra (Universidad Nacional Autónoma de México)  
 Vasconcellos, Mariana (The University of Texas at Austin)  
 Vaught, Rebecca (Monash University)  
 Vazquez Miranda, Hernan (Florida International University)  
 Vazquez, Ryan (Texas Tech University)  
 Veller, Carl (Harvard University)  
 Velotta, Jon (University of Montana)  
 Venkateswaran, Vignesh (Indian Institute of Science)  
 Verde Arregoitia, Luis (Natural History Museum Bern)  
 Vergara, Daniela (CU Boulder)  
 Verrelli, Brian (Virginia Commonwealth Univ)  
 Vertacnik, Kim (University of Kentucky)  
 Vill, Albert (Gettysburg College)  
 Villa, Scott (University of Utah)  
 Villegas, Rudy (University of Nebraska-Lincoln)  
 Vinson, Logan (UC Davis)  
 Viola, Paul (University of Texas at Austin)  
 Visger, Clayton (University of Florida)  
 Visviki, Annie (College of Mount Saint Vincent)  
 Voight, Janet (Field Museum of Natural History)  
 Vojvodic, Lana (Rowan University)  
 Volk, Daniel (University of Central Florida)  
 Vos, Rutger (Naturalis)  
 Votaw, Heather (University of Houston)  
 Wade, Beth (USDA-ARS)

Wade, Kristen (Virginia Commonwealth University)  
 Wade, Michael (Indiana University)  
 Wadgyar, Susana (University of Georgia)  
 Wagner, Katie (University of Wyoming)  
 Waite-Himmelwright, Jackson (Willamette University)  
 Wakeley, John (OEB, Harvard University)  
 Waldrop, Alex (Virginia Commonwealth University)  
 Wale, Nina (University of Michigan)  
 Walker, Joe (University of Michigan)  
 Wallace, Kell (University of Texas at Austin)  
 Wallis, Graham (Univ of OTAGO)  
 Walsh, Jen (Cornell University)  
 Walsh, Matthew (University of Texas at Arlington)  
 Walterhouse, Stephen (Kansas State University)  
 Wang, Cui (University of Helsinki)  
 Wang, Hsiao-Hsuan "Rose" (Texas A&M University)  
 Wang, Jason (University of Wisconsin - Madison)  
 Wang, Pu (University of Minnesota)  
 Wang, Tristan (Harvard University)  
 Ward, Micaiah (Florida State University)  
 Warnow, Tandy (University of Illinois at Urbana-Champaign)  
 Warren, Dan (Macquarie University)  
 Warren, Jess (Colorado State University)  
 Warwick, Alexa (BEACON Center)  
 Waselkov, Kate (California State University, Fresno)  
 Wason, Paul (John Templeton Foundation)  
 Watson, Charles "Matt" (Midwestern State University)  
 Watson, Eric (University of Southern California)  
 Weaver, Ryan (Auburn University)  
 Weber, Jesse (University of Montana)  
 Weber, Jessica (University of New Mexico)  
 Wei, Na (University of Pittsburgh)  
 Weider, Larry (University of Oklahoma)  
 Weigel, Emily (Spelman College)  
 Weinberg, Rachel (San Francisco State University)  
 Weinstein, Brooke (San Francisco State University)  
 Weintraub, Jory (Duke University)  
 Weir, Jason (University of Toronto)  
 Weis, Art (University of Toronto)  
 Weisman, Cara (Harvard University)  
 Weisrock, David (University of Kentucky)  
 Weitzman, Chava (University of Nevada, Reno)  
 Welch, Mark (Mississippi State University)  
 Welles, Shana (University of Arizona)  
 Weng, Mao-Lun (University of Maryland)  
 Werner, Gijsbert (University of Oxford)  
 Wessinger, Carrie (University of Kansas)  
 Westneat, Mark (University of Chicago)  
 Weston, Kellan (University of Dallas)  
 Whelan, Nathan (Auburn University)  
 Whitaker, Melissa (Harvard Museum of Comparative Zoology)  
 White, Craig (Monash University)  
 White, Kristin (University of Colorado, Boulder)  
 White, Mike (University of Georgia)  
 White, Noor (Univ. Maryland / Smithsonian Inst. National Museum of Natural History)  
 Whitehead, Andrew (University of California Davis)  
 Whitlock, Mike (UBC)

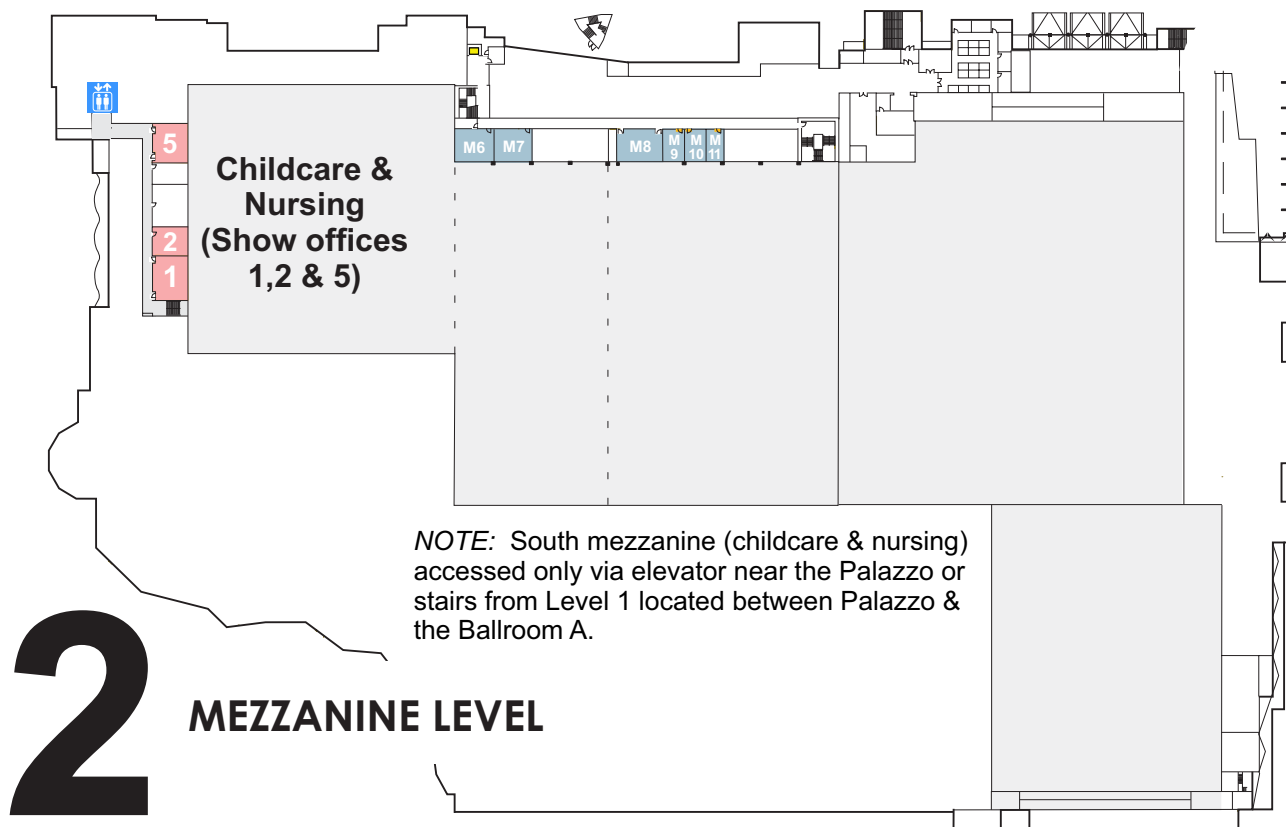
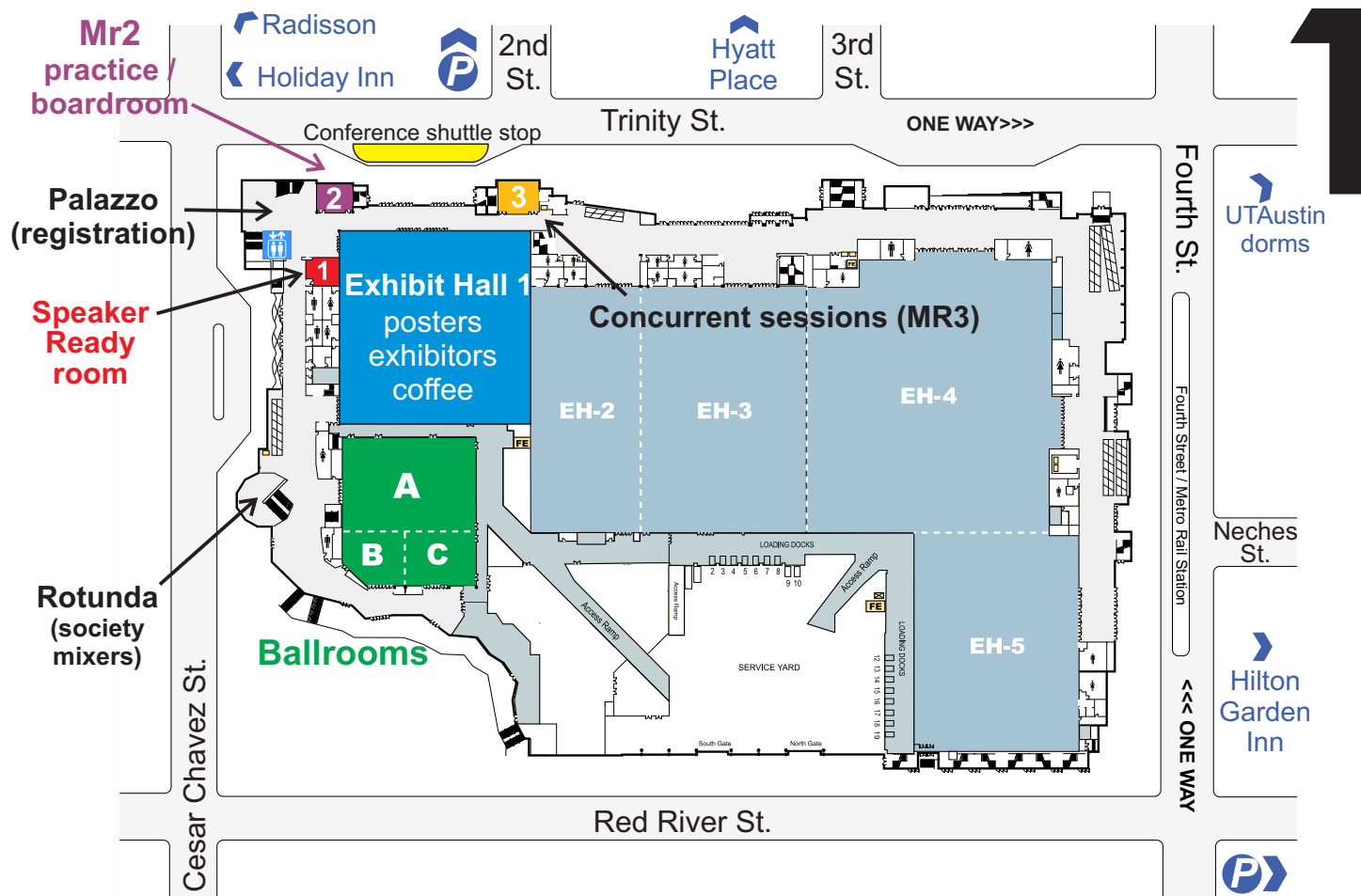
Whittaker, Danielle (Michigan State University)  
 Whittington, A. Carl (Florida State University)  
 Wice, Eric (Rice University)  
 Wiemerslage, Julie (Virginia Polytechnic and State University)  
 Wiggins, Danielle (STAFF)  
 Wiggins, Jodie (Oklahoma State University)  
 Wilke, Claus (The University of Texas at Austin)  
 Wilkins, Matt (University of Nebraska-Lincoln)  
 Williams, Cameron (Bucknell University)  
 Williams, Elizabeth (Yale University)  
 Williams, Rachel (Duke University)  
 Williamson, Michael (Queen's University)  
 Willoughby, Janna (Purdue University)  
 Winchell, Kristin (UMass Boston)  
 Winkler, Isaac (Cornell College)  
 Winn, Alice (Florida State University)  
 Winston, Max (University of Chicago)  
 Wisecaver, Jen (Vanderbilt University)  
 Wiser, Michael (BEACON Center - Michigan State University)  
 Wolak, Matthew (University of Aberdeen)  
 Wolfe, Jo (MIT)  
 Wolters, John (Binghamton University)  
 Wong, Wai Yee (The Chinese University of Hong Kong)  
 Wood, Andrew (University of Michigan)  
 Wood, Corlett (University of Toronto)  
 Wood, Daniel (University of Sheffield)  
 Worley, Anne (University of Manitoba)  
 Wray, Brian (Field Museum of Natural History)  
 Wright, April (Iowa State University)  
 Wright, Davey (The Ohio State University / School of Earth Sciences)  
 Wright, Lesley (Faulconer Gallery, Grinnell College)  
 Wright, Rachel (UT Austin)  
 Wright, Sara (Washington University)  
 Wu, Steven (Arizona State University)  
 Wyngaard, Grace (James Madison University)  
 Xu, Julie  
 Xu, Mingzi (Cornell University)  
 Xue, Xander (City University of New York)  
 Yang, Ya (University of Michigan, Ann Arbor / University of Minnesota, Twin Cities)  
 Yang, Yusan (University of Pittsburgh)  
 Yarkhunova, Yulia (University of Wyoming)  
 Ye, Thomas(Siao) (Rice University)  
 Yeager, Justin (University of California, Merced)  
 Yeaman, Sam (University of Calgary)  
 Yeh, Justin (University of North Carolina - Chapel Hill)  
 Yoder, Anne (Duke University)  
 Yoder, Jeremy (University of British Columbia)  
 Yohe, Laurel (Stony Brook University)  
 Yoon, Su'ad (University of Nevada Reno)  
 Young, Becca (University of Texas)  
 Yuan, Michael (University of California, Berkeley)  
 Yukilevich, Roman (Union College & SUNY Albany)  
 Yule, Kelsey (University of Arizona)  
 Yun, Li (University of Toronto)  
 Zalmat, Alex (Texas State University)

Zaman, Luis (University of Washington)  
Zamudio, Kelly (Cornell University)  
Zapata, Felipe  
Zárate, Daniela (University of California, San Diego)  
Zee, Peter (Cal State Northridge)  
Zhan, Shing (The University of British Columbia)  
Zhanayeva, Altynay (University of Massachusetts)  
Zhang, Linlin (Cornell University)  
Zhang, Linyi (Rice University)  
Zhang, Shuo (University of Houston)  
Zhao, Serena (University of Texas at Austin)  
Zhao, Tingting (Crystal) (University of British Columbia)  
Zhao, Xing (Texas A&M University)

Zhou, Guifang (Louisiana State University)  
Zhuang, Vicky (University of California Riverside)  
Ziadie, Michelle (University of Georgia)  
Zimmer, Carl (Science writer & Stephen J. Gould Prize winner)  
Zimmer, Elizabeth (Liz) (Smithsonian Institution NMNH)  
Zimmermann, Niklaus E. (Swiss Federal Research Institute WSL)  
Zu, Pengjuan (University of Zurich)  
Zuellig, Matthew (University of Georgia)  
Zufall, Rebecca (University of Houston)  
Zuk, Marlene (University of Minnesota)  
Zwickl, Derrick (University of Arizona)



## Notes



**Austin Suite  
Boardroom**

