PROGRAM

2005 Annual Meetings
June 10-14, 2005

American Society of Naturalists
Society for the Study of Evolution
Society of Systematic Biologists

University of Alaska Fairbanks
Fairbanks, Alaska
Welcome to Alaska for Evolution 2005

We are excited to host this year's conference. Many people have contributed to the planning and implementation of registration, program, logistics, and events. We thank them all for a job well done.

These meetings were locally arranged by a group of energetic and efficient people who lived, breathed, and worked on Evolution 2005 for months before the conference. We are glad to see it all come together and meet the people we have been corresponding with.

Sarah Sonsthagen and Kevin McCracken had the job of organizing all sessions of contributed papers and posters. Besides those mentioned in the program, credit for help in organizing symposia, public outreach lecture, undergraduate poster sessions, Ernst Mayr competition, diversity activities, and banquet program goes to Sam Donovan, Scott Edwards, Richard Klimm, Elizabeth Zimmer, Kelly Zamudio, and Jessica Gurevitch. The Institute of Arctic Biology, Provost's Office, and UAF Graduate School generously provided funds for more than a dozen graduate students and high school students to attend the conference.

Webmaster Eric Muehling created the online registration process and maintained the web page amongst all our changes, intricacies, and foibles. Web page and logo design were done by Christopher Shock.

Michelle Bartlett, conference coordinator, was our cheerleader, visionary, planner, and central point person. Pips Veazey seemed to be everywhere at once while organizing logistics, exhibits, and events. Mary Ann Borchert handled registrations, correspondence, and design of the program. Tania Rose, volunteer extraordinaire, helped with registration data and computer issues, as did Liz Kane. Stephanie Strandberg coordinated the on-campus housing and busing to and from campus, meetings, and evening events. Sarah Sonsthagen organized the wonderful tours, with Robert Wilson, Lee Taylor, Roger Ruess, Jamie Hollingsworth, Syndonia Bret-Harte, Ken Tape, and Richard Boone volunteering to help lead these tours and make them a reality.

To all the UAF staff at Conference Housing, Institute of Arctic Biology Business Office, Summer Sessions, Wood Center, Center for Academic Technology, Department of Computing and Communications, UAF computer and technical assistants, Security, Facilities Services, Physical Plant, Parking Services, Polar Express Office, Public Affairs, Catering and Food Services, Board of Regents Office, International Arctic Research Center, Geophysical Institute, Natural Science Facility, Fire Department, Student Recreation Center, Elmer E. Rasmuson Library, Large Animal Research Station, Music Department, Art Department, Theatre Department, and our student volunteers – Whew! We couldn’t have done it without you, and we thank you for the wonderful support that you have provided.

June 10, 2005 Fairbanks, Alaska
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GENERAL CONFERENCE INFORMATION

REGISTRATION DESK
On Friday, June 10 and Saturday, June 11, the conference Registration Desk will be located in the Great Hall of the Fine Arts Building. After Saturday, registration will be handled near the Hospitality Desk in Wood Center.

- Friday, June 10 9:00 am – 5:00 pm  Great Hall
- Saturday, June 11 7:00 am – 5:00 pm  Great Hall
- Sunday, Monday, Tuesday Hospitality desk hours Wood Center

NOTE: Registration will not be open during the Opening Reception.

HOSPITALITY DESK
The Hospitality Desk will be staffed 8:00 am to 4:00 pm each day. Flyers and information from local restaurants and attractions and a telephone for local calls will be available.

REFRESHMENT BREAKS
Morning and afternoon refreshment breaks will be held in two locations:
- Saturday through Tuesday 10:00 - 10:30 am and 3:00 - 3:30 pm, Wood Center
- Great Hall of the Fine Arts Center

MEAL TIMES and LOCATIONS
Included in your registration fees – show name badge for entrance

- Friday, June 10 - Opening Reception, Large Animal Research Station (LARS) 5:00 – 10:00 pm Buses from campus (see below)
- Saturday, June 11 - Barbecue and open mike – Wood Center – bring your talents! 6:00 – 8:00 pm, then Poster Session I (8:00 – 11:00 pm)
- Monday, June 13 - Dinner, Alaska Salmon Bake 6:00 – 8:00 pm, then Poster Session II (8:00 – 11:00 pm)

Meal plan participants
Meals times and locations for people who purchased meal plans will be as follows:
- Breakfast 7:00 – 8:00 am Lola Tilly Commons
- Lunch 11:45 am – 1:45 pm Sack lunches
(Pick up sack lunches at Wood Center or the Great Hall)

To purchase food and beverages on campus

Wood Center SubArctic Subs serves Starbucks coffee, pastries, pizza, and sandwiches.
- Friday, Monday, Tuesday 7:00 am – 5:00 pm
- Saturday 7:00 am – 10:30 pm
- Sunday 7:00 am – 8:30 pm

Wood Center Food Court grill serves hot and cold sandwiches, salads, and soups.
Every day 7:00 am – 2:00 pm

The Deck Cyber Café is in the upper Lola Tilly Commons. The cafe features North Pole coffee, casual menu, ice cream, wireless access, newspapers, community information.
Every day 9:00 am – 7:00 pm

Pub at the Deck in the upper Lola Tilly Commons for locally brewed beer and wine and light snacks (age 21 and older after 7 pm).
Saturday, Sunday, Monday 7:00 pm – 12 midnight

A list of local restaurants is located in the back of the printed Program, and more information is available at the Hospitality Desk.
MESSAGE BOARD
A message board is located near the Hospitality Desk in Wood Center.

PARKING
After 5 pm on weekdays and all day on weekends, parking is free in all lots on campus (except Handicapped and Reserved spaces). On weekdays during the day, please park in the lower campus visitor lots. No special parking permits are necessary for conference attendees to park in these lots. Free shuttles run from 7:30 am to 7:30 pm from these lots throughout campus. Two-hour metered visitor parking spaces are located in the Signers' Hall and Bunnell lots.

SHUTTLE BUS SERVICE
Airport shuttle to and from campus:
This service is provided for those staying in campus housing. A shuttle will meet planes as they arrive in Fairbanks June 9, 10, and 11. The airport is about 15 minutes from UAF. Please check at the Hospitality Desk for return bus schedules.

Shuttle to evening events from campus:
All buses leave from Wood Center, upper level.

  Friday, June 10  - Opening Reception, Large Animal Research Station (LARS)
                  Buses leave 5:00 – 8:00 pm
                  (Buses will also pick up at local hotels, this evening only)
  Note that parking is not available for private cars at the Opening Reception at LARS. Please plan to take a shuttle bus to and from campus to LARS, rather than driving your own vehicle.
  Sunday, June 12  - Cruise and dinner, Riverboat Discovery, advance purchase tickets only
                  Buses leave 6:00 pm
  Monday, June 13  - Dinner, Alaska Salmon Bake
                  Buses leave 5:00 – 7:00 pm
Please check at the Hospitality Desk and watch for signs for bus departure locations and times.

Shuttle from evening events to campus and hotels:
Buses are available for transportation from the off-campus evening events back to campus and then to local hotels. A map showing the hotels and the route for each bus will be available. Please note the departure locations and times. The last bus will leave to go to hotels at 11:00 pm each evening.

TELEPHONE NUMBERS

  Conference Center – Hospitality Desk  474-1757
  UAF information                      474-7211 or 474-7034
  Campus Police                        474-7721
  UAF Conference Housing               474-6769
  Emergency – All campus phones and pay phones have 911 access. Special emergency phones are marked with blue lights and are available for use throughout the UAF campus.

T-SHIRTS
Conference t-shirts will be available for purchase at registration or the Hospitality Desk while supply lasts.

RECREATIONAL FACILITIES
The Student Recreation Center (SRC) is available to all registrants and their guests at a rate of $5 per day, payable at entrance. Facilities include a running track, free weights and weight
machines, and basketball and tennis courts. You will need to carry in an extra pair of sneakers to use the SRC facilities. (474-6814)

**UAF BOOKSTORE**
The UAF Bookstore in Constitution Hall carries a wide selection of general reading books, UAF clothing and insignia, personal care items, and an assortment of food and drinks. Hours are 7:45 am – 6:00 pm weekdays and 12 noon – 5:00 pm Saturday. (474-7346)

**SMOKING POLICY**
No smoking is allowed inside buildings at the University of Alaska Fairbanks, including residence halls, dining halls, and the student center.

**SAFETY AND SECURITY**
UAF is a safe and comfortable environment, but be prudent. Walk in the company of at least one other person, especially when off-campus. Call the Campus Police if you become aware of a situation that concerns you from a security or safety standpoint.

**DO NOT LEAVE VALUABLES IN YOUR ROOM. NEITHER THE SOCIETIES, SSE/SSB/ASN, NOR THE UNIVERSITY OF ALASKA FAIRBANKS ARE RESPONSIBLE FOR LOST OR STOLEN ITEMS.**

**HEALTH and MEDICAL NEEDS**
Day length - There are about 20 hours of possible sunlight in mid-June (sun up at 4:00 am and down at midnight) and, if it is not cloudy, there will be daylight all night. You may find sleeping more comfortable if you have eyeshades. Remember - just because its not dark out, it doesn't mean that it is not time to get some sleep.

Mosquitoes - Mosquitoes will probably be in good supply in mid-June, though not bad on campus. Elsewhere in Fairbanks you may want to carry mosquito repellent with you. Wearing long-sleeved shirts and long pants is recommended.

Aridity - Fairbanks, Alaska is very dry. Make sure you drink plenty of water.

Temperature - Be prepared for a range of temperatures at this time of year – we can expect a range of about 45-75 °F, but the record high was 91 °F and record low was 30 °F.

There are two walk-in medical facilities in Fairbanks

<table>
<thead>
<tr>
<th>Facility</th>
<th>Phone</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Fairbanks Urgent Care Center</td>
<td>452-2178</td>
<td>weekdays 7:00 am – 10:00 pm</td>
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<tr>
<td></td>
<td>1867 Airport Way, Suite 130B</td>
<td>weekends 10:00 am – 7:00 pm</td>
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<tr>
<td>Tanana Valley Clinic 1st Care</td>
<td>458-2682</td>
<td>weekdays 8:00 am – 8:00 pm</td>
</tr>
<tr>
<td></td>
<td>1001 Noble St.</td>
<td>Saturday 9:00 am – 5:00 pm</td>
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</table>

Two dentists are on call June 10-14. Both are located in the West Valley Plaza, 4001 Geist Rd.

Dr. Patricia Bergdahl 479-8423
Dr. Vaughan Hoefer 452-7955

**POST OFFICE**
The Post Office on campus (Constitution Hall) is open 10:00 am – 4:00 pm weekdays. A Fairbanks Post Office on Geist Road is open weekdays and 12:00 noon – 4:00 pm on Saturday.

**ATM MACHINES on campus**
- Wood Center (available during Wood Center hours)
- Hess Commons - near the Housing Office (available 24 hours)

**BANKING**
Northern Schools Federal Credit Union - Wood Center hours 9:00 am - 5:00 pm weekdays. Office on Geist Road is open weekdays and also 11:00 am – 4:00 pm on Saturday.
UAF INFORMATION TECHNOLOGY ESSENTIALS

All users of University computing hardware, software, networking services, or any property related or ancillary to the use of these facilities must abide by this agreement. See the computing professionals in the Technology Center off the Great Hall if you did not receive information via email or have not received your UAF user ID and password for wireless access.

Acceptable Network Usage Agreement

The University expects that all persons who make use of University computing hardware, software, networking services, or any property related or ancillary to the use of these facilities will abide by the following policy statement:

University information technology resources are provided to the university community and are to be used in the spirit of mutual cooperation. Resources are limited and must be shared. Everyone benefits when computer users avoid activities which may cause problems for others sharing the systems.

Hardware, software, and related services supplied by the University are intended for the purpose of implementing and supporting the university's mission, as set forth in Board of Regents Policies and Regulations. Misuse of these facilities is a violation of those Policies and Regulations, and may additionally be illegal. It is a violation to provide or obtain passwords to accounts other than one's own.

By making use of UAF facilities you agree to the following conditions:

You will not use university hardware, software or services without proper authorization. You agree to use licensed software on university machines; copying, distributing and/or using software without proper licensing is a violation of federal copyright law. You may not extend use of university computing facilities for any purpose beyond their intended use, nor beyond those activities sanctioned in Regents' Policy and Regulations.

University computing facilities may not be used:

- for personal profit or gain
- to harass, threaten, or invade the privacy of others
- to initiate or forward e-mail chain letters
- to cause breaches of computer, network or telecommunications security systems
- to initiate activities which unduly consume computing or network resources

Individuals who violate this policy will be subject to disciplinary action and/or referral to law enforcement authorities. Division of Computing and Communications personnel are authorized to monitor suspected violations and to examine items stored on any university storage medium.

Computer system availability:

The Rasmussen Library has public terminals (ElmerNet Stations) available on the 4th floor during normal business hours. The ElmerNet stations have general web access and require no login.
**Computer Labs:**
UAF Computing has several open computer labs, locations and hours are listed below. Please see your campus map for directions.

**404 Rasmuson Library (aka The Node)**
Open during normal library hours, can be accessed through the 23 Hour Study Area. This lab is staffed 10:00 AM to 8:00 PM Monday through Friday.

319 Bunnell Building
Open and staffed 10:00 AM to 9:00 PM Monday through Friday, Noon to 9:00 PM Saturday and Sunday.

**Printing:**
Black and white printing is available in the Rasmuson library and in the computer labs. There is a 10 cent per page charge.

Color printing is available in the Bunnell Lab. There is a $.50 per page charge.

**Wireless Network Access:**
To access the UAFnet wireless network please see the UAF computing representative at the Technology Center off the Great Hall if you have not received email information.

**Wired Network Access:**
Ethernet connections are available in the Rasmuson Library and the Bunnell Lab. You must provide your own network card and cable.
BOOK AUCTION

June 10-June 13

Books and journal subscriptions (over 30 books and journals!) for this year’s silent book auction to support graduate student travel were generously donated by the following:

Academia Books
Blackwell Publishing
John Hopkins University Press
Harvard University Press
Oxford University Press
Pearson Prentice Hall
Princeton University Press
Sinauer Associates
University of Alaska Press
University of California Press
University of Chicago Press
University of Chicago Press Journals

Thank you for your donations!

Books and journals are displayed near the Hospitality Desk, with bid cards located at each item. Please sign your name, affiliation, and your bid amount on the bid card. Bidding ends at 5pm Monday, June 13.

Note that all books must be picked up by Tuesday, June 14 at 5pm. Books not picked up will be donated to the UAF Institute of Arctic Biology. We cannot mail books to winning bidders.

Bid often and high! Funds generated from this auction support graduate student travel.
EXHIBITORS & PUBLISHERS

Exhibits are located in Wood Center on the main floor.

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<thead>
<tr>
<th>Date, June</th>
<th>Event</th>
<th>Time</th>
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<td>10</td>
<td>Set-up</td>
<td>9:00 am – 12:00 noon</td>
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<td></td>
<td>Show</td>
<td>12:00 noon – 5:00 pm</td>
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<td>11</td>
<td>Show</td>
<td>8:00 am – 5:00 pm and 7:00 - 10:00 pm</td>
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<tr>
<td>12</td>
<td>Show</td>
<td>8:00 am – 5:00 pm</td>
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<td>13</td>
<td>Show</td>
<td>8:00 am – 5:00 pm and 7:00 - 10:00 pm</td>
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<tr>
<td>14</td>
<td>Show</td>
<td>8:00 am – 12 noon</td>
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<td>Tear-down</td>
<td>12 noon – 5:00 pm</td>
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**Academia Book Exhibits** displays professional books and journals in a multi-publisher exhibit. [www.acadbkex.com](http://www.acadbkex.com)

**Alaska Bird Observatory** is a nonprofit organization dedicated to advancing the appreciation, understanding and conservation of birds and their habitats through research and education. Visit our booth Saturday or Sunday, or visit us online at [www.alaskabird.org](http://www.alaskabird.org).

**Blackwell Publishing** is a leading international publisher in the area of science and medicine. Please stop by our booth for complimentary copies of our journals and visit our website [www.blackwellpublishing.com](http://www.blackwellpublishing.com) for information on all of our publications.

**Dragonfly Glass** offers handcrafted and biologist-approved arthropods in stained and fused glass. Visit us on the web at [www.dragonflyglass.biz](http://www.dragonflyglass.biz). During the conference we will only be open on Monday and Tuesday, and shipping will be free on all conference orders.

**National Science Foundation** is the the funding source for approximately 20 percent of all federally supported basic research conducted by America's colleges and universities.

**Oxford University Press** publishes academic books for many different topics. [www.oup.com](http://www.oup.com)
Prentice Hall is a leading educational publisher committed to providing quality resources for faculty and students. We invite you to visit our booth to see our exciting new publications, including Rose/Mueller, *Evolution and Ecology of the Organism* and Freeman/Herron, *Evolutionary Analysis* 3e. Learn how we can help you provide the best resources for your students.

www.prenticehall.com/biology


www.pup.princeton.edu

SimBiotic Software is the leading developer of college biology teaching simulations, and our software is used in hundreds of universities around the world (including University of Alaska Fairbanks). At Evolution 2005 we will be introducing EvoBeaker, our new program for teaching evolutionary biology. In EvoBeaker, students conduct simulated experiments where they learn and apply important concepts in both micro and macroevolutionary biology. Stop by to see a demo and get a sample copy. SimBiotic Software also produces programs for teaching ecology (EcoBeaker), cell biology (OsmoBeaker, Mitosis and Meiosis Demystified), and Neurobiology (NerveWorks).

www.simbio.com

Sinauer Associates ALL NEW AND ON DISPLAY HERE! Futuyma: *Evolution* (shorter than *Evolutionary Biology* and exclusively directed toward undergraduates); Sax, Stachowicz, and Gaines: *Species Invasions: Insights into Ecology*, *Evolution and Biogeography*; Soltis, Soltis, Endress, and Chase: *Phylogeny and Evolution of Angiosperms*; Lomolino, Riddle, and Brown: *Biogeography*, Third Edition; Lomolino and Heaney: *Frontiers of Biogeography: New Directions in the Geography of Nature*. Stop by our booth to see these titles and more!

www.sinauer.com

Taylor and Francis is proud to publish *Systematic Biology*, the official journal of the Society of Systematic Biologists. Stop by our booth during the meeting to learn more about our books and journals or visit us on the web any time at

www.taylorandfrancis.com

University of Alaska Press publishes and distributes literature about Alaska, the North Pacific Rim, and the circumpolar North. We publish in the fields of natural history, anthropology, history, and Native studies.

www.uaf.edu/uapress

University of Chicago Press is a publisher of scholarly books and journals.

www.press.uchicago.edu
CONGRATULATIONS TO THE STUDENTS SUPPORTED WITH TRAVEL GRANTS

Supported by the University of Alaska Fairbanks Institute of Arctic Biology, Provost's Office, and Graduate School
  Liz Alter, Stanford University
  Joseph Brown, University of Michigan
  Kurt Galbreath, Cornell University
  Eben Gering, San Francisco State University
  Tanya Henderson, Indiana State University
  Gabriela Ibaruguchi, Queens University, Canada
  Sanna Laakso, University of Turku, Finland
  Holly Sabara, University of Guelph, Canada
  Sean Sleight, Michigan State University
  Jeannie A. Stamberger, Stanford University
  Corinne Wilkerson, Memorial University of Newfoundland, Canada
  Mary Mitchell, Mount Edgecumbe High School, Sitka, Alaska
  Nicole Jeffrey, Barrow High School, Barrow, Alaska
  Jordon Jeffrey, Barrow High School, Barrow, Alaska

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  Felix Araujo-Perez, University of Puerto Rico
  Joseph Bahlman, University of California-Davis
  Andree Bennin, Brigham Young University
  Linda Boettger, University of California-San Diego
  Carlos Flores, University of Arizona
  Yearim Gutierrez, University of Puerto Rico
  Monty Hawkins, Brigham Young University
  Leslie Herrmann, Brown University
  Sky Lee, University of California-Riverside
  Aida Miro, University of Puerto Rico
  Jerod Romine, Truman State
  Fransisco Serna, Cornell College
  Lee Shoa Long Clarke, Cornell University
  Linh Vuong, University of Puget Sound

Supported by Brigham Young University, Society of Systematic Biologists, and Deep Gene - Undergraduate Symposium Presenters
  Joseph Bahlman, University of California-Davis
  Rebecca Baum, Brigham Young University
  Andree Bennin, Brigham Young University
  Dan Chappell, Brigham Young University
  John Chastion, Brigham Young University
  Edward B. Chuong, University of California San Diego
  Lee Shoa Long Clarke, Cornell University
  Raymond W. Grams, Brigham Young University
  Yearim Gutierrez, University of Puerto Rico
  Cynthia Penaflor, Brigham Young University
  Jerod Romine, Truman State University
INFORMATION FOR SESSION MODERATORS, SPEAKERS, AND POSTER PRESENTERS

MODERATORS
If you are moderating a session, please arrive 15 minutes early to ensure that audio-visual equipment is in place and functional, and that all presenters are accounted for. At each session, a graduate student volunteer will be on hand to take care of audio-visual needs. Each room will be equipped with a PC with CD drive and USB flash drive port, and a laser pointer. Zip drives will not be available.

In contributed paper sessions, 15 minutes are allotted to each speaker, including time for questions. The moderator should alert speakers when 3 minutes remain and if possible, when 1 minute remains. After 15 minutes, speakers will have to be asked to leave the podium without taking questions.

Please announce this format at the beginning of the session, and please stick to the schedule. If a speaker ends early or there is a cancellation, do not introduce the next speaker until their designated time to speak.

SPEAKERS
Oral presentations should be 12 minutes, with 3 minutes for questions (15 minutes, total). Please consult the program ahead of time to confirm the time and location of your talk. Only PCs with projectors will be available for presentations in each room, with CD drives and USB flash drive ports. Please plan to check in 15 minutes before the start of your session to load your presentation and meet the moderator.

The Technology Center (off the Great Hall) will be available on Friday June 10 and throughout the conference, 8:00 am – 4:00 pm, for presenters to check software compatibility. Please be sure to check compatibility the day before your presentation. Apple (Macintosh) users should verify that their files are compatible with PowerPoint or Adobe Acrobat for Windows at the Technology Center. Both PCs and Macs will be available in the Technology Center, but only PCs will be in each session for presenters to use.

POSTER PRESENTERS
All Poster Sessions will be held in the Great Hall of the Fine Arts Building. Numbered boards will correspond to the number assigned to your title in the program. Set-up poster times for the first session will be Saturday after 12 noon, and posters should be taken down by Sunday at noon. Second session presenters can set up Monday after 12 noon and should take down their posters by Tuesday at noon.

Posters should be no more than 4’ x 4’ (48 x 48 inches, or 122 x 122 cm). Posters can be hung by pins or tacks provided at the session.

Please plan to stand by your poster from 8-10 pm during your designated poster session.
# SCHEDULE OF EVENTS

**Friday June 10**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00 AM – 5:00 PM</td>
<td>Registration</td>
<td>Regents Great Hall</td>
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<tr>
<td>12:00 – 2:30 PM</td>
<td>Joint Council Meeting</td>
<td>Butrovich 109</td>
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<tr>
<td>2:30 – 5:00 PM</td>
<td>SSE Council Meeting</td>
<td>Butrovich 109</td>
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<td>SSB Council Meeting</td>
<td>IARC 401</td>
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<td></td>
<td>ASN Council Meeting</td>
<td>IARC 501</td>
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<tr>
<td>3:00 – 5:00 PM</td>
<td>Pre-conference tour – Permafrost Tunnel</td>
<td>Shuttle – Wood Center</td>
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<tr>
<td>5:00 – 10:00 PM</td>
<td>Opening Reception at Large Animal Research Station</td>
<td>Shuttle – Wood Center</td>
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**Saturday June 11**

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<tr>
<td>7:00 AM – 5:00 PM</td>
<td>Registration</td>
<td>Regents Great Hall</td>
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<td>8:00 – 10:00 AM</td>
<td>Concurrent Sessions</td>
<td>Charles Davis Hall</td>
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<td><strong>Symposium</strong>: Ecotypic variation in the context of global climate change: Revisiting the &quot;rules&quot;</td>
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<td><strong>Undergraduate Symposium</strong>: Empowering the next generation of evolutionary biologists</td>
<td>Natural Science 201</td>
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<td>10:00 – 10:30 AM</td>
<td><strong>Break</strong></td>
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<td>10:30 AM – 12:00 PM</td>
<td>Concurrent Sessions</td>
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<td><strong>Symposium (cont.)</strong></td>
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<td><strong>Undergraduate Symposium (cont.)</strong></td>
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<td>12:00 – 1:30 PM</td>
<td><strong>Lunch Break</strong></td>
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<td>SSE Editors <em>Evolution</em> Luncheon</td>
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<td>SSB Editors Systematic Biology Luncheon</td>
<td>IARC 501</td>
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<td><strong>Workshop</strong>: Better tools for the systematics of tomorrow: Preserving and relating materials and information</td>
<td>Wood Center E &amp; F</td>
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<td><strong>Undergraduate Symposium (cont.)</strong></td>
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<td>5:00 – 6:00 PM</td>
<td><strong>Public Outreach Lecture</strong>: Endless forms most beautiful: The new science of evo devo and the making of the animal kingdom – Sean B. Carroll</td>
<td>Charles Davis Hall</td>
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<td>6:00 – 8:00 PM</td>
<td><strong>Barbeque/Open Microphone</strong></td>
<td>Wood Center</td>
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<td>8:00 – 11:00 PM</td>
<td><strong>Poster Session 1</strong></td>
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Please attend your poster from 8–10 PM.
Sunday June 12

8:00 – 10:00 AM  Concurrent Sessions
   Symposium: Insect endosymbionts as targets and agents of evolutionary change: Recent insights and opportunities  Charles Davis Hall

10:00 – 10:30 AM  Break

10:30 AM – 12:00 PM  Concurrent Sessions
   Symposium (cont.)  Charles Davis Hall

12:00 – 1:30 PM  Lunch Break
   Workshop: Finding a job in academic biology  Wood Center E & F
   Workshop: National Evolutionary Synthesis Center (NEScent) ‘Town Meeting’  Wood Center C & D

1:30 – 3:00 PM  Concurrent Sessions
   Symposium: American Society of Naturalists Young Investigators’ Symposium and Society for the Study of Evolution Dobzhansky Prize Lecture  Charles Davis Hall

3:00 – 3:30 PM  Break

3:30 – 5:00 PM  Concurrent Sessions
   Symposium (cont.)  Charles Davis Hall

5:00 – 6:00 PM  SSE Presidential Address:
   Adaptation and the species barrier – Dolph Schluter  Charles Davis Hall

6:00 – 9:00 PM  Dinner on the Riverboat Discovery
   (advance purchase only)  Shuttle – Wood Center

Monday June 13

8:00 – 10:00 AM  Concurrent Sessions
   Symposium: Genome analysis and molecular systematics of retroelements  Charles Davis Hall
   Symposium: Genetics and development of color pattern  Natural Science 201

10:00 – 10:30 AM  Break

10:30 AM – 12:00 PM  Concurrent Sessions
   Symposiums (cont.)

10:30 AM – 12:00 PM  Ernst Mayr Award Competition  Gruening 306

12:00 – 1:30 PM  Lunch Break
   Workshop: National Science Foundation  Wood Center C & D
   Workshop: EvoBeaker Teaching Workshop  Wood Center E & F
   ASN Editors American Naturalist Luncheon  Butrovich 109

1:30 – 3:00 PM  Concurrent Sessions
   Symposium: American Society of Naturalists Vice-President Symposium  Charles Davis Hall
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<td>6:00 – 8:00 PM</td>
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<td>Dinner at Alaska Salmon Bake</td>
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<td>Tuesday June 14</td>
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<td>10:00 – 10:30 AM</td>
<td>Symposium: Condition dependence, genetic variance, and the evolution of mating preferences</td>
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<td>3:30 – 5:00 PM</td>
<td>Symposium: Teaching phylogenetics at introductory undergraduate and precollege levels</td>
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<td>4:00 – 5:00 PM</td>
<td>Break</td>
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<td>5:00 – 6:00 PM</td>
<td>Undergraduate Diversity Pep Talk</td>
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<td>5:00 – 7:00 PM</td>
<td>ASN Presidential Address</td>
<td>Charles Davis Hall</td>
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<td>7:00 – 10:00 PM</td>
<td>UA Museum Research Collection Tours</td>
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<td>Banquet/Awards</td>
<td>SRC Field</td>
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<td>Wednesday June 15</td>
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<td>5:00 AM</td>
<td>Post-conference tour – Toolik Field Station (4 day trip)</td>
<td>Shuttle – Moore-Bartlett-Skarland Residence Hall</td>
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<td>9:00 AM – 5:00 PM</td>
<td>Post-conference tour – Bonanza Creek LTER Site</td>
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## Concurrent Sessions & Symposia Overview: Saturday June 11

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<td>Genomics/Proteomics</td>
<td>Bioinformatics/Phyloinformatics</td>
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WORKSHOPS AND SPECIAL NOON MEETINGS

EDITORIAL BOARD LUNCHEONS

SSB *Systematic Biology* editorial board Sat. June 11 IARC 501
SSE *Evolution* editorial board Sat. June 11 IARC 401
ASN *American Naturalist* editorial board Mon. June 13 Butrovich 109

SATURDAY 11 JUNE 12:00 – 1:30 PM: WOOD CENTER E & F

BETTER TOOLS FOR THE SYSTEMATICS OF TOMORROW: PRESERVING AND RELATING MATERIALS AND INFORMATION
Organized by Angelique Corthals (American Museum Natural History) and Gordon Jarrell (University of Alaska Museum)

Topics of this workshop will cover:
1. Materials: Keeping tissues and DNA undamaged.
   - Research in DNA degradation timing
   - LN2 vs. mechanical freezers: Cost-effectiveness and scale
   - Protocols for the extraction of high grade DNA from degraded tissues
   - Non-destructive protocols to extract DNA
   - Preserving tissue in the field and lab (frozen, buffers, DNA paper, etc.)
2. Information: Data distribution and sharing.
   - Linking GenBank accessions to museum vouchers
   - The American Museum of Natural History tissue database
   - How to build a database cheaply and in the most efficient manner
   - Global Biodiversity Information Facility, data standards, and international networking efforts

SUNDAY 12 JUNE 12:00 – 1:30 PM: WOOD CENTER E & F

FINDING A JOB IN ACADEMIC BIOLOGY
Organized by Daniel Promislow (Univ. Georgia) and Lorne Wolfe (Georgia Southern Univ.)

This workshop will provide a useful how-to guide for your academic job search. The presentation will last about an hour, and will be followed by an open Q&A. All graduate students and post-docs are welcome to attend. A free lunch will be provided by SSE to those who signed up ahead of time.

A recent study of 1,300 doctoral programs by the National Association of Graduate and Professional Students revealed that >60% of PhD students are unsatisfied with certain non-research aspects of their education. The workshop will address three main issues related to the job search.
1) **Options in the Job Market** - Students in top-tier research schools (e.g., UCSB) are not really exposed to the different types of academic positions that exist (e.g., liberal arts schools, schools where the Master's is the terminal degree). Isn't it interesting that after approximately 15 years of university training, newly-minted PhDs do not really know the details of the different types of jobs available?

2) **The Job Description** - What exactly IS the job of an assistant professor? Graduate students are likely aware of the research their advisor does, but what about juggling the demands of teaching and service (i.e., administration). How does the job description vary among the different types of schools mentioned above?

3) **The Application & Interview Process** - So you have your PhD, but just how do you go about putting together a compelling application packet? How do you interview persuasively? How does the job seminar differ from a regular conference or departmental talk? There ARE simple answers to all of these questions.

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**SUNDAY 12 JUNE 12:00 – 1:30 PM: LOLA TILLY UPPER DECK LOUNGE**

**ASN BUSINESS MEETING**
Organized by Judith Bronstein

**SUNDAY 12 JUNE 12:00 – 1:30 PM: WOOD CENTER C & D**

**NATIONAL EVOLUTIONARY SYNTHESIS ‘TOWN MEETING’**
Organized by Cliff Cunningham (National Evolutionary Synthesis Center)

After many years of planning by our scientific community and working closely with NSF, NESCent (www.nescent.org) is finally a reality! Director Cliff Cunningham will begin the town meeting with an overview of NESCent's current vision, priorities and activities. Most important will be the ensuing discussion of how NESCent can best meet the needs of our community.

**MONDAY 13 JUNE 12:00 – 1:30 PM: WOOD CENTER C & D**

**NATIONAL SCIENCE FOUNDATION - FUNDING OPPORTUNITIES**
Organized by Mark Courtney (National Science Foundation)

Program officers will discuss NSF funding opportunities at undergraduate, graduate, postdoctoral, and faculty stages. Topics will include Research Experiences for Undergraduates, Undergraduate Mentoring in Environmental Biology, Graduate Research Fellowships, Doctoral Dissertation Improvement Grants, Research Experiences for Teachers, Postdoctoral Research Fellowships, CAREER grants, Research at Undergraduate Institutions, Research Opportunity Awards, Opportunities for Promoting Understanding through Synthesis (OPUS), opportunities for underrepresented groups, and support through traditional faculty research grants. Brief descriptions of these and other opportunities and advice on writing proposals will be followed by a question and answer session.
MONDAY 13 JUNE 12:00 – 1:30 PM: WOOD CENTER F & F

EVOBEAKER TEACHING WORKSHOP
Organized by SimBiotic Software

This session will present a new NSF-funded computer program called EvoBeaker designed to teach evolutionary biology through simulated experiments in introductory through upper-level classes. By far the most sophisticated program ever made for teaching evolution, EvoBeaker is modeled on our popular EcoBeaker software and has labs on both micro and macro-evolutionary concepts with a wide range of examples.

This session should be of interest to anyone who is teaching introductory biology, non-majors biology, or any undergraduate evolutionary biology course. The authors will demo several labs and have samples for participants. Bring your laptop. Lunch will be provided for the first 50 who sign up (walk-ins welcome too, but we won't have extra lunches).

MONDAY 13 JUNE 5:00 – 7:00 PM: ALASKA SALMON BAKE (BY SHUTTLE)

UNDERGRADUATE DIVERSITY AT SSB/SSE 2005
Organized by Scott Edwards (Museum of Comparative Zoology), Richard Kliman (Cedar Crest College), and Elizabeth Zimmer (Smithsonian Institution)

This year marks the third year of a NSF-sponsored program organized by Scott Edwards, Richard Kliman, and Elizabeth Zimmer to bring a diverse group of undergraduates from around the country and Puerto Rico to the annual SSB/SSB meetings. This year the program received 27 applications and was able to fund 14 students to present posters in a special undergraduate poster area to be held during the regular poster session on Saturday, June 11. In addition, these undergraduates will receive mentoring from graduate students, postdocs and faculty during the meetings. They will also join another undergraduate group organized by Cynthia Penafior and Keith Crandall, BYU, and will receive career advice and encouragement in a special undergraduate symposium to be held Saturday, June 11 in Natural Science 201.

A final part of the program includes the annual "Diversity Social", which will be held Monday 13 June 5:00 – 7:00 PM at the Alaska Salmon Bake. Shuttle service to Salmon Bake for the Diversity Social will be available at Wood Center beginning at 4:30 pm on Monday. All are invited to come and show their support for encouraging diversity and career advancement among undergraduates at SSE/SSB!

The Undergraduate Diversity Pep Talk will take place on Tuesday 14 June at 4:00 PM in Gruening 303.

SSE Diversity group schedule

| Saturday, June 11 | U/G Symposium | 8:00 am – 5:00 pm | Natural Sci 201 |
| Saturday, June 11 | U/G Posters | 8:00 pm – 10:00 pm | Great Hall |
| Monday, June 13 | Social | 5:00 pm – 7:00 pm | Salmon Bake |
| Tuesday, June 14 | U/G Pep talk | 4:00 pm | Gruening 303 |
University Alaska Museum/University Alaska Fairbanks Symposium

Ecotypic variation in the context of global climate change: Revisiting the "rules"

Organized by Link Olson

8:00  Introduction

8:10  Island evolution and climate change: Are there any rules?

8:40  Bergmann's rule and fecundity selection, with implications on the viability of nearshore populations in a warming ocean

9:10  Lessons from the past: Responses of mammals to late Quaternary climate change

10:00 Break

10:30 Body size and local community structure of mammals across time and space: Implications for global climate change

11:10 Recent changes in body size: The possible effect of climate change

11:40 Panel discussion/Q&A

Link Olson. Univ. Alaska Fairbanks, UA Museum, 907 Yukon Drive, Fairbanks, AK 99775. link.olson@uaf.edu

Virginie Millien. Redpath Museum, McGill Univ., Montreal, Quebec H3A 2K6 Canada. virginie.millien@mail.mcgill.ca

Tony Wilson. Zoological Museum, Univ. Zürich, Switzerland. tony.wilson@zoolmus.unizh.ch

Felisa A. Smith. Dept. Biology, Univ. New Mexico, Albuquerque, NM 87131. fasmith@unm.edu

S. Kathleen Lyons. National Center for Ecological Analysis and Synthesis, Univ. California Santa Barbara, Santa Barbara, CA 93101. lyons@nceas.ucsb.edu

Yoram Yom-Tov. Dept. Zoology, Tel Aviv Univ., Ramat Aviv 69978, Israel. yomtov@post.tau.ac.il

All authors
### Undergraduate Symposium

**Empowering the next generation of evolutionary biologists**

Organized by Cynthia Penaflor

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Affiliation</th>
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| 9:00  | Introduction                                                          | Cynthia Penaflor. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602.  
cynthia_penaflor@msn.com |                                                                           |
lec263@cornell.edu                                                             |                                                                           |
drc_bennin@byu.edu                                                               |                                                                           |
jwbahman@ucdavis.edu                                                              |                                                                           |
| 10:00 | Small-scale phylogeography of Galapagos lava lizards **(Genus Microlophus)**: Patterns of colonization and demographic history | Rebecca Baum. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602.  
rbaum@email.byu.edu                                                              |                                                                           |
| 10:15 | Break                                                                 |                                                                           |                                                                           |
yecarimg@yahoo.com                                                               |                                                                           |
chappell_daniel@hotmail.com                                                     |                                                                           |
| 11:00 | Predicting katydids (Tettigoniidae) and grasshopper (Acrididae) abundance in managed conservation reserve program grasslands: A test of the phylogenetic constraints hypothesis | Jerod Romine. Biology Discipline, Division of Science, Truman State Univ. Kirkville, MO 63501.  
d2146@truman.edu                                                                  |                                                                           |
johnyc@byu.edu                                                                   |                                                                           |
| 11:30 | Identification of rapidly evolving proteins in the **Peromyscus placenta** | Edward B. Chuong. Division of Biological Sciences, Univ. California San Diego, La Jolla, CA 92093.  
echuong@ucsd.edu                                                                |                                                                           |
11:45 Adaptation of physiochemical properties of competing proteins TNF-a and LTA
   Raymond W. Grams. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. rwg24@email.byu.edu

12:00 Lunch: Interaction of undergraduates with speakers

1:30 What I wish I knew when I was an undergrad

2:00 You are here now what? Tips to succeed... publish or perish
   Cynthia Penaflor. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. cynthia_penaflor@msn.com

2:30 Funding opportunities at the National Science Foundation
   Mark Courtney. National Science Foundation, Arlington, VA. 22230. mcourte@nsf.gov

3:00 Break

3:15 IGERT: Computational phylogenetics and applications to biology
   David Hillis. Section of Integrative Biology, Univ. Texas Austin, Austin, TX 78712. dhillis@mail.utexas.edu

3:45 IGERT: Polar Research – Resilience and adaptation: A route to sustainability in a directionally changing world
   F. Stuart Chapin. Dept. Biology and Wildlife. Univ. Alaska Fairbanks, Fairbanks, AK 99775. terry.chapin@uaf.edu

4:15 Undergraduate research at the Smithsonian: The opportunity of a lifetime!
   Vicky Funk. Smithsonian Inst., Dept. Botany MRC 166, Washington DC. funkv@si.edu

4:45 Break

5:00 MORPH, growing the next generation of plant evolutionary developmental biologists: Undergraduate research training grants
   William Friedman. Dept. Ecology and Evolutionary Biology, Univ. Colorado, Boulder, Boulder, CO 80309. ned@colorado.edu

5:30 Deep Gene: Undergraduate research training grants
   Kirsten Fisher, Brent Mishler. Deep Gene, Dept. Integrative Biology, Univ. California Berkeley, Berkeley, CA 94720. bmishler@calmail.berkeley.edu

6:00 Concluding remarks
   Cynthia Penaflor. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. cynthia_penaflor@msn.com
University of Alaska Fairbanks/Institute of Arctic Biology Symposium

Population genetics of adaptation to Arctic and alpine environments

Organized by Matt Olson

1:30  Introduction  Matthew Olson, Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffmsa@uaf.edu

1:35  The diversity of winter thermoregulatory patterns in alpine sciurid rodents: Ecological correlates  Patricia DeCoursey, Dept. Biological Sciences, Univ. South Carolina, Columbia, SC 29208. dcoursey@biol.sc.edu

2:05  Avian hemoglobin evolution in the Andes  Kevin McCracken, Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fnkgm@uaf.edu

2:35  The evolution of polar fish hemoglobin  Guido di Prisco, Institute of Protein Biochemistry and Enzymology, Consiglio Nazionale delle Ricerche, Via Mareoni 10, I-80125 Naples, Italy. diprisco@area.ba.cnr.it

3:05  Break

3:30  The CBF transcriptional activators, cis-trans functional analyses and the role they play in plant cold acclimation and freezing tolerance  Eric Stockinger, Dept. Horticulture and Crop Science, Ohio State Univ. /OARDC, Wooster, OH 44691. stockinger.4@osu.edu

4:00  Evolution of flowering time in Arabidopsis along a latitudinal cline  Johanna Schmitt, Dept. Ecology and Evolutionary Biology, Brown Univ., Providence, RI 02912. Johanna_Schmitt@brown.edu

4:30  Seasonal adaptation: Evolution of photoperiodic time measurement over latitudinal and altitudinal clines  William E. Bradshaw, Christina M. Holzapfel, Center For Ecology and Evolutionary Biology, University of Oregon Eugene, Oregon 97403. bradshaw@darkwing.uoregon.edu
SSE Symposium

Insect endosymbionts as targets and agents of evolutionary change: Recent insights and opportunities

Organized by Jennifer Wernegreen and Seth Bordenstein

8:00  Session welcome: Endosymbiont diversity, lifestyles, and insights from an anti-bacterial partnership
Jennifer Wernegreen. Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543. jwernegreen@mbl.edu

8:15  Evolutionary and functional adaptations in the transition from parasitism to mutualism
Colin Dale. Biology Dept., Univ. Utah, Salt Lake, UT 84112. dale@biology.utah.edu

8:45  Diverse reproductive alterations caused by the insect endosymbiont Cardinium
Martha Hunter. Dept. Entomology, Univ. Arizona, Tucson, AZ 85721. mhunter@ag.arizona.edu

9:15  The Wolbachia genome of Brugia malayi: Endosymbiont biology and evolution within a human pathogenic nematode
Barton Slatko. New England Biolabs, Beverly, MA 01915. DNASEQ@NEB.COM

9:45  Phage as catalysts of genome change in Wolbachia
Seth Bordenstein. Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543. sbordenstein@mbl.edu

10:00 Break

10:30 Endosymbiotic associations of whiteflies and prokaryotes
Paul Baumann. Microbiology Section, Univ. California Davis, Davis, CA 95616. pbaumann@ucdavis.edu

11:00 Endosymbionts and the unstable genetic systems of scale insects
Benjamin Normark. Dept. Entomology, Univ. Massachusetts, Amherst, MA 01003. bnormark@ent.umass.edu

11:30 Temperature shapes the costs and benefits of symbioses between aphids and maternally transmitted bacteria
Jake Russell. Dept.Organismic and Evolutionary Biology, Harvard Univ., Somerville, MA 02144. jrussell@oeb.harvard.edu

This symposium was sponsored by:
ASN/SSE Symposium

American Society of Naturalists Young Investigators' Symposium and Society for the Study of Evolution Dobzhansky Prize Lecture

Organized by David Rand

1:30  Ecological and evolutionary epidemiology
      Allison Galvani. Division of Epidemiology of Microbial Diseases, Yale Univ., New Haven, CT 06520. allison.galvani@yale.edu

2:00  Population genetics and evolution of gene expression
      Jeff Townsend. Dept. Molecular and Cell Biology, Univ. Connecticut, Storrs, CT 06269. Townsend.UConn@comcast.net

2:30  Connections between species diversity and genetic diversity
      Mark Velland. National Center for Ecological Analysis & Synthesis, Univ. California Santa Barbara, Santa Barbara, CA 93101. velland@nceas.ucsb.edu

3:00  Break

3:30  Dobzhansky Prize Lecture: Intraspecific competition and evolutionary diversification
      Daniel Bolnick. Section Integrative Biology, Univ. Texas Austin, Austin, TX 78712. danbolnick@mail.utexas.edu
MONDAY MORNING, JUNE 13

SSB Symposium

Genome analysis and molecular systematics of retroelements

Organized by Andrew M. Shedlock

8:00 Mobile elements and primate genomic diversity
Mark Batzer. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. mbatzer@lsu.edu

8:20 The SINE method: History, development and future
Norihiro Okada. Dept. Biological Sciences, Tokyo Inst. Technology, Tokyo, Japan. nokada@bio.titech.ac.jp

8:40 Evolutionary history of SINE retroposons in plants
Jean-Marc Dergon. Univ. Blaise Pascal Clermont-Ferrand II, Aubiere Cedex, France. J-MARC.DERAGON@UNIV-BPCLERMONT.FR

9:00 Evolutionary genomics of chromoviruses in eukaryotes
Dusan Kordis. Dept. Biochemistry and Molecular Biology, Josef Stefan Inst., Ljubljana, Slovenia. dusan.kordis@ijs.si

9:20 Penelope-like elements in eukaryotes: Properties and distribution
Irina Arkhipova. Dept. Molecular and Cellular Biology, Harvard Univ., Cambridge, MA 02138. arkhipov@fas.harvard.edu

9:40 The origins and evolution of non-LTR retrotransposons
Thomas Eickbush. Dept. Biology, Rochester, New York 14627. eick@mail.rochester.edu

10:00 Break

10:30 Assaulting genomes: Retroelements- the usual "LINE"-up and partners in crime
Astrid Engel. Dept. Epidemiology, Tulane Univ., School of Public Health and Tropical Medicine, New Orleans, LA 70112. aengel@tulane.edu

10:50 Retroposition in mammals and evolutionary implications
Jürgen Schmitz. Inst. Experimental Pathology, Univ. Muenster, Muenster, Germany. jueschm@uni-muenster.de

11:10 Genome informatics of interspersed repeats
Arian Smit. Inst. Systems Biology, Seattle, WA 98103. asmit@systemsbiology.org

11:30 Statistical inference from integrating retroposon insertions and DNA sequences
Masami Hasegawa. Inst. Statistical Mathematics, Tokyo, Japan. hasegawa@ism.ac.jp

11:50 Exploring the limits to retroposon insertion analysis
Andrew Shedlock. Museum of Comparative Zoology, Harvard Univ., Cambridge, MA 02138. shedlock@ocb.harvard.edu
ASN Symposium:

American Society of Naturalists 2005 Vice-Presidential Symposium

Organized by Mark A. McPeek

1:30 Introduction: The philosophy of integration
Mark A. McPeek. Dept. Biological Sciences, Dartmouth College, Lebanon, NH 03766. mark.mcpeek@Dartmouth.EDU

1:45 Integrating ecology with evo-devo to explore evolutionary constraints
Paul M. Brakefield. Faculty of Mathematics and Natural Sciences, Leiden Univ., 2300 RA Leiden. brakefield@ruisfb.leidenuniv.nl

2:15 Community assembly rules in non-steady-state systems: The impacts of climatic and socio-economic changes
F. Stuart Chapin. Dept. Biology and Wildlife. Univ. Alaska Fairbanks, Fairbanks AK 99775. terry.chapin@uaf.edu

2:45 The sorry state of F2 hybrids: A molecular approach to the evolution of species
Ron S. Burton. Marine Biology Research Division, Scripps Institution of Oceanography. Univ. California, San Diego, La Jolla, CA 92093. rburton@ucsd.edu

3:15 Break

3:30 Biological stoichiometry: A chemical bridge between ecosystem ecology and evolutionary biology
James Elser. School of Life Sciences, Arizona State Univ., Tempe, AZ 85287. j.elser@asu.edu

4:00 Building damselfly assemblages over the past 10 million years
Mark A. McPeek. Dept. Biological Sciences, Dartmouth College, Lebanon, NH 03766. mark.mcpeek@Dartmouth.EDU

4:30 Discussion: Strategies for integrating research
Special Symposium

Genetics and development of color pattern

Organized by Sydney Cameron

8:30  Phylogenetic pattern of mimicry evolution in bumble bees  
      Sydney Cameron. Dept. Entomology, Univ. Illinois, Urbana, IL 61801. scameron@life.uiuc.edu

9:00  Evolution and speciation in mimetic butterflies  
      James Mallet. Univ. College London. London, NW1 2HE England. j.mallet@ucl.ac.uk

9:30  Towards a comparative genomic and developmental framework of mimicry in Heliconius  
      Owen McMillan. Dept. Biology, Univ. Puerto Rico, Rio Piedras. wmcmilla@rrpac.upr.edu

10:00 Break

10:30 Gene function in the development of butterfly wing patterns  
      Antonia Monteiro. Dept. Biological Sciences, 107 Dorsheimer, SUNY Buffalo, Buffalo, NY 14260. monteiro@buffalo.edu

11:00 Regulation of pigment genes in Heliconius wing pattern formation  
      Rob Reed. Dept. Biology, Duke Univ., Durham, NC 27708. reed@duke.edu

11:30 Development and evolution of Drosophila melanin patterns  
      John True. Dept. Ecology and Evolution, SUNY Stony Brook, Stony Brook, NY 11794. jtrue@life.bio.sunysb.edu

12:00 Lunch

1:30 Genetic and molecular analysis of male nuptial color in sticklebacks  
      Katie Peichel. Fred Hutchinson Cancer Res. Ctr., Seattle, WA 98109. cpeichel@fhcrc.org

2:00 The genetics of reptile color evolution at the community level  
      Erica Rosenblum. Museum Vertebrate Zoology, Univ. California Berkeley, Berkeley, CA 94720. rosenblum@berkeley.edu

2:30 Genetic basis of adaptive color patterns: From mice to molecules  
      Hopi Hoekstra. Division Biological Sciences, Univ. California San Diego, La Jolla, CA 92122. hoekstra@ucsd.edu

3:00 Break

4:00 Genetics and ecology of floral color patterning in Chilean Mimulus  
      Arielle Cooley. Dept. Biology, Duke Univ., Durham, NC 27708. ame34@duke.edu
SSE Symposium

Condition dependence, genetic variance, and the evolution of mating preferences

Organized by Howard Rundle and Mark Blows

8:00  Genetic variance in female condition predicts indirect genetic variance in male sexual display traits  
Donna Petfield, Stephen F. Chenoweth, Howard D. Rundle*, Mark W. Blows. School Integrative Biology, Univ. Queensland, St. Lucia Brisbane, Qld. 4072 Australia. h.rundle@uq.edu.au

8:30  Merging models of sexual selection  
David Houle, Janna Fierst. Biological Science Dept., Florida State Univ., Tullahassee, FL 32306. dhoule@bio.fsu.edu

9:00  Genotype x environment interaction, the lek paradox, and the (un)reliability of mating signals  
Michael Greenfield. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. greenfie@ku.edu

9:30  Good genes, reinforcement, and the evolution of adaptive mate choice  
Mark Kirkpatrick. Section of Integrative Biology, Univ. Texas Austin, Austin, TX 78712. kirkp@mail.utexas.edu

10:00  Break

10:30  Genetic versus phenotypic condition dependence in birds  
Ian F. P. Owens. Imperial College, Ascot, Berkshire, SL5 7PY UK. i.owens@imperial.ac.uk

11:00  Sexual conflict and condition dependence  
Locke Rowe. Dept. Zoology, Univ. Toronto, Toronto, Ontario, Canada. M5S 3G5. lrowe@zoo.utoronto.ca

11:30  Multivariate quantitative genetics and the lek paradox  
Mark W. Blows*, Stephen F. Chenoweth, Emma Hine. School Integrative Biology Univ. Queensland, St. Lucia Brisbane, Qld. 4072 Australia. m.blows@uq.edu.au
SSB/SSE Education Committee Symposium

Teaching phylogenetics at introductory undergraduate and precollege levels

Organized by David Baum and Sam Donovan

1:30  The challenge of teaching tree-thinking: Major misconceptions and their remedies
      David A. Baum. Dept. Botany, Univ. Wisconsin, Madison, WI 53706. dbaum@wisc.edu

2:00  The advantages of using phylogenetic trees in biology teaching
      Susan Offner. Lexington High School, Massachusetts. soffner@sch.ci.lexington.ma.us

2:30  Simulation-based tutorials for teaching tree thinking
      Jon C. Herron. Dept. Zoology, Univ. Washington, Seattle, WA 98195. herronjc@u.washington.edu

3:00  Break

3:30  Reading topologies: A study of students' understanding of relationships displayed in trees
      Samuel S. Donovan. School of Education, Univ. Pittsburgh, Pittsburgh, PA 15260.
      sdonovan+@pitt.edu

4:00  Lessons from the tree of life: The use of language in teaching phylogenetics
      kirstenj@socrates.berkeley.edu

4:15  Using trees to teach biodiversity
      Manda Clair Jost. Integrative Biology, Patterson Labs, Univ. Texas Austin, Austin, TX 78712.
      mandaelair@mail.utexas.edu

4:30  Using phylogenies as a framework for ecology and biogeography
      Michael.Donoghue@Yale.edu
### SATURDAY EARLY MORNING, JUNE 11

#### SATURDAY 8:00 – 10:00 Population genetics

**8:00**  
High levels of genetic differentiation are detected within island populations in two sympatric *Rhizopogon* species  
*Lisa C. Grubisha, Thomas D. Bruns. Dept. Plant and Microbial Biology, Univ. California, Berkeley, CA 94720. grubishl@nature.berkeley.edu*

**8:15**  
Signature of a selective sweep in *Arabidopsis thaliana*  
*Richard C. Moore, Philip Awadala, Michael Purugganan. N.C. State Univ., Raleigh, NC, 27695. rcmoore@unity.ncsu.edu*

**8:30**  
Evolutionary analysis of highly polymorphic genes in *Arabidopsis thaliana*: A hunt for balanced polymorphisms  
*Jennifer M. Cork, Michael D. Purugganan. North Carolina State Univ., Raleigh, NC 27603. jmreinin@unity.ncsu.edu*

**8:45**  
Estimates of historic levels of gene flow and times of divergence among northern foxtail pine populations  
*Andrew J. Eckert, Benjamin D. Hall. Dept. Biology, Univ. Washington, Seattle, WA 98195. aje2@u.washington.edu*

**9:00**  
Domestication and the distribution of genetic variation in the Mesoamerican fruit tree, *Spondias purpurea*  
*Allison J. Miller, Barbara A. Schaal. Univ. Colorado Museum, Univ. Colorado, Boulder, CO, 80309. Allison.J.Miller@colorado.edu*

**9:15**  
Quantitative and molecular arquitectures of Spanish Cedar (*Cedrela odorata*) and Mahogany (*Swietenia macrophylla*)  
*Carlos Navarro, Stephen Cavers. Tropical Agricultural Research and Higher Education Centre.CATIE 7170 Turrialba Costa Rica. cnavarro@catie.ac.cr*

**9:30**  
Colonization genetics of an animal-dispersed plant at Mount St. Helens, Washington  
*Suann Yang, Michael S. Webster, John G. Bishop. Washington State Univ., PO Box 644236, Pullman, WA 99164. syang1@wsu.edu*

**9:45**  
Consequences of range peripheries: Genetic and phenotypic variation in Sitka spruce  
*Makiko Minuma, Sally N. Aitken. 3041-2424 Main Mall, Vancouver, BC, V6T 1Z4, Canada. mimura@interchange.ubc.ca*

#### SATURDAY 8:00 – 10:00 Development and evolution

**8:00**  
Evolutionary rates of gain and loss of gene expression domains  
**Todd H. Oakley, Bjorn Osman. Univ. California-Santa Barbara. oakley@lifesci.ucsb.edu**

**8:15**  
Changes in development underlying bony armor loss in Alaskan threespine stickleback  
**Mark Currey, Angel Amores, Charles B. Kimmel, John H. Postlethwait, William A. Cresko. Center for Ecology and Evolutionary Biology, Univ. Oregon, Eugene, OR 97403. wcresko@darkwing.uoregon.edu**

**8:30**  
Comparative gene expression of zygotic and maternal-effect genes involved in sex differentiation in TSD and GSD turtles  
**Nicole Valenzuela, Andrea R. LeClere, Barbara Kagima. Dept. Ecology, Evolution, Organismal Biology, Iowa State Univ., Ames, IA 50011. nvalenzu@iastate.edu**

* student presenter
9:00 Development and evolution of lateral plate position in threespine stickleback

Michael A. Bell. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook, NY 11794-5245, USA. mbell@life.bio.sunysb.edu

9:15 Bacterially derived compounds induce choanoflagellate colony formation

* Rick Zuzow, Nicole King. Dept. Molecular and Cell Biology, Dept. Integrative Biology, Univ. California, Berkeley. rzuzow@berkeley.edu

9:30 Development of abdominal appendages in Collembola

Matthew Terry, Lisa Nagy. Univ. Arizona, Tucson, AZ, 85721. matthew_terry@arizona.edu

9:45 Inferring patterns of morphological integration and modularity of skull shape using morphometrics

* Eladio J. Marquez. Univ. Michigan, Museum of Zoology. emarquez@umich.edu

SATURDAY 8:00 – 10:00 Systematics

8:00 A data management framework for the Fungal Tree of Life (AFTOL)

Frank Kauff, Cymon J. Cox, Francois Lutzoni. Dept. Biology, Duke Univ., Box 90338, Durham, NC 27708. fkauff@duke.edu

8:15 Evidence for an autochthonous radiation of tropical Pacific birds: Island avifaunas as sources of continental diversity?

Christopher E. Filardi, Robert G. Moyle. Dept. Ornithology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024-5192. filardi@amnh.org

8:30 Avian phylogeny: A comparison of supertree and supermatrix methods

* Katie E. Davis, Roderic D. M. Page, Nadia Anwar. DEEB, IBLIS, Univ. Glasgow, Glasgow, G12 8QQ. k.davis@udec.gla.ac.uk

8:45 Multiple gene evidence for expansion of extant penguins out of Antarctica due to global cooling

Allan J. Baker, Sergio Luiz Percira, Oliver P. Haddrath, Kerri-Anne Edge. Royal Ontario Museum, Depart Natural History, 100 Queen’s Park, Toronto, ON, Canada, M5S 2C6. sergio.percira@utoronto.ca

9:00 Polyphyly of a genus of neotropical forest hawks (Accipitridae: Leucopternis) based on mitochondrial and nuclear DNA

* Heather R.L. Lerner, Matthew C. Klaver, David P. Mindell. Univ. Michigan, Museum of Zoology, Bird Division, 1109 Geddes Rd. Ann Arbor MI 48109-1079. hlerner@umich.edu

9:15 Phylogenetic history of Old World suboscine birds: How do taxa become pantropical in distribution?

Robert G. Moyle, R. T. Chesser, Peter Schikler, Joel Cracraft. American Museum of Natural History, New York, NY, 10024. moyle@amnh.org

9:30 New phylogenies suggest that Enteropneusta is a plausible model for the proximate ancestor of chordates

Chris B. Cameron. Bamfield Marine Sciences Centre, Bamfield, BC, V0R1B0. jetsam@uvic.ca

9:45 Comparing morphological and molecular analyses in Malacothamnus (Malvaceae)

Tracey A. Bodo Slotta. 1605 Albrecht Blvd. Fargo ND 58105-5674. slottat@fargo.ars.usda.gov

* student presenter
**SATURDAY 8:00 – 10:00 Speciation**

**8:00** An intrinsic physiological determinant of range size and genetic structure among congeneric salamanders  
Joseph Bernardo, Ryan J. Ossola, James Spotila, K. A. Crandall. Dept. Biology, College of Charleston, 66 George Street, Charleston, SC 29424. bernardoj@cofc.edu

**8:15** Adaptive loss of an ancient duplicate gene during incipient speciation  
Anthony J. Greenberg, Jennifer R. Moran, Chung-I Wu. Dept of Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. tonyg@uchicago.edu

**8:30** Ecological trade-offs along a depth gradient may increase reproductive isolation between two incipient coral species  
David B. Carlon. Dept. Zoology, University of Hawaii at Manoa, Honolulu, HI 96822. carlon@hawaii.edu

**8:45** Identifying genomic regions that contribute to incipient speciation in pea aphids  
Sara Via, Joan West. Dept. Biology and Dept. Entomology, Univ. Maryland, College Park, MD 20742. Svia@umd.edu

**9:00** Locally adapted foraging behaviour and chick development in the wedge-tailed shearwater (*Puffinus pacificus*)  
* Darren R. Peck, Bradley C. Congdon. School of Tropical Biology, James Cook Univ., Cairns, Australia. darren.peck@jcu.edu.au

**9:15** The relationship between population divergence and reproductive isolation among six populations of the annual plant *Diodia teres*  
* Joe Hereford. Florida State Univ., Dept. Biological Science, Tallahassee, FL 32306-1100. hereford@bio.fsu.edu

**9:30** Darwin's corollary to Haldane's rule: Asymmetric postzygotic isolation  
Michael Turculli, Leonie C. Moyle. Section of Evolution and Ecology, Univ. California, Davis, CA 95616. mturculli@ucdavis.edu

**9:45** Extrinsic post-zygotic isolation dramatically broadens conditions for reinforcement speciation  
* Roman Yukilevich, John R. True. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook, NY 11794-5245. yukilevi@life.bio.sunysb.edu

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**SATURDAY 8:00 – 10:00 Life history evolution**

**Gruening 208**

**8:00** The biochemical basis of a life history trade-off in a wing-dimorphic cricket  
Tony Zera, Zhangwu Zhao. School of Biological Sciences, Univ. Nebraska, Lincoln, NE 68588. azeral@unlnotes.unl.edu

**8:15** Predator-mediated mortality and comparative demography in the tropical livebearer *Brachyrhaphis rhabdophora*: Which life history traits most affect fitness?  
Jerald B. Johnson. Dept. Integrative Biology, M.L. Bean Life Science Museum, Brigham Young Univ., Provo, UT 84602. jerry.johnson@byu.edu

**8:30** Climatic influences on the evolution of sexual size dimorphism in the chipmunks (*Tamias spp.*)  

**8:45** Viability cost of reproduction and behavioral compensation in *Gambusia affinis*  
Mark C. Belk, Jacob M. Condon. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. mark_belm@byu.edu

* student presenter
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<th>Time</th>
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<th>Presenter/Institution</th>
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<tr>
<td>9:00</td>
<td>Foraging determinants of life history strategies in holometabolous insects</td>
<td>Carol L. Boggs. Center for Conservation Biology, Stanford Univ., Stanford, CA 94305-5020. c <a href="mailto:boggs@stanford.edu">boggs@stanford.edu</a></td>
</tr>
<tr>
<td>9:15</td>
<td>The physiological regulation of simultaneously selected traits: Body size and development time in <em>Manduca sexta</em></td>
<td>Goggy Davidowitz, Derek A. Roff, H. Frederik Nijhout. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. <a href="mailto:goggy@email.arizona.edu">goggy@email.arizona.edu</a></td>
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<tr>
<td>9:30</td>
<td>Evolution of benthic development in Sacoglossan gastropods</td>
<td>Ryan A. Ellingson, Patrick J. Krug. Dept. Biological Sciences, California State Univ., Los Angeles, CA, 90032-8201. <a href="mailto:pkrug@calstatela.edu">pkrug@calstatela.edu</a></td>
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<tr>
<td>9:45</td>
<td>Predation favors the evolution of larger size in a Poeciliid</td>
<td>Alexandra L. Basolo. School of Biological Sciences, Univ. Nebraska-Lincoln. <a href="mailto:basolo@cricket.unl.edu">basolo@cricket.unl.edu</a></td>
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**SATURDAY 8:00 – 10:00 Gene structure and function**

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<th>Time</th>
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<tr>
<td>8:00</td>
<td>The evolution of tetrodotoxin resistant sodium channels in pufferishes (<em>Tetraodontiformes: Tetraodontidae</em>)</td>
<td>Manda Clair Jost, Harold Zakon, David Hillis, Harry Fozzard. Univ. Texas Austin, TX 78712. <a href="mailto:mandaclair@mail.utexas.edu">mandaclair@mail.utexas.edu</a></td>
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<tr>
<td>8:15</td>
<td>Parallel patterns of evolution in the genomes and transcriptomes of humans and chimpanzees</td>
<td>M. Leinweber, H. Franz, G. Weiss, Michael Lachmann, S. Peebo. Max Planck Inst. for evolutionary anthropology, Leipzig Germany. <a href="mailto:lachmann@eva.mpg.de">lachmann@eva.mpg.de</a></td>
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<td>8:30</td>
<td>Brood pouch genomics: Novel gene function associated with male pregnancy in pipefishes and seahorses (<em>Syngnathidae</em>)</td>
<td>April D. Harlin-Cognato, Eric A. Hoffman, Adam G. Jones. Biology Dept., Texas A&amp;M Univ., College Station, TX 77843. <a href="mailto:april_harlin-cognato@tamu.edu">april_harlin-cognato@tamu.edu</a></td>
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<tr>
<td>8:45</td>
<td>Evolution of tick CRT introns</td>
<td>Quentin Q. Fang, Guang Xu. Dept. Biology, Georgia Southern Univ. <a href="mailto:qfang@GeorgiaSouthern.edu">qfang@GeorgiaSouthern.edu</a></td>
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<tr>
<td>9:00</td>
<td>The architecture of the chloroplast trnH-psbA non-coding region in seed plants and the genus <em>Silene</em></td>
<td>Helena Storchova, Matthew S. Olson. Inst. Exp. Botany, Prague, 16500 Czech Rep.; Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:storchova@ueb.cas.cz">storchova@ueb.cas.cz</a></td>
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<tr>
<td>9:15</td>
<td>Micro-evolution of cis-acting control of early <em>Drosophila</em> development genes: The case of the <em>fushi tarazu</em> hox gene’s promoter and enhancer sequences</td>
<td>Mohammed Bakkali, J. F. Y. Brookfield. Inst. Genetics, Univ. Nottingham, Queen’s Medical Centre, Nottingham, NG7 2UH, England. <a href="mailto:M.Bakkali@nottingham.ac.uk">M.Bakkali@nottingham.ac.uk</a></td>
</tr>
<tr>
<td>9:30</td>
<td>Using ESTs to detect large-scale genome duplication events in <em>Mimulus</em>’ past</td>
<td>Amy Bouck, John Willis, Todd Vision. Biology Dept, Duke Univ., PO Box 90338, Durham, NC 27708. <a href="mailto:bouck@duke.edu">bouck@duke.edu</a></td>
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* student presenter
SATURDAY LATE MORNING, JUNE 11

SATURDAY 10:30 – 12:00 Population genetics

10:30 Does seed location within large tree canopy determine where the pollen come from? Andrea R Pluess, Frank Davis, Brian Dolan, Kurt Merg, Jeanette Papp, Peter Smouse, Victoria Sork. Dept. Ecology and Evolutionary Biology, Univ. California Los Angeles, Los Angeles, CA 90095. apluss@eeb.ucla.edu

10:45 Living in an agrosystem: A population genetic approach using weed beets as a case study Jean-François Arnaud, Stéphane Fénart, Mathilde Cordellier, Joël Cuguen. Laboratoire GEPP, UMR CNRS 8016, Université de Lille 1, France. jean-francois.arnaud@univ-lille1.fr

11:00 The population genomics of rice and its wild ancestor Ana L. Caicedo, Michael D. Purugganan. Dept. Genetics, North Carolina State Univ., Raleigh, NC 27695. ana.caicedo@ncsu.edu

11:15 The role of recombination in a highly-selfing species Peter L. Morrell, Donna M. Toleno, Karen E. Lundy, Michael T. Clegg. Dept. Ecology and Evolutionary Biology, Univ. California, Irvine, CA 92697. pmorrell@uci.edu

11:30 The role of coastal topography and circulation patterns in structuring populations of the broadcast spawner Fucus * Jessica F. Muhlin, Susan H. Brawley. School of Marine Sciences, Univ. Maine, Orono, ME 04469. Jessica_Muhlin@umit.maine.edu

11:45 Patterns of chloroplast diversity in wild and cultivated sunflower using cpSSRs * David M. Wills, Catherine H. Pashley, John M. Burke. Dept. Biological Sciences, Vanderbilt Univ., Nashville, TN 37235. david.wills@vanderbilt.edu

SATURDAY 10:30 – 12:00 Development and evolution

Wood Center C & D

10:30 Molecular and morphological evolution in the Asteraceae Mark A Chapman, John M Burke. Vanderbilt Univ., Dept. Biological Sciences, VU Station B 351634, Nashville, TN 37235. mark.a.chapman@vanderbilt.edu


11:00 Population structure underlying a developmental trait in Neotropical Drosophila Erin Penton, Daniela DeToni, Marlicia Martins, Neil Lobo, Hope Hollocher. Dept. Biological Sciences, Univ. Notre Dame, Notre Dame, IN 46556. hope.hollocher.1@nd.edu

11:15 Genetic investigation of the rapid evolution of ovariole number in the melanogaster species subgroup Virginie Orgogozo, David Stern. Princeton Univ., Dept. Ecology and Evolutionary Biology, Princeton, NJ 08544. vorgogozo@princeton.edu

* student presenter
11:30 Cis-regulatory variation and the evolution of eggshell patterning in *Drosophila*  
Lisa M. Goering, Greg Gibson. North Carolina State Univ., Raleigh, NC 27695. lmgoein@ncsu.edu

11:45 Hsp90 and the quantitative variation of wing shape in *Drosophila melanogaster*  
Vincent Debat, Claire C. Milton, Suzannah Rutherford, Christian Peter Klingenberg, Ary A. Hoffmann. Faculty of Life Sciences, Univ. Manchester, Lancashire, UK M13 9PT. vincent.debat@manchester.ac.uk

SATURDAY 10:30 – 12:00 Systematics  
Wood Center Ballroom

10:30 Systematics and historical biogeography of Middle American and Greater Antillean Cichlidae  
* Proanta Chakrabarty. Univ. Michigan Museum of Zoology, Fish Division, 1109 Geddes Ave., Ann Arbor, MI 48109. pcchakrab@umich.edu

10:45 The evolution of insect agriculturalists: Molecular phylogenetics of fungus-growing ants  
Sean G. Brady, Ted R. Schultz. Dept. Entomology, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560. brady.sean@nmnh.si.edu

11:00 Nested radiations: An emerging view of ant phylogeny  
Philip S. Ward, Sean G. Brady, Ted R. Schultz, Brian L. Fisher. Dept. Entomology, Univ. California, Davis, CA 95616, USA. psward@ucdavis.edu

11:15 Phylogenetics of microgastrine wasps based on eight genes  
Jonathan C. Banks, James B. Whitfield. Dept. Entomology, Univ. Illinois, Urbana Champaign, IL 61801. jbanks@life.uiuc.edu

11:30 Data congruence in Euneida (Annelida) using a Partition Addition Bootstrap Alteration (PABA) approach  
Torsten H. Struck, Kenneth M. Halanych. 101 Life Science Bld, Biology Dept, Auburn Univ, Al 36849. ken@auburn.edu

11:45 Molecular and morphological phylogenetics of higher flies (Diptera, Cyclorrhapha)  
Jeffery H. Skevington, J.M. Cumming, J.K. Moulton, B.M. Wiegmann, B.J. Sinclair, B. Cassel. Agriculture and Agri-Food Canada, Ottawa, ON, K1A 0C6, Canada. skevingtonj@agr.gc.ca

SATURDAY 10:30 – 12:00 Speciation  
Lee H. Salisbury Theatre

10:30 Speciation and ecological divergence in the Lake Tanganyikan cichlid tribe, Lamprologini  
Julia J. Day. Imperial College London. julia.day@imperial.ac.uk

10:45 Species pairs of threespine sticklebacks in the Bering glacier region  
* Heidi Weignier, Frank A. von Hippel. Dept. Biology, Univ. Alaska Anchorage, Anchorage, AK 99508. anhllw@uaa.alaska.edu

11:00 Maintenance of diversity in a polymorphic cichlid  
Brook O. Swanson. Univ. California, Riverside, CA 92521. Brook.Swanson@ucr.edu

11:15 Evolution of post-zygotic isolation in Centrarchid fishes  
Daniel Bolnick, Thomas Near. Section of Integrative Biology, Univ. Texas Austin, One Univ. Station C0930, Austin TX 78712. danbolnick@mail.utexas.edu

* student presenter
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<tr>
<td>11:30</td>
<td>Morphological divergence of endemic fishes of Lake Waccamaw, North Carolina</td>
<td>Trevor J. Krabbenhoft, Michael L. Collyer, Joseph M. Quattro. Dept. Biological Sciences, Univ. South Carolina, Columbia SC 29208. <a href="mailto:Krabbenhoft@biol.sc.edu">Krabbenhoft@biol.sc.edu</a></td>
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<tr>
<td>11:45</td>
<td>Microarray analysis of reproductive isolation in <em>Xenopus</em> (Amphibia: Anura)</td>
<td>John H. Malone, Pawel Michalak. Dept. Biology, Univ. Texas-Arlington. <a href="mailto:smilisca@uta.edu">smilisca@uta.edu</a></td>
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**SATURDAY 10:30 – 12:00 Life history evolution**

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<tr>
<td>10:30</td>
<td>Does parental partnership status affect human population sex ratios at birth?</td>
<td>Karen E. Norberg. Washington Univ. School of Medicine, St. Louis, MO 63110. <a href="mailto:norberg@olin.wustl.edu">norberg@olin.wustl.edu</a></td>
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<tr>
<td>11:00</td>
<td>The contribution of yeast nutrition to somatic maintenance and reproduction in fully fed and yeast-restricted <em>Drosophila</em></td>
<td>Diane M. O'Brien, Kyung-Jin Min, Marc Tatar. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:ffd@uaf.edu">ffd@uaf.edu</a></td>
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<td>11:15</td>
<td>The rate of aging in domestic mammals, as compared to their recent ancestors in the wild and in the zoo: Can domestic animals serve as a model for aging?</td>
<td>Alex Scheuerlein, Jutta Gump, Robert E. Ricklefs. Dept. Biology, Univ. Missouri - St Louis. <a href="mailto:scheuerlein@ums.l.edu">scheuerlein@ums.l.edu</a></td>
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<td>11:45</td>
<td>Origin of life history variation in northern form dolly varden <em>Salvelinus malma</em></td>
<td>Penny Crane, Fred DeCicco, John Wenburg. USFWS, 1011 E. Tudor Road, Anchorage, AK 99503. penelope_cranefws.gov</td>
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**SATURDAY 10:30 – 12:00 Genomics/proteomics**

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<tr>
<td>10:30</td>
<td>Evolution of insect metamorphosis: A microarray-based study of larval and adult gene expression in a social insect</td>
<td>Michael A. D. Goodisman, Jun Isoc, Diana E. Wheeler, Michael A. Wells. Georgia Inst. Technology, Atlanta, GA 30332. <a href="mailto:michael.goodisman@biology.gatech.edu">michael.goodisman@biology.gatech.edu</a></td>
</tr>
<tr>
<td>10:45</td>
<td>Genomic analysis of caste differentiation in yellowjacket wasps</td>
<td>Eric A. Hoffman, Michael A. D. Goodisman. Georgia Tech., Atlanta, GA 30032. <a href="mailto:eric.hoffman@biology.gatech.edu">eric.hoffman@biology.gatech.edu</a></td>
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<td>11:00</td>
<td>Oscillating evolution of a mammalian locus with overlapping reading frames: An XL-alpha-s/ALEX relay</td>
<td>Anton Nekrutenko, Samir Wadhawan, Paula Goetting-Minesky, Katerina Makova. Center for Comparative Genomics and Bioinformatics, Penn State, Univ. Park, PA 16802. <a href="mailto:aunl@psu.edu">aunl@psu.edu</a></td>
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* student presenter
11:15  Reptilian genomics status and resources

11:30  Origin of the vomeronasal system determined by vomeronasal specific genes

11:45  Mitochondrial genomics and the higher level phylogeny of beetles (Coleoptera)

Travis C. Glenn. Savannah River Ecology Lab, Univ. Georgia and South Carolina, Aiken, SC 29802. Travis.Glenn@sc.edu

*  Wendy E. Grus, Jianzhi Zhang. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. wgrus@umich.edu

Stephen L. Cameron, Michael F. Whiting. Dept. Integrative Biology, Brigham Young Univ., Provo, UT, 84602. slc236@email.byu.edu

* student presenter
SATURDAY EARLY AFTERNOON, JUNE 11

SATURDAY 1:30 – 3:00 Population genetics

1:30  Population succession and bloom formation in a planktonic diatom
      Tatiana Ryncarson, E. V. Armbrust, C.P. Sarason, M. Kawasc. Univ. Washington, School of Oceanography, Box 357940, Seattle, WA 98195. trynca@ocean.washington.edu

1:45  Population structure of stygobitic isopods in the Pilbara, Western Australia
      * Cara J. Francis. School of Animal Biology, Univ. Western Australia, Perth, WA 6009. cfjfran@student.uwa.edu.au

2:00  The Poisson pairwise difference method: A general approach for population genetic inference from correlated SNP data
      * Lan Zhu, Carlos D. Bustamante. 434 Warren Hall, Cornell Univ., Ithaca, NY 14850. lz34@cornell.edu

2:15  Impacts of ascertainment and selection on the estimation of population structure: Comparing SNPs, STRs and allozymes
      Christian T. Smith, William D. Templin, Lisa W. Seeb. Alaska Dept. Fish and Game, 333 Raspberry Road, Anchorage, AK 99518. christian_smith@fishgame.state.ak.us

2:30  The power of SNPs for large scale parentage analysis
      Eric C. Anderson. Southwest Fisheries Science Center, 110 Shaffer Road, Santa Cruz, CA 95060. eric.anderson@noaa.gov

2:45  Species divergence parameters: Exploration with a genomic library and different sampling schemes
      Bryan C. Carstens, L. Lacey Knowles. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. bcarsien@umich.edu

SATURDAY 1:30 – 3:00 Quantitative genetics

1:30  Circadian organization in the Subarctic
      Ronald J. Tavernier Jr., Keiko Akasofu, Abel Bultito. Alaskan Basic Neurosci. Program, Inst. Arctic Biol., Univ. Alaska Fairbanks, P.O. Box 757000, Fairbanks, AK 99775. rtfab@uaf.edu

1:45  The genetics of thermotolerance in Drosophila
      Theodore J Morgan, Laura H Duncan, Mohammed U. Naseer, Ergi Ozsoy, Trudy F.C. Mackay. Dept. Genetics, North Carolina State Univ., Raleigh, NC 27695. tjmorgan@unity.ncsu.edu

2:00  The evolution of evolvability: Dynamics of the G-matrix when the mutational matrix evolves
      Adam G. Jones, Steven J. Arnold, Reinhard Buerger. Dept. Biology, Texas A&M Univ., College Station, TX 77843. agjones@tamu.edu

2:15  Results from a multi-regime artificial selection experiment in Drosophila
      Ashley J.R. Carter, Thomas F. Hansen, David Houle. Florida State Univ., Tallahassee, FL 32306-1100. acarter@bio.fsu.edu

2:30  Gene expression in the wing discs of Drosophila melanogaster
      Jason G. Mezey, Nancy Xiong, Ashley J. R. Carter, David Houle, Sergey V. Nuzhdin. Univ. California, Davis. jgmezey@ucdavis.edu

* student presenter
2:45 Quantitative genetics of plastron shape in slider turtles (*Trachemys scripta*)

ERIN M. MYERS, FREDRIC J. JANZEN, DEAN C. ADAMS, JOHN K. TUCKER. Dept. Ecology, Evolution, and Organismal Biology, Iowa State Univ., Ames, IA 50011. emyers1@iastate.edu

SATURDAY 1:30 – 3:00 Systematics

WOOD CENTER BALLOON

1:30 Scales and trees: Systematics and phylogeny of *Massauctor* (Coccoidea: Margarodidae)

JANIE M. BOOTH, PENELOPE J. GULLAN. Entomology Dept., UC Davis, 1 Shields Ave, Davis, CA 95616. jmbooth@ucdavis.edu

1:45 Molecular phylogeny of Venus clams: Digging up sign of the Atlantic invasion

ISABELLA KAPPNER. Univ. Illinois - Chicago/Field Museum of Natural History, Chicago, IL 60605. ikappner@fieldmuseum.org

2:00 MitDNA systematics of the Australian fresh water crab genus *Austrorhelphusa* (Decapoda: Brachyura: Parathelphusidae)

DAVID GOPARENKO, PETER J.F. DAVIE. Dept. Forestry and Natural Resources, Purdue Univ., west Lafayette, IN 47906. dgoparen@purdue.edu

2:15 Phylogeny and host use evolution of buprestid beetles (Coleoptera: Buprestidae)

AMANDA M. EVANS, BRIAN D. FARRELL. Dept. Organismic and Evolutionary Biology, Harvard Univ., Cambridge, MA 02138. amevans@oeb.harvard.edu

2:30 Discriminating among tropical Lepidoptera with DNA barcodes

MEHRDAD HAJIBABAIE, DANIEL H. JANZEN, JOHN M. BURNS, ELPIDO A. REMIGIO, WINNIE HALLWACHS, PAUL D. N. HEBERT. Dept. Integrative Biology, Univ. Guelph, Guelph, ON Canada N1G2W1. mｈajibabab＠uoguelph.ca

2:45 The phylogeny of Odonata

KARL M. KJER, FRANK L. CARLE, MICHAEL L. MAY. Rutgers Univ., Dept. Ecology, Evolution and Natural Resources. Kjer@aesop.rutgers.edu

SATURDAY 1:30 – 3:00 Speciation

LEE H. SALISBURY THEATRE

1:30

1:45

2:00 Exploring host specificity and species limits of non-pollinating fig wasps

SUMMER SILVIEUS, GEORGE WEIBLEN. Univ. Alabama, Dept. Biological Sciences, Tuscaloosa, AL 35487. silv0124@umn.edu

2:15 Migration in heterogeneous habitats generates genetic covariance between host-plant preference and performance

PATRIK NOSIL, BERNARD CRESP, CRISTINA SANDOVAL, MARK KIRKPATRICK. Dept. Biosciences, SFU, Burnaby, B.C. Canada, V5A 1S6. pnosil@sfu.ca

2:30 Pleiotropic effects of the hybrid sterility gene, *Odysses* (OdsH), in *Drosophila*

YA-JEN CHENG, CHI-FA HUANG, CHAU-TI TING. Inst. Molecular and Cellular Biology, National Tsing Hua Univ., Hsinchu 300, Taiwan. d904226@oz.nthu.edu.tw

* student presenter
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<tr>
<td>2:45</td>
<td>Extraordinary sex ratios and hybrid sterility in stalk-eyed flies</td>
<td>Sarah J. Christianson, Gerald S. Wilkinson. Dept. Biology, Univ. Maryland College Park, College Park, MD 20742. <a href="mailto:sjoll@umd.edu">sjoll@umd.edu</a></td>
</tr>
<tr>
<td>1:30</td>
<td>Pocillilid life history variation along a salinity gradient in coastal marshes</td>
<td>* Shannon B. Martin, Paul L. Leberg. Dept. Biology, Univ of Louisiana at Lafayette, P.O. Box 42451, Lafayette, LA 70504. <a href="mailto:sbm@louisiana.edu">sbm@louisiana.edu</a></td>
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<tr>
<td>1:45</td>
<td>Costs and mechanisms of accelerated growth in a damselfly</td>
<td>* Caitlin Dmitriew. Dept. Zoology, Univ. Toronto, Toronto, ON M5S3G6. <a href="mailto:dmitriew@zoo.utoronto.ca">dmitriew@zoo.utoronto.ca</a></td>
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<tr>
<td>2:00</td>
<td>Demographic buffering against environmental stochasticity in the long-lived tundra plant <em>Silene acaulis</em></td>
<td>William F. Morris, Daniel F. Doak. Biology Dept., Duke Univ., Durham, NC 27708-0338. <a href="mailto:wfmorris@duke.edu">wfmorris@duke.edu</a></td>
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<tr>
<td>2:15</td>
<td>Limited larval dispersal and minimal adult movement in black rockfish (<em>Sebastes melanops</em>): Does it make evolutionary sense?</td>
<td>Jessica A. Miller. Univ. Oregon Inst. Marine Biology, Charleston, OR. <a href="mailto:adele@darkwing.uoregon.edu">adele@darkwing.uoregon.edu</a></td>
</tr>
<tr>
<td>2:30</td>
<td>Evolution of poccilogeny from planktotrophy: Speciation in the sea slug genus <em>Alderia</em></td>
<td>* Ryan A. Ellingson, Patrick J. Krug. Dept. Biological Sciences, California State Univ., Los Angeles, CA 90032. <a href="mailto:ryanellingson@gmail.com">ryanellingson@gmail.com</a></td>
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<td>2:45</td>
<td>Trade-offs of butterfly pupal diapause in the currency of fat reserves and chemical defense</td>
<td>James A. Fordyce, Chris C. Nice, Arthur M. Shapiro. Univ. Tennessee. <a href="mailto:jfordyce@utk.edu">jfordyce@utk.edu</a></td>
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**SATURDAY 1:30 – 3:00 Genomics/proteomics**

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<tr>
<td>1:45</td>
<td>Comparative genomics of innate immunity in <em>Drosophila</em></td>
<td>* Timothy Sackton, Andrew Clark. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca, NY 14850. <a href="mailto:tbs7@cornell.edu">tbs7@cornell.edu</a></td>
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<tr>
<td>2:00</td>
<td>How far does linkage disequilibrium extend in rice, a domesticated selfing species?</td>
<td>Kristie A. Mather, Ana L. Caicedo, Kenneth M. Olsen, Michael D. Purugganan. Dept. Genetics, North Carolina State Univ., Raleigh, NC 27695. <a href="mailto:kamather@ncsu.edu">kamather@ncsu.edu</a></td>
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<tr>
<td>2:15</td>
<td>High density of single nucleotide polymorphisms in the Pacific oyster</td>
<td>Jason P. Curole, Dennis Hedgecock. Dept. Biology, Univ. Southern California, Los Angeles, CA. <a href="mailto:jcurole@usc.edu">jcurole@usc.edu</a></td>
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<tr>
<td>2:30</td>
<td>Genome-wide gene expression changes and reproductive isolation</td>
<td>Pawel Michalak, Ivan Lee, Daiju Hoshino, John Malone. Biology Dept., Univ. Texas Arlington, Arlington, TX 76019. <a href="mailto:michalak@uta.edu">michalak@uta.edu</a></td>
</tr>
<tr>
<td>2:45</td>
<td>A genome-wide examination of <em>D. simulans/D. melanogaster</em> female hybrid sterility</td>
<td>* Heather Eisler, Hope Hollocher. Univ. Notre Dame, 038 Galvin, Notre Dame, IN 46556. <a href="mailto:heisler@nd.edu">heisler@nd.edu</a></td>
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</table>

* student presenter
### SATURDAY 3:30 – 5:15 Population genetic theory

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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:30</td>
<td>Co-estimating population growth and migration rates from sequence data using LAMARC</td>
<td>Eric Rynes, Jon Yamato, Mary K. Kuhner, Dept. Genome Sciences, Univ. Washington, Box 357730, Seattle, WA 98195. <a href="mailto:erynes@u.washington.edu">erynes@u.washington.edu</a></td>
</tr>
<tr>
<td>3:45</td>
<td>Bayesian vs. Likelihood approaches to coalescent analysis using LAMARC</td>
<td>Lucian P. Smith, Eric Rynes, Jon Yamato, Mary Kuhner, Dept. Genome Sciences, Univ. Washington, Seattle, WA 98105. <a href="mailto:lipsmith@u.washington.edu">lipsmith@u.washington.edu</a></td>
</tr>
<tr>
<td>4:00</td>
<td>Polymorphic parameter space for models of frequency-dependent selection</td>
<td>Hamish G. Spencer, Allan Wilson. Centre for Molecular Ecology and Evolution, Dept. Zoology, Univ. Otago, Dunedin, New Zealand. <a href="mailto:h.spencer@otago.ac.nz">h.spencer@otago.ac.nz</a></td>
</tr>
<tr>
<td>4:15</td>
<td>Protein folding stability and the overdispersed molecular clock</td>
<td>Daniel M. Weinreich, Mark A. DePristo, Dan Hartl. Organismic and Evolutionary Biology, Harvard Univ. <a href="mailto:dmw@oeb.harvard.edu">dmw@oeb.harvard.edu</a></td>
</tr>
<tr>
<td>4:30</td>
<td>In silico analysis of disease association mapping strategies using the coalescent with ascertainment and selection</td>
<td>Ying Wang, Bruce Rannala. Genome Center and Section of Evolution and Ecology, Univ. California Davis, USA 95616. <a href="mailto:ygwang@ucdavis.edu">ygwang@ucdavis.edu</a></td>
</tr>
<tr>
<td>4:45</td>
<td>A model of hitchhiking under divergent selection</td>
<td>Bryan P. Wood, Judith R. Miller. Dept. Mathematics, Georgetown Univ., Washington DC 20057 USA. <a href="mailto:jrm32@georgetown.edu">jrm32@georgetown.edu</a></td>
</tr>
<tr>
<td>5:00</td>
<td>Gene genealogies when the distribution of offspring number among individuals is highly skewed</td>
<td>Bjarki Eldon, John Wakeley. Dept. Organismic and Evolutionary Biology, Harvard Univ. <a href="mailto:wakeley@fas.harvard.edu">wakeley@fas.harvard.edu</a></td>
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### SATURDAY 3:30 – 5:00 Quantitative genetics

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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors/Institution</th>
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<tbody>
<tr>
<td>3:30</td>
<td>Epistasis in monkeyflowers</td>
<td>John K. Kelly. EEB, Univ. Kansas, Lawrence KS 66045. <a href="mailto:jkk@ku.edu">jkk@ku.edu</a></td>
</tr>
<tr>
<td>3:45</td>
<td>Temporal changes in the genetic architecture of Daphnia pulicaria in response to sex</td>
<td>* Desiree E. Allen, Michael Lynch. Indiana Univ. <a href="mailto:dallen@bio.indiana.edu">dallen@bio.indiana.edu</a></td>
</tr>
<tr>
<td>4:00</td>
<td>Estimating joint relatedness using a Markov Chain Monte Carlo (MCMC) estimator</td>
<td>Brook Milligan. Dept. Biology, New Mexico State Univ., Las Cruces, New Mexico 88003. <a href="mailto:brook@nmsu.edu">brook@nmsu.edu</a></td>
</tr>
<tr>
<td>4:15</td>
<td>Characterizing RMCMC, a Markov chain Monte Carlo (MCMC) joint relatedness estimator</td>
<td>* Christine M. Laney, Brook Milligan. Dept. Biology, New Mexico State Univ., Las Cruces, New Mexico 88003. <a href="mailto:chrlaney@nmsu.edu">chrlaney@nmsu.edu</a></td>
</tr>
<tr>
<td>4:30</td>
<td>Interactive effects of competition and resource availability on evolutionary potential in Impatiens capensis</td>
<td>John Stinchcombe, Johanna Schmitt. Ecology and Evolutionary Biology, Brown University. <a href="mailto:John_Stinchcombe@brown.edu">John_Stinchcombe@brown.edu</a></td>
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<td>4:45</td>
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* student presenter
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>3:30</td>
<td>The utility of nuclear DNA intron markers for mammalian systematics</td>
<td>Conrad A. Matthee, Geeta N. Eick, Amanda Pardini, Terry J. Robinson, Sandi Willows-Munro. Evolutionary Genomics Group, Dept. Botany and Zoology, Stellenbosch Univ., Stellenbosch, South Africa, 7602. <a href="mailto:cam@sun.ac.za">cam@sun.ac.za</a></td>
</tr>
<tr>
<td>3:45</td>
<td>Interordinal phylogenetic relationships of placental mammals based on retroposon insertions</td>
<td>Hidenori Nishihara, Norhiro Okada. Tokyo Inst. Technology, Yokohama, Japan. <a href="mailto:hnishiha@bio.titech.ac.jp">hnishiha@bio.titech.ac.jp</a></td>
</tr>
<tr>
<td>4:00</td>
<td>A molecular phylogeny of golden moles (Chrysochloridae) from sub-Saharan Africa</td>
<td>Sarita Maree, Paulette Bloomer, Gary N. Bronner, Nigel C. Bennett. Mammal Research Inst., Dept. Zoology and Entomology, Univ. Pretoria, Pretoria, 0002, South Africa. <a href="mailto:smaree@zoology.up.ac.za">smaree@zoology.up.ac.za</a></td>
</tr>
<tr>
<td>4:15</td>
<td>Evolution of chicken repeat 1 (CR1) elements in penguin genomes</td>
<td>Maiko Watanabe, Masato Nkaido, Tomi T. Tsuda, Koichi Murata, Takamori Kobayashi, David Mindell. Tokyo Inst. Technology, Yokohama, Japan. <a href="mailto:mwatanab@bio.titech.ac.jp">mwatanab@bio.titech.ac.jp</a></td>
</tr>
<tr>
<td>4:30</td>
<td>DNA barcoding of North America's Lepidoptera: The story of 5000</td>
<td>Jeremy R. deWaard, Natalia V. Ivanova, Janet C. Topyan, Jean-Francois Landry, Paul D.N. Hebert. Biodiversity Inst. Ontario, Univ. Guelph, Guelph, ON N1G 2W1. <a href="mailto:jdewaard@uoguelph.ca">jdewaard@uoguelph.ca</a></td>
</tr>
<tr>
<td>4:45</td>
<td>New insight into the phylogeny of Mantodea</td>
<td>Gavin Svenson, Michael F. Whiting. Dept. Integrative Biology, Brigham Young Univ., Provo, UT, 84602. <a href="mailto:svenson@byu.edu">svenson@byu.edu</a></td>
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**Saturdays 3:30 – 5:00 Speciation**

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>3:30</td>
<td>A continuum or reproductive isolation in D. bipectinata</td>
<td>Artyom Kopp, Amanda K. Frank, Chen-Siang Ng. Division of Biological Sciences, UCSD, La Jolla, CA 92093-0116. <a href="mailto:akopp@ucsd.edu">akopp@ucsd.edu</a></td>
</tr>
<tr>
<td>3:45</td>
<td>Species-wide variation in a two-locus hybrid sterility system in Minimus</td>
<td>Andrea L. Sweigart, John H. Willis. Duke Univ., Biology Dept., Box 90338, Durham, NC 27708. <a href="mailto:als21@duke.edu">als21@duke.edu</a></td>
</tr>
<tr>
<td>4:00</td>
<td>Chromosomal inversions and reproductive isolation in the Drosophila pseudoobscura group</td>
<td>Mohamed A. F. Noor, Audrey S. Chang. Biology Dept., Duke Univ., Durham, NC 27708. <a href="mailto:NOOR@DUKE.EDU">NOOR@DUKE.EDU</a></td>
</tr>
<tr>
<td>4:15</td>
<td>Reproductive isolation and speciation in tropical sea urchins</td>
<td>Laura B. Geyer, Harilaos Lessios, Stephen R. Palambi. Smithsonian Tropical Research Inst., Apartado 2072 Balboa Ancon, Republica de Panama. <a href="mailto:geyerl@si.edu">geyerl@si.edu</a></td>
</tr>
<tr>
<td>4:30</td>
<td>Niche models and speciation mechanisms; examples from anurans</td>
<td>Guinevere O. U. Wogan. Univ. California, Berkeley. <a href="mailto:gwogan@berkeley.edu">gwogan@berkeley.edu</a></td>
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* student presenter
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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>4:45</td>
<td>Relative abundance and the reinforcement of male mating preference in a beetle hybrid zone</td>
<td>Merrill A. Peterson, B. Honchak, S. Locke, T. Beeman, J. Mendoza, J. Green, K. Buckingham, M.A. White, K. Mølser. Biology Dept., Western Washington Univ., Bellingham, WA 98225. <a href="mailto:peterson@biol.wwu.edu">peterson@biol.wwu.edu</a></td>
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<tr>
<td>SATURDAY 3:30 – 5:00 Inbreeding</td>
<td><strong>Gruening 208</strong></td>
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<tr>
<td>3:30</td>
<td>From inbreeding to inbreeding depression: A genomic perspective</td>
<td>Julien Ayroles, Kim Hughes, Kevin Rowe, Sandra Rodriguez, Carla Caceres, Ken Paige. School of Integrative Biology, Univ. Illinois, 505 South Goodwin, Urbana, IL 61801. <a href="mailto:ayroles@uiuc.edu">ayroles@uiuc.edu</a></td>
</tr>
<tr>
<td>3:45</td>
<td>The effects of inbreeding and outbreeding in an annual kelp</td>
<td>Catherine A. Pfister, J. Timothy Wootton, Handejo Kusumo, Richard Hudson. Dept. Ecology and Evolution, Univ. Chicago, Chicago IL 60637. <a href="mailto:cpfister@uchicago.edu">cpfister@uchicago.edu</a></td>
</tr>
<tr>
<td>4:00</td>
<td>Persistent effects of inbreeding in <em>Echinacea angustifolia</em>: Life history and herbivory</td>
<td>Helen H. Hangelbroek, Stuart Wagenius, Ruth G. Shaw. Dept. Ecology, Evolution, and Behavior, Univ. Minnesota, 1987 Upper Buford Circle, St Paul, MN 55108, USA. <a href="mailto:hangee01@umn.edu">hangee01@umn.edu</a></td>
</tr>
<tr>
<td>4:15</td>
<td>Evolution of self-compatibility increases local drift load in an endemic plant (<em>Leavenworthia alabamica</em>)</td>
<td>* Jeremiah W. Busch. Dept. Biology, Indiana Univ., Bloomington, IN 47405. <a href="mailto:jbusch@bio.indiana.edu">jbusch@bio.indiana.edu</a></td>
</tr>
<tr>
<td>4:30</td>
<td>Inbreeding depression variance in structured populations</td>
<td>Jacob A. Moorad. Dept. Biology, Indiana Univ., Bloomington, IN 47405. <a href="mailto:jmoorad@indiana.edu">jmoorad@indiana.edu</a></td>
</tr>
<tr>
<td>4:45</td>
<td>Links between inbreeding depression and outbreeding depression: A phylogenetic perspective in 14 populations in the <em>Mimulus moschatus</em> species alliance</td>
<td>Matthew L. Carlson. Univ. Alaska Anchorage - Alaska Natural Heritage Program. <a href="mailto:afmlc2@uaa.alaska.edu">afmlc2@uaa.alaska.edu</a></td>
</tr>
<tr>
<td>SATURDAY 3:30 – 5:15 Bioinformatics/phyloinformatics</td>
<td><strong>Gruening 306</strong></td>
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<tr>
<td>3:30</td>
<td>A new one-sample estimator of effective population size based on approximate Bayesian computation</td>
<td>David A. Tallmon, Mark A. Beaumont, Gordon H. Luikart. Biology Program, Univ. Alaska Southeast, Juneau, AK 99801. <a href="mailto:david.tallmon@uas.alaska.edu">david.tallmon@uas.alaska.edu</a></td>
</tr>
<tr>
<td>3:45</td>
<td>Kicking off the National Evolutionary Synthesis Center</td>
<td>Cliff W Cunningham. National Evolutionary Synthesis Center. <a href="mailto:cliff@duke.edu">cliff@duke.edu</a></td>
</tr>
<tr>
<td>4:00</td>
<td>Assessing the accuracy of methods used for detecting adaptive evolution</td>
<td>* Jennifer Commins, James O. McInerney. Bioinformatics Laboratory, National Univ. Ireland Maynooth, Maynooth, Co. Kildare, Ireland. <a href="mailto:jennifer.commins@nuim.ie">jennifer.commins@nuim.ie</a></td>
</tr>
<tr>
<td>4:15</td>
<td>Google, Yahoo, and the end of taxonomy</td>
<td>Roderic D. M. Page. DEEB, IBLS, Univ. Glasgow. <a href="mailto:r.page@bio.gla.ac.uk">r.page@bio.gla.ac.uk</a></td>
</tr>
</tbody>
</table>

* student presenter
4:30  Multiple alignment can bias evolutionary distance estimation

Michael S. Rosenberg. Evolutionary Functional Genomics, Biodesign Inst., and School of Life Sciences, Arizona St. Univ., Tempe AZ 95287-4501. msr@asu.edu

4:45  Automated phylogenetic taxonomy: An example in the mushroom-forming fungi

David S. Hibbett. Biology Dept., Clark Univ., Worcester MA 01610. dhibbett@black.clarku.edu

5:00  Incorporating gene-specific variation when inferring and evaluating tree topologies from multilocus sequence data.

Tae-Kun Seo, Hirohisa Kishino, Jeffrey L. Thorne. Professional Programme for Agricultural Bioinformatics, Univ. Tokyo, Japan. seo@iu.a.u-tokyo.ac.jp

* student presenter
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00</td>
<td>The influence of habitat isolation and dispersal strategy on the genetic diversity of two insect species</td>
<td>J. Gwen Shlichta, David Hawthorne, Robert Denno, Barbara Thorne. Behavior, Ecology, Evolution and Systematics Program, Dept. Entomology, Univ. Maryland, College Park, MD 20742. <a href="mailto:bugheart@umd.edu">bugheart@umd.edu</a></td>
</tr>
<tr>
<td>8:15</td>
<td>X-linked fitness variation maintained by overdominant selection in <em>Drosophila</em></td>
<td>Tim Connallon, L. Lacey Knowles. Dept. Ecology and Evolutionary Biology, Univ. Michigan 48109. <a href="mailto:tconnal@umich.edu">tconnal@umich.edu</a></td>
</tr>
<tr>
<td>8:30</td>
<td>Genetic differentiation between the behavioural races of <em>Drosophila melanogaster</em></td>
<td>Joshua Shapiro, Naoki Osada, Hurng-Yi Wang, Chung-I Wu. Dept. Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. <a href="mailto:hwang@uchicago.edu">hwang@uchicago.edu</a></td>
</tr>
<tr>
<td>8:45</td>
<td>Inferring combined effects of population history and positive selection on genetic variation in <em>Drosophila melanogaster</em></td>
<td>John E. Pool, V. B. DuMont, J. L. Mueller, C. F. Aquadro. Dept. Molecular Biology and Genetics, Cornell Univ., Ithaca, New York, 14853, USA. <a href="mailto:jep36@cornell.edu">jep36@cornell.edu</a></td>
</tr>
<tr>
<td>9:00</td>
<td>Clinical analysis of candidate genes in a thermal QTL of <em>Drosophila melanogaster</em></td>
<td>David M. Rand, Colin Meiklejohn, George Gilchrist. Dept. Ecology and Evolution, Brown Univ., Providence, RI 02912. <a href="mailto:David_Rand@brown.edu">David_Rand@brown.edu</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Nucleotide variability on the X chromosome in natural populations of house mice</td>
<td>Tovah Salcedo, Michael W. Nachman. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. <a href="mailto:tovahs@email.arizona.edu">tovahs@email.arizona.edu</a></td>
</tr>
<tr>
<td>9:30</td>
<td>Molecular population genetics of X-linked reproductive genes in <em>Mus</em></td>
<td>Jeffrey M. Good, Michael W. Nachman. Dept. Ecol. and Evol. Biology, Univ. Arizona, Tucson, AZ 85721. <a href="mailto:jgood@email.arizona.edu">jgood@email.arizona.edu</a></td>
</tr>
<tr>
<td>9:45</td>
<td>Reproductive protein evolution within a species: ZP3 sequence variation in <em>Peromyscus truei</em></td>
<td>Leslie M. Turner, Hopi E. Hoekstra. Univ. California San Diego, 9500 Gilman Drive MC0116, La Jolla, CA 92039. <a href="mailto:ltuner@biomail.ucsd.edu">ltuner@biomail.ucsd.edu</a></td>
</tr>
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* student presenter
9:15  Selfing in the intertidal sea anemone *Aulactinia incubans*  
Tamara M. McGovern. Dauphin Island Sea Labs, 101 Bienville Blvd., Dauphin Island, AL 36528. tmcgovern@disl.org

9:30  Assortative mating in a bimodal population of Darwin's finches  
* Sarah K. Huber, Jeffrey Podos. Organismic and Evolutionary Biology, 319 Morrill Science Center, Univ. Massachusetts, Amherst, MA 01003. shuber@bio.umass.edu

9:45  The evolution of sex determination in ray-finned fishes, and the role of sex chromosomes in sexual selection  
* Judith E. Mank, John C. Avise. Dept. Genetics, Univ. Georgia, Life Sciences Building, Athens, GA 30602. jemank@uga.edu

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**SUNDAY 8:00 – 10:00 Phylogenetic theory and methods**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Bayesian concordance analysis and the quantification of reticulate evolution</td>
<td>David Baum, Bret Larget, Cecile Ané, Antonis Rokas, Stacey Dewitt Smith. Dept. Botany, Univ. Wisconsin, Madison, WI 53706. <a href="mailto:dbaum@wisc.edu">dbaum@wisc.edu</a></td>
</tr>
<tr>
<td>8:15</td>
<td>Assessing confidence in supertrees and supermatrices</td>
<td>Amy Driskell, Gordon Burleigh, Mike Sanderson. Section of Evolution and Ecology, Univ. California, Davis, CA 95616. <a href="mailto:acdriskell@ucdavis.edu">acdriskell@ucdavis.edu</a></td>
</tr>
<tr>
<td>8:30</td>
<td>DNA Assembly with Gaps (DAWG): Simulating sequence evolution</td>
<td>Reed A. Cartwright. Dept. Genetics, Univ. Georgia, Athens, GA 30602. <a href="mailto:rac@uga.edu">rac@uga.edu</a></td>
</tr>
<tr>
<td>8:45</td>
<td>Identifiability of tree topology for covarion and other models</td>
<td>John A. Rhodes, Elizabeth S. Allman. Dept. Mathematics, Bates College, Lewiston, ME 04240. <a href="mailto:jrhodes@bates.edu">jrhodes@bates.edu</a></td>
</tr>
<tr>
<td>9:00</td>
<td>Testing for different rates of continuous trait evolution in different groups using likelihood</td>
<td>Brian C. O'Meara, Cecile M. Ané, Michael J. Sanderson, Peter C. Wainwright. Center for Population Biology, Univ. California, Davis. <a href="mailto:bcmeara@ucdavis.edu">bcmeara@ucdavis.edu</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Assessing current adaptation and phylogenetic inertia as explanations of trait evolution: The need for controlled comparisons</td>
<td>Steven Orzack, Thomas F. Hansen. Fresh Pond Research Inst., 173 Harvey Street, Cambridge, MA 02140. <a href="mailto:orzack@freshpond.org">orzack@freshpond.org</a></td>
</tr>
<tr>
<td>9:45</td>
<td>Efficient phylogenetic inference using complex substitution models</td>
<td>Ligia Mateiu, Bruce Rannala. Dept. Medical Genetics, Univ. Alberta Edmonton, Alberta T6G 2H7. <a href="mailto:lmateiu@ualberta.ca">lmateiu@ualberta.ca</a></td>
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</table>

* student presenter
SUNDAY 8:00 – 10:00 Speciation

8:00  Species richness, phylogeny and the mid-domain effect
T. Jonathan Davies, Richard Grenyer, John L. Gittleman. Dept. Biology, Univ. Virginia. jldavies@virginia.edu

8:15  Cladogenesis and range expansion explain latitudinal variation in taxonomic richness
* Paul R. Martin, Frances Bonier, Joshua J. Tewksbury. Dept. Biology, Univ. Washington, Seattle, WA 98195-1800. hellmayr@u.washington.edu

8:30  The expression basis of Haldane's rule
Xue-Mei Lu, Joshua Shapiro, Chau-Ti Ting, Chung-I Wu. Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. xuemeil@uchicago.edu

8:45  Divergence and reticulation in the Australian Wet Tropics suture zone
Craig Moritz, Conrad Hoskin, Maria Tonioni, Jason MacKenzie, Gaynor Dolman. MVZ, UC Berkeley, Berkeley, CA 94720. craigm@berkeley.edu

9:00  Geographic variation of pea aphids on alfalfa and clover in the US
* Joan A. West, Sara Via, David Hawthorne. Univ. Maryland. joanwest@wam.umd.edu

9:15  Pollinator-driven plant speciation for southern African biodiversity hotspots
Vincent Savolainen, Peter Goldblatt, Timothy G. Barraclough. Jodrell Laboratory, Royal Botanic Gardens, Kew, TW9 3DS London UK. v.savolainen@kew.org

9:30  Speciation genetics and molecular evolution among sunflower (Helianthus) species
Sheri Church, Sophie Karrenberg, Loren Rieseberg. Dept. Biological Sciences, George Washington Univ., 2023 G St., Washington, DC 20052. schurch@gwu.edu

9:45  Floral diversification and comparative pollination biology in the Andean clade Tochrominae (Solanaceae)
* Stacey DeWitt Smith, David A. Baum. Dept. Botany, Univ. Wisconsin, Madison, WI 53706. sdsmith4@wisc.edu

SUNDAY 8:00 – 10:00 Behavior/social evolution

8:00  Games among cannibals: Competition among offspring increases tendency to eat siblings
* Jennifer C. Perry, Bernard D. Roitberg. Dept. Zoology, Univ. Toronto. jpperry@zoo.utoronto.ca

8:15  Evolution and behavioral syndromes (aka 'animal personalities')
Andrew Sih, Alison M. Bell, J. Chad Johnson, Jason V. Watters. Dept. Environmental Science and Policy, Univ. California at Davis, Davis, CA 95616. asih@ucdavis.edu

8:30  A game theory model of conspecific brood parasitism with parasitism-defense trade-off
Emily M ullersman, Jennifer Whittington, Lev Yampolsky. Dept. Biological Sciences, East Tennessee State Univ., Johnson City TN 37614. yampolsk@etsu.edu

8:45  Parentage, kinship, and group structure in the white-throated magpie-jay, a cooperative breeder with female helpers
Elena C. Berg. Center for Tropical Research, Inst. the Environment, Univ. California, Los Angeles, CA 90095-1496. eeb13@ucla.edu

* student presenter

40
9:00  Determinants of co-evolution between male signals and female response in field crickets

Luke Verburgt, J. Willem H. Ferguson. Centre for Environmental Studies, Univ. Pretoria, 0002 Pretoria, South Africa. jwferguson@zoology.up.ac.za

9:15  Sex allocation in response to female condition in the Zebra Finch

Valerie S. Foster, Nancy Tyler Burley. 321 Steinhaus Hall, Irvine, CA 92697-2525. vfoster@uci.edu

9:30  The evolution of altruism: Game theory in multilevel selection and inclusive fitness

Jeffrey A. Fletcher, Martin Zwick. Dept. Zoology, Univ. British Columbia. fletcher@zoology.ubc.ca

9:45  Genetic basis for divergence of courtship display in stickleback

Jun Kitano, Seichi Mori, Catherine L. Peichel. Fred Hutchinson Cancer Research Center. jkitano@fhcrc.org

SUNDAY 8:00 – 10:00 Arctic and Alpine

8:00  Temporal and spatial population genetics of Canadian Peregrine Falcons, Falco peregrinus

* Joseph W. Brown, Tim P. Birt, Peter J. van Coeverden de Groot, Gilles Seutin, Peter T. Boag, Vicki L. Friesen. Dept. Biology, Queen’s Univ., Kingston, Ontario K7L 3N6. josephwb@umich.edu

8:15  Cryptic diversity in the North: Diversification and biogeography of a Holarctic tapeworm species complex

* Kurt E. Galbreath. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca, NY 14853. keg34@cornell.edu

8:30  Is polyploidy an instantaneous speciation mechanism?

* Holly A. Sabara, Brian C. Husband. Dept. Integrative Biology, Univ. Guelph. sholly@uoguelph.ca

8:45  Adaptive variation in the deer mouse across a 10,000 ft elevation gradient

* Eben J. Gering, Steven Sabotino, Stefanie Grotkin, Jay F. Storz. Dept. Biology, Univ. Nebraska. eben@sfsu.edu

9:00  Evolution of thermoregulatory characters of Colias meadii butterflies in response to global warming

* Jeannie A. Stumberger, Ward B. Watt. Dept. Biological Sciences, Stanford Univ., Stanford, CA 94305-5020. jeans@stanford.edu

9:15  Murres of a feather nest together: Morphological and kin clusters in an arctic seabird

* Gabriela Ibarguchi, Anthony J. Gaston, Peter T. Boag, Vicki L. Friesen. Dept. Biology, Queen’s Univ., Kingston, ON, K7L 3N6. gibarguchi@biology.ca

9:30  Exploring the population history of gray whales using multi-locus genetic data

* S. Elizabeth Alter, Stephen R. Palumbi. Hopkins Marine Station, Stanford Univ., Pacific Grove, CA 93950. sealter@stanford.edu

9:45  Genomic variation in an isolated sub-arctic island population, the Newfoundland caribou

* Corinne D. Wilkerson, Steven M. Carr. Memorial Univ. Newfoundland, Dept. Biology, St. John’s, NL A1B 3X9. r34cdw@mun.ca

* student presenter
SUNDAY LATE MORNING, JUNE 12

SUNDAY 10:30 – 12:00 Population genetics

10:30 Dispersal and demographics of two California abalone species

10:45 Ecological barriers to gene flow in the Hawaiian spinner dolphin

11:00 Population genetics of North American caribou

11:15 The impact of anthropogenic activity on the genetic structure of the alpine mountain pygmy-possum, *Burrumys parvus*

11:30 High-latitude speciation: Population genetics of Snow and McKay's Buntings

11:45 Population structure of Common Eiders

CONCURRENT SESSIONS

Schaible Auditorium

* Kristen M. Gruenthal, Lauren K. Acheson, Ronald S. Burton. Scripps Institution of Oceanography, Univ. California San Diego, La Jolla, CA 92093-0202. kgruenth@ucsd.edu

* Kimberly R. Andrews, Leszek Karczmarski. 2538 The Mail Zoology Dept, Univ. Hawaii, Honolulu, HI 96822. kimandrews@gmail.com

* Matthew Cronin, Michael MacNeil, John C. Patton. School of Natural Resources and Agricultural Sciences, Univ. Alaska Fairbanks, Palmer Res. Ctr, Palmer, AK. croninnm@aol.com

* Paul Mitrovski, Dean Heinze, Linda Broome, Andrew Weeks, Ary Hoffmann. Centre for Environmental Stress and Adaptation Research, Univ. Melbourne, Melbourne, 3010. p.mitrovski@pgrad.unimelb.edu.au

* James M. Maley, Kevin Winkler. Univ. Alaska Museum, 907 Yukon Dr, Fairbanks, AK 99775. fsjmml1@uaf.edu


SUNDAY 10:30 – 12:00 Plant mating systems

10:30 Darwinian selection on a selfing locus in *Arabidopsis*

10:45 Specialized bird perch promotes mating success

11:00 Correlated evolution of floral and mating-system traits in *Collinsia* (Scrophulariaceae, s.l)

11:15 Mating system variation in *Pinus sylvestris* L. populations of contrasting size: An empirical and modeling approach

Gruening 208


W. Scott Armbruster, Johanne Maad, Bruce G. Baldwin, Susan Kalisz. Inst. Arctic Biology, Univ. Alaska, Fairbanks, AK 99775. fwwsa@uaf.edu

Juan J. Robledo-Arnuncio, Ricardo Alia, Luis Gil. ETSI de Montes, Univ. Politecnica de Madrid, 28040 Madrid, Spain. jrobledo@runbox.com

* student presenter
11:30  Self-fertilization and the escape from pollinator limitation
       Martin T. Morgan, William G. Wilson, Tiffany M. Knight. School of Biological Sciences, Washington State Univ., Pullman, WA 99164-4236. mmorgan@wsu.edu

11:45  Ploidy, gender, and self-incompatibility in *Lycium californicum* (Solanaceae)
       Joshua R. Kohn, Kai Yeung, Boris Ijigic, Anna Savage, Brian Husband, Jill Miller. Univ. California San Diego, La Jolla, CA 92039. jkohn@ucsd.edu

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<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Presenter(s)</th>
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<tr>
<td>10:30</td>
<td>Homology and consistency in the gene content tree of life</td>
<td>Wood Center Ballroom</td>
<td>* E Kurt Lienau, Rob DeSalle, Jeffrey Rosenfeld, Paul J Planet. Dept. Invertebrate Zoology, AMNH, 79th Street and Central Park West, New York, NY 10024. <a href="mailto:ekl@amnh.org">ekl@amnh.org</a></td>
</tr>
<tr>
<td>10:45</td>
<td>The partition homogeneity test is still useful</td>
<td>Wood Center Ballroom</td>
<td>Kevin P. Johnson, Jason D. Weckstein. Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. <a href="mailto:kjohnson@inhs.uiuc.edu">kjohnson@inhs.uiuc.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Identification of new nuclear DNA markers for phylogenetic reconstruction in angiosperms</td>
<td>Wood Center Ballroom</td>
<td>* Ruth Timme, Anneke Padolina, Weijia Xu, Willard Briggs, Rui Mao, Kai Yan, Danial P. Miranker, Randy Linder. Univ. Texas Austin. <a href="mailto:retimme@mail.utexas.edu">retimme@mail.utexas.edu</a></td>
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<tr>
<td>11:15</td>
<td>A molecular timescale of Old World Murine biogeography</td>
<td>Wood Center Ballroom</td>
<td>Ronald M. Adkins, Scott J. Steppan. Univ. Tennessee Health Science Center, Memphis, TN 38103. <a href="mailto:radkins1@utmem.edu">radkins1@utmem.edu</a></td>
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<tr>
<td>11:30</td>
<td>Sixty-five (new) nuclear protein-coding genes for metazoan phylogeny</td>
<td>Wood Center Ballroom</td>
<td>Bernard Ball, Clifford W. Cunningham. Duke Univ.,Dept. Biology, Durham, NC 27708. <a href="mailto:bernie.ball@duke.edu">bernie.ball@duke.edu</a></td>
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<tr>
<td>11:45</td>
<td>Combining multiple introns to test mtDNA trees and reconstruct sexual dichromatism in Orioles (<em>Icterus</em>)</td>
<td>Wood Center Ballroom</td>
<td>Kevin E. Omland. UMBC - Univ. Maryland, Baltimore, MD 21250. <a href="mailto:omland@umbc.edu">omland@umbc.edu</a></td>
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<tr>
<td>10:30</td>
<td>The Maynard Smith model of sympatric speciation</td>
<td>Lee H. Salisbury Theatre</td>
<td>Sergey Gavrilets. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville TN 37996. <a href="mailto:gavrila@math.utm.edu">gavrila@math.utm.edu</a></td>
</tr>
<tr>
<td>10:45</td>
<td>Reinforcement and the genetics of hybrid incompatibilities</td>
<td>Lee H. Salisbury Theatre</td>
<td>* Alan R. Lemmon, Mark Kirkpatrick. 1 Univ. Station #C0930, Univ. Texas, Austin, TX 78712. <a href="mailto:alemmon@evotutor.org">alemmon@evotutor.org</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Rapid evolutionary radiation of marine zooplankton in peripatry</td>
<td>Lee H. Salisbury Theatre</td>
<td>Michael N Dawson. Evolution and Ecology, Univ. California, Davis, CA 95616. <a href="mailto:mndawson@ucdavis.edu">mndawson@ucdavis.edu</a></td>
</tr>
<tr>
<td>11:15</td>
<td>The origin of genetic variation for domestication: The example from rice</td>
<td>Lee H. Salisbury Theatre</td>
<td>Suhua Shi, Tian Tang, Jianzi Huang, Jian Lu, Jinghong He, Chung-L Wu. Univ. New South Wales. <a href="mailto:lssssh@zsu.edu.cn">lssssh@zsu.edu.cn</a></td>
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* student presenter
11:30 A method for detecting genealogical divergence with applications to the species problem

Michael P. Cummings, Maile C. Neal, Kerry L. Shaw. Dept. Biology, Univ. Maryland, College Park, MD 20742. kerrylash@umd.edu

11:45 Molecular phylogenetic reconstruction of a remarkable neotropical species radiation: Cephaloleia beetles on gingers

* Duane D. McKenna, Brian D. Farrell. Harvard Univ. Dept. Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138. dmckenna@oeb.harvard.edu

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SUNDAY 10:30 – 12:00 Behavior/social evolution

10:30 Cooperative breeding and genetic chimerism in Callitrichids

* Corinna N. Ross, Guillermo Orti, Jeffrey A. French. Biological Sciences, Univ. Nebraska, Lincoln, NE 68588. cross@bigred.unl.edu

10:45 Foraging behaviors of planktonic predators in patchy prey distributions

Susanne Menden-Deuer. Shannon Point Marine Center, Western Washington Univ., Anacortes, WA 98221. mendens@wwu.edu

11:00 Causes and consequences of behavioral syndromes in sticklebacks

Alison M Bell. Environmental and Evolutionary Biology, Univ. Glasgow, Glasgow, UK G12 8QQ. alison.bell@bio.gla.ac.uk

11:15 Direct and indirect genetic effects on mass, caste, and sex in ants

* Timothy A. Linksvayer. Dept. Biology, Indiana Univ., Bloomington, IN 47405. tlinksva@bio.indiana.edu

11:30 Patterns of courtship song evolution in the Drosophila saltans species group

Jennifer M. Gleason. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. jgleason@ku.edu

11:45 Masking interference and the evolution of the acoustic communication system of the Amazonian frog Epipedobates femoralis

Adolfo Amézquita, Lina Castellanos, Albertina Lima, Luciana Erdtmann, Maria C. da Araújo, Claudia Keller, Walter Hoedl. Dept. Biological Sciences, Univ. Los Andes, AA 4976, Bogota, Colombia. aamezqui@uniandes.edu.co

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SUNDAY 10:30 – 12:00 Arctic and Alpine

10:30 Freeze/thaw/growth experimental evolution in E. coli

* Sean C. Sleight, Richard E. Lenski. Dept. Microbiology and Molecular Genetics, Michigan State Univ., East Lansing, MI 48823. sleight3@msu.edu

10:45 Additive genetic variation of secondary and primary metabolites in mountain birch

* Sanna Haviola, Irma Saloniemi, Vladimir Ossipov, Erkki Hautkoja. Section of Ecology, Dept. Biology, Univ. Turku, FIN-20014 Turku, Finland. saklaak@utu.fi

11:00
11:15
11:30
11:45

* student presenter
SUNDAY 1:30 – 3:00 Population genetics

1:30 Salmon, seedbanks, and sleeping genes
Robin S. Waples. Northwest Fisheries Science Center, Seattle, WA 98112. robin.waples@noaa.gov

1:45 Incongruence of genetic and morphological variation in the Gila robusta species complex (Teleostei, Cyprinidae), Bill Williams and Gila rivers, Arizona
Michael R. Schwemm, Thomas E. Dowling. School of Life Sciences, Arizona State Univ., Tempe, AZ 85287. mike.schwemm@asu.edu

2:00 Use of morphology and neutral markers to infer relative roles of selection, history, and gene flow on evolutionary diversification: A test using stickleback
Erika Crispo, Jean-Sébastien Moore, Andrew P. Hendry. McGill Univ., Redpath Museum, Montréal, Québec, H3A 2K6, Canada. erika.crispo@mail.mcgill.ca

2:15 Effects of local extinction and recolonization on temporal and spatial population-genetic structure of fish
Joel Trexler, Douglas Creer, Thomas McElroy. Dept. Biological Science, Florida International Univ., Miami, FL 33199. trexlerj@fiu.edu

2:30 Tracking Gag groupers with genetic fingerprints: Patterns of dispersal and variance in reproductive success
Nathaniel K Jue. Dept. Biological Science, Florida State Univ., Tallahassee, FL 32306. jue@bio.fsu.edu

2:45 Biogeography and speciation of southwestern Australian frogs
Danielle L. Edwards. School of Animal Biology, Univ. Western Australia, Crawley, WA 6009. dan@cyllene.uwa.edu.au

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SUNDAY 1:30 – 3:00 Plant mating systems

1:30 Gynodioecy in wild beet: How to maintain non-sterile cytotypes in populations?

1:45 Masking deleterious mutations in diploid pollen: A potential mechanism for tetraploid siring success in fireweed
Brian C. Husband, Paul Kron, Brad Kennedy. Dept. Integrative Biology, Univ. Guelph, Guelph, ON N1G 2W1. bhusband@guelph.ca

2:00 Inbreeding depression contributes to the maintenance of female plants in a gynodioecious species, Geranium maculatum
Shu-Mei Chang. Dept. Plant Biology, Univ. Georgia, Athens, GA 30602. chang@plantbio.uga.edu

2:15 Why does geitonogamous selfing vary markedly among flowers?
Jeffrey D. Karron, Karsten G. Holmquist, Randall J. Mitchell. Dept. Biological Sciences, Univ. Wisconsin - Milwaukee, Milwaukee, WI 53201. karron@uwm.edu

2:30 Stress and the female advantage in gynodioecious plants
Camille M. Barr. Dept. Biology, Univ. Virginia, Charlottesville, VA 22903. cbarr@virginia.edu

2:45 Evolution of heterostylosous reproductive systems in the Sky Islands of the Sonoran Desert
Stephen G. Weller, Cesar A. Dominguez, Francisco Molina-Francet, Juan Fornoni, Gretchen LeBuhn. Dept. Ecology and Evolutionary Biology, Univ. California, Irvine, CA 92697. sgweller@uci.edu

* student presenter
SUNDAY 1:30 – 3:00 Systematics

1:30 Molecular systematics and phylogenetic hypothesis testing in the Great Copper Butterfly species complex

1:45 Molecular systematics and biogeography of the Neotropical Scorpion *Tityus*

2:00 The geography of repeated rapid radiations in both New and Old World clades of mice and rats

2:15 A chloroplast genealogy reveals reasons for the far reaching inconsistencies in chloroplast phylogenies of *Hordeum*

2:30 Evolutionary relationships of *Dubautia* sect. *Raillardiia* (Asteraceae) inferred from multiple low copy nuclear genes

2:45 Relationships in the n=7 Loeseliceae (Polemoniaceae) based on nuclear pistillata, ITS, and chloroplast trnL-F sequences

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SUNDAY 1:30 – 3:00 Speciation

1:30 Gene expression and the divergence of Hawaiian crickets

1:45 Genetics of sexual isolation in *Drosophila mojavensis*: QTL analysis

2:00 Interactions between conspecific gamete preference and reinforcement

2:15 Maintenance of species boundaries in Hawaiian picture-winged flies: Mating success of backcross males

2:30 Ecology consistently promotes speciation across diverse taxa

2:45 Evolution de novo: Genetic and morphological analysis of recent diversification of Galapagos land snails

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Wood Center Ballroom

* Jeffrey C. Oliver, Arthur M. Shapiro. Interdisciplinary Program in Insect Science, Univ. Arizona, Tucson, AZ 85721. jcoliver@email.arizona.edu

* Oris Sanjur, Adolfo Borges, Eldredge Berningham. STRI, Unit 0948 APO AA 34002-0948. sanjuro@si.edu

* Scott J. Steppan, Ronald M. Adkins, Jean H. Burns, Christopher Hale, Philip Q. Spinks, Chris Zawadzki. Dept. Biological Science, Florida State Univ., Tallahassee, FL 32306-1100. steppan@bio.fsu.edu

* Frank R. Blattner, Sabine S. Jakob. IPK Gatersleben, Corrensstr. 3, D-06466 Gatersleben, Germany. blattner@ipk-gatersleben.de

* Linda M. Prince, Elizabeth A. Friar, Jennifer M. Cruse-Sanders. Rancho Santa Ana Botanic Garden, Claremont, CA 91711. linda.prince@cgu.edu

* Terri L. Weese, Leigh A. Johnson. Dept. Biology, Univ. Utah. weese@biology.utah.edu

Lee H. Salisbury Theatre

* Patrick D. Danley, Kerry L. Shaw. Dept. Biology, Univ. Maryland, College Park MD 20742. pd90@umail.umd.edu

* William J. Eiges, Cassia Cardoso de Oliveira, Daniel Ortiz-Barrientos, Mohamed A. F. Noor. Univ. Arkansas. wetges@uark.edu

* Patrick D. Lorsh, Maria R Servedio. Biology Dept., Univ. North Carolina. plorsch@email.unc.edu

* Steve Souder, Tatianne Varys, Donald Price. Dept. Biology, Univ. Hawaii Hilo, Hilo, HI 96720. souder@hawaii.edu

* Daniel J. Funk, Patrik Nosil, William Eiges. Dept. Biological Sciences, Vanderbilt Univ., Nashville, TN 37235. daniel.j.funk@vanderbilt.edu

* Christine Parent, Deborah K. Austin, Bernard J. Crespi. Dept. Biological Sciences, Simon Fraser Univ., Burnaby, Canada. cparent@sfu.ca

* student presenter
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<tr>
<td>1:30</td>
<td>Testing causal models for the evolution of dioecy in <em>Echinocereus coccineus</em> (<em>Cactaceae</em>) using GIS and SEM</td>
<td>Summer A. Seobell, Stewart Schultz, Ted Fleming. 252D Cox Science Center, Univ. Miami, Coral Gables, FL 33124. <a href="mailto:sseobell@fig.cox.miami.edu">sseobell@fig.cox.miami.edu</a></td>
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<td>1:45</td>
<td>X chromosome behavior in asexual aphids</td>
<td>Alex C. C. Wilson, Christoph Vorburger, Monica Villar, Nancy Moran. Center for Population Biology and Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ. <a href="mailto:acwilson@email.arizona.edu">acwilson@email.arizona.edu</a></td>
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<tr>
<td>2:00</td>
<td>Evolutionary traction: The cost of adaptation and the maintenance of sexual reproduction</td>
<td>* Lilach Hadany, Marcus W. Feldman. Dept. Biological Sciences, Stanford Univ., Stanford, CA 94305. <a href="mailto:lilach@charles.stanford.edu">lilach@charles.stanford.edu</a></td>
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<tr>
<td>2:15</td>
<td>The role of pleiotropy in the maintenance of sex in yeast</td>
<td>* Jessica A. Hill, Sarah P. Otto. Dept. Zoology, UBC, Vancouver, BC V6T 1Z4. <a href="mailto:hill@zoology.ubc.ca">hill@zoology.ubc.ca</a></td>
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<td>2:30</td>
<td>Frequency-dependent selection maintains clonal diversity in an asexual mite species</td>
<td>Andrew R. Weeks, Ary A. Hoffman. CESAR, Dept. Genetics, The Univ. Melbourne, Melbourne, Victoria 3010, Australia. <a href="mailto:aweeks@unimelb.edu.au">aweeks@unimelb.edu.au</a></td>
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<tr>
<td>2:45</td>
<td>Geographic patterns of sequence variation in sexual and asexual lineages of a freshwater snail</td>
<td>Steven Johnson. Dept. Biological Sciences, Univ. New Orleans, New Orleans, LA, 70148. <a href="mailto:sjohnson@uno.edu">sjohnson@uno.edu</a></td>
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<tr>
<td>1:30</td>
<td>Incongruence between chloroplast and nuclear DNA in the phylogeny of <em>Rubus</em></td>
<td>* Thomas M. Dodson, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101 USA. <a href="mailto:dodson@wku.edu">dodson@wku.edu</a></td>
</tr>
<tr>
<td>1:45</td>
<td>A phylogeographic approach to taxonomy of <em>Mentha longifolia</em> (<em>Lamiaceae</em>)</td>
<td>* Kate L. Hertweck, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101. <a href="mailto:hertwkl@wku.edu">hertwkl@wku.edu</a></td>
</tr>
<tr>
<td>2:00</td>
<td>Systematic revision of the Cossulinae (Lepidoptera: Cossidae) of Costa Rica and the discovery of new Lepidopteran glands</td>
<td>Steve Davis, Patricia Gentili-Poole, Charles Mitter. Univ. Maryland, College Park, MD 20742. <a href="mailto:steved@wam.umd.edu">steved@wam.umd.edu</a></td>
</tr>
<tr>
<td>2:15</td>
<td>Molecular phylogenetics of armored scale insects (<em>Hemiptera: Diaspididae</em>): Utility of CAD</td>
<td>* Jeremy C. Andersen, Geoffrey E. Morse, Benjamin B. Normark. Division of Entomology, Univ. Mass., Amherst, MA 01003. <a href="mailto:janderse@student.umass.edu">janderse@student.umass.edu</a></td>
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<tr>
<td>2:30</td>
<td>What's in a name? Examining the subspecies designation of the Booby Cay Iguana, <em>Cyclura carinata bartschi</em></td>
<td>* Jason J. Bryan, Glenn Gerber, Mark Welch, Catherine L. Stephen. Dept. Biology, School of Science and Health, Utah Valley State College, Orem, UT 84058. <a href="mailto:hellbronco@hotmail.com">hellbronco@hotmail.com</a></td>
</tr>
<tr>
<td>2:45</td>
<td>Relative foraging ability as a measure of fitness in <em>Drosophila</em></td>
<td>* Tina M. Weier, Brian Hollis, David Houle. Florida State Univ., Tallahassee, FL. <a href="mailto:twieier@gmail.com">twieier@gmail.com</a></td>
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* student presenter
SUNDAY LATE AFTERNOON, JUNE 12

SUNDAY 3:30 – 5:00 Population genetics

3:30 Experimental demonstration of a role for epistasis in inbreeding depression in flour beetles, Tribolium castaneum
Jorge E. Lopez, Michael J. Wade. Biology Dept., Grand Valley State Univ. lopezjor@gvsu.edu

3:45 The effects of annual population size fluctuations on spatial genetic pattern in the African Wild Silk Moth
* Wayne Delport, J. Willem H. Ferguson, Paulette Bloomer. Molecular Ecology and Evolution Programme, Dept. Genetics, Univ. Pretoria, Pretoria, 0002, South Africa. wdelpor@postino.up.ac.za

4:00 Extended haplotypes of G6PDmediterranea and the evolutionary history of human resistance to malaria in Eurasia
Matthew A. Saunders, Montgomery Slatkin, Michael F. Hammer, Michael W. Nachman. Ecology and Evolution Dept., Univ. Chicago, Chicago, IL 60637. saunders@uchicago.edu

4:15 Geographic distance predicts genetic distance in human populations
* Sohini Ramachandran, Charles C. Roseman, Noah A. Rosenberg, Marcus W. Feldman, Luca Cavalli-Sforza. Dept. Biological Sciences, Stanford Univ., Stanford, CA 94305-5020. sohini@stanford.edu

4:30 Host switch leads to emergence of Plasmodium vivax malaria in humans
J. Mu, Deirdre A. Joy, J. Duan, Y. Huang, J. Carlton, J. Walker, J. Barnwell, P. Beerli, M.A. Charleston, O.G. Pybus, X-Z. Su. NIH / NIAID / Laboratory of Maratia and Vector Research, Rockville, MD 20850. djoy@niaid.nih.gov

4:45 Asymmetric male and female genetic histories in Native Americans from eastern North America
* Deborah A. Bolnick. Dept. Anthropology, Univ. Texas-Austin, Austin, TX 78712. deborah.bolnick@mail.utexas.edu

SUNDAY 3:30 – 5:00 Plant mating systems

3:30 A novel pollination mechanism of delayed reproductive assurance in Brassica napus
* Katrina E. Hayter, J.E. Cresswell. Univ. Exeter, Exeter, UK. k.e.hayter@ex.ac.uk

3:45 Evolution of male flowers in Solanum carolinense
* Mario Vallejo-Marín, Mark D. Rausher. Biology Dept., Box 90338 Duke Univ., Durham NC 27708. mv6@duke.edu

4:00 Mating system affects quantitative trait evolution in Mimulus guttatus (yellow monkeyflower)
* Liza M. Holeski, John K. Kelly. Ecology and Evolutionary Biology, Univ. Kansas, 1200 Sunnyside Avenue, Lawrence, KS 66045. holeski@ku.edu

4:15 Pollen limitation by mate scarcity in fragmented Echinacea populations: A genetic component of the Allee effect
Stuart Wagenius. Inst. Plant Conservation, Chicago Botanic Garden, Glencoe IL 60022. swagenius@chicagobotanic.org

* student presenter
SUNDAY 3:30 – 5:00 Systematics

4:30 Comparative reproductive biology of a rare and common arctic Primula species pair
Matthew L. Carlson. Univ. Alaska Anchorage - Alaska Natural Heritage Program. afmle2@uaf.edu

4:45

SUNDAY 3:30 – 5:00 Speciation

3:30 Adaptive radiation of gall midges within a single host plant: Nexus of genetic structure, speciation, and ecomorphology
Jeffrey B. Joy, Bernard J. Crespi. Dept. Biological Sciences, Simon Fraser Univ., Vancouver, B.C., V5A 1S6. jjoy@sfu.ca

3:45 Speciation by cultivar switching in fungus-growing ants
Anna Himler, Ulrich Mueller. Section of Integrative Biology, Univ. Texas Austin, 1 Station C0930, Austin, TX 78712. ahimler@mail.utexas.edu

4:00 How do Neodiprion sawflies speciate?
Catherine R. Linnen, Brian D. Farrell. Harvard Univ., Museum of Comparative Zoology, 26 Oxford Street, Cambridge, MA 02138. clinnen@oeb.harvard.edu

4:15 Phylogenetics and speciation in Lachnacea and Passerina (Thymelaeaceae) based on plastid and nuclear sequence data
Michelle van der Bank, Vincent Savolainen. Dept. Botany, Univ. Johannesburg, Kingsway Campus PO BOX 524, Auckland Park 2006, South Africa. mvdb@na.rau.ac.za

* student presenter
4:30 Timing and pattern of colonization in a radiation of Caribbean crickets (genus *Amphiacusta*)

* Elen O'Neal, Daniel Otte, L. Lacey Knowles. Dept. Ecology and Evolutionary Biology, Univ. Michigan, MI 48109. coneal@umich.edu

4:45 Selection for Dobzhansky-Muller incompatibilities: A novel mechanism for reinforcement?

* Maren Friesen. Population Biology Graduate Group, One Shields Ave., UC Davis, Davis CA 95616. mfriesen@ucdavis.edu

SUNDAY 3:30 – 5:00 Evolutionary theory

Gruening 306

3:30 Distributions of beneficial fitness effects in RNA

* Matthew C. Cowperthwaite, J. J. Bull, Lauren Ancel Meyers. Univ. Texas - Austin. mattecowp@mac.com

3:45 Postulate of an *Externally-Driven Irreversible Transferable Adaptation* (EDITA) mechanism as a second generator of evolutionary change

Frank H. Laukien. Univ. Amsterdam, Swammerdam Institute for Life Sciences, 1018 WV Amsterdam, Netherlands. frank.laukien@bruker.com

4:00 Intra-genomic conflict and the evolution of gene silencing

Paul Schlicker, John F. McDonald. Dept. Statistics, Univ. Georgia, Athens, GA 30606. pdschlie@stat.uga.edu

4:15 Population genetics of evolutionary capacitance

Joanna Masel. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson AZ 85721. masel@u.arizona.edu

4:30 The evolution of strategy variation: Will an ESS evolve?

Steven Orzack, Gord Hines. Fresh Pond Research Inst., 173 Harvey Street, Cambridge, MA 02140. orzack@freshpond.org

4:45 Hamilton's rule in reciprocal altruism and symbiosis

Jeffrey A. Fletcher, Martin Zwick. Dept. Zoology, Univ. British Columbia. fletcher@zoology.ubc.ca

SUNDAY 3:30 – 5:00 Education

Wood Center C & D

3:30 A phylogenetics workflow automation framework for education, public outreach, and professional research

Timothy M. McPhillips. Natural Diversity Discovery Project, 1163 Yarwood Ct., San Jose, CA 95128. tmcphillips@naturaldiversity.org

3:45 Teaching evolution in public high schools: Do state science standards matter?

James H. Bandoli. Dept. Biology, Univ. Southern Indiana, Evansville, IN 47712 USA. jhbandoli@usi.edu

4:00 A rigorous method for assessing critical thinking in biology: Why bother, how do we do it, and what do we gain?

Ahrash N. Bissell, Paula P. Lemons. Duke Univ. ahrashb@duke.edu

4:15

4:30

4:45

* student presenter
MONDAY 8:00 – 10:00 Phylogeography

8:00 Consequences of Paleoclimatic cycles on an Alpine plant-insect association
Eric G. DeChaine, Andrew P. Martin. Harvard Univ., Dept. OEB, Cambridge, MA 02138. dechaine@fas.harvard.edu

8:15 Phylogeography and call variation in an Amazonian frog
W. Chris Funk, David C. Cannatella, Michael J. Ryan, Kathryn E. Boul. Section of Integrative Biology, Univ. Texas, Austin, TX 78712. wcfunk@mail.utexas.edu

8:30 Multiple gene genealogies reveal sympatric cryptic species in the Amanita muscaria species complex
Jozef Geml, Gary A. Laursen, Harris C. Nusbaum, D. Lee Taylor. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. jgeml@iab.alaska.edu

8:45 Tests of phylogeographic and morphological concordance among Panamanian golden frog (Atelopus) populations
* Corinne L. Richards, L. Lacey Knowles. Univ. Michigan Museum of Zoology, Ann Arbor, MI 48109. clrchar@umich.edu

9:00 Haplotype diversity in Pilbarus milski, a widespread groundwater species of amphipod from the Pilbara, Western Australia
Terrie Finson, Mike Johnson, Bill Humphreys, Stefan Eberhard, Stuart Halse. School of Animal Biology, Univ. Western Australia, Crawley, W. A. 6009 Australia. tfinson@cyllene.uwa.edu.au

9:15 Invasion, extinction, and speciation in Mesoamerica
Eldredge Bermingham, Anabel Perdices, Ricardo Mallarino. STRI, Unit 0948 APO AA 34002-0948. eb@naos.st.edu

9:30 Dispersal by rafting: Does distance matter? Patterns in North Atlantic amphipods
* Christine M. Henzler, Clifford W. Cunningham. Duke Univ., Durham, NC 27708. cmh20@duke.edu

9:45 Molecular dating and biogeography: Calibration matters! An example using CRYPTONIAECE
* Frank Rutschmann, Torsten Eriksson, Kamariah Abu Salim, Elena Conti. Inst. Systematic Botany, Univ. Zurich, Zollikerstrasse 107, CH-8008 Zurich, Switzerland. frank@plant.ch

MONDAY 8:00 – 10:00 Phenotypic plasticity

8:00 Interactions between predator and diet induced phenotypic changes in body shape
Frank Johansson. Dept. Ecology and Environmental Science, Umea Univ., Sweden. frank.johansson@emg.umu.se

8:15 Consequences of phenotypic plasticity in the spadefoot toad Spea multiplicata
* Amber M. Rice. Biology Dept., Univ. North Carolina-Chapel Hill, Chapel Hill, NC 27599. arice@email.unc.edu

8:30 A multivariate method of model selection for evolutionary data
Michael L. Collyer, Dean C. Adams. Iowa State Univ., Dept. Statistics, Dept. Ecology, Evolution, and Organismal Biology, Ames, IA 50011. collyer@iastate.edu

* student presenter
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors/Institutes</th>
</tr>
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<tbody>
<tr>
<td>9:00</td>
<td>Phylogenetic analysis of the evolution of hatching plasticity in tropical treefrogs</td>
<td>Ivan Gomez-Mestre, Karen M. Warkentin, Christopher J. Schneider, John J. Wiens. Dept. Biology, Boston Univ., Boston MA 02215. <a href="mailto:igmestre@bu.edu">igmestre@bu.edu</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Plasticity and integration of melanism in the cabbage white butterfly</td>
<td>* Andrew M. Stoehr. Dept. Biology, Univ. California, Riverside, CA 92521. <a href="mailto:andrew.stoehr@mail.ucr.edu">andrew.stoehr@mail.ucr.edu</a></td>
</tr>
<tr>
<td>9:30</td>
<td>Does phenotypic plasticity facilitate evolution?</td>
<td>Gerdien de Jong. Evolutionary Population Biology, Utrecht Univ., Utrecht, the Netherlands. <a href="mailto:g.dejong@bio.uu.nl">g.dejong@bio.uu.nl</a></td>
</tr>
<tr>
<td>9:45</td>
<td>Evolution of a color polyphenism by genetic accommodation</td>
<td>* Yuichiro Suzuki, H. Frederik Nijhout. Biology Dept., Duke Univ., Durham, NC 27708. <a href="mailto:ys16@duke.edu">ys16@duke.edu</a></td>
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**MONDAY 8:00 – 10:00 Species interactions**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Ants, agriculture, and antibiotics: Discovery of a new layer of exploitation of the Attine ant-microbe symbiosis</td>
<td>* Ainslie E.F. Little, Matias J. Cafaro, Cameron R. Currie. Dept. Bacteriology, Univ. Wisconsin-Madison. <a href="mailto:alittle@wisc.edu">alittle@wisc.edu</a></td>
</tr>
<tr>
<td>8:30</td>
<td>The geographic selection mosaic for red crossbills, Abert's squirrels, and ponderosa pine</td>
<td>* Thomas L. Parchman, Craig W. Benkman. Dept. Biology, New Mexico State Univ., Las Cruces, New Mexico, 88003. <a href="mailto:tparchma@nmsu.edu">tparchma@nmsu.edu</a></td>
</tr>
<tr>
<td>8:45</td>
<td>Diversification of yucca moths and their parasites</td>
<td>David M. Althoff. Dept of Biological Sciences, Univ. Idaho, Moscow, ID 83844. <a href="mailto:dalthoff@uidaho.edu">dalthoff@uidaho.edu</a></td>
</tr>
<tr>
<td>9:00</td>
<td>Do plant mutualists and antagonists exert conflicting natural selection on floral traits?</td>
<td>Amy L. Parachnowitsch, Christina M. Caruso. Dept. Integrative Biology, Univ. Guelph, Guelph, Ontario N1G 2W3 Canada. <a href="mailto:carusoc@uoguelph.ca">carusoc@uoguelph.ca</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Interactions between boreal forest plants and their pests: How will climate change affect them?</td>
<td>Christa P.H. Mulder, Bitty Roy. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:ficpm2@uaf.edu">ficpm2@uaf.edu</a></td>
</tr>
<tr>
<td>9:30</td>
<td>Quantifying natural selection on floral traits in hummingbird pollinated <em>Silene virginica</em>: A multi-year study</td>
<td>Charles B. Fenster, Richard J. Reynolds, Michele R. Dudash. Dept. Biology, Univ. Maryland, College Park, MD 20742. <a href="mailto:cfenster@umd.edu">cfenster@umd.edu</a></td>
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<tr>
<td>9:45</td>
<td>Beta diversity in corals: How it changes with gamma diversity, spatial scale, and dispersal limitation across a 10,000 k</td>
<td>Howard V. Cornell, Ron H. Karlson, Terence P. Hughes. Dept. Environmental Science and Policy, Uni. of California. Davis, Davis, CA 95616. <a href="mailto:hvcornell@ucdavis.edu">hvcornell@ucdavis.edu</a></td>
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* student presenter
### MONDAY 8:00 – 10:00 Adaptation  Wood Center Ballroom

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<thead>
<tr>
<th>Time</th>
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<th>Presenter</th>
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<tbody>
<tr>
<td>8:00</td>
<td>The economics of academic publishing: Are for-profit journals fleecing the evolutionary biology community?</td>
<td>Carl T. Bergstrom, Theodore C. Bergstrom. Dept. Biology, Univ. Washington, Seattle, WA 98195. <a href="mailto:cbergst@u.washington.edu">cbergst@u.washington.edu</a></td>
</tr>
<tr>
<td>8:15</td>
<td>Evolution and diversity of spider silk materials</td>
<td>Brook O. Swanson, Cheryl Y. Hayashi, Adam P. Summers. Univ. California, Riverside, CA 92521. <a href="mailto:Brook.Swanson@ucr.edu">Brook.Swanson@ucr.edu</a></td>
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<tr>
<td>8:30</td>
<td>The viceroy butterfly is not a Batesian mimic: A chemical mechanism</td>
<td>Kathleen L. Prudic. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. <a href="mailto:klprudic@email.arizona.edu">klprudic@email.arizona.edu</a></td>
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<tr>
<td>8:45</td>
<td>Comparative analyses of adaptive evolution using OUCH</td>
<td>Marguerite A. Butler, Aaron A. King. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37996-1610. <a href="mailto:mabutler@utk.edu">mabutler@utk.edu</a></td>
</tr>
<tr>
<td>9:00</td>
<td>Venom evolution in <em>Sistrurus</em> rattlesnakes</td>
<td>H. Lisle Gibbs, Wayne Rossiter. Dept. EEOB, Ohio State Univ., Columbus, OH 43210-1293. <a href="mailto:gibbs.128@osu.edu">gibbs.128@osu.edu</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Why does <em>Arabidopsis halleri</em> hyperaccumulate zinc? A non-adaptive hypothesis</td>
<td>Stacy I. Taylor, Mark R. Macnair, Nick Smirnoff. School of Biological and Chemical Sciences, Univ. Exeter, Exeter UK EX4 4PS. <a href="mailto:S.I.Taylor@ex.ac.uk">S.I.Taylor@ex.ac.uk</a></td>
</tr>
<tr>
<td>9:30</td>
<td>The role of the maternal environment in the salt tolerance of a locally adapted roadsides plant</td>
<td>Laura L. Beaton, Susan A. Dudley. Washington Univ., St. Louis, Missouri. <a href="mailto:beaton@biology2.wustl.edu">beaton@biology2.wustl.edu</a></td>
</tr>
<tr>
<td>9:45</td>
<td>The evolutionary trajectory of a recently established Alaskan threespine stickleback population</td>
<td>* Windsor E. Aguirre, Michael A. Bell. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook, NY 11794. <a href="mailto:waguirre@life.bio.sunysb.edu">waguirre@life.bio.sunysb.edu</a></td>
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### MONDAY 8:00 – 10:00 Population dynamics  Gruening 306

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tr>
<td>8:00</td>
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<tr>
<td>8:15</td>
<td>Species abundance models and patterns in dragonfly communities: effects of fish predators</td>
<td>Tomas Brodin, Frank Johansson, Göran Englund, Hans Gardfjell. Dept. Ecology and Environmental Science, Umeå Univ., 90187 Umeå, Sweden. <a href="mailto:tomas.brodin@emg.umu.se">tomas.brodin@emg.umu.se</a></td>
</tr>
<tr>
<td>8:30</td>
<td>Assessing natural variability in Gulf of Alaska populations: Comparisons among taxa, substrates, habitats, and measures</td>
<td>Ginny L. Eckert. Univ. Alaska, Juneau, AK 99801. <a href="mailto:ginning.eckert@uas.alaska.edu">ginning.eckert@uas.alaska.edu</a></td>
</tr>
<tr>
<td>8:45</td>
<td>Woodpecker-mediated seed movement in the California valley oak using a maternal-identity approach</td>
<td>Delphine Grivet, Peter E. Smouse, Victoria L. Sork. Ecology and Evolutionary Biology Dept., Univ. California Los Angeles, Los Angeles, CA 90024. <a href="mailto:dgrivet@ucla.edu">dgrivet@ucla.edu</a></td>
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* student presenter
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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Linking population ecology and genetics: The influence of density-dependence and environment on Ne in an annual plant</td>
<td>Erin K. Espeland. Ecology Graduate Group, UC Davis, CA 95616. <a href="mailto:ekeseland@ucdavis.edu">ekeseland@ucdavis.edu</a></td>
</tr>
<tr>
<td>9:30</td>
<td>Multiple paternity and multiple mating in natural populations of house mice (Mus domesticus)</td>
<td>Matthew D. Dean, Kristin Ardlie, Michael W. Nachman. Ecology and Evolution, Univ. Arizona, Tucson, AZ 85741. <a href="mailto:mattdean@email.arizona.edu">mattdean@email.arizona.edu</a></td>
</tr>
<tr>
<td>9:45</td>
<td>Model communities of non-neutral resources and consumers: Empirical predictions from linearized species interactions</td>
<td>Will Wilson, Per Lundberg. Biology Dept., Duke Univ., Durham, NC 27708 USA. <a href="mailto:wgw@duke.edu">wgw@duke.edu</a></td>
</tr>
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**MONDAY 8:00 – 10:00 Mutation**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00</td>
<td>The nature and diversity of compensatory mutations in the bacteriophage phiX174</td>
<td>Art Poon, Lin Chao. Div. Biological Sciences, Univ. California, San Diego, La Jolla 92122, USA. <a href="mailto:apoon@biomail.ucsd.edu">apoon@biomail.ucsd.edu</a></td>
</tr>
<tr>
<td>8:15</td>
<td>Radiation-induced untargeted germ line mutations in Japanese medaka (Oryzias latipes)</td>
<td>Olga Tsyusko, T. Glenn, Yi Yi, T. Hinton. Savannah River Ecology Laboratory, Univ. Georgia. <a href="mailto:tsyusko@srel.edu">tsyusko@srel.edu</a></td>
</tr>
<tr>
<td>8:30</td>
<td>Strong and weak male mutation bias at different sites in the primate genomes</td>
<td>Kateryna D. Makova, Svitlana Tyuckacheva, Michael Zody, Francesca Chiaromonte, James Taylor. 208 Mueller Lab, Dept. Biology, Penn State Univ., Univ. Park, PA 16802. <a href="mailto:kdm16@psu.edu">kdm16@psu.edu</a></td>
</tr>
<tr>
<td>8:45</td>
<td>Direct estimation of the per nucleotide mutation rate in Drosophila</td>
<td>Peter D. Keightley, Steven Macaskill, Mark Dorris, Xulio Maside, Brian Charlesworth. School of Biological Sciences, Univ. Edinburgh, Edinburgh EH9 3JT, UK. <a href="mailto:peter.keightley@ed.ac.uk">peter.keightley@ed.ac.uk</a></td>
</tr>
<tr>
<td>9:00</td>
<td>Distribution of compensatory mutations within genes</td>
<td>Brad Davis, Art Poon. Dept. Zoology, Univ. British Columbia, Vancouver, BC V6T1Z4. <a href="mailto:davis@zoology.ubc.ca">davis@zoology.ubc.ca</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Quantifying mutation parameters in the field using Arabidopsis thaliana</td>
<td>Matthew T. Rutter, Charles B. Fenster. Dept. Biology, Univ. Maryland, College Park, MD 20742. <a href="mailto:rutter@wam.umd.edu">rutter@wam.umd.edu</a></td>
</tr>
<tr>
<td>9:30</td>
<td>Transposons and mutational variance</td>
<td>Mattieu Begin, Daniel Schoen. McGill Univ., Stewart Biology building, 1205 Dr Penfield, Montreal, Quebec, H3A 1B1, Canada. <a href="mailto:mattieu.begin@hotmail.com">mattieu.begin@hotmail.com</a></td>
</tr>
<tr>
<td>9:45</td>
<td>Comparative mutational biology of nematodes: G x E and mutational covariance</td>
<td>Charles F. Baer, Naomi Phillips, Frank Shaw, Dejerianne Ostrow, Thomas Keller, Ashley Boggs, Laura Levy, Dustin Blanton. Dept. Zoology, Univ. Florida, Gainesville, FL 32611. <a href="mailto:cbaer@zoo.ufl.edu">cbaer@zoo.ufl.edu</a></td>
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* student presenter
MONDAY 10:30 – 12:00 Phylogeography

10:30 Comparative phylogeography of chipmunks and mice in relation to the Quaternary history of eastern deciduous forests

10:45 Historical demography of the cinereus shrew complex: Effects of Pleistocene glaciations on population dynamics

11:00 The effects of differential dispersal on phylogeographic structure among Madagascar’s oryzorictine treecees

11:15 Ocean channels and distance determine phylogeographic patterns in three widespread Philippine fruit bats

11:30 The geography of evolutionary interactions between wildfire, North American paper birches and Arctic hares

11:45 Identifying areas of endemism using parsimony analysis of endemicty and nested clade analysis

Schaible Auditorium

* Kevin C. Rowe, Edward J. Heske, Ken N. Paige. Dept. Animal Biology, Univ. Illinois, Urbana, IL 61801. krowe@uiuc.edu

* Eric Waltari, Joseph A. Cook. Dept. Biological Sciences, Idaho State Univ., Pocatello, ID 83209. walteric@isu.edu

* Kyndall Hildebrandt, Steven M. Goodman, Link E. Olson. Univ. Alaska Museum, 907 Yukon Dr., Fairbanks, AK 99775. fskbb1@uaf.edu

* Trina E. Roberts. Committee on Evolutionary Biology, Univ. Chicago, Chicago, IL 60637. terobert@uchicago.edu

* Joseph H. Williams, John P. Bryant, Tom Clausen, Joe Cook, Simon Landhausser, Suzanne Carrier. Dept. Ecology and Evolution, Univ. Tennessee, Knoxville, TN 37996. joewill@utk.edu

* Anthon J Deo, Rob DeSalle. American Museum of Natural History, New York, NY 10024. adeo@amnh.org

MONDAY 10:30 – 12:00 Phenotypic plasticity

10:30 Landscape genetics of local adaptation in Impatiens capensis: Replicate evolution of forest understory and open habitat

10:45 Are patterns of inbreeding depression and plasticity correlated between micro- and macro-environmental gradients?

11:00 Phenotypic plasticity to nutrients and herbivory in wild populations of Arabidopsis thaliana

11:15 A generalized framework for the analysis of phenotypic change

11:30 The adaptive significance of behavioral and phenotypic plasticity for thermoregulation in pipevine swallowtail larvae

Gruening 208


Courtney J. Murren, Michele R. Dudash. Dept. Biology, College of Charleston, Charleston SC 29412. murrenc@cofc.edu

Joshua A. Banta, Massimo Pighiucci. Dept. Ecology and Evolution, SUNY - Stony Brook, Stony Brook, NY 11794-5245. jbanta@life.bio.sunysb.edu

Dean C. Adams, Michael L. Collyer. Dept. Ecology, Evolution, Organismal Biology, Iowa State Univ., Ames, IA 50011. deanadams@iastate.edu

Chris Nice, James A. Fordyce. Texas State Univ. ccnice@txstate.edu

* student presenter
**MONDAY 10:30 – 12:00 Species interaction**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Bacteria spice it up: Symbiont effects on the mode of aphid reproduction</td>
<td>Teresa E. Leonardo. Evolutionary Biology and Ecology, Princeton Univ., Princeton NJ 08544. <a href="mailto:teresal@princeton.edu">teresal@princeton.edu</a></td>
</tr>
<tr>
<td>10:45</td>
<td>A test of multi-trophic interaction hypotheses involving mycorrhizae, plants, and herbivores</td>
<td>* Alison E. Bennett, James D. Bever. Dept. Biology, Indiana Univ.-Bloomington, Bloomington IN 47405. <a href="mailto:alibenn@bio.indiana.edu">alibenn@bio.indiana.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Floral trait evolution in response to pollinator preference</td>
<td>* Risa D. Sargent, Sarah P. Otto. Dept. Zoology, Univ. British Columbia, Vancouver, BC, V6T 1Z4. <a href="mailto:sargent@zoology.ubc.ca">sargent@zoology.ubc.ca</a></td>
</tr>
<tr>
<td>11:15</td>
<td>Predator and prey space use as an interactive game: Comparing empirical data to alternative models of movement rules</td>
<td>Barney Luttbeg, John Hammond, Andrew Sih. Dept. Environment Science and Policy, Univ. California, Davis, CA 95616. <a href="mailto:bluttbeg@ucdavis.edu">bluttbeg@ucdavis.edu</a></td>
</tr>
<tr>
<td>11:30</td>
<td>The role of aspen extrafloral nectaries in plant-insect interactions</td>
<td>Pat Doak, Diane Wagner. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:ffpd@uaf.edu">ffpd@uaf.edu</a></td>
</tr>
<tr>
<td>11:45</td>
<td>Predator-driven evolution in the deep-sea</td>
<td>* Alberto Lindner, Stephen D. Cairns, Cliff Cunningham. Biology Dept., Duke Univ., Durham, NC, 27708, USA. <a href="mailto:alberto.lindner@duke.edu">alberto.lindner@duke.edu</a></td>
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**MONDAY 10:30 – 12:00 Adaptation**

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<tbody>
<tr>
<td>10:30</td>
<td>Population differentiation at a global scale: Examining adaptation of wild radish through comparisons of Fst and Qst</td>
<td>* Heather F. Sahli, Jeffrey K. Conner. Kellogg Biological Station, Michigan State Univ., Hickory Corners, MI 49060. <a href="mailto:sahlihea@msu.edu">sahlihea@msu.edu</a></td>
</tr>
<tr>
<td>10:45</td>
<td>Selection on tadpole morphology and swimming performance: An evaluation of the morphology, performance and fitness paradigm</td>
<td>* James B. Johnson, Thomas J. DeWitt, D. Brent Burt. Dept. Wildlife and Fisheries Sciences, Texas A&amp;M Univ. College Station TX 77843-2258. <a href="mailto:jamesbjohnson@neo.tamu.edu">jamesbjohnson@neo.tamu.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>The importance of population origin and environment on clonal and sexual reproduction in the alpine plant Geum reptans</td>
<td>Andrea R Pluess, Jürg Stöcklin. Inst. Botany, Univ. Basel, CH 4056 Basel, Switzerland. <a href="mailto:andrea.pluess@unibas.ch">andrea.pluess@unibas.ch</a></td>
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* student presenter
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<tbody>
<tr>
<td>11:30</td>
<td>Phylogeny and vocal stereotypy in mice: A peromyscine model</td>
<td>Jacqueline R. Miller, Mark D. Engstrom. Dept. Zoology, Univ. Toronto. <a href="mailto:jmiller@rom.on.ca">jmiller@rom.on.ca</a></td>
</tr>
<tr>
<td>11:45</td>
<td>Demic adaptation and host plant quality as determinants of the distribution of a host-specific gall former</td>
<td>James R. Ott, Scott P. Egan. Dept. Biology, Texas State Univ.-San Marcos. <a href="mailto:jimott@txstate.edu">jimott@txstate.edu</a></td>
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<td><strong>MONDAY 10:30 – 12:00 Ernst Mayr Award</strong></td>
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<tr>
<td>10:30</td>
<td>Convergent evolution and divergent selection: Rapid adaptation to novel environments in a community of lizards</td>
<td>Erica Bree Rosenblum. Museum of Vertebrate Zoology, 3101 Valley Life Sciences Building, Univ. California, Berkeley CA 94720-3160. <a href="mailto:rosenblum@berkeley.edu">rosenblum@berkeley.edu</a></td>
</tr>
<tr>
<td>10:45</td>
<td>Using multi-marker analyses to examine causes of paraphyly in the Mallard complex (genus <em>Anas</em>)</td>
<td>Ryan J. Harrigan, Michael D. Sorenson. B.U. Dept. Biology, 5 Cummington Street, Boston, MA, 02215. <a href="mailto:ilvsa@bu.edu">ilvsa@bu.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Phylogenetic analysis based on a whole-proteome evolution model of protein domain composition</td>
<td>Ivan Iossifov, Andrey Rzhetsky. DBMI, 622 West 168th St. Vanderbilt Clinic, 5th Floor New York, NY 10032. <a href="mailto:iossifov@dbmi.columbia.edu">iossifov@dbmi.columbia.edu</a></td>
</tr>
<tr>
<td>11:15</td>
<td>Investigating protein evolution through an empirical codon model</td>
<td>Carolin Kosiol, Nick Goldman. EMBL - European Bioinformatics Inst. <a href="mailto:kosiol@ebi.ac.uk">kosiol@ebi.ac.uk</a></td>
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<tr>
<td>11:30</td>
<td>Evolutionary rates and the generation-time effect in sporeforming bacteria</td>
<td>Heather Maughan. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, Arizona 85701. <a href="mailto:hmaughan@u.arizona.edu">hmaughan@u.arizona.edu</a></td>
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<td>11:45</td>
<td>Chloroplast capture in the Hawaiian silversword alliance</td>
<td>Mitchell F. McGlaughlin, Elizabeth Friar. Rancho Santa Ana Botanic Garden, 1500 N College Ave, Claremont, CA 91711. <a href="mailto:mitchell.mcglaughlin@csu.edu">mitchell.mcglaughlin@csu.edu</a></td>
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<td><strong>MONDAY 10:30 – 12:00 Ecology and evolution of disease</strong></td>
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<td>10:30</td>
<td>N-fixing <em>Alnus crispa</em> shows no local adaptation to pathogens, herbivores, or the abiotic environment</td>
<td>Bitty A. Roy, Christa P.H. Mulder, Julie Stewart. Center for Ecology and Evolutionary Biology, Univ. Oregon, Eugene, OR 97405. <a href="mailto:bit@darkwing.uoregon.edu">bit@darkwing.uoregon.edu</a></td>
</tr>
<tr>
<td>10:45</td>
<td>Coevolution of tiger salamanders and an emerging iridovirus</td>
<td>Andrew Storfer. School of Biological Sciences, Washington State Univ. <a href="mailto:astorfer@wsu.edu">astorfer@wsu.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>The evolution of antibiotic resistance in hospitals: Does antimicrobial cycling work?</td>
<td>Carl T. Bergstrom, Monique Lo, Marc Lipsitch. Dept. Biology, Univ. Washington, Seattle, WA 98115. <a href="mailto:cbergst@u.washington.edu">cbergst@u.washington.edu</a></td>
</tr>
<tr>
<td>11:15</td>
<td>Genetic variation in field strains of the gypsy moth pathogen nucleopolyhedrosis virus</td>
<td>Pauline A. Fujita, Greg Dwyer. Dept. Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. <a href="mailto:paf@uchicago.edu">paf@uchicago.edu</a></td>
</tr>
</tbody>
</table>

* student presenter
11:30  Evolution of genomes and host shifts among SARS associated and related coronaviruses.

Daniel Andrew Janies. Dept. Biomedical Informatics, Ohio State Univ., 3184 Graves Hall, 333 W. 10th Av. Columbus, OH, 43210 USA. janies-l@medctr.osu.edu

11:45  Identifying conflict and accord in within-host and between-host selection on parasite evolution: A nested approach

Michael A. Gilchrist, Daniel Coombs. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37917. mikeg@utk.edu

* student presenter
MONDAY EARLY AFTERNOON, JUNE 13

MONDAY 1:30 – 3:00 Phylogeography

1:30 Evidence from avian genetics for a necklace of glacial refugia across the North Pacific
Christin Pruett, Kevin Winker. Univ. Alaska Museum, 907 Yukon Dr., Fairbanks, AK 99775. ftcelp@uaf.edu

1:45 Genetic consequences of the late quaternary: Lessons from phylogenetic and coalescent analyses of the Mountain Chickadee
* Garth M. Spellman, John Klicka, Brett Riddle, Marjorie Barrick. Museum of Natural History, Univ. Nevada - Las Vegas, Las Vegas, NV 89154. garth@unlv.nevada.edu

2:00 Divergent patterns of species accumulation in lowland and highland Neotropical birds
* Jason T. Weir. Dept. Zoology, Univ. British Columbia, Vancouver, BC V6T 1Z4. weir@zoology.ubc.ca

2:15 Phylogeography of the New Zealand freshwater crayfish, Paraneophrops sp.
Smita Apte, Graham Wallis. Dept. Zoology, Univ. Otago, 340 Great King Street, P.O. Box 56, Dunedin, New Zealand. smita.apte@stonebow.otago.ac.nz

2:30 Genetic divergence between Caribbean and Hawaiian populations of the banded coral shrimp Stenopus hispidus
Nikolaos Schizas, William E. Browne. Univ. Puerto Rico, Mayaguez, Isla Migueyes Laboratories, P.O. Box 908, Lajas, PR 00667. n_schizas@cima.uprm.edu

2:45 Breaching the impassable barrier: Genetic connections in 20 transpacific fishes
Harilaos A. Lessios, D.R. Robertson. Smithsonian Tropical Research Inst., Unit 948, APO AA 34002. Lessiosh@stri.org

MONDAY 1:30 – 3:00 Experimental evolution

1:30 Adaptive diversification in genes regulating resource use in Escherichia coli
Melanie Bertrand, Christine C. Spencer, Michael Doebeli. Univ. British Columbia. spencer@zoology.ubc.ca

1:45 The speed of evolution and maintenance of variation in asexual populations
* Michael M. Desai, Daniel S. Fisher, Andrew W. Murray. Dept. Physics, Jefferson Laboratories, Harvard Univ., 17 Oxford Street, Cambridge, MA 02138. desai@fas.harvard.edu

2:00 Rapid genomic size change in Saccharomyces cerevisiae
* Aleeza C. Gerstein, Sarah P. Otto. Dept. Zoology, Univ. British Columbia, Vancouver, BC V6T 1Z4 Canada. gerstein@zoology.ubc.ca

2:15 A tale of two genotypes: A cautionary account of laboratory dependence
Kara J O'Keefe, Nadya M. Morales, Paul E. Turner. Ecology and Evolutionary Biology, Yale Univ., New Haven, CT 06520. kara.okeefe@yale.edu

2:30 The evolution of a 'tragedy of the commons' in host-pathogen metapopulations

* student presenter
### MONDAY 1:30 – 3:00 Invasive Species

**1:30** Genetic bottlenecks and rapid evolution in an invasive plant  
*Katrina M. Dlugosch, Ingrid M. Parker. Ecology and Evolutionary Biology, Univ. California Santa Cruz, Santa Cruz, CA 95064. dlugosch@biology.ucsc.edu*

**1:45** Decision case development for invasive ornamental crops  
*Neil O. Anderson. Dept. Horticultural Science, Univ. Minnesota, Saint Paul, MN 55108. ander044@umn.edu*

**2:00** Evolutionary origins of weedy rye (*Secale cereale*) in western North America  
*Jutta C. Burger, Sky Lee, Norman C. Ellstrand. Dept. Botany and Plant Sciences, Univ. California-Riverside, Riverside, CA 92521. jburge002@student.ucr.edu*

**2:15** Homology of microsatellite and ISSR markers in *Cirsium* (Asteraceae)  
*Tracey A. B. Slotta, David Horvath. 1605 Albrecht Blvd. Fargo ND 58105-5674. slottat@fargo.ars.usda.gov*

**2:30** Range expansion: Edge vs. central populations in a newly invasive species  
*Alisa P. Ramakrishnan, Trieste Dobberstein, Mitch Cruzan. Dept. Biology, Portland State Univ., Portland, OR 97207. aramakris@yahoo.com*

**2:45** Continent-wide fixation of asymmetry in invasive *Drosophila subsobscra*  
*George W. Gilchrist, Raymond B. Huey. Dept. Biology, College of William and Mary, Williamsburg, VA 23187. gwgilc@wm.edu*

### MONDAY 1:30 – 3:00 Adaptation

**1:30** Experimental evidence for multivariate stabilizing sexual selection on calls of male Australian field crickets  
*Robert Brooks, John Hunt, Mark Blows, Michael Jennis, Caroline Bentsen, Mike Smith, Luc Bussiere. Dept. Zoology, Univ. Toronto. rob.brooks@unsw.edu.au*

**1:45** Evolution of aggression as a key to the reciprocal range shifts of two passerine species  
*Renee A. Duckworth. Biology Dept., Duke Univ., Durham, NC 27708. rad3@duke.edu*

**2:00** When "wet" seasons aren't: Selection on beak morphology in Darwin's finches  
*Andrew P. Hendry, Luis DeLeon, Sarah K. Huber, Jeffrey Podos. Redpath Museum and Dept. Biology, McGill Univ., 859 Sherbrooke St. W., Montreal, Quebec, H3A 2K6 Canada. andrew.hendry@mcgill.ca*

**2:15** Adaptations to high altitude alpine tundra in Cinnamon Teals and Silver Teals  
*Robert E. Wilson, Christopher P. Barger, Kevin P. Johnson, Kevin G. McCracken. Dept. Biology and Wildlife, 211 Irving 1, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fterwil@uaf.edu*

* student presenter

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter / Institution</th>
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<tr>
<td>2:30</td>
<td>The fit of organism and environment: Towards an integrated theory of adaptation</td>
<td>David D. Ackerly. Dept. Integrative Biology, Univ. California, Berkeley CA 94720. <a href="mailto:dackerly@berkeley.edu">dackerly@berkeley.edu</a></td>
</tr>
<tr>
<td>2:45</td>
<td>Feeding performance in divergent threespine stickleback populations</td>
<td>Matthew P. Travis. Stony Brook Univ. <a href="mailto:mtravis@life.bio.sunysb.edu">mtravis@life.bio.sunysb.edu</a></td>
</tr>
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</table>

**MONDAY 1:30 – 3:00 Ernst Mayr Award**

- **1:30** Flower-feeding bloodsuckers: Local adaptation in long tongued horse flies  
  Shelia I. Morita. Population Biology Graduate Group, Univ. California, Davis, CA, 95616. simorita@ucdavis.edu

- **1:45** The use of simulation to study the role of alignment accuracy in phylogenetic inference  
  T. Heath Ogden, Michael S. Rosenberg. School of Life Sciences, P.O. Box 874501, ASU, Tempe, AZ, 85287. heath_ogden@asu.edu

- **2:00** A pan-Pacific odyssey: The diversification of *Rhyncogonus* weevils in the South Pacific  
  Elin M. Claridge, Rosemary G. Gillespie, George K. Roderick. Insect Biology Division, Univ. California Berkeley, Berkeley, CA 94720. elinclaridge@berkeley.edu

- **2:15** Are unequal clade priors a problem for Bayesian phylogenetics?  
  Matthew C. Brandley, Adam D. Leache, Dan L. Warren, Jimmy A. McGuire. Museum of Vertebrate Zoology and Univ. California, Berkeley. brandley@berkeley.edu

- **2:30** A comparative phylogenetic perspective of parallel evolution in morphologically conservative groups of scincid lizards  
  Jonathan Q. Richmond. Ecology and Evolutionary Biology, Univ. Connecticut, Storrs, CT 06269-3043. jonathan.richmond@uconn.edu

**MONDAY 1:30 – 3:00 Microbial evolution**

- **1:30** The transition from methanogen to haloarchaeum was due to horizontal gene transfer from bacteria  
  Christopher J. Creevey, James O. McInerney. National Univ. Ireland, Maynooth. chris.creevey@nuim.ie

- **1:45** Smoking guns and heavy metal bullets: Indirect selection for ant  
  J Vaun McArthur, R. Cary Tuckfield, Ramunas Stepanskas. Savannah River Ecology Laboratory, Univ. Georgia, Aiken, SC 29802. mearthur@srel.edu

- **2:00** Fish, germs, and steel (and other toxic metals): The multivariate evidence for environmental selection  
  R. Cary Tuckfield, J Vaun McArthur. Savannah River National Laboratory, Aiken, SC, 29808. cary.tuckfield@srel.doe.gov

- **2:15** Evolution of the *Rhodobacter capsulatus* Gene Transfer Agent (GTA)  
  Andrew S. Lang. Inst. Marine Science, Univ. Alaska Fairbanks, Fairbanks, AK, 99775. asl@ims.uaf.edu

- **2:30** Are bacterial MLST genes really neutral? It depends on the site of the beholder  
  Marcos Perez-Losada, Keith A. Crandall. Dept. Integrative Biology, Brigham Young Univ., Provo, UT84602. mp323@email.byu.edu

* student presenter
Global patterns in 16S evolution across the bacteria domain

* Eric L. Miller. 1 Univ. Station C0930, Austin, TX 78712. eric.miller@mail.utexas.edu

* student presenter
MONDAY 3:30 – 5:00 Phylogeography

3:30 Phylogeography of the sand shiner (*Notropis stramineus*)
Kendra J. Pittman. 2101 Constant Avenue, Univ. Kansas, Lawrence, KS 66045. kjpi@ku.edu

3:45 Postglacial expansion of the long-tailed mouse *Oligoryzomys longicaudatus* in the southcentral Andes of Chile
R. Eduardo Palma, D. Boric-Bargetto, F. Torres-Perez, Terry L. Yates. Departamento de Ecologia, Universidad Catolica de Chile, Santiago 6513677, Chile. epalma@bio.puc.cl

4:00 Phylogeography and cryptic species of the black-bellied salamanders
Leslie J. Rissler, Jessica Wooten. Dept. Biological Sciences, Univ. Alabama, Tuscaloosa, AL 35487. rissler@bama.ua.edu

4:15 Phylogeography and paleoecology: Integrating niche breadth, volume, habitat fluctuations and historical demography
Jason MacKenzie, Mike Hickerson, Steve Williams, Craig Moritz. Museum of Vertebrate Zoology, Univ. California, Berkeley, CA 94720. jbm@berkeley.edu

4:30 Molecular and adaptive variation within a native Patagonian fish complex

4:45 Diversification of a Neotropical ant: Molecular phylogeography of *Atta spp.*
* Scott E. Solomon, Mauricio Bacci, Jr., Ulrich G. Mueller. Section of Integrative Biology, The Univ. Texas at Austin, 1 Univ. Station, C0930, Austin, TX 78712. sso Solomon@mail.utexas.edu

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MONDAY 3:30 – 5:00 Ecological genetics

3:30 Altitudinal variation in hemoglobins of deer mice
Jay F. Storz, Eben Gering, Stephen Sabatino, Michael W. Nachman. Dept. Biology, Univ. Nebraska. storz@sfsu.edu

3:45 Maintenance of diversity in a heterogeneous environment: Landscape predicts variance within populations of lodgepole pine (*Pinus contorta*)
* Sam Yeaman, Andy Jarvis. Zoology Dept., Univ. British Columbia, Vancouver, BC, V6T 1Z4. yeaman@zoology.ubc.ca

4:00 EST databases as a source for molecular markers in understudied species: Lessons from *Helianthus*
Catherine H. Pashley, Jennifer R. Ellis, John M. Burke. Dept. Biological Sciences, Vanderbilt Univ., VU Station B 351634, Nashville, TN 37235. Cat.Pashley@vanderbilt.edu

4:15 Genetic variation in cottonwoods structures arthropod communities at local to regional scales
Gery J. Allan, Randy K. Bangert, Nashelly Meneses, Thomas G. Whitham, Paul Keim. Biological Sciences Dept., Northern Arizona Univ., Flagstaff, AZ 86011. gery.allan@nau.edu

* student presenter
4:30 Selective sweeps in ecological speciation of homoploid hybrid sunflower, *Helianthus anomalus*  
Yuval Sapir, Loren H. Rieseberg. Dept. Biology, Indiana Univ., Bloomington, IN, 47405, USA. ysapir@indiana.edu

4:45 The instability of heritability: Quantitative genetics of life history in a long-term field experiment in *P. lanceolata*  
Jeffry L. Dudycha, Deborah A. Roach. Dept. Biology, Indiana Univ., Bloomington IN 47404. jeffldudycha@gmail.com

MONDAY 3:30 – 5:00 Invasive Species/Comparative biology  
Wood Center C & D

3:30 Phyllogenetic placement and suggested native range of beech scale (Hemiptera: Eriococcidae)  
* Rodger A. Gwiazdowski, A. Desnoyers, R. G. Van Driesche, B. B. Normark. Division of Entomology and OEB Graduate Program, UMass, Amherst 01003. rodger@psis.umass.edu

3:45 Growth response to herbivory: A critical factor in assessing invasive potential  
* Nadilia Gomez, Neil Anderson. Dept. Horticultural Science, Univ. Minnesota, Saint Paul, MN 55108. gomec0046@umn.edu

4:00 Simulation models of gene expression during butterfly color pattern development  
Jeffrey M. Marcus. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101. jeffrey.marcus@wku.edu

4:1 A comprehensive analysis of wing shape and size across the family Drosophilidae  
Kim van der Linde, David Houle. Dept. Biological Science, Florida State Univ., Tallahassee, Florida 32306-1100, U.S.A. kim@kimvdlinde.com

4:30 Seasonal migration, speciation, and morphological convergence in the *Cattharus* thrushes (Aves: Turdidae)  
Kevin Winker, Christin L. Prueitt. Univ. Alaska Museum, 907 Yukon Drive, Fairbanks, AK 99775. ftksw@uaf.edu

4:45 Synteny and linkage of molecular markers between *Xiphophorus* and *Poecilia*  
* Martin Brummel, Felix Breden. Dept. Biological Sciences, Simon Fraser Univ., Burnaby, British Columbia, Canada V5A 1S6. mbrummel@sfu.ca

MONDAY 3:30 – 5:00 Adaptation  
Wood Center Ballroom

3:30 Adaptive population divergence in balsam poplar along a latitudinal cline  
* Amy Breen Carroll, Elise Glenn, Adam Yeager, Matthew Olson. Dept. Biology and Wildlife and Inst. Arctic Biology, Univ. Alaska, Fairbanks, AK 99775. flab2@uaf.edu

3:45 Hybridization dynamics of native greenback cutthroat trout and introduced rainbow trout  
* Jessica L Metcalf, Matthew R Siegle, Andrew P Martin. N122 Ramaley Biology, Univ. Colorado, Boulder, 80309-0334. jessica.metcalf@colorado.edu

4:00 Geographical variation and polymorphism in a flatfish  
Carolyn A. Bergstrom, A. Richard Palmer. Bamfield Marine Science Center, Univ. Alberta, Bamfield, British Columbia, V0R 1H0. cbergstr@bms.bc.ca

* student presenter
4:15 Evolution and the information content of selective environments: Flash floods and aquatic insects  
David A. Lyle, Arthur L. Pelegrin, Michael T. Bogan. Dept. Zoology, Oregon State Univ., Corvallis, OR 97331. lytle.d@science.oregonstate.edu

4:30 Towards an understanding of the role of positive selection in protein evolution  
Mary J. O'Connell, James O. McInerney. Bioinformatics and Molecular Evolution Lab, School of Biotechnology, Dublin City University, Glasnevin, Dublin 9, Ireland. mary.oconnell@dcu.ie

4:45 Differential population responses to climate by Chinook salmon and implications for metapopulation viability through projected climate change  
Lisa Crozier, Rich Zabel, Steve Achord. NOAA Fisheries Service, Northwest Fisheries Science Center, 2725 Montlake Blvd East, Seattle, WA 98112 USA. Lisa.Crozier@noaa.gov

MONDAY 3:30 – 5:00 Sexual selection

Gruening 306

3:30 The evolution of iridescent plumage coloration  
Geoffrey E. Hill, Mathew D. Shawkey, Stephanie M. Doucet. Dept. Biol. Sci., Auburn Univ., Auburn, AL 36820. ghill@acesag.auburn.edu

3:45 The direct benefits of female mating preferences in a field cricket  
William E. Wagner Jr. School of Biological Sciences, Univ. Nebraska, Lincoln, NE 68588-0118. wagner@unlserve.unl.edu

4:00 The scent of dominance  
Raine Kortet, Ann Hedrick. Neurobiology, Physiology and Behavior, UC Davis, One Shields Avenue, Davis, CA 95616. rkkortet@ucdavis.edu

4:15 Are sexually selected traits and mate recognition traits two separate systems in field cricket communication?  
Marna Ferreira, J. Willem H. Ferguson. Centre for Environmental Studies, Pretoria Univ. 0002 Pretoria, South Africa. jwhferguson@zoology.up.ac.za

4:30 Factors affecting male fertilization success in red flour beetles  
Aditi Pai, Stephanie Manka, Shelly Beckford, Varma Penumetsa, Derek Reformat, Guiyun Yan. Biological Sciences, Suny-Buffalo, NY 14260. ADITIPAI@BUFFALO.EDU

MONDAY 3:30 – 5:00 Molecular evolution

Lee H. Salisbury Theatre

3:30 Overwhelming recombination at Ldh-B: How does selection act on functional promoter DNA sequence?  
Jaros Plinhogolukidit, Jeffery D VanWye, Douglas L Crawford. MBF Dept., RSMAS, Univ. Miami, Miami, FL 33149. jaros_omm@hotmail.com

3:45 Identification of physicochemical selective pressure on protein encoding nucleotide sequences  
Wendy S. W. Wong, Raazesh Sainudiin, Rasmus Nielsen. 101 Biotech Bldg, Cornell Univ., Ithaca NY 14853. sws8@cornell.edu

4:00 The evolutionary history of the Apicomplexans  
Gayle K. Philip, James O. McInerney. Bioinformatics Lab, National Univ. Ireland, Maynooth, Co. Kildare, Ireland. gayle.k.philip@nuim.ie

* student presenter 65
4:15  Sources of variation in ancestral sequence reconstruction (ASR)

4:30  Accelerated molecular evolution in Microtus (Rodentia) as assessed via complete mitochondrial genome sequences

4:45  Endolichenic fungi: Random inhabitants or symbiotic partners

Howard A. Ross. Bioinformatics Inst., Univ. Auckland, Private Bag 92019, Auckland, New Zealand. h.ross@auckland.ac.nz

* Deborah A. Triant, J. Andrew DeWoody. Dept. Forestry and Natural Resources, Purdue Univ., West Lafayette, IN 47907. dtriant@purdue.edu


* student presenter
TUESDAY 8:00 – 10:00 Phylogeography

8:00  Niche evolution and the origin of migratory pathways in the Swainson's thrush  
*  Kristen Ruegg, Robert Hjimans.  Museum of Vertebrate Zoology, Univ. California, Berkeley, CA 94720-3160.  kruegg@berkeley.edu

8:15  Identification of glacial refugia by phylogeographic analyses of a forest understory species, Trillium cuneatum  
*  Eva Gonzales, SM Chang, J.L Hamrick.  Univ. Georgia, Plant Biology, Athens, GA 30602.  cgonz@plantbio.uga.edu

8:30  Lowland phylogeography of New Guinea birds  
John P. Dumbacher, Andrew Mack, Kristy L. Deiner, Robert C. Fleischer.  California Academy of Sciences, San Francisco, CA 94103.  kddeiner@calacademy.org

8:45  Rapid diversification of coloration among populations of a Peruvian poison frog isolated on sky islands  
*  Jennifer L. Roberts, Rainer Schulte, Wilfredo Arizabal, Kyle Summers.  Dept. Biology, East Carolina Univ., Greenville, NC 27858.  jhr0630@mail.ecu.edu

9:00  Molecular phylogenetics of crotaphytid lizards: A complicated tale of gene flow and mitochondrial introgression  
Jimmy A. McGuire, A. Kristopher Lappin, Delbert W. Hutchison, David Orange, Julio Lemos-Espinal.  Museum of Vertebrate Zoology, Univ. California, Berkeley, CA 94720.  mcguirej@berkeley.edu

9:15  Phylogeography and systematics of the trilling chorus frogs (Pseudacris)  
*  Emily C. Moriarty Lemmon, Joseph T. Collins, Alan R. Lemmon, David C. Cannatella.  Patterson Lab 141, 24th and Speedway, Univ. Texas, Austin, TX 78712.  chorusfrog@mail.utexas.edu

9:30  Phylogeography of the morphologically diverse anostracan Branchinella longirostris Wolf 1911 from granite rock pools in Western Australia  
*  Magdalena Zofkova, Brian V. Timms.  Animal Biology (M092), UWA, 35 Stirling Hwy, Crawley, Western Australia 6009.  magdalen@eyllene.uwa.edu.au

9:45  The phylogeography of the diamond-backed (man-eating) watersnake, Nerodia rhombifer  
*  Matthew C. Brandley, Chris T. Winne, Tod W. Reeder.  Museum of Vertebrate Zoology, Univ. California, Berkeley.  brandley@berkeley.edu

TUESDAY 8:00 – 10:00 Ecological genetics

8:00  Adaptive plasticity and phenotype evolution in a plant hybrid zone  
Mitch Cruzan, Josh Picotte, Heather de Glanville, Kristin Anton.  Portland State Univ. cruzan@pdx.edu

8:15  Mechanisms maintaining coexistence of sympatric cytotypes in Arnica cordifolia (Asteraceae)  
*  Rebecca A. Huff.  Ecology and Evolutionary Biology, Univ. California Santa Cruz, Santa Cruz, CA 95064.  huffr@darwin.ucsc.edu

8:30  Genetic and phenotypic variation in Peromyscus polionotus: Using molecular methods to revisit Haldane's clinal theory  
*  Lynne M. Mullen, Hopi E. Hoekstra.  Division of Biological Sciences, Univ. California-San Diego, La Jolla, CA 92093-0116.  lynne@ucsd.edu

* student presenter
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<th>Time</th>
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<tr>
<td>8:45</td>
<td>Fine mapping of floral architecture traits in <em>Arabidopsis</em></td>
<td>Kathleen Engelmann, Mark Ungerer, Michael Purugganan. Dept. Genetics, North Carolinas State Univ., Raleigh, NC 27695. <a href="mailto:ken@ncsu.edu">ken@ncsu.edu</a></td>
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<tr>
<td>9:00</td>
<td>Rapid evolution of drought tolerance in wild mustard (<em>Brassica rapa</em>)</td>
<td>Steven J. Franks, Arthur E. Weis. Dept. Ecology and Evolutionary Biology, 321 Steinhaus Hall, The Univ. California, Irvine, Irvine, CA 92697-25. <a href="mailto:sfranks@uci.edu">sfranks@uci.edu</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Genetic variation in Aspen structures arthropod community composition</td>
<td>* Nashelly Meneses, Joseph K. Bailey, Gery J. Allan, Brian Rehill, Rick Lindroth, Thomas G. Whitham, Paul Keim. Dept. Biological Sciences, Northern Arizona Univ., PO Box 5640, Flagstaff, AZ 86011-5640. <a href="mailto:nm49@dana.ucc.nau.edu">nm49@dana.ucc.nau.edu</a></td>
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<tr>
<td>9:45</td>
<td>Genetics of adaptation in annual and perennial <em>Mimulus guttatus</em></td>
<td>* Megan C. Hall, John H. Willis. Dept. Biology, Duke Univ., Durham, NC 27708. <a href="mailto:meh10@duke.edu">meh10@duke.edu</a></td>
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**TUESDAY 8:00 – 10:00 Hybridization**

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<td>8:00</td>
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<tr>
<td>8:15</td>
<td>Placental invasiveness mediates the evolution of reproductive isolation in mammals</td>
<td>* Mick Elliot, Bernard J. Crespi. Dept. Biological Sciences, Simon Fraser Univ., Burnaby, BC, Canada. <a href="mailto:micke@sfu.ca">micke@sfu.ca</a></td>
</tr>
<tr>
<td>8:30</td>
<td>Some like it hot: Ecophysiological differences among two Ipomopsis species and their reciprocal hybrids</td>
<td>Carrie A. Wu. Dept. Ecology and Evolutionary Biology, Univ. California Irvine, Irvine, CA 92697. <a href="mailto:carrie_wu@uci.edu">carrie_wu@uci.edu</a></td>
</tr>
<tr>
<td>8:45</td>
<td>Interspecific hybridization produces a new transcriptional landscape in yeast</td>
<td>* Christian R. Landry, Julia Oh, Christina Queitsch, Duccio Cavalieri. Organismic and Evolutionary Biology, Harvard Univ., Cambridge MA 02138, USA. <a href="mailto:clandry@fas.harvard.edu">clandry@fas.harvard.edu</a></td>
</tr>
<tr>
<td>9:15</td>
<td>Can the complex phenotypes of naturally occurring hybrid species be recreated in early generation artificial hybrids?</td>
<td>David M. Rosenthal, Loren H. Reiseberg, Lisa A. Donovan. Biology Dept., Portland State Univ., PO Box 751, Portland OR, 97207. <a href="mailto:drosen@pdx.edu">drosen@pdx.edu</a></td>
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<tr>
<td>9:30</td>
<td>Reduced mitochondrial function and interpopulation F2 hybrid breakdown in the intertidal copepod <em>Tigriopus californicus</em></td>
<td>* Christopher K. Ellison, Ronald S. Burton. Scripps Institution of Oceanography, Univ. California San Diego, La Jolla, CA 92093-0208. <a href="mailto:cellison@ucsd.edu">cellison@ucsd.edu</a></td>
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<tr>
<td>9:45</td>
<td>The genomics of a house mouse hybrid zone: Comparisons among loci and between transects</td>
<td>* Katherine C. Teeter, Michael W. Nachman, Priscilla K. Tucker. Museum of Zoology, Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. <a href="mailto:kcteeter@umich.edu">kcteeter@umich.edu</a></td>
</tr>
</tbody>
</table>

* student presenter

68
TUESDAY 8:00 – 10:00 Co-evolution

8:00 Newt-snake co-evolution: Match and mismatch at the phenotypic interface

8:15 Is tetrodotoxin a maternally-endowed chemical defense against predation in rough-skinned newt (Taricha granulosa) eggs?

8:30 Diversification of a sodium channel and TTX resistance in a predator-prey interaction

8:45 The evolution of microhabitat specialization in parasitic lice: Character displacement or lineage assortment?

9:00 Phylogenetic perspective on co-evolution of nestling begging signals in parasitic finches and their estrildid finch hosts

9:15 The evolution of New World fig wasp communities

9:30 Host switching, endothermy and the evolution of schistosomes

9:45 Evidence for a global Wolbachia replacement in Drosophila melanogaster

TUESDAY 8:00 – 10:00 Macroevolution/paleontology

8:00 Evolution of hypercarnivory: Specialization, stasis, and the question of directional bias

8:15 Limitations of birth-death models in the analysis of diversification rates

8:30 Macroevolutionary patterns of cetacean life history variation

8:45 Do deviant morphologies last longer in the fossil record? A comparative study using multiple datasets

* student presenter

Wood Center Ballroom


* Elizabeth M. Lehman, Edmund D. Brodie, Jr., Edmund D. Brodie, III. Dept. Biology, Indiana Univ., 1001 E Third St., Bloomington, IN 47405. elehman@bio.indiana.edu

* Shana L. Geffeney, Edmund D. Brodie, III, Edmund D. Brodie, Jr., Peter C. Ruben. Dept. Biology, Utah State Univ., Logan, UT 84322-5305. geffeney@biology.usu.edu

Vincent S. Smith, Kevin P. Johnson. Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820-6970, USA. vsmith@ihns.uiuc.edu

Michael D. Sorenson, Heather C. Shull, Robert B. Payne. Dept. Biology, Boston Univ., Boston, MA 02215. msoren@bu.edu

Wendy A. Marussich, Carlos A. Machado. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. wmarussi@email.arizona.edu

Sara V. Brant, Eric S. Loker. Univ. New Mexico, Dept. Biology, 167 Castetter Hall, Albuquerque, NM 87131. sbrant@unm.edu

Markus Rieger, Manpreet Sidhu, Wolfgang J. Miller, Scott L. O'Neill. School of Integrative Biology, Univ. Queensland, St. Lucia, QLD 4072, Australia. mrieger@uq.edu.au

Gruening 306

* Jill A. Holliday. Florida State Univ., Tallahassee, FL. holliday@bio.fsu.edu

* Daniel L. Rabosky. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca NY 14853-2701. DLR32@cornell.edu

* Samantha A. Price, John, L. Gittleman. Dept. Biology, Univ. Virginia, Charlottesville, Virginia, VA22903. SPrice@virginia.edu

* Lee Hsiang Liow. Committee on Evolutionary Biology, Univ. Chicago, 5734 S. Ellis Ave Chicago IL 60637. lhiow@midway.uchicago.edu
9:00 Understanding the tempo of evolution through simulations of diversification through time

9:15 Correlated evolution of functionally associated morphological characters in *Carboniferous echinoderms*

9:30 Unequal morphological diversification in sister clades of characiform fishes

9:45 Micro-sympatry correlates with rate of morphological evolution in darter fishes (*Teleostei: Percidae*)

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**TUESDAY 8:00 – 10:00 Molecular evolution**

8:00 Latitude and rate of molecular evolution: Frogs closer to the equator evolve faster

8:15 Intraspecific mitochondrial recombination: Mechanisms for resetting Muller's ratchet

8:30 Causes of cis-regulatory polymorphism in humans

8:45 Pervasive adaptive evolution in primate seminal proteins

9:00 Trans-specific evolution of MHC genes in Pacific salmon

9:15 Reconstructing ancestral visual pigments

9:30 Molecular paleontology suggests adaptive evolution of color diversity in corals

9:45 Functional evolution following gene duplication in morning glories

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* Dennis H.J. Wong, Stephen B. Heard. Univ. New Brunswick, Biology Dept., P.O. Bag service 45111, Fredericton, NB Canada, E3B 6E1. gjwzw@unb.ca

* Kimberly S. Koverman. Univ. Chicago, Dept. Geophysical Sciences, 5746 S. Ellis Ave., Chicago, IL 60637. koverman@uchicago.edu

* Brian Sidauskas. Univ. Chicago, Committee on Evolutionary Biology, 1025 E. 57th St., Culver Hall 402, Chicago, IL, 60637. bsl@uchicago.edu

* Rose L. Carlson, Peter C. Wainwright, Thomas J. Near. Center for Population Biology and Section of Evolution and Ecology, Univ. California, Davis, Davis, CA 95616. rcarlson@ucdavis.edu

* Jeremy M. Brown, David P. Bickford. Section of Integrative Biology, Univ. Texas, Austin, TX, 78712. jembrown@mail.utexas.edu

* Gary J. Houliston, Matthew S. Olson. Inst. Arctic Biology, Univ. Alaska, Fairbanks, Fairbanks, AK 99775. fligh@uaf.edu

* Matthew V. Rockman, Gregory A. Wray. Lewis-Sigler Inst. for Integrative Genomics, Princeton Univ., Princeton, NJ 08544, mrockman@princeton.edu

* Nathaniel Clark, Willie J. Swanson. Univ. Washington, Dept. Genome Sciences, 1705 NE Pacific St., HSB K-354, Seattle, WA 98195. clarknh@u.washington.edu

* Andres Aguilar, John Carlos Garza. Dept. Ocean Sciences, UC Santa Cruz, Santa Cruz, CA, 95060. andres.aguilar@noaa.gov

* Belinda Chang, Bradley Chewpoy, Manija Kazmi, Thomas P. Sakmar. Dept. Zoology, Univ. Toronto, Toronto, Canada M5S 3G5. changb@zoo.utoronto.ca

* Steven F. Field, Maria Y. Bulina, Ilya V. Kelmanison, Joseph P. Bielawski, Mikhail V. Matz. Whitney Laboratory for Marine Bioscience, Univ. Florida, 9505 Ocean Shore Blvd, St. Augustine, FL 32080. matz@whitney.ufl.edu

* David L. Des Marais, Mark D. Rauscher. Dept. Biology, Duke Univ., Durham, NC 27708. dld3@duke.edu

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* student presenter
### TUESDAY LATE MORNING, JUNE 14

#### Phylogeography

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Phylogenetic relationship of bovine <em>Babesia</em> in a world-wide collection of isolates</td>
<td>Sigrid Vogl, Monika Zahler-Rinder, Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775, <a href="mailto:sigrid.vogl@alb.alsaka.edu">sigrid.vogl@alb.alsaka.edu</a></td>
</tr>
<tr>
<td>10:45</td>
<td>The origin and diversification of Galapagos Mockingbirds</td>
<td>Brian S. Arbogast, Peter T. Boag, Gilles Seutin, Peter R. Grant, B. Rosemary Grant, Sergei V. Drovetski, Robert L. Curry, Dept. Biological Sciences, Humboldt State Univ., Arcata, CA 95521. <a href="mailto:bsa2@humboldt.edu">bsa2@humboldt.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Genetic differentiation across spatial scales of a leaf litter frog in the upper Amazon</td>
<td>Kathryn R. Elmer, Jose A. Davila, Luis A. Coloma, Stephen C. Lougheed, Dept. Biology, Queen’s University, Kingston, ON K7L 3N6. <a href="mailto:elmerk@biology.queensu.ca">elmerk@biology.queensu.ca</a></td>
</tr>
<tr>
<td>11:15</td>
<td>Deep genealogical history in the zebra-tailed lizard (<em>Callisaurus draconoides</em>) reveals the old age of Baja California</td>
<td>Johan Lindell, Fausto R. Méndez-de la Cruz, Robert W. Murphy, Dept. Natural History, Royal Ontario Museum, 100 Queen’s Park, Toronto, Ontario, M5S 2C6, Canada. <a href="mailto:johan.lindell@utoronto.ca">johan.lindell@utoronto.ca</a></td>
</tr>
<tr>
<td>11:30</td>
<td>Systematics and phylogeography of the mountain-lizard <em>Liolema monticola</em> (<em>Liolemaidae</em>): A case of a polyphyletic group</td>
<td>Fernando Torres-Perez, Juan C. Ortiz, Edgar Benavides, Marco A. Mendez, Madeleine Lambrot, R. Eduardo Palma. Dept. Biology, Univ. New Mexico, MSC03-2020, NM. <a href="mailto:ftorresperez@salud.unm.edu">ftorresperez@salud.unm.edu</a></td>
</tr>
<tr>
<td>11:45</td>
<td>Biogeographic origins of an isolated frog community in lower Central America</td>
<td>Andrew J. Crawford, Carolina Polanía, Ian Wang, Biff Berrington. Smithsonian Tropical Research Inst., Apto. 2072, Balboa, Ancon, Ciudad Panama, Republic of Panama. <a href="mailto:andrew@dna.ac">andrew@dna.ac</a></td>
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#### Ecological genetics

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<tr>
<th>Time</th>
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<tr>
<td>10:30</td>
<td>Genetic integration of traits constrains leaf physiology in males more than in females of <em>Silene latifolia</em></td>
<td>Janet C. Steven, Lynda F. Delph, Edmund D. Brodie III. Dept. Biology, Indiana Univ., Bloomington, IN 47405. <a href="mailto:janestev@indiana.edu">janestev@indiana.edu</a></td>
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<tr>
<td>10:45</td>
<td>Selective sweeps reveal candidate genes for adaptation to drought and salt tolerance in <em>Helianthus annuus</em></td>
<td>Nolan C. Kane, Loren H. Rieseberg. Indiana Univ., Bloomington, IN 47405. <a href="mailto:nkane@indiana.edu">nkane@indiana.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Variation in growth, form, and life history in dwarf and normal pitch pines in the Long Island Pine Barrens</td>
<td>Wei Fang, Daniel R. Taub, Gordon A. Fox, R. Matthew Landis, Jessica Gurevitch. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook NY 11794-5245 USA. <a href="mailto:gurevitch@life.bio.sunysb.edu">gurevitch@life.bio.sunysb.edu</a></td>
</tr>
<tr>
<td>11:15</td>
<td>Evolutionary dynamics of a cytoplasmic male sterility gene in <em>Mimulus guttatus</em>, a wild hermaphroditic plant</td>
<td>Andrea L. Case, John H. Willis. Duke Univ., Biological Sciences, Durham NC 27708. <a href="mailto:acase@duke.edu">acase@duke.edu</a></td>
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* student presenter
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<tr>
<th>11:30</th>
<th>Natural selection on leaf photosynthetic physiology: testing adaptive hypotheses in contrasting environments</th>
<th>Hafiz Maherali, Mark E. Sherrard. Dept. Integrative Biology, Univ. Guelph, Guelph, ON N1G2W1. <a href="mailto:maherali@uoguelph.ca">maherali@uoguelph.ca</a></th>
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<tbody>
<tr>
<td>11:45</td>
<td>Selection in the intertidal: Evolution of the MPI locus in blue mussels</td>
<td>Jay Caponera. School of Marine Sciences, Univ. Maine, Orono, ME 04469. <a href="mailto:jay.caponera@maine.edu">jay.caponera@maine.edu</a></td>
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**TUESDAY 10:30 – 12:00 Co-evolution**

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<tr>
<td>10:45</td>
<td>A polydnavirus paradox: Co-phylogeny and mosaic genomes</td>
<td>James B. Whitfield, Jonathan C. Banks. Dept. Entomology, Univ. Illinois, Urbana, IL, 61801. <a href="mailto:jwhitfield@life.uiuc.edu">jwhitfield@life.uiuc.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Co-evolution of armored scale insects and their flavobacterial primary endosymbionts</td>
<td>Matthew E. Gruwell, Geoffrey E. Morse, Benjamin B. Normark. Entomology Division and OEB Graduate Program, Univ. Massachusetts, Amherst, MA 01003. <a href="mailto:gruwell@psis.umass.edu">gruwell@psis.umass.edu</a></td>
</tr>
<tr>
<td>11:30</td>
<td>Offspring sex ratios from a cross between North American and European populations of a gynodioecious plant</td>
<td>Matthew S. Olson, Gary Houlston, Helena Storchova. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:mattolson@uaf.edu">mattolson@uaf.edu</a></td>
</tr>
<tr>
<td>11:45</td>
<td>Replicated patterns in the geographic mosaic of selection for bird-dispersed pines and Clark's nutcracker</td>
<td>Adam M. Siepielski, Craig W. Benkman. Dept. Zoology and Physiology, The Univ. Wyoming, Laramie WY 82071. <a href="mailto:asiepiel@uwyo.edu">asiepiel@uwyo.edu</a></td>
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**TUESDAY 10:30 – 12:00 Macroevolution/paleontology**

<table>
<thead>
<tr>
<th>10:30</th>
<th>An analysis of metazoan phylogeny based on a region of the clathrin heavy chain gene</th>
<th>Alonso J. Cordoba, Frank E. Anderson. Dept. Zoology, Southern Illinois Univ., Carbondale, IL 62901. <a href="mailto:ajc@siu.edu">ajc@siu.edu</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45</td>
<td>New perspectives on the phylogenetic diversity of mammals</td>
<td>Richard Grenyer. Dept. Biology, Univ. Virginia. <a href="mailto:grenyer@virginia.edu">grenyer@virginia.edu</a></td>
</tr>
<tr>
<td>11:00</td>
<td>Hierarchical patterns in primate diversity skewness: Local communities to world phylogenies</td>
<td>Stephen B. Heard, Graham H. Cox, Rutger Vos. Dept. Biology, Univ. New Brunswick, Fredericton, NB, E3B 6E1, Canada. <a href="mailto:sheard@unb.ca">sheard@unb.ca</a></td>
</tr>
</tbody>
</table>

* student presenter
11:15 New fossil evidence for the timing and pattern of crown clade avian diversification

Julia Clarke, Claudia Tambussi, Jorge Noriega, Gregory Erickson, Richard Ketcham. North Carolina State Univ. and North Carolina Museum of Natural Sciences Raleigh, NC 27695. julia.clarke@ncsu.edu

11:30 Using stochastic models of character evolution and cladogenesis to test key innovation hypotheses

Richard Ree. Field Museum of Natural History, Chicago, IL 60605. rree@fmnh.org

11:45 Testing rates of character change with compatibility: Examples with fossil taxa

Peter J. Wagner. Dept. Geology, Field Museum, Chicago, IL 60615. pwagner@fmnh.org

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**TUESDAY 10:30 – 12:00 Molecular evolution**

**Lee H. Salisbury Theatre**

10:30 Opsin gene structure and function in *Lycaena* species (Lepidoptera)

*N* Nelida B. Pohl, Gary D. Bernard, Adriana D. Briscoe. Ecology and Evolutionary Biology, 321 Steinhaus Hall, Univ. California Irvine, Irvine, CA 92697. npohl@uci.edu

10:45 Evolution of tRNA: A phylogenetic perspective

Feng-Jie Sun, Ajith Harish, Gustavo Caetano-Anolles. Dept. Crop Sciences, Univ. Illinois at Urbana-Champaign, Urbana, IL 61801. fsun@uiuc.edu

11:00 The evolution of simple sequences in proteins: A+T bias, replication, and recombination in the malaria pathogen *P. falciparum*

*M* Martine Zilversmit, Mark A. DePristo, Daniel L. Hartl. Harvard Univ., Dept. Organismic and Evolutionary Biology, Cambridge MA, 02138. martine@oeb.harvard.edu

11:15 Dual nature of human codon bias: RNA selection on a gene by gene basis

* Alexander Platt. Dept. Organismic and Evolutionary Biology, Harvard Univ. Cambridge, MA 02138. aplatt@oeb.harvard.edu

11:30 Mitochondrial genomes of *Vanhornia* sp. and *Primeochroceus* sp.: Evidence of rearranged mitochondrial genomes within Apocrita (Hymenoptera)

* Lyda R. Castro, Mark Dowton. Dept. Biological Sciences, Univ. Wollongong, NSW 2522 Australia. lrc89@uow.edu.au

11:45 Strength of selection against missense mutations in humans

Lev Yampolsky. Dept. Biological Sciences, East Tennessee State Univ., Johnson City TN 37614. yampolsk@etsu.edu

* student presenter
### Phylogeography

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1:30</td>
<td>Phylogeography and repetitive hybridization in sexual Bynoe's geckos (<em>Heteronotia binoci</em>)</td>
<td>Jared L. Strasburg. Indiana Univ., Dept. Biology. <a href="mailto:jstrasbu@indiana.edu">jstrasbu@indiana.edu</a></td>
</tr>
<tr>
<td>1:45</td>
<td>Phylogeography of California voles and an intraspecific zone of contact</td>
<td>Chris J. Conroy, Jennifer Neuwald. Museum of Vertebrate Zoology, UC Berkeley, Berkeley, CA 94720. <a href="mailto:onatra@berkeley.edu">onatra@berkeley.edu</a></td>
</tr>
<tr>
<td>2:00</td>
<td>Mitochondrial and microsatellite data for <em>Anastrepha suspensa</em> (Carib Fly): Implications for Caribbean biogeography</td>
<td>Laura M. Boykin, Robert G. Shatters, Jr., David G. Hall, Ken Hibbard, Ann Fritz. USDA-ARS-USHRL, Ft. Pierce, Florida 34945. <a href="mailto:lboykin@ushrl.ars.usda.gov">lboykin@ushrl.ars.usda.gov</a></td>
</tr>
<tr>
<td>2:15</td>
<td>Deep mitochondrial divergence in spiders (Araneae: <em>Homalonychus</em>) from the Baja Peninsula</td>
<td>Sarah C. Crews, Marshal C. Hedin. UC Berkeley. Division of Insect Biology, 140 Mulford Hall #3114, Berkeley, CA 94720-3114. <a href="mailto:screws@nature.berkeley.edu">screws@nature.berkeley.edu</a></td>
</tr>
<tr>
<td>2:30</td>
<td>Inferring parameters across phylogeographic datasets using approximate Bayesian computation</td>
<td>Mike Hickerson, Eli Staul, Craig Moritz. Museum of Vertebrate Zoology, 3101 Valley Life Sciences Building, Berkeley, California 94720-3160 USA. <a href="mailto:mhick@berkeley.edu">mhick@berkeley.edu</a></td>
</tr>
<tr>
<td>2:45</td>
<td>Phylogeographic structuring of the Australian magpie (<em>Gymnorhina tibicen</em>) due to Pleistocene climate change</td>
<td>Alicia Toon, Jane M. Hughes, A. M. Baker, Peter B. Mather. Centre for Riverine Landscapes, Griffith Univ., Brisbane, 4111, Australia. <a href="mailto:a.toon@griffith.edu.au">a.toon@griffith.edu.au</a></td>
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### Ecological Genetics

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<tbody>
<tr>
<td>1:30</td>
<td>Over the falls? Genetic interactions between anadromous steelhead and resident rainbow trout in a California stream</td>
<td>Devon E. Pearse, Sean A. Hayes, J. Carlos Garza. NOAA Fisheries, Southwest Fisheries Science Center, 110 Shaffer Road, Santa Cruz, CA 95060. <a href="mailto:devon.pearse@noaa.gov">devon.pearse@noaa.gov</a></td>
</tr>
<tr>
<td>1:45</td>
<td>Environmental and population dependency of genetic variability-fitness correlations in <em>Rana temporaria</em></td>
<td>David Lesbarrères, Craig R. Primmer, Anssi Laurila, Juha Merillä. Dept. Biology, Laurentian Univ., Sudbury, Ontario, P3E 2C6. <a href="mailto:dlesbarreres@laurentian.ca">dlesbarreres@laurentian.ca</a></td>
</tr>
<tr>
<td>2:00</td>
<td>Differentiation of venoms among populations of predatory marine snails</td>
<td>Thomas F. Duda, Jr. Univ. Michigan Museum of Zoology, 1109 Geddes Avenue, Ann Arbor, MI 48109. <a href="mailto:tfduda@umich.edu">tfduda@umich.edu</a></td>
</tr>
<tr>
<td>2:15</td>
<td>Genotype x environment interactions and the maintenance of song attractiveness in an acoustic moth</td>
<td>Anne Danielson-Francois, A. Abramovitz, E. Siegfried, M.D. Greenfield. Ecology and Evolutionary Biology Dept., Rice Univ., PO Box 1892, Houston TX 77251-1892. <a href="mailto:danielsn@rice.edu">danielsn@rice.edu</a></td>
</tr>
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</table>

* student presenter
2:30 Evidence for local adaptation among sockeye salmon (*Oncorhynchus nerka*)

Kristina M. Ramstad, Carol A. Woody, Fred W. Allendorf. Division of Biological Sciences, Univ. Montana, Missoula, MT 59812.
kristina.ramstad@msu.umt.edu

2:45 Patterns in foraging mRNA expression in reproductive and migratory monarch butterflies (*Danaus plexippus*)

hkuster@ku.edu

TUESDAY 1:30 – 3:00 Sexual selection

1:30 The function of sexually selected, costly colouration in a dimorphic insect

David Punzalan, Locke Rowe, Helen Rodd. Dept. Zoology, Univ. Toronto. punzalan@zoo.utoronto.ca

1:45 Divergence in Mexican sailfin mollies

Shala J. Hankison. Biological Sciences, Clemson Univ., Clemson, SC 29634. shankis@clemson.edu

2:00 Natural variation in male-induced cost of mating and its association with male reproductive genes in *D. melanogaster*

afl223@cornell.edu

2:15 Male post-copulatory reproductive success in the beetle, *Diaprepes abbreviatus*

lk286@cornell.edu

2:30 Identification of female *Drosophila melanogaster* spermatheca-specific genes undergoing rapid adaptive evolution

Adrienne M. Prokupek, Lawrence G. Harshman, Andy Clark, Min Zhou, Federico Hofman, Etsuko Moriyama. School of Biological Sciences, Univ. Nebraska-Lincoln, Lincoln, NE 68588.
aprokupe@bigred.unl.edu

2:45

TUESDAY 1:30 – 3:00 Co-evolution/Host-parasite interactions

1:30 Bill morphology, niche partitioning, interspecific aggression and the radiation of dabbling ducks

D. Brent Gurd, James K. Kenyon. Biological Sciences, Simon Fraser Univ., Burnaby, B.C. V5A 1S6. dgurd@sfu.ca

1:45 Limiting cheaters in mutualism: Evidence from hybridization between mutualist and cheater yucca moths

Kari A. Segreves, David M. Alhoff, Olle Pellmyr. Dept. Biological Sciences, Univ. Idaho, Moscow, ID 83844-3051. ksegrave@uidaho.edu

2:00 The Danish flea beetle *Phyllotreta nemorum*: From parasitoids to a change in host plant use

Casper J. Breuker, Peter W. de Jong, Kathleen Victoir, Klaas Vrieling, Paul M. Brakefield. Univ. Manchester, Faculty of Life Sciences, Michael Smith Building, Oxford Road, M13 9PT, Manchester. casper.breuker@manchester.ac.uk

* student presenter
2:15 Evolutionary impact of cytoplasmic sex ratio distorters on host reproductive biology

2:30 parasite virulence and host resistance in a community of three slave-making ants and two hosts
Jeremy M. Bono. Dept. Biosciences, Simon Fraser Univ., Burnaby, British Columbia CANADA. jeremy_bono@sfu.ca

2:45 General host-parasite associations and general defenses: Symbionts of the fungus-growing ant Apterostigma dentigerum
Nicole M. Gerardo. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. ngerardo@email.arizona.edu

TUESDAY 1:30 – 3:00 Conservation biology

1:30 Running in and out of the water: The evolution of Hawai'i's unusual aquatic moths (Hyposmocoma)
Daniel Rubinoff. Dept. Plant and Environmental Protection Sciences, Univ. Hawaii, 310 Gilmore Hall, Honolulu, HI 96822. rubinoff@hawaii.edu

1:45 Unique genetic patterns of lake-type and sea-/ river-type sockeye salmon involving recently colonized habitat
* Scott A. Pavey, Troy R. Hamon, Jennifer L. Nielsen. USGS Alaska Science Center, 1011 E. Tudor Rd., Anchorage, AK 99503. scott_pavey@usgs.gov

2:00 A cryptic taxon of Galapagos tortoise in conservation peril
Michael Russello, Scott Glaberman, James P. Gibbs, Cruz Marquez, Jeffrey R. Powell, Adalgisa Caccone. Dept. Ecol. and Evol. Biology, Yale Univ., New Haven, CT 06520. michael.russello@yale.edu

2:15 Population genetics of a threatened plethodontid salamander
* Lauren K. Lucas, Chris C. Nice, Joe N. Fries, Caitlin R. Gabor. Dept. Biology, Texas State Univ.-San Marcos, San Marcos, TX 78666. lucas@txstate.edu

2:30 Anthropogenic fragmentation selects against specific life and natural history traits
* Andrew Van Eck. Dept. Biology, Univ. Washington, 106 Kincaid Hall, Box 351800, Seattle, WA 98195. drewdogy@u.washington.edu

2:45 The importance of ancient history in forest diversity: The case of the Atinian elm

TUESDAY 1:30 – 3:00 Molecular evolution

1:30 Porifera mitochondrial COI intron: A horizontal gene transfer from a fungus donor?
Chagai Rot, Itay Goldfurb, Micha Ilan, Dorothee Huchon. Tel-Aviv Univ. huchon@post.tau.ac.il

1:45 Novel SINEs in lizards and snakes: Powerful molecular markers conquer the second class of amniotes
* Oliver Piskurek, Christopher Austin, Norihiro Okada. Tokyo Inst. Technology, Yokohama, Japan. piskurek@bio.titech.ac.jp

* student presenter
2:00  Genetic diversity and evolutionary history of plant defense genes in two species of *Zea*

David A. Moeller, Peter Tiffin. Dept. Plant Biology, Univ. Minnesota, Saint Paul, MN 55108. moell021@umn.edu

2:15  Tracing coadapted gene complexes to single amino acid substitutions

J. Scott Harrison, Ronald S. Burton. Marine Biology Research Division, Scripps Institution of Oceanography, UCSD, La Jolla, CA 92093-0202. jsharrison@ucsd.edu

2:30  Protein evolution in a metabolic network

*  Kevin M. Wright, Mark D. Rausher. Duke Univ., Dept. Biology, Box 90338, Durham, NC 27708. kmw15@duke.edu

2:45  Molecular evolution and population genetics of human mtDNA: Insight and application relating to forensic identity testing

Thomas J. Parsons. Armed Forces DNA Identification Laboratory, 1413 Research Blvd., Rockville, MD USA 20850. parsons@afip.osd.mil

* student presenter
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<th>Time</th>
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<tr>
<td>3:30</td>
<td>Out of Amazonia again and again: Repeated dispersal across the Andes by a widespread rainforest flycatcher</td>
<td>Matthew J. Miller, Eldredge Bermingham, John Klicka, Fabio Raposo do Amaral, Patricia Escalante P. Kevin Winker. Univ. Alaska Fairbanks. <a href="mailto:ftmj1@uaf.edu">ftmj1@uaf.edu</a></td>
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<tr>
<td>4:00</td>
<td>Ecological drift and the taxon cycle in the lesser antillean avifauna</td>
<td>Kyle G. Dexter. Dept. Biology, Duke Univ., Box 90338, Durham, NC 27708. <a href="mailto:kyle.dexter@duke.edu">kyle.dexter@duke.edu</a></td>
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<tr>
<td>4:30</td>
<td>Colonization patterns in wormsnauls with differing dispersal potential: A Hawaiian tale</td>
<td>Anuschka Faucci, Michael G. Hadfield. Kewalo Marine Lab, Univ. Hawaii Manoa, Honolulu, HI 96813. <a href="mailto:anuschka@hawaii.edu">anuschka@hawaii.edu</a></td>
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<tr>
<td>4:45</td>
<td>Coalescent methods and multiple loci suggest recent colonization of North America by Holarctic Gadwall (Anas strepera)</td>
<td>Jeffrey L. Peters, Kevin E. Omland. Dept. Biological Sciences, Univ. Maryland Baltimore County, Baltimore, MD 21250. <a href="mailto:jpeters1@umbc.edu">jpeters1@umbc.edu</a></td>
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<tr>
<td>3:30</td>
<td>Genetic structure of the Carolina northern flying squirrel (Glaucomys sabrinus coloratus) in the southern Appalachians</td>
<td>Arlena M. Wartell. Inst. Ecology, Univ. Georgia, Athens, GA 30602. <a href="mailto:awartell@uga.edu">awartell@uga.edu</a></td>
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<tr>
<td>3:45</td>
<td>Signatures of divergent selection across a genetic cline in the eastern oyster, Crassostrea virginica</td>
<td>Matthew P. Hare, Maria Murray, Peter Thompson. Dept. Biology, Univ. Maryland, College Park, MD 20742. <a href="mailto:matthare@umd.edu">matthare@umd.edu</a></td>
</tr>
<tr>
<td>4:00</td>
<td>The genetics of a species' range: Phylogeographic and intrapopulation diversity patterns in the five-lined skink</td>
<td>Briar J. Howes, Stephen C. Lougheed. Dept. Biology, Queen's Univ., Kingston, ON K7L 3N6. <a href="mailto:howesb@biology.queensu.ca">howesb@biology.queensu.ca</a></td>
</tr>
<tr>
<td>4:15</td>
<td>Cryptic heterogeneity and population estimates: Effects of partial inbreeding</td>
<td>Douglas G. Scofield. Dept. Biology, Indiana Univ., 1001 E. Third St., Bloomington, IN 47405-7005 USA. <a href="mailto:scofield@bio.indiana.edu">scofield@bio.indiana.edu</a></td>
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<tr>
<td>4:30</td>
<td>Fluctuating selection and adaptive parent-specific genetic effects in side-blotched lizards</td>
<td>Andrew G. McAdam, Barry Sinervo. Dept. Fisheries and Wildlife and Dept. Zoology, Michigan State Univ., East Lansing, MI 48824. <a href="mailto:mcadam@msu.edu">mcadam@msu.edu</a></td>
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* student presenter
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<tr>
<th>Time</th>
<th>Title</th>
<th>Author(s)</th>
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<tr>
<td>3:30</td>
<td>The Bateman Continuum along the progression toward isogamy</td>
<td>* Adam Bjork, Scott Pitnick. Biology Dept., Syracuse Univ., Syracuse, NY 13244. <a href="mailto:acbjork@syr.edu">acbjork@syr.edu</a></td>
<td>Gruening 208</td>
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<tr>
<td>3:45</td>
<td>Maternal behavior influences expression of a sexually selected trait in a leaf-footed bug</td>
<td>* Christine W. Miller. Division of Biological Sciences, Univ. Montana, Missoula, MT 59812. <a href="mailto:christine.miller@mso.umt.edu">christine.miller@mso.umt.edu</a></td>
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<tr>
<td>4:00</td>
<td>Intralocus sexual conflict and the evolution of sexually dimorphic mating signals in <em>Drosophila serrata</em></td>
<td>Stephen F. Chenoweth, M.W. Blows. School of Integrative Biology, Univ. Queensland, St. Lucia, Australia, 4072. <a href="mailto:s.chenoweth@uq.edu.au">s.chenoweth@uq.edu.au</a></td>
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<tr>
<td>4:15</td>
<td>Condition dependent expression of red color differs between stickleback species</td>
<td>Jenny Boughman. Dept Zoology, Univ. Wisconsin-Madison, Madison WI 53706. <a href="mailto:jboughman@wisc.edu">jboughman@wisc.edu</a></td>
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<tr>
<td>4:30</td>
<td>Sensory bias predicts signal divergence in surfperch</td>
<td>Molly Cummings. Section of Integrative Biology, Univ. Texas Austin. <a href="mailto:mcummings@mail.utexas.edu">mcummings@mail.utexas.edu</a></td>
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<tr>
<td>4:45</td>
<td>Dynamics of genetic divergence by sexual conflict</td>
<td>Takehiko I. Hayashi, Sergey Gavrilets. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37996-1610. <a href="mailto:thayashi@utk.edu">thayashi@utk.edu</a></td>
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**TUESDAY 3:30 – 5:00 Host-parasite interactions**

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<th>Time</th>
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<tr>
<td>3:30</td>
<td>Host genetic variation and multiple infections in <em>Daphnia magna</em></td>
<td>Holly H. Ganz, Dieter Ebert. ESPM, UC Berkeley, 137 Mulford Hall, Berkeley, CA 94720-3112. <a href="mailto:hgzan@nature.berkeley.edu">hgzan@nature.berkeley.edu</a></td>
<td>Wood Center Ballroom</td>
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<tr>
<td>3:45</td>
<td>Parasite-mediated disruptive selection in a natural <em>Daphnia</em> population</td>
<td>* Meghan A. Duffly, Chad E. Brassil, Spencer R. Hall. Kellogg Biological Station, 3700 E. Gull Lake Drive, Hickory Corners, MI 49060. <a href="mailto:duffymeg@msu.edu">duffymeg@msu.edu</a></td>
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<tr>
<td>4:00</td>
<td>The effect of host heterogeneity and parasite intragenomic interactions on parasite population structure</td>
<td>Ruth Hamilton, Mike Boots, Steve Paterson. School of Biological Sciences, Univ. Liverpool, Liverpool, UK. <a href="mailto:r.hamilton@sheffield.ac.uk">r.hamilton@sheffield.ac.uk</a></td>
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<tr>
<td>4:15</td>
<td>Ancestral and novel hosts share oviposition stimulants: Experimental support for chemical facilitation of host shifts</td>
<td>* Shannon M. Murphy, Paul P. Feeny. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca, NY, 14853. <a href="mailto:smm40@cornell.edu">smm40@cornell.edu</a></td>
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<td>4:30</td>
<td>Generality of symbiont-mediated resistance to parasitism in <em>Acrithosiphon pism</em></td>
<td>* Kerry M. Oliver, Nancy A. Moran, Martha S. Hunter. Dept. Entomology, Univ. Arizona. <a href="mailto:kmliver@email.arizona.edu">kmliver@email.arizona.edu</a></td>
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<td>4:45</td>
<td>Rapid evolutionary change in a host-symbiont interaction</td>
<td>Andrew R. Weeks, William Harcombe, K. Tracy Reynolds, Michael Turelli, Ary A. Hoffmann. CESAR, Dept. Geneteces, Univ. Melbourne, Parkville, Victoria 3010, Australia. <a href="mailto:ary@unimelb.edu.au">ary@unimelb.edu.au</a></td>
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* student presenter
### Tuesday 3:30 – 5:00 Conservation Biology

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<tr>
<th>Time</th>
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<tr>
<td>3:30</td>
<td>Phylogenetic diversity of genera as a new criterion in conservation planning in the Cape flora of South Africa</td>
<td>Felix Forest, Gail Reeves, Terry Hedderon, Mathieu Rouget, John Manning, Jonathan Davies, Vincent Savolainen. South African National Biodiversity Inst., Kirstenbosch Research Centre. <a href="mailto:forest@sanbt.org">forest@sanbt.org</a></td>
</tr>
<tr>
<td>3:45</td>
<td>Conservation status and phylogeography of Cowhead Lake tui chubs in the Northern Great Basin</td>
<td>Yongjiu Chen, Stewart Reid, Bernie May. Dept. Animal Science, UC Davis. <a href="mailto:yzzchen@ucdavis.edu">yzzchen@ucdavis.edu</a></td>
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<tr>
<td>4:00</td>
<td>Evaluation of baseline population genetic parameters of Tahoe Basin fish and amphibians using archival specimens</td>
<td>Evon R. Hekkala, Mark Bagley, Suzanne Jackson, Annette Roth. US EPA 26 Martin Luther King, Cincinnati, OH 45268. <a href="mailto:Hekkala.evon@epa.gov">Hekkala.evon@epa.gov</a></td>
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<tr>
<td>4:15</td>
<td>Examination of genetic structure in a threatened frog species (Rana boylii)</td>
<td>Jennifer Dever, Joseph Poch. Univ. San Francisco, 2130 Fulton Street, San Francisco, CA 94117. <a href="mailto:dever@usfca.edu">dever@usfca.edu</a></td>
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<tr>
<td>4:30</td>
<td>An EST-SSR based approach to studying population genetics of an endangered sunflower</td>
<td>Jennifer Ellis, Catherine H. Pashley, David E. McCauley. Dept. Biological Sciences, Vanderbilt Univ., Nashville, TN 37235. <a href="mailto:jennifer.ellis@vanderbilt.edu">jennifer.ellis@vanderbilt.edu</a></td>
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<tr>
<td>4:45</td>
<td>DNA barcoding: Boon or boondoggle?</td>
<td>Zach Gompert, Matt Forister, Jim Fordyce, Chris Nice. Dept. Biology, Texas State Univ.-San Marcos, San Marcos, TX 78666. <a href="mailto:zg1002@txstate.edu">zg1002@txstate.edu</a></td>
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### Tuesday 3:30 – 5:00 Molecular Evolution

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<tr>
<td>3:30</td>
<td>Altered gene expression in Drosophila hybrids</td>
<td>Amanda J. Moehring, Mohamed A. F. Noor. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. <a href="mailto:ajmoehring@gmail.com">ajmoehring@gmail.com</a></td>
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<tr>
<td>3:45</td>
<td>Nucleotide sequence variation in 3 loci in cultivated and wild avocados (Persea americana)</td>
<td>Haofeng Chen, Peter L. Morrell, Michael T. Clegg. Dept. Ecology and Evolutionary Biology, Univ. California, Irvine, CA 92607. <a href="mailto:haofengchen@yahoo.com">haofengchen@yahoo.com</a></td>
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<tr>
<td>4:00</td>
<td>Genome wide analysis of DNA uptake signal sequences in bacteria</td>
<td>Mohammed Bakkali. Inst. Genetics, Univ. Nottingham, Queen's Medical Centre, Nottingham, NG7 2UH, England. <a href="mailto:M.Bakkali@nottingham.ac.uk">M.Bakkali@nottingham.ac.uk</a></td>
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<tr>
<td>4:15</td>
<td>Variability of microsatellites in coding regions of Dictyostelium discoideum</td>
<td>Clea Scala, Natasha J. Mehdiabadi, Joan E. Strassmann, David C. Queller. Rice University, Ecology and Evolutionary Biology, MS170, 133 Anderson Biolabs, 6100 Main Street, Houston, TX 77005. <a href="mailto:clea@rice.edu">clea@rice.edu</a></td>
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* student presenter
Saturday Posters - Undergraduate

S1  Cooperation and conflict in *Dictyostelium purpureum*  
* Dulce Carbajal, Chandra Jack, Joan Strassmann, David Queller. Ecology and Evolution, Rice Univ., Houston, TX 77005. dolce2003@hotmail.com

S2  Kin recognition in the social amoeba, *Dictyostelium purpureum*  
* Chandra N. Jack, Tiffany Talley-Farnham, Natasha J. Mehdiaabadi, Thomas G. Platt, David C. Queller, Joan E. Strassmann. Ecology and Evolutionary, Rice Univ., Houston, TX 77005. charnj@rice.edu

S3  A new, internet-based software program for estimating effective population size  
* Alec Bennett, Ally Koyuk, David A. Tallmon. Biology Program, Univ. Alaska Southeast, Juneau, AK 99801. alecbennett@hotmail.com

S4  Evolution of wing shape in Blepharoneura (Diptera: Tephritidae)  
* Sara Marsteller, Darrin Bann, Dean Adams, Matthew Lewis, Sonja Scheffer, Susuan Swensen, Marty Condon. Dept. Biology, Cornell College, Mt. Vernon, IA 52314. s-marsteller@cornellcollege.edu

S5  Population subdivisions of the cuttlefish Sepia officinalis in the North East Atlantic  
* Mark Joseph Nolte, Marcos Perez-Losada, Keith A. Crandall. 1748 S. 750 East, Orem UT 84097. menolte@hotmail.com

S6  Development of a microarray for mRNA expression in *Piriqueta caroliniana*  
* Heather de Glanville, Mitchell B. Cruzan, Portland State Univ., Dept. Biology, P.O Box 751, Portland, OR 97207. hdeglan@hotmail.com

S7  Geographic variation for ethanol preference in *Drosophila pseudoobscura*  
* Eric T. Watson, Daniel Ortiz-Barrientos, Mohamed A. F. Noor. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70809. ewatso4@lsu.edu

S8  Nuclear GBSSI sequences suggest hybrid origins for *Mentha canadensis* and *M. spicata*  
* Natalina E. Elliott, Jiranan Bunsawat, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101. natalina.elliott@wk.edu

S9  Characterization of a contact zone between two species of chipmunks (*Tamias*)  
* Alicia M. Hipp, John R. Dembowski. Biological Sciences, California Polytechnic Univ. Pomona, Pomona CA 91768. aliciahipp@hotmail.com

S10  Do migration corridors facilitate the dispersal of invasive species?  
* Trieste S. Dobberstein, Alisa P. Ramakrishnan. Biology Dept., Portland State Univ., Portland, OR 97201. triested@gmail.com

S11  Effects of inbreeding on fecundity and heat tolerance of *Heterorhabditis bacteriophora* and *Steinernema carpocapsae*  
* John M. Chaston, Adler R. Dillman, Byron J. Adams. Nematode Evolution Laboratory, Brigham Young Univ., Provo, UT 84602. johnnye@byu.edu

* student presenter
S12 DNA barcoding and the evolution of a unique breeding system in *Mystrium* ants of Madagascar

* Natalie MacCallum, Brian Fisher, Gary Ouellette, Derek Girman. Dept. Biology, Sonoma State Univ. Grahamn@sonoma.edu

S13 Identification of rapidly evolving proteins in the *Peromyscus placenta*

* Edward B. Chuong, Michael J. Dewey, Paul B. Vrana, Hopi E. Hoekstra. Division of Biological Sciences, Univ. California San Diego, La Jolla, CA 92093. echuong@ucsd.edu

S14 A degenerate PCR survey of L1 element lineages in amphibian and reptilian genomes

* Megan E. Galvin, David D. Duvernell. Dept. Biological Sciences, Southern Illinois Univ. Edwardsville, Edwardsville, IL 62026. mgalvin@siue.edu

S15 Adaptation of physiochemical properties of competing proteins TNF-a and LTA

* Raymond W. Grams II, David A. McClellan. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. rwg24@email.byu.edu

S16 Complete mitochondrial genome sequences for four bryozoan species

* Tori L. Takaoa, Kevin G. Helfenstein, Jeffrey L. Boore, Monica Medina. Joint Genome Inst. and Berkeley Lab, 2800 Mitchell Drive, Walnut Creek, CA 94547. ttakaoa@lbl.gov

S17 Patterns of selection and phenotypic plasticity of native and novel populations of *Mimulus guttatus*

* Cynthia Chang, Courtney Murren, Michele Dudash. 4230 Knox Road, 1313A Commons Building One, College Park, MD 20740. cynthia.chang@gmail.com

S18 Inferring the propensity to invade: Contrasts between sympatric invasive and noninvasive populations of a copepod

* Daniel Allen Skelly, Gesche Winkler, Carol Eunmi Lee. Dept. Zoology, Univ. Wisconsin - Madison, Madison, WI, 53706. daskelly@wisc.edu

S19 Which markers are best for resolving the phylogeny of *Andrena* (Hymenoptera: Andrenidae)?

* Alicia M. Hodson, Tom Pohl, Leah L. Larkin. Dept. Biology, Univ. New Mexico, Albuquerque, NM 87131. alicia21@unm.edu

S20 Small-scale phylogeography of Galapagos lava lizards: Patterns of colonization and demographic history

* Rebecca Baum, Howard Snell, Jack W. Sites, Edgar Benavides. Brigham Young Univ., Provo, UT 84602. rbaum@email.byu.edu

S21 Phylogeography of an intertidal barnacle and its gastropod predator in the Gulf of California

* Qiming Deng, Chet Fornari, Paula Evans, Wade Hazel. Dept. Biology, DePauw Univ., Greencastle, IN 46135. qdeng@depauw.edu

S22 Phylogeny of burrowing crayfish of the genus *Falicambarus*

* Timothy O'Connor, Keith Crandall. Brigham Young Univ., Provo, UT 84602. tdoconnor@byu.edu

S23 Taxonomic status and phylogenetic affinity of an invasive blackberry in South Africa

* Brittany L. Sutherland, Cheryl Lennox, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., 1 Big Red Way, Bowling Green, KY 42101. suthebl@wkul.edu

S24 Nucleotide diversity in poplar from Ontario to Alaska's North Slope

* Elise K. Glenn, Amy B. Carroll, Adam T. Yeager, Matthew S. Olson. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fsekg@uaf.edu

* student presenter
S25 Influence of genetic system on the evolution of female preference by the Fisher Process
* Fiona Smyth, Kim van der Linde, David Houle. Biological Dept, Florida State Univ., Tallahassee, FL, 32306. fes4564@fsu.edu

S26 Geographic variation in the short song of eastern Oregon Brewer's Sparrows
* Benjamin Stoner-Duncan. Reed College Portland, OR 97202. benstonerduncan@hotmail.com

S27 Speciation of non-pollinating fig wasps
* Erika Blackwell, Summer Silvieux, George Weiblen. Dept. Biosciences, Simon Fraser University, Burnaby, BC V5A 1S6. blac0206@umn.edu

S28 Patterns of gene duplication and natural selection in a mussel gamete recognition gene
* Duane Wang, C. Riginos. Dept. Biology, Duke Univ., Durham NC, 27708. dw39@duke.edu

S29 Latest battle in the "war of the iguanas": Weighing in with nuclear DNA sequence data
* Jeff M. Sabey, Larry Buckley, Catherine L. Stephen. Dept. Biology, School of Science and Health, Utah Valley State College, Orem, UT 84058. jeff_sabey@yahoo.com

S30 Phylogeny of sap beetles (Coleoptera: Nitidulidae): Deciphering patterns of host shifts
* Matthew J. Moulton, Andrew R. Cline, Michael F. Whiting. Dept. Integrative Biology, Brigham Young Univ., Provo, Utah. mattmoulton@byu.edu

S31 Protecting rare Astragalus species of the North Rim of the Grand Canyon
* Dan Chappell. Dept. Microbiology and Molecular Biology, Brigham Young Univ., Provo, UT 84602. chappell_daniel@hotmail.com

Saturday Posters - 2005 Undergraduate Diversity at SSB/SSE

S32 Targeting color pattern loci in Heliconius erato with Bulk Segregant Analysis

S33 Comparing the human and chimp genomes: Pseudogenation in the chimp
* Lee Shou Long Clarke. Cornell Univ. le263@cornell.edu

S34 Contrasting patterns of gene flow and population structure in different mosquito species in the Sonoran Desert
* Carlos Flores, Therese Ann Markow. Dept. Ecology and Evolutionary Biology, Univ. Arizona. cfloresl@email.arizona.edu

S35 Phylogeographic patterns of Caribbean wetland species

S36 Microsatellite fingerprinting of the male hawksbill turtle aggregation on Mona Island, Puerto Rico

S37 Findings of glomalin in the epiphytic soils of bromeliads
* Linh Vuong, P. Wimberger, J. Espele, T. Wood. Univ. Puget Sound. lvuong@ups.edu

S38 Evolutionary rates in human disease genes
* Leslie Herrmann, Molly Przeworski. Brown Univ. Leslie_Herrmann@brown.edu

* student presenter
S39 Prey locating behavior of the common vampire bat (*Desmodus rotundus*)
* Joseph W Bahlman, Douglas A. Kelt. Dept. Wildlife, Fish, and Conservation Biology, UC-Davis, Davis, CA 95615. jwbahlman@ucdavis.edu

S40 Predicting katydid (*Tettigoniidae*) and grasshopper (*Acrididae*) abundance in managed conservation reserve program grasslands: A test of the phylogenetic constraint hypothesis
* Jerod D. Romine, Jon C. Gering. Biology Discipline, Division of Science, Truman State Univ. Kirksville, MO 63501. d2146@truman.edu

S41 Reconstructing the phylogeography of the Chilean fish *Trichomycterus aerolatus*
* Andre Bennin, Evelyn Habit, Pedro Victoriano, Jerald Johnson. Brigham Young Univ., Provo, UT dre_bennin@byu.edu

S42 A refuge divided: Phylogeographic structure of the lesser treefrog (*Hyla minuta*) in the Guiana Shield
* Monty Hawkins, Brice P. Noonan. Brigham Young Univ., Provo, UT 84602. hmonty@gmail.com

S43 Population genetics of the origin of weedy rye populations in the Western United States
* Sky Lee, Jutta Burger, Norman Ellstrand. Dept. Botany and Plant Sciences, Univ. California-Riverside, Riverside, CA 92521. slee001@student.ucr.edu

S44 Discovery of host specific tropical fruit flies: Behavioral and molecular evidence
* Francisco Serna, Kacie Flaherty, John Gammons, Jessica Johnson, Matt Lewis, Sonja Scheffer, Marta Condon. Dept. Biology, Cornell College. f-serma@cornellcollege.edu

S45 Mc1r nucleotide variation underlying adaptive coloration in beach mice (*Peromyscus polionotus*)
* Linda M. Boettger, Hopi E. Hockstra. Division of Biological Sciences, Univ. California San Diego, La Jolla, CA 92093. lboettge@ucsd.edu

Saturday Posters - Adaptation

S46 Resolution of potential ant costs to *Acacia constricta* reproduction
* E. Fleur Nicklen, Diane Wagner. Inst. Arctic Biology, Univ. Alaska Fairbanks. Fairbanks, AK 99775. fefin@uaf.edu

S47 Adaptive morphological divergence in the Gold-breast Splitfin, *Ilyodon furciden*

S48 Spectral iridescence in Coleoptera: Optical mechanisms and evolutionary significance
* Ainsley E. Seago. Dept. Environmental Science, Policy, and Management, Univ. California, Berkeley CA 94720-3112. seago@nature.berkeley.edu

S49 Developmental instability, mutation, and hormesis: Contributors to adaptability in stressful conditions?
James N. Thompson Jr., R.C. Woodruff, Clayton Hallman, Andrew Miller, Elizabeth Morgan, Diane Jackson, Jeremy Madrid. Dept. Zoology, Univ. Oklahoma, Norman, OK 73019. jthompson@ou.edu

S50 A case study of a newly duplicated gene and sex-limited expression
* J. Roman Arguello. Univ. Chicago, Chicago, IL 60637. arguello@uchicago.edu

* student presenter 84
S51 Adaptive responses to flooding conditions within the Piriiqueta caroliniana complex

Bryan R. Benz. Biology Dept., Portland State Univ., Portland, Oregon 97201. brynbens@cs.com

S52 The role of behavior in evolution: An empirical example in a passerine bird

* Renee A. Duckworth. Biology Dept., Duke University, Durham, NC 27708. rad3@duke.edu

S53 An aquatic experimental system for assessing the relationship between genetic diversity and population persistence

Jeffrey A. Markert, Mark Bagley, Diane Nacci. Molecular Ecology Research Branch, ORISE/EPA. markert@fastmail.fm

S54 A model for steep marine clines where coastal currents converge

Matthew P. Hare, Christopher Guenther, William F. Fagan. Dept. Biology, Univ. Maryland, College Park, MD 20742. matthare@umd.edu

S55 The effect of herbivory upon raphide levels in fireweed (Chamerion angustifolium Onagraceae)

Todd Schweitzer, Kristina Jones, Robin Bingham, Jennie Reithel. Dept. Natural and Environmental Sciences, Western State College, Gunnison, CO 81231. rbingham@western.edu

S56 Genetic and environmental influences on latitudinal variation in sexual dimorphism in the medaka fish

Kazunori Yamahira. Dept. Environmental Science, Niigata Univ. yamahira@env.sc.niigata-u.ac.jp

S57 Adaptive trait introgression in Helianthus: Selection on abiotic traits in experimental hybrids

* Rebecca A. Randell, Ken. D. Whitney, Amanda L. Posto, Loren H. Rieseberg. Dept. Biology, Indiana Univ., Bloomington, IN 47405. rrandell@indiana.edu

Saturday Posters - Animal mating/breeding systems

S58 Associative overdominance reduces inbred male fitness and helps maintain androdiocy in the shrimp Eulimadia texana

Stephen C. Weeks, Thomas F. Sanderson. Dept. Biology, The Univ. Akron, Akron, OH 44325-3908. scw@uakron.edu

S59 Calling behavior differences among the different morphs of the flight-muscle polymorphic cricket Gryllus firmus

* Chandreyee Mitra, William E. Wagner, Jr., Anthony J. Zera, Andrew J. Tyre. School of Biological Sciences, Univ. Nebraska - Lincoln, Lincoln, NE 68588-0118.

S60 Condition-dependent genetic complementarity in mate choice of a passerine bird

Kevin P. Oh, Alexander V. Badyaev. Univ. Arizona, 1041 E Lowell St, BSW 310, Tucson, AZ 85721-0088. koh@email.arizona.edu

S61 Survival rate to fledging as a function of clutch size in 60 species of altricialous birds from BBIRD database

* Jennifer Whittington, Lev Yampolsky, Thomas Martin. Dept. Biological Sciences, East Tennessee State Univ., Johnson City TN 37614-1710. ZJMW33@imail.etsu.edu

Saturday Posters - Behavior/social evolution

S62 Variation in spatial learning ability of wild Trinidadian guppies

* James G. Burns, F. Helen Rodd, James D. Thomson. Dept. Zoology, Univ. Toronto, Toronto ON, Canada. jgburns@zoo.utoronto.ca

* student presenter 85
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<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>S63</td>
<td>A cost to chimerism in <em>Dictyostelium discoideum</em> on natural substrates</td>
<td>David I. Castillo, Ghislaine T. Switz, Kevin R. Foster, David C. Queller, Joan E. Strassmann. Rice Univ., Dept. Ecology and Evolutionary Biology, 6100 Main Street MS 170, Houston, TX 77005. <a href="mailto:navais@rice.edu">navais@rice.edu</a></td>
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<tr>
<td>S64</td>
<td>Mate choice based on call similarity in budgerigars (<em>Melopsittacus undulatus</em>)</td>
<td>Marin L. Moravec, Nancy T. Burley, Georg F. Striedter. 321 Steinhaus Hall, Univ. California, Irvine, Irvine, CA 92697. <a href="mailto:moravecm@uci.edu">moravecm@uci.edu</a></td>
</tr>
<tr>
<td>S65</td>
<td>Genetic variation in courtship songs among geographically isolated populations of <em>Drosophila mojavensis</em></td>
<td>Ken Over, Cassia Cardoso de Oliveira, Michael G. Ritchie. Univ. Arkansas. <a href="mailto:cdeolive@uark.edu">cdeolive@uark.edu</a></td>
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**Saturday Posters - Conservation biology**

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<th>Session</th>
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<tr>
<td>S66</td>
<td>Behavioural responses of bandicoots to the odour of introduced and native Australian predators</td>
<td>Benjamin G. Russell, Peter B. Banks. School of BEES, Univ. NSW, Kensington, NSW 2052. <a href="mailto:b.russell@student.unsw.edu.au">b.russell@student.unsw.edu.au</a></td>
</tr>
<tr>
<td>S67</td>
<td>Genetic patterns of differentiation in five landbird species from the Queen Charlotte Islands, British Columbia</td>
<td>Carrie M. Topp, Kevin Winker. Univ. Alaska Museum, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:fscmn@uaaf.edu">fscmn@uaaf.edu</a></td>
</tr>
<tr>
<td>S68</td>
<td>Genetic and demographic factors in the conservation of the alligator snapping turtle</td>
<td>Amaris L. Swann, Lisa M. Meffert. Dept. EEB, Rice Univ., Houston, TX 77005. <a href="mailto:amswann@rice.edu">amswann@rice.edu</a></td>
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<tr>
<td>S69</td>
<td>Demographic analysis of a wild lemur population (<em>Propithecus verreauxi</em>)</td>
<td>Richard R Lawler, Alison F. Richard, Robert E. Dewar, Christine M. Hunter, Hal Caswell. Woods Hole Oceanographic Institution. <a href="mailto:richard.lawler@yale.edu">richard.lawler@yale.edu</a></td>
</tr>
<tr>
<td>S70</td>
<td>Experimental tests of the effects of supportive breeding on wild populations</td>
<td>Autumn N. Hardin, Lisa M. Meffert. Rice Univ., Dept. EEB, Houston, TX 77005. <a href="mailto:autumn@rice.edu">autumn@rice.edu</a></td>
</tr>
<tr>
<td>S71</td>
<td>Gene flow in populations of Mexican Duck <em>Anas diazi</em> of Zacatecano Plateau, Mexico</td>
<td>Marisa M. Reyes, Jose I. Gonzales, Carmen M. de la Peña, Patricio Tavizon. Unidad Académica de Biología Experimental, Universidad Autonoma de Zacatecas, AP 84, Guadalupes, Zacatecas, Mex. 98600. <a href="mailto:mmerecano@cantera.reduaz.mx">mmerecano@cantera.reduaz.mx</a></td>
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<tr>
<td>S72</td>
<td>Monitoring population dynamics of the endangered Amur tiger using molecular scatology</td>
<td>Rebecca Catapano-Friedman, Liza Young, Dale Miquelle, Adalgisa Caccone, Michael Russello. Dept. Ecol. and Evol. Biology, Yale Univ., New Haven, CT 06520. <a href="mailto:michael.russello@yale.edu">michael.russello@yale.edu</a></td>
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<tr>
<td>S73</td>
<td>Will biodiversity hotspots conserve extra evolutionary history?</td>
<td>Miles Spathelf, Thomas A. Waite. Ohio State Univ., Columbus, OH 43210. <a href="mailto:waite.1@osu.edu">waite.1@osu.edu</a></td>
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<tr>
<td>S74</td>
<td>Economic prosperity, biodiversity conservation, and the environmental Kuznets curve</td>
<td>Julianne Mills, Thomas A. Waite. Ohio State Univ., Columbus, OH 43210. <a href="mailto:waite.1@osu.edu">waite.1@osu.edu</a></td>
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* student presenter
Saturday Posters - Invasive species

S75 The loricariid catfishes in Florida: Systematics and adaptation of exotic species
   Ramon Ruiz-Carus, Harry J. Grier. FWC, Fish and Wildlife Research Inst., 100 Eighth Ave. SE, St. Petersburg, FL 33701-5020. ramon.Ruiz-Carus@myfwc.com

S76 Trapping of aphids (Homoptera: Aphididae) in Alaskan agricultural crops: A preliminary account
   Aaron M. Hagerty, Alberto Pantoja, Todd Adams. USDA-ARS, Subarctic Research Unit, Univ. Alaska, Fairbanks, Fairbanks, AK 99775. fftamh1@uaf.edu

S77 Zebra mussels and the genus Dreissena: Evolution in a cradle of invasive species
   Gregory W. Gelembiuk, Gemma E. May, Marina I. Orlova, Vadim E. Panov, Carol Eummi Lee. Dept. Zoology, Univ. Wisconsin - Madison, Madison, WI 53706. gelembiuk@gwmadison.wisc.edu

S78 Discovering the origin(s) of a recent and rapidly spreading invasive grass: A phylogeographic analysis
   David M. Rosenthal, Alisa P. Ramakrishnan, Mitch B. Cruzan. Dept. Biology, Portland State Univ., Portland OR 97207. drosen@pdx.edu

S79 Estimating genetic diversity of canadian thistle within Theodore Roosevelt National Park
   Jennifer Rothhouse, Tracey A. Bodo Slotta. 1605 Albrecht Blvd., Fargo, ND 58105-5674. slottatat.fargo.ars.usda.gov

S80 The influence of arbuscular mycorrhizal fungi on Bromus tectorum and Paspopyrum smithii growth and competition
   * Caley K. Gasch, Robin A. Bingham. Dept. Natural and Environmental Sciences, Western State College, Gunnison, CO 81231. caley.gasch@western.edu

Saturday Posters - Phylogeography

S81 Phylogeography of Mycorrhizal Hypogeous fungi in Alaska: A molecular approach to the study of mycoPhagy
   * B. Luke Bruner, Lee Taylor, Gary Laursen, Link Olson. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. flblb1@uaf.edu

S82 Geographic structure and evolutionary history of the green iguana, Iguana iguana
   Catherine L Stephen, CR Hashun, VH Reyonosono, T Guerra, C Ingram, JF Taylor, SK Davis. Dept. Biology, Utah Valley State College, Orem, UT 84058. stepheca@uvsc.edu

S83 Origins of the Australian freshwater shrimp genus Caridina (Decapoda: Atyidae)
   * Timothy J. Page, Jane M. Hughes. CRC for Freshwater Ecology, Faculty of Environmental Sciences, Griffith Univ., Nathan, QLD, 4111, Australia. t.page@griffith.edu.au

S84 Phylogeographic history and parallel evolution in a complex of Appalachian salamanders
   * Nathan D. Jackson, Joe Bernardo, Keith A. Crandall. Museum of Natural Science and Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. njacks4@lsu.edu

S85 Phylogeography and genetic structure of the Patagonian lizard Ctenemidophorus longicaudus (Squamata, Teiidae)
   * Martha M. Yoke, Mariana Morando, Luciano J. Avila, Jack W. Sites, Jr. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. martha.yoke@gmail.com

* student presenter 87
**Intriguing pattern of genetic divergence in a Malagasy frog**

Melissa M. Burns, John E. Cadle, Roberta J. Mason-Gamer. Univ. Illinois at Chicago, Dept. Biological Sciences, M/C 066, 845 West Taylor Street, Chicago, IL 60607. mburns7@uic.edu

Matthew L. Lewis, Sonja J. Scheaffer. Systematic Entomology Lab, USDA-ARS, Bld. 005, Rm. 137, BARC-W, 10300 Baltimore Av., Beltsville, MD 20705. mlewis@sel.barc.usda.gov

**Phylogeography and Wolbachia infection status in the leafminer Liriomyza sativae (Diptera: Agromyzidae)**

* Kevin W. Ellis, John R. Denboski. California State Polytechnic Univ., Pomona, Pomona, CA 91768. kwellis@csupomona.edu

**Phylogeography of Merriam's chipmunk and possible zones of hybridization**

Michael N Dawson, Alex Sen Gupta, Matthew H. England. Evolution and Ecology, Univ. California, Davis, CA 95616. mndawson@ucdavis.edu

**Global ocean model and molecular genetic analyses identify multiple introductions of cryptogenic species**

* Andrew G. Hope, Natalie G. Dawson, Steve O. MacDonald, Joseph A. Cook. Dept. Biology and Museum of Southwestern Biology, Univ. New Mexico, Albuquerque, New Mexico 87131. ahope@unm.edu

**Historical biogeography of the Alexander Archipelago**

Sayantani Bhattacharya, Andrea Sequeira. Wellesley College, Wellesley MA 02481. aseque@wellesley.edu

**Comparative phylogeography and historical demography in endemic weevils from the Galapagos archipelago**

Gillian Rhett, Ripan Malhi, Alison Bell. Trace Genetics, 4655 Meade Street, Suite 300, Richmond, CA 94804, USA. gillian@tracegenetics.com

**Postglacial expansion of threespined stickleback populations in Scotland: Analysis of mitochondrial DNA**

Michael E. Ahrens, D. DeWayne Shoemaker. Dept. Entomology, Univ. Wisconsin, Madison, WI 5306. dshoemak@entomology.wisc.edu

**Phylogeographic structure of the fire ant Solenopsis invicta in its native South American range**

Nancy Rotzel, Scott Edwards, Peter Beerli. Harvard Univ., Museum of Comparative Zoology Labs, 26 Oxford Street, Cambridge MA 02138. mrotzel@oeb.harvard.edu

**Multilocus population genetics and phylogeography of Australian Treecreepers (Climacteris picumnus and melanura)**

John G. Swallow, Lisa E. Wallace, Sarah J. Christianson, Philip M. Johns, Gerald S. Wilkinson. Dept. Biology, Univ. South Dakota, Vermillion, SD 57069. js swallow@usd.edu

**Ancient DNA reveals dynamic genetic structure in a montane ground squirrel**

* Kim O’Keefe, Marcel van Tuinen, Elizabeth Hadly. Dept. Biological Sciences, Stanford Univ. mv tuin en@stanford.edu

**Molecular divergence and morphological stasis among populations of sexually dimorphic stalk-eyed flies**

Gabriela Icharguari. Dept. Biology, Queen’s Univ., Kingston, ON, K7L 3N6. gibarguari@biology.ca

**Ecological equivalence ‘distance’: Quantifying the ‘barrier’ effect of mountains**

* Ryan P. Kelly, Douglas J. Eernisse. Columbia Univ. and American Museum of Natural History, New York, NY, 10025. rp k2001@columbia.edu

**Comparative phylogeography of some West Coast Chiton (Mollusea: Polyplacophora) species**
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<th>Authors/Institution</th>
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<tr>
<td>S99</td>
<td>Transberingian colonizations, glacial refugia and the evolutionary history of North American Mustelinae</td>
<td>Melissa A. Fleming, Joseph A. Cook. Museum of Southwestern Biology, Univ. New Mexico, Albuquerque, NM 87131. <a href="mailto:mafleming@myuw.net">mafleming@myuw.net</a></td>
</tr>
<tr>
<td>S101</td>
<td>Geographic partitioning of genetic variation in a dominant riparian tree: Populus fremontii</td>
<td>Barbara Honchak, Gery Allan, Thomas Whitham, Stephen Shuster, Paul Keim. 1550 N. Fort Valley Rd, Apt. 5 Flagstaff Az 86001. <a href="mailto:bmh43@dana.ucc.nau.edu">bmh43@dana.ucc.nau.edu</a></td>
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<tr>
<td>S102</td>
<td>Selfing, inbreeding depression, and autopolyplid establishment</td>
<td>Joseph H. Rausch, Martin T. Morgan. School of Biological Sciences, Washington State Univ., Pullman, WA 99164-4236. <a href="mailto:jrausch@wsu.edu">jrausch@wsu.edu</a></td>
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<tr>
<td>S103</td>
<td>Molecular evolution of S locus in Alaskan Arabidopsis lyrata</td>
<td>Naoki Takebayashi, Diana Wolf. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:flint@uaf.edu">flint@uaf.edu</a></td>
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<tr>
<td>S104</td>
<td>Quantifying the effect of pollinator sharing on plant mating patterns: A multi-species approach</td>
<td>Rebecca J. Flanagan, Jeffrey D. Karron, Randall J. Mitchell, John M. Bell. Dept. Biological Sciences, Univ. Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201. <a href="mailto:flanagan2@uw.edu">flanagan2@uw.edu</a></td>
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**Saturday Posters - Plant mating systems**

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<th>Reference</th>
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<tr>
<td>S105</td>
<td>Mixed-stock analysis of harbor porpoises (Phocoena phocoena) along the U.S. mid-Atlantic coast using microsatellite DNA</td>
<td>Kristine O. Hiltunen, Patricia E. Rosel. College of Charleston, Charleston, SC and NOAA Fisheries, Southeast Science Fisheries Center, Lafayette, LA. <a href="mailto:kristine.hiltunen@noaa.gov">kristine.hiltunen@noaa.gov</a></td>
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<tr>
<td>S106</td>
<td>Population genetics of spiny spider crabs in Spain</td>
<td>Graciela Sotelo, Paloma Moran, David Posada. Facultad de Biologica, Universidad de Vigo, 36310 Vigo, Spain. <a href="mailto:dposada@uvigo.es">dposada@uvigo.es</a></td>
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<tr>
<td>S107</td>
<td>A test of divergence across ecotones: Forest and grassland forms of the deer mouse, Peromyscus maniculatus</td>
<td>Jay F. Storz. Dept. Biology, Univ. Nebraska. <a href="mailto:storz@fsu.edu">storz@fsu.edu</a></td>
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<tr>
<td>S108</td>
<td>Fine-scale genetic structure and gene flow in four populations of northern foxtail pine</td>
<td>Andrew J. Eckert, Melissa L. Eckert, Seungyoo Hwang, Joy K. West, Benjamin D. Hall. Dept. Biology, Univ. Washington, Seattle, WA 98195. <a href="mailto:aje2@u.washington.edu">aje2@u.washington.edu</a></td>
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<tr>
<td>S109</td>
<td>Determining genetic structure of the foothill yellow-legged frog (Rana boylii) using RAPD markers</td>
<td>Joseph A Poch, Jennifer A Dever. Univ. San Francisco, 2130 Fulton St, San Francisco, CA 94117. <a href="mailto:jpoch@usfca.edu">jpoch@usfca.edu</a></td>
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* student presenter
S110 Population genetics of *Terebratella sanguinea* in the New Zealand fiords: Structure and potential hydrographic influences  
Gigi Ostrow, Steve Wing. Dept. Zoology, Univ. Florida, Gainesville, FL 32611. ostrowdg@ufl.edu

S111 Population genetics and phylogenetic position of the endangered Illinois cave amphipod *Gammarus acherontydes*  

S112 Patterns of DNA sequence variation in *Drosophila mauritiana*  
Richard M. Kliman. Dept. Biological Sciences, Cedar Crest College, Allentown, PA 18104. rmkliman@cedarcrest.edu

S113 Genome wide comparison of human polymorphism and human-chimpanzee divergence to detect natural selection  
* Jun Gojobori, Chung-I Wu. Ecology and Evolution, Univ. of Chicago, Chicago, IL 60637. jgojobori@uchicago.edu

S114 Population genetic structure of the Atlantic coastal killfish, *Fundulus heteroclitus*  
* James B. Lindmeier, Stephanie M. Adams, David Duvernell. Dept. Biological Sciences, Southern Illinois Univ. Edwardsville, Edwardsville, IL 62026. lindmejb@siu.edu

S115 ISSR variation in *Campanula americana* in southwestern Virginia  
R. Deborah Overath, David J. Grise. Dept. Biology, Radford Univ., Radford, VA 24142. rdoverath@radford.edu

S116 The influence of premeiotic clusters of mutation on linkage disequilibrium  
Ronny C. Woodruff, Priti Azad, James N. Thompson, Jr. Dept. Biological Sciences, Bowling Green State Univ., Bowling Green, OH 43403. rwoodru@bgsu.edu

S117 Performance of the composite-likelihood estimator of the recombination rate under complex substitution models  
Antonio Carvajal-Rodriguez, Keith A. Crandall, David Posada. Dept. Integrative Biology, BYU, Utah USA. ac549@email.byu.edu

S118 Fine scale population genetics of copper rockfish in Oregon: The role of biogeographic breaks vs isolation by distance  
Vincent Buonaccorsi, Mattias Johansson, Michael Banks, Heather Hassel, Katey Glunt. Juniata College. buonaccorsi@juniata.edu

S119 Multiple stresses and longevity in *Drosophila melanogaster* by quantitative genetic analysis  
* Meihui Wang, Yue Wang, Sharleen Boerher, Stephen D. Kachman, Lawrence G. Harshman, Sergey V. Nuzhdin. School of Biological Sciences, Univ. Nebraska-Lincoln, Lincoln, NE 68588. mhwang@bigred.unl.edu

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**Saturday Posters - Species interaction**

S120 Experimental and phylogenetic evidence for low host specificity in a fungal parasite of leaf-cutter ant gardens  
* Stephen J. Taerum, Cameron R. Currie. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. staerum@ku.edu

S121 Ecology, evolution, and behavior at the Georgia Institute of Technology  
Michael A. D. Goodisman. Georgia Inst. Technology, Atlanta, GA 30332. michael.goodisman@biology.gatech.edu

* student presenter
Safe hotel, but no breakfast: Pollinator-mediated selection on floral size of Oncocyclus irises

Partner variability and fitness in a natural community of Legumes and Rhizobia

Simultaneous evolution of drought tolerance and defense against herbivores in Boechera stricta, a close wild relative of Arabidopsis

Yuval Sapir, Lilach Hadany. Dept. Biology, Indiana Univ., Bloomington, IN 47401. ysapir@indiana.edu

* Katy D. Heath, Peter Tiffin. Dept. Plant Biology, Univ. Minnesota, St. Paul, MN 55108. heat0059@umn.edu

Lexi Steffes, Riston Haugan, Joy Wolf, David Siemens. Biology, Black Hills State Univ., Spearfish, SD 57709. davidsiemens@bhsu.edu

* student presenter
Monday Posters - Bioinformatics/phyloinformatics

M1  Statistical approaches for DNA barcoding  
Rasmus Nielsen, Mikhail Matz. Whitney Laboratory for Marine Biosciences, Univ. Florida, 9505 Ocean Shore Blvd, St. Augustine, Florida 32080. matz@whitney.ufl.edu

M2  Pipelined scientific workflows for inferring evolutionary relationships  
Timothy M. McPhillips. Natural Diversity Discovery Project, 1163 Yarwood Ct., San Jose, CA 95128. tmcpillips@naturaldiversity.org

M3  Ramble: The adaptive evolution simulator  
* Jennifer Commins, James O. McInerney. Bioinformatics Laboratory, National Univ. Ireland Maynooth, Maynooth, Co. Kildare, Ireland. jennifer.commins@nuim.ie

M4  Comparative analysis of the Saccharomyces cerevisiae and Caenorhabditis elegans protein interaction networks  
* Ino Agrafioti, Jonathan Swire, James Abbott, Derek Hanley, Sarah Butcher, Michael P.H. Stumpf. Centre of Bioinformatics, Biochemistry Building, Imperial College London, South Kensington Campus, London, SW7 2AZ, UK. ino.agrafioti@ic.ac.uk

M5  Protein interaction function and evolutionary constrains  
Eric de Silva, Michael Stumpf. Centre for Bioinformatics, Imperial College, London. e.desilva@ic.ac.uk

M6  A new diversity metric clarifies the roles of biogeography and habitat in structuring marine microbial communities  
* Catherine A. Lozupone, Rob Knight. Univ. Colorado, MCD Biology, Boulder, Colorado 80309. lozupone@colorado.edu

Monday Posters - Comparative biology

M7  Carrying a large load: Are female iguanas performance limited by large reproductive mass?  
* Marguerite A. Butler. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37996-1610. mabutler@utk.edu

M8  Evolution of snake vision: Cloning of long-wavelength visual pigments from the garter snake (Thamnophis)  
Johannes Mueller, Mengshu Xu, Dimitra Kovolos, Belinda Chang. Dept. Zoology, Univ. Toronto, 25 Harbord Street, Toronto, ON M5S 3G5, Canada. jmuller@utm.utoronto.ca

M9  Bowerbird SWS1 opsins: A comparative analysis of vertebrate UV/violet vision  
* Ilke van Hazel, Karolina Jonsson, Dimitra Kolovos, Lainy Day, John Endler, Belinda Chang. Dept. Zoology, Univ. Toronto, Toronto, ON, Canada, M5S 3G5. ilke@zoo.utoronto.ca

M10  Quantifying morphological diversity to test hypotheses about Tanganyika and Malawi cichlids  
* Prosanta Chakrabarty. Univ. Michigan Museum of Zoology, Fish Division, 1109 Geddes Ave., Ann Arbor, MI 48109. pchakrab@umich.edu

* student presenter
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<tr>
<th>M11</th>
<th>Evolution of an environmentally directed trait: Comparative morphology of the shrew mandible</th>
<th>* Rebecca L. Young, Alexander V. Badyaev. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. <a href="mailto:rlyoung@email.arizona.edu">rlyoung@email.arizona.edu</a></th>
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<tr>
<td>M12</td>
<td>Erythrocyte metamorphosis in a paedomorphic salamander: Does the axolotl hemoglobin transition require thyroid hormone?</td>
<td>* Amy K. Samuels, S. Randal Voss. Dept. Biology, Univ. Kentucky, Lexington, KY 40506. <a href="mailto:akasu2@uky.edu">akasu2@uky.edu</a></td>
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<tr>
<td>M13</td>
<td>The variation in the copy number of flowering related genes in the family Chenopodiaceae</td>
<td>Helena Storchova, Jan Kolár. Inst. Exp.Botany, Prague, 16500 Czech Rep.; Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:storchova@ueb.cas.cz">storchova@ueb.cas.cz</a></td>
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<tr>
<td>M14</td>
<td>Evolution of downstream targets of ultrabithorax between D. melanogaster and D. pseudoobscura</td>
<td>Maximilian O. Kauer, Jane Kim, Kevin P. White. Yale School of Medicine, Dept. Genetics, New Haven, CT 06510. <a href="mailto:max.kauer@yale.edu">max.kauer@yale.edu</a></td>
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<td>M15</td>
<td>Polyp and medusa development in Podocoryna carneae</td>
<td>Diane M. Bridge, Molly M. Rorick, Sophia Maund, Spenser McKinstry, Daniel E. Martinez. Dept. Biology, Pomona College, Claremont, CA 91711. <a href="mailto:DEM04747@pomona.edu">DEM04747@pomona.edu</a></td>
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<tr>
<td>M16</td>
<td>Did mechanisms regulating angiogenesis arise early? Expression of HIF-1 alpha and VEGF/PGF genes in a cnidarian</td>
<td>Diane M. Bridge, Anne A. Gordon, Heather House, Amie L. Shaffer. Dept. Biology, Elizabethtown College, Elizabethtown, PA 17022. <a href="mailto:bridged@etown.edu">bridged@etown.edu</a></td>
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<tr>
<td>M17</td>
<td>How similar morphogenetic process does not equal parallel patterns of phenotypic change</td>
<td>Michael L. Collyer, Dean C. Adams. Iowa State Univ., Dept. Statistics, Dept. Ecology, Evolution, and Organismal Biology, Ames, IA 50011. <a href="mailto:collyer@instate.edu">collyer@instate.edu</a></td>
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<tr>
<td>M18</td>
<td>Genomic approaches to the study of flowering time in Aquilegia</td>
<td>* Evangeline S. Ballerini, Billie Gould, Elena M. Kramer. Dept. Organismic and Evolutionary Biology, Harvard Univ., Cambridge, MA 02138. <a href="mailto:eballerini@cseb.harvard.edu">eballerini@cseb.harvard.edu</a></td>
</tr>
<tr>
<td>M19</td>
<td>Comparing functional and developmental hypotheses for floral trait correlation patterns in Leavenworthia torulosa</td>
<td>* Ingrid A. Anderson. Biology Dept., Indiana Univ., 1001 East Third Street, Bloomington, IN 47405. <a href="mailto:ianderson@bio.indiana.edu">ianderson@bio.indiana.edu</a></td>
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<tr>
<td>M20</td>
<td>Mullerian mimicry genes: Third generation of a high resolution linkage map of Heliconius erato using AFLP#8217;s</td>
<td>* Kéllitt Santiago-Berrios, Karla Maldonado-Mena, Riccardo Papa, H. Alejandro Merchán, Félix Araujo-Pérez, Yahdi Cotto-Jorge, Owen McMillan. Univ. Puerto Rico, Rio Piedras Campus. <a href="mailto:kelitt@yahoo.com">kelitt@yahoo.com</a></td>
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**Monday Posters - Ecological genetics**

| M21  | The signature of selection in natural populations of the homoploid hybrid species Helianthus deserticola | * Briana L. Gross, Loren H. Rieseberg. Indiana Univ., Bloomington, Indiana 47405. brgross@indiana.edu |

* student presenter
M22 Mc1R is not responsible for coat color variation in pocket gophers

* Gabriela Wlasiuk, Michael W. Nachman. Ecology and Evolutionary Biology Dept., Univ. Arizona, 1041 E Lowell St, Tucson, AZ 85721. wlasiuk@email.arizona.edu

M23 Conservation and divergence of flowering time gene expression in wild and domesticated sunflower

* Benjamin K. Blackman, Scott D. Michaels, Loren H. Rieseberg. Dept. Biology, Indiana Univ., Bloomington, IN 47405. bkblackm@indiana.edu

M24 Genetic signature of ecological selection for salt tolerance in a wild sunflower hybrid species: Helianthus paradoxus


M25 Characterization of guppy LWS opsins: Multiple opsins found in a single individual

* Cameron J. Weadick, D. Kolovos, S. Lazic, H. Rodd, B.S.W. Chang. Dept. Zoology, Univ. Toronto, Toronto, Ontario, Canada, M5S 3G5. cameron.weadick@utoronto.ca

M26 Small-scale genetic structure in the sea palm Postelsia palmaeformis

J. Timothy Wootton, Catherine A. Pfister, Handojo T. Kurumo, Richard R. Hudson. Univ. Chicago. twootton@uchicago.edu

M27 Relative reproductive success with assignment error corrections and its application to steelhead trout

Hitoshi Araki, Michael Blouin. Dept. Zoology, Oregon State Univ., Corvallis, OR 97331. arakhi@science.oregonstate.edu

M28 Molecular and quantitative genetic divergence among population with known evolutionary histories

Theodore J. Morgan, Marc A. Evans, Theodore Garland Jr., John G. Swallow, Patrick A. Carter. Dept. Genetics, North Carolina State University, Raleigh, NC 27695-7614. tjmorgan@unity.ncsu.edu

M29 Genetics of burrow building in Peromyscus

* Jesse N. Weber, Hopi E. Hoekstra. Division of Biology, Univ. California-San Diego, La Jolla, CA 92093-0116. jnweber@ucsd.edu

M30 Comparative genetic structure of the female hawksbill sea turtle (Eretmochelys imbricata) populations within several nesting seasons in Mona Island, Puerto Rico

* Xaymura Serrano, Xinenu Velez, Willy Ramos, Aida Miro, Owen McMillan. Dept. Biology, Univ. Puerto Rico. serranox@gmail.com

Monday Posters - Ecology and evolution of disease

M31 Evolution of parasite reproductive rate in response to experimental manipulation of population structure

Farrah Bashey, Curt Lively. Dept. Biology, Indiana Univ., Bloomington IN 47405. fbasheyv@indiana.edu

M32 Evolutionary genetics of the Treponema pallidum subspecies: Phylogeny, origins, and possible functional differences

* Kristin N. Harper, Paolo Ocampo, Bret M. Steiner, Robert W. George, George J. Armelagos. Population Biology, Ecology and Evolution, Emory Univ., Atlanta, GA 30322. knharpe@emory.edu

* student presenter
<table>
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<tr>
<th>M33</th>
<th>White mold in the cold: <em>Sclerotinia sclerotiorum</em> on Alaskan crops</th>
<th>Loretta M. Winton, Roseann Leiner. 303 O'Neil Bldg UAF, Fairbanks, AK 99775. lor@<a href="mailto:winton@uaf.edu">winton@uaf.edu</a></th>
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<tr>
<td>M34</td>
<td>How does host environment affect parasite growth in the desert toad, <em>Scaphiopus couchii</em>?  *</td>
<td>Tatiana Vasquez, Karin Pfennig. Dept. Biology, CB # 3280, Coker Hall, Univ. North Carolina, Chapel Hill, NC 27599. <a href="mailto:tvasquez@email.unc.edu">tvasquez@email.unc.edu</a></td>
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**Monday Posters - Education**

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<tr>
<th>M35</th>
<th>Integrating inquiry and phylogenetic analyses into traditional introductory biology survey laboratories</th>
<th>Jeffrey McKinnon, Kerry Katovich, Neil Sawyer. Biological Sciences, Univ. Wisconsin-Whitewater. <a href="mailto:mckinnon@uw.edu">mckinnon@uw.edu</a></th>
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<tr>
<td>M36</td>
<td>They think what? Capturing and using student ideas in the non-majors classroom</td>
<td>Joseph Kurzdziel. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. <a href="mailto:josephpak@umich.edu">josephpak@umich.edu</a></td>
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<tr>
<td>M37</td>
<td>Helping students learn to question</td>
<td>Corinna N. Ross, Angela Zabawa, Diandra Leslie-Pelecky. Biological Sciences, Univ. Nebraska, Lincoln, NE 68588. <a href="mailto:cross@bigred.unl.edu">cross@bigred.unl.edu</a></td>
</tr>
<tr>
<td>M38</td>
<td>A student-initiated seminar promotes collaborative learning and research</td>
<td>Elizabeth A. Perotti, Jann E. Vendetti, Simon N. Spornberg, Ryan I. Hill, Nathaniel M. Hallinan, Charles L. Nunn. Dept. Integrative Biology, U.C. Berkeley, Berkeley, CA 94720. <a href="mailto:marinelizzard@berkeley.edu">marinelizzard@berkeley.edu</a></td>
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**Monday Posters - Evolutionary theory**

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<th>M39</th>
<th>Phenotypic plasticity promotes the evolution of warning coloration</th>
<th>Dennis J. Fielding, Gregory A. Sword. Subarctic Agricultural Research Unit, USDA-ARS, P.O. Box 757200, Fairbanks, AK 99775. <a href="mailto:ffdjfi@uaf.edu">ffdjfi@uaf.edu</a></th>
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<tr>
<td>M40</td>
<td>Rates and dates of avian ordinal molecular evolution  *</td>
<td>Joseph W. Brown, Joshua S. Rest, Jaime Garcia-Moreno, Michael D. Sorenson, David P. Mindell. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. <a href="mailto:josephwb@umich.edu">josephwb@umich.edu</a></td>
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<tr>
<td>M41</td>
<td>Coalescent time and size with strong selection</td>
<td>R. B. Campbell. Dept. Mathematics, Univ. Northern Iowa, Cedar Falls, IA 50614-0506. <a href="mailto:campbell@math.uni.edu">campbell@math.uni.edu</a></td>
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**Monday Posters - Genomics/proteomics**

| M42  | Rapid evolution of gene expression during habitat invasions by the copepod *Eurytemora affinis* | Brian D. Eads, Gregory W. Gelembiuk, Carol Eunmi Lee. Dept. Zoology, Univ. Wisconsin - Madison, Madison, WI 53706. gelembiuk@gwmadison.wisc.edu |

* student presenter
### Monday Posters - Hybridization

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<tr>
<td>M46</td>
<td>Selection against crop alleles in crop-wild sunflower hybrid zones</td>
<td>Tanya Henderson, Eric Baack, Loren Rieseberg. Dept. Biology, Indiana Univ., 1001 E 3rd St, Bloomington, IN 47405. <a href="mailto:ebaack@indiana.edu">ebaack@indiana.edu</a></td>
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<td>M47</td>
<td>Evolution of breeding systems and ploidy levels in <em>Prunus</em> sect. <em>Alaternus</em>: A paradigm of the secondary contact model</td>
<td>* Alessia Guggisberg, Sylvia Kelso, Elena Conti. Inst. Systematic Botany, Univ. Zurich, Zollikerstrasse 107, CH-8008 Zurich, Switzerland. <a href="mailto:alg@systbot.unizh.ch">alg@systbot.unizh.ch</a></td>
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<tr>
<td>M48</td>
<td>MAMA: A simple and universal method for identifying divergent mtDNA haplotypes</td>
<td>* Johan Lindell, Robert W. Murphy. Dept. Natural History, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, M5S 2C6, Canada. <a href="mailto:johan.lindell@utoronto.ca">johan.lindell@utoronto.ca</a></td>
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<td>M49</td>
<td>Hybridization and introgression between two killifish species, <em>Fundulus notatus</em> and <em>F. olivaceus</em></td>
<td>David D. Duvernell, Jacob F. Schaefer. Dept. Biological Sciences, Southern Illinois Univ. Edwardsville, Edwardsville, IL 62026. <a href="mailto:dduvern@siue.edu">dduvern@siue.edu</a></td>
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<td>M50</td>
<td>Hybridization reticulate gene flow between Lesser and Greater Scaup</td>
<td>* Christopher P. Barger, Alan D. Afton, Michael J. Anteau, Andre Breault, Robert G. Clark, Johann Walker, Kevin G. McCracken. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. <a href="mailto:fscpb1@uaf.edu">fscpb1@uaf.edu</a></td>
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### Monday Posters - Invertebrates

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<tr>
<td>M51</td>
<td>Documentation of beneficial insects associated with Alaskan agricultural crops: A preliminary account</td>
<td>Aaron M. Hagerty, Alberto Pantoja, Todd Adams. USDA-ARS Subarctic Agricultural Research Unit, Univ. Alaska, Fairbanks, Fairbanks, AK 99775. <a href="mailto:ffamh1@uaf.edu">ffamh1@uaf.edu</a></td>
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<td>M52</td>
<td>Color polymorphism in a leafcutting ant, <em>Atta cephalotes</em></td>
<td>* Scott E. Solomon. Section of Integrative Biology, The Univ. Texas at Austin, 1 Univ. Station, C0930, Austin, TX 78712. <a href="mailto:ssolemon@mail.utexas.edu">ssolemon@mail.utexas.edu</a></td>
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<tr>
<td>M53</td>
<td>Yellowjackets in Alaska</td>
<td>Todd B. Adams, Peter J. Landolt, Alberto Pantoja, Aaron M. Hagerty. USDA-ARS Subarctic Research Unit, Fairbanks, AK 99775. <a href="mailto:fntba@uaf.edu">fntba@uaf.edu</a></td>
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* student presenter
M54 Population genetics of Asterinid sea stars

* Carson C. Keever, Mike W. Hart. Biological Sciences 8888 Univeristy Dr., Simon Fraser Univ., Burnaby B.C., Canada V5A-1S6. ekeever@sfu.ca

Monday Posters - Life history evolution

M55 Age specific survivorship of Drosophila mojavensis reared on different host cacti

* Luciano M. Jauregui, William J. Etges. Dept. Biological Sciences, Univ. Arkansas, Fayetteville, AR 72701. ljaureg@uark.edu

M56 Senescence rates of sockeye salmon as an adaptation to the intensity of bear predation

Stephanie M. Carlson, Thomas P. Quinn, Andrew P. Hendry, Raymond Hilborn. Redpath Museum and Dept. Biology, McGill Univ., 859 Sherbrooke St. W., Montreal, Quebec, H3A 2K6 Canada. andrew.hendry@mcgill.ca

M57 Evidence of polyspermy in hybrids of three sympatric broadcast spawning sea urchins

* Nicole D. Fogarty, Casey P. terHorst, Don R. Levitan. Florida State Univ., Biological Science Dept., Tallahassee, Florida 32306-1100. fogarty@bio.fsu.edu

M58 Response to artificial selection on egg size in the serpulid polychaete Hydrodides elegans

* Cecelia M. Miles, Marta L. Wayne. Univ. Florida, Dept of Zoology, Gainesville, FL 32611. cmiles@zoo.ufl.edu

M59 Geographic parthenogenesis in a lichenized-fungus: Implications for measuring fitness

* Heather B. Jackson, Larry St. Clair. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. hjacks1@lsu.edu

M60 Sexual dimorphism in cottontails (Sylvilagus): Has evolution produced larger females or smaller males?

* Candace Davis, V. Louise Roth. Dept. Biology, Duke Univ., Box 90338, Durham, NC 27704. cmd14@duke.edu

M61 Can hybridization lead to greater evolvability?

* Lesley G. Cumbell, Allison A. Snow, Julie M. Kenter, Patricia M. Sweeney. Dept. Evolution, Ecology and Organismal Biology, Ohio State Univ., 318 W 12th Ave, Columbus, OH, 43210. campbell.635@osu.edu

Monday Posters - Molecular evolution

M62 Molecular evolution of an imprinted gene in Arabidopsis lyrata

Diana Wolf, Naoki Takebayashi, Dane Salter, Lacie Jo Westbrook. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffdw2@uaf.edu

M63 Bridging the gap between the origins of earth and the RNA world

Matthew Carrigan, Alonso Ricardo, Steven Benner. Dept. Chemistry, Univ. Florida, Gainesville, FL 32611. mcarriga@ufl.edu

M64 Evolution of structure and function in insect mitochondrial genomes

* James B. Stewart, Andrew T. Beckenbach. Dept. Molecular Biology and Biochemistry, Simon Fraser Univ. Burnaby, BC, Canada V5A 1S6. jbs@sfu.ca

* student presenter

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M65  Substantial length variation in the paternally inherited mitochondrial COII protein-coding extension

Jason P. Curole, Jennifer Walker, W. Randy Hoeh. Dept. Biology, Univ. Southern California, Los Angeles, CA. jcurole@usc.edu

M66  Genome evolution and effective population size estimates based on nuclear versus mitochondrial DNA

* Sarah Schrock, Brit Koskella, Michael Lynch. Indiana Univ., Bloomington, IN 47405. schrock@indiana.edu

M67  Diversity and evolution of coral fluorescent proteins

Naila Alieva, Ella Meleshkevich, Karen Konzen, Steven Field, Jewell Walters, Mikhail Matz, Whitney Laboratory for Marine Bioscience, Univ. Florida, 9505 Ocean Shore Blvd, St. Augustine, Florida 32080. naileva@whitney.ufl.edu

M68  Evolution of tandem repeat regions in Burkholderia pseudomallei

* Jana U'Ren, J. Schupp, T. Pearson, R. Leaend, S. Kachur, S. Georgia, B. Leadem, M. Mayo, D. Gal, B. Currie, P. Keim. Keim Genetics Lab, Northern Arizona Univ., Flagstaff, AZ 86011. janauren@nau.edu

M69  Codon capture in hemichordates revisited

Michael J. Smith, Karen Beckenbach, Andrea Scouras. Weill Cornell Medical College in Qatar, P.O. Box 24144, DOHA QATAR. mis2038@qatar-med.cornell.edu

M70  Molecular evolution and UV exposure: Rate acceleration in the open ocean

* Jeremy R. DeWaard, T. Ryan Gregory, Paul D.N. Hebert. Biodiversity Inst. Ontario, Univ. Guelph, Guelph, ON N1G 2W1. jdewaard@uoguelph.ca

M71  Crinoid mitochondrial genomes: Signature nucleotide bias and novel gene rearrangements

* Andrea Scouras, Michael J. Smith. Dept. Molecular Biology and Biochemistry, Simon Fraser Univ., 8888 Univ. Dr., Burnaby BC, Canada, V5A 1S6. ascouras@sfu.ca

M72  Cryptochrome genes in land plants: An example of nuclear gene evolution

Kenneth G. Karol, Dina F. Mandoli, Richard G. Olmstead. Dept. Biology, Univ. Washington, Seattle, WA 98195. kkarol@u.washington.edu

M73  Molecular phylogeny of the telomere-associated transposable element, Het-A, in Drosophila

Kenneth Lindley, Jennifer Bambrick, Jonathan B. Clark. Dept. Zoology, Weber State Univ., Ogden, UT 84408-2505. jclark1@weber.edu

Monday Posters - Mutation

M74  Direct estimate of mutation rate in Caenorhabditis nematodes

Naomi Phillips, Gigi Ostrow, Charles Baer. Zoology Dept., Univ. Florida. naomip@zoo.ufl.edu

M75  Estimation of microsatellite mutation rates in Arabidopsis thaliana

* Tara N. Marriage, John K. Kelly, Maria E. Orive. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. tmarria@ku.edu

* student presenter
### Monday Posters - Quantitative genetics

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<tr>
<td>M77</td>
<td>Developing SSCP markers in <em>Tribolium castaneum</em></td>
<td>Daibin Zhong, Aditi Pai, Guiyun Yan</td>
<td>Dept. Biological Sciences, SUNY at Buffalo, Buffalo, NY 14260.</td>
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<td><a href="mailto:dzhong@buffalo.edu">dzhong@buffalo.edu</a></td>
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<td>M78</td>
<td>Quantitative genetics of brood size and parental care in a burying</td>
<td>Claudia M. Rauter</td>
<td>Dept. Biology, Univ. Nebraska at Omaha, Omaha, NE 68182.</td>
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<td>families of the fathead minnow (<em>Pimephales promelas</em>)</td>
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<td>M81</td>
<td>Tests of inbreeding and outbreeding depression in a metapopulation</td>
<td>Amaris L. Swann, Lisa M. Meffert</td>
<td>Dept. Ecology and Evolutionary Biology, Rice Univ., Houston, TX 77005.</td>
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### Monday Posters - Sexual selection

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<td>(<em>Poecilia reticulata</em>)</td>
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<td></td>
<td><em>pseudoobscura</em></td>
<td>Kim</td>
<td><a href="mailto:etyler@uga.edu">etyler@uga.edu</a></td>
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<td>M84</td>
<td>What to choose and what to get? Multivariate genetics and the strength</td>
<td>Tarmo Ketola, Raine Kortet, Janne S. Kotialho</td>
<td>Dept. Biological and Environmental Sciences, P.O.Box 35, 40014 Univ. Jyväskyla, Finland.</td>
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<td>of sexual selection in decorated crickets</td>
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<td>M85</td>
<td>Assortative-disassortative mating based on bill-width in Wedge-tailed</td>
<td>Darren R. Peck, Bradley C. Congdon</td>
<td>School of Tropical Biology, James Cook Univ., Cairns, Australia.</td>
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<td>M86</td>
<td>Female choice for good genes vs. direct benefit in ectophiliic *</td>
<td>Elen Oneal, Tim Connallon, L. Lacey Knowles</td>
<td>Ecology and Evolutionary Biology, Univ. Michigan, MI 48109.</td>
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<tr>
<td>M88</td>
<td>Does precopulatory effort predict sperm quality in walnut flies?</td>
<td>Laura D. Carsten. Dept. Ecology and Evolution Biology, Univ. Arizona, Tucson, AZ 85721. <a href="mailto:carsten@email.arizona.edu">carsten@email.arizona.edu</a></td>
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<td>M89</td>
<td>Electron micrograph images capture mating induced changes in the <em>Drosophila melanogaster</em> spermathecae</td>
<td>Adrienne M. Prokupek, Lawrence G. Harshman, Kit Lee. School of Biological Sciences, Univ. Nebraska Lincoln, Lincoln, NE 68588. <a href="mailto:aprokupl@bigred.unl.edu">aprokupl@bigred.unl.edu</a></td>
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<tr>
<td>M90</td>
<td>Evidence of positive selection on the sperm protein PKDREJ</td>
<td>David E. Hamm, Willie J. Swanson. Dept. Genome Sciences, PO Box 357730, Seattle, WA 98195. <a href="mailto:dhamm@gwashington.edu">dhamm@gwashington.edu</a></td>
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<tr>
<td>M91</td>
<td>Sexual selection and <em>Drosophila</em> wing shape</td>
<td>Brian Hollis. Florida State Univ., Dept. Biology, Tallahassee, FL 32306. <a href="mailto:bhollis@bio.fsu.edu">bhollis@bio.fsu.edu</a></td>
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<td>M92</td>
<td>Assessment of the cuticular hydrocarbons involved in mate-choice within and between populations of <em>Drosophila mojavensis</em></td>
<td>Amber D. Tripodi, William J. Etges. Univ. Arkansas. <a href="mailto:wetges@uark.edu">wetges@uark.edu</a></td>
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<td>M93</td>
<td>Color polymorphism and population structure in the cichlid <em>C. leptosoma</em>: A transient stage in disruptive selection?</td>
<td>Simona Santini. Stazione Zoologica &quot;Anton Dohrn&quot;, Napoli, Italy. <a href="mailto:santini@szn.it">santini@szn.it</a></td>
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**Monday Posters - Speciation**

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<td>M94</td>
<td>Assortative mating as an isolating barrier in the rapid speciation of threespine stickleback (<em>Gasterosteus aculeatus</em>)</td>
<td>Christoff G. Furin, Frank von Hippel. Dept. Biological Sciences, Univ. Alaska Anchorage, 3211 Providence Dr., Anchorage, AK 99508. <a href="mailto:cgf@uaa.alaska.edu">cgf@uaa.alaska.edu</a></td>
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<td>M95</td>
<td>Sexual size dimorphism and phylogenetic trends in <em>Drosophila</em> species</td>
<td>Minyoung Yi, George Gilchrist, Kim van der Linde, David Houle. Dept. Biology, College of William and Mary, Williamsburg, VA 23187-8795. <a href="mailto:mjiyixx@wm.edu">mjiyixx@wm.edu</a></td>
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<td>M96</td>
<td>Genetics of divergence in pigmentation and courtship between <em>Drosophila elegans</em> and <em>D. gunungcola</em></td>
<td>Shu-Dan Yeh, Shian-Ren Liou, John R. True. Dept. Ecology and Evolution, SUNY Stony Brook, Stony Brook, NY 11790. <a href="mailto:sdyeh@life.bio.sunysb.edu">sdyeh@life.bio.sunysb.edu</a></td>
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<tr>
<td>M97</td>
<td>Identifying the flower color gene responsible for prezygotic isolation in <em>Phlox</em></td>
<td>Mark D. Rausher, Robin A. Smith. Duke Univ. Dept. Biology Box 90338, Durham, NC 27708. <a href="mailto:ras10@duke.edu">ras10@duke.edu</a></td>
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<tr>
<td>M98</td>
<td>Testing the chromosomal inversion model in <em>Drosophila mojavensis</em> and <em>D. arizonae</em></td>
<td>Brian A. Counterman, Mohamed A.F. Noor. Biological Science Dept, Louisiana State Univ., 107 Life Science Bldg, Baton Rouge, LA 70803. <a href="mailto:bcountl@lsu.edu">bcountl@lsu.edu</a></td>
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<tr>
<td>M99</td>
<td>Uncommon unidirectional hybridization in plants: Evidence for reinforcement</td>
<td>Renchao Zhou, Suhua Shi, Chung-I Wu. School of Life Sciences, Sun Yat-Sen Univ., Guangzhou 510275, China. <a href="mailto:lssssh@zsu.edu.cn">lssssh@zsu.edu.cn</a></td>
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<th>M100</th>
<th>Limited introgression near chromosomal inversions linked to reproductive isolation in <em>Drosophila</em></th>
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<td>M101</td>
<td>Links between sexually selected genitalia divergence and rates of speciation in montane grasshoppers</td>
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<td>M102</td>
<td>Sexual isolation between sympatric and allopatric populations in <em>Drosophila pseudoobscura</em> and <em>D. persimilis</em></td>
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<td>M103</td>
<td>Shared mtDNA variation between sympatric populations of the Hawaiian cricket <em>Laupala</em>: Further implications for reinforcement</td>
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**Monday Posters - Systematics**

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- Robert G. White Large Animal Research Station – View muskox, caribou, and reindeer. Tours daily. 474-7207
- University of Alaska Museum of the North – Discover fascinating stories about Alaska's people, places, and wildlife. Audio guide available. Museum store. 9:00 am – 7:00 pm 474-7581

Activities around town
- Alaskan Tails of the Trail with Mary Shields – Learn about Mary's adventures in mushing the Iditarod and through the Alaska wilderness. 455-6469
- Chena Bend Golf Course – Beautiful golf course located on Fort Wainwright. 353-6223
- Chena Hot Springs Resort – Soak in the hot springs and visit the ice museum. 451-8104
- Creamer's Field Migratory Waterfowl Refuge 452-5162
- El Dorado Goldmine – Ride the Tanana Valley Railroad and pan for gold. 479-6673
- Ester Gold Camp – Dinner, Malemute Saloon’s nightly musical show, and Northern Lights Photosymphony show . 452-7274
- Fairbanks Golf and Country Club – Play a game of golf under the midnight sun. 479-6555
- Gold Dredge No. 8 – Visit a gold dredge and pan for gold. 457-6058
- Ice Museum – Ice sculptures on display. Downtown on 2nd Avenue. 451-8222
- Midnight Sun Balloon Tours – Take a breathtaking trip over the Tanana Valley. 456-3028
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- Tanana Valley Farmers Market – View what Fairbanks area farmers and artisans have produced. College Road - Wednesdays & Saturdays.
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