Acknowledgments

Because neither of us had ever served on a local arrangements committee before, we began this experience a little like Mickey Rooney and Judy Garland in “Babes in Arms”—with the rallying cry of “Let’s put on a show!” but with no practical experience in the details. The show just wouldn’t have gone on without the help of many extraordinary people. First, we have to thank the extremely capable staff at UI Conferences & Institutes, including James Onderdonk, Scott Miller, Stephanie Shockey, David Ward, and Mona Knight, who are in the business of ensuring that shows (and conferences and even institutes) are successful and who attended efficiently and professionally to every detail, from meeting room logistics to tote bag design. The logo on the tote bag, depicting Diabrotica virgifera, the western corn rootworm, was ably and creatively designed by Gretchen Wieshuber. Given recent evidence that this corn specialist has evolved resistance to the corn/soybean rotation used for decades for rootworm management in the Midwest, ovipositing not in cornfields but in soybean fields, we felt that it was an especially appropriate symbol for our meeting. Kevin Johnson did an absolutely brilliant job as program chair; his training in systematics no doubt accounted, at least in part, for his consummate skill in classifying, grouping, and organizing a bewildering diversity of talks and posters. He was ably assisted by Mike Ward, who by artful and gentle arm-twisting managed to recruit moderators for every session. Rose Reynolds took on the daunting task of organizing the graduate student volunteers and recruited an enthusiastic and capable crew, without whose help this conference simply couldn’t have happened. Sydney Cameron, Stephen Downie, Ken Paige, and James Whittle all provided advice and counsel at critical junctures. We’re grateful to John Dudley, Karlene Ramsdell, Tom Phillips, Dan Blake, and Barbara Jones of the University of Illinois, Beth Wohlgenuth of the Illinois Natural History Survey, and Ben Williams of the Chicago Field Museum for sharing their expertise and artifacts, allowing us to showcase state and university contributions to the study of evolution. Thanks, too, to Richard Leskosky for identifying and finding animated films to show at our Evolution film festival. We also thank Sam Donovan and Michael Antolin for organizing the fourth annual Educational Program and Symposium.

We know it’s inevitable that some (maybe even all) of you will have a problem at some point during the meeting. For this we apologize ahead of time; we wish, for example, that we could control the weather in east central Illinois in June or the construction work in Campustown that always seems to block streets at the most inopportune time. We’ve tried to anticipate major problems and to minimize their likelihood of occurring. We hope, though, that the problems are few and surmountable and that you’ll enjoy the meeting despite them; despite the problems we’ve encountered over the past 12 months, we’ve certainly enjoyed putting this meeting together for you. Thanks for coming!

May Berenbaum and Stewart Berlocher, Co-chairs
Local Arrangements Committee
Welcome to Urbana-Champaign!

You are cordially invited to visit the twin cities of Urbana and Champaign, in the heart of east central Illinois. In case you’re wondering, they’re not identical twins; their births were separated by about 30 years. Urbana dates back to 1822, when William Tompkins built the first homestead on the site that 11 years later was officially platted as a new city, whereas Champaign didn’t come into existence until 1852, when the Illinois Central Railroad laid tracks two miles outside of Urbana and residents who settled close by rejected annexation efforts and instead incorporated their own city a few years later. Despite the fact that the two cities now share many services (as well as Wright Street, the official dividing line) and are cooperative and cordial with each other, referenda to merge the two into a single metropolis have been, since 1855, consistently and resoundingly defeated. The courthouse in Urbana, the permanent county seat for Champaign County, was frequented in the 1840s and 1850s by a young lawyer by the name of Abraham Lincoln, who practiced law in the 8th Judicial Circuit. In 1854, he delivered one of his first public speeches against slavery in the county courthouse in downtown Urbana.

The lives of the residents of Urbana and Champaign were changed forever when, in 1867, the Illinois Industrial University, later to become the University of Illinois at Urbana-Champaign, was chartered.

About the University of Illinois at Urbana-Champaign

The University of Illinois at Urbana-Champaign is a comprehensive, major public university that is ranked among the best in the country. The University of Illinois at Urbana-Champaign was founded in 1867 as a state-supported, land-grant institution with a threefold mission of teaching, research, and public service. The University has earned a reputation as an institution of international stature. It is recognized for the high quality of its academic programs and the outstanding facilities and resources it makes available to students and faculty. Scholars and educators rank it among a select group of the world’s great universities. For more information, see the university Web site (http://www.illinois.edu). Located in the adjoining cities of Champaign and Urbana (combined population 100,000), approximately 140 miles south of Chicago, the University and its surrounding communities offer a cultural and recreational environment ideally suited to the work of a major research institution. The University is a residential campus of classrooms, laboratories, libraries, residence halls, and recreational and cultural facilities with 200 major buildings on the central campus of 1,470 acres. Nearby are the University’s 1,650-acre Willard Airport; Robert Allerton Park, the campus’s 1,768-acre nature and conference center; and 3,600 acres of agricultural land. An additional 3,700 acres of farmland elsewhere in Illinois are used by the College of Agricultural, Consumer, and Environmental Sciences as experimental fields.

Sponsors

The organizers gratefully acknowledge the generous support of the School of Integrative Biology and the Office of the Vice Chancellor for Research at the University of Illinois at Urbana-Champaign and Taylor & Francis as sponsors of the 2002 Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology.
General Conference Information

Registration Desk

The conference registration desk, located in the South Lounge of the Union, will be open according to the following schedule:

- Friday, June 28, 2002: 9:30 AM–9:00 PM
- Saturday, June 29, 2002: 8:00 AM–5:00 PM
- Sunday, June 30, 2002: 8:00 AM–5:00 PM
- Monday, July 1, 2002: 8:00 AM–5:00 PM
- Tuesday, July 2, 2002: 8:00 AM–5:00 PM

Your registration includes the conference program, a continental breakfast each day of the conference, morning and afternoon breaks each day of the conference, a welcoming reception, poster session receptions, and a conference picnic.

Meals

A limited continental breakfast is included as part of your conference registration. Breakfast will be served each morning in Illini Room C of the Union from 7:00 AM–9:00 AM.

Lunch is “on your own” unless you purchase the residence hall meal package in advance or at the registration desk on Friday, June 28th. The residence hall lunch will be served each day in the Illinois Street Residence Hall from 11:30 AM–1:00 PM. Illinois Street Residence Hall is located at 1010 W. Illinois Street, approximately three blocks east of the Illini Union. See map on inside back cover of program for directions.

Dinner is “on your own” except for the Sunday evening picnic. The picnic will be held at the University’s Arboretum near the corners of Lincoln and Florida Avenues. The Arboretum is just southeast of the Florida Avenue Residence Halls. A shuttle service will run continuously between the picnic and conference hotels.

The conference banquet will be held in the Ballroom on the second floor of the Union on Tuesday, July 2 from 6:00 PM–9:00 PM. Purchase of banquet tickets was required in advance with your conference registration. A very limited number of tickets may be available for purchase at the registration desk during the conference.

Special Events

Welcome Reception: Friday, June 28 in the South Lounge of the Union from 6:00–9:00 PM.

Outreach Seminar: Saturday, June 29 in Foellinger from 6:00–7:00 PM.

Poster Session Receptions: Saturday, June 29 and Monday, July 1 in the Union Illini Rooms A-B from 7:00–9:00 PM.

Conference Picnic: Sunday, June 30 at the University's Arboretum from 6:00 PM–9:00 PM. Entertainment by the bluegrass band High Cotton.

Evolution Film Festival: Monday, July 1 from 7:00 PM–8:30 PM in Foellinger

In the normal course of practicing their art, animators routinely deal with continuous change and metamorphosis. It's not surprising, then, that they are often drawn toward evolution as a theme. UIUC Cinema Studies professor Richard Leskosky, former president of the Society for Animation Studies, and entomology professor May Berenbaum, founder of the UIUC Insect Fear Film Festival (now entering its 20th year), will present a collection of award-winning animated shorts from around the world that revolve around the theme of evolutionary change. Possible titles include Bead Game (Oscar nominee); Clay, or Origin of Species (Oscar nominee); Evolution (Oscar nominee); A Very Very Long Time Ago; A World Is Born (Rite of Spring section of Fantasia); and Allegro Non Troppo.

Conference Banquet: Tuesday, July 2 in the Ballroom of the Union from 6:00–9:00 PM.

Shuttle Service

A continuous shuttle service will be provided between Florida Avenue Residence Halls, conference hotels, and the Illini Union. See page 82 for details.

Message Board

A message board will be located at the registration desk in the South Lounge of the Union.
Note to Session Moderators, Speakers, and Poster Presenters

Moderators

If you are moderating a session, please arrive a few minutes early to ensure that audio-visual equipment is in place and functional. At each session, a graduate student volunteer should be on hand to take care of projection needs. Each room should also be equipped with a timer and a laser pointer. In contributed paper sessions, 15 minutes, including time for questions, are allocated to each speaker; the moderator should alert speakers when 3 minutes remain and again indicate when one minute remains. After 15 minutes, all speakers should be asked to leave the podium. If the speaker has used his/her entire 15 allotted minutes, then the speaker cannot take questions. Please announce this format at the beginning of the session. And please, too, stay on time—if a speaker ends early or if there is a cancellation, do not introduce the next speaker until the time designated for that talk.

Speakers

Please consult the program ahead of time to confirm the time and location of your talk. Arrive early at your session—if you are planning to use slides, bring a carousel already loaded. Find the session moderator and identify yourself so that he or she is aware that you are present. Please try to stay within your allotted time—it's a courtesy to your audience and fellow speakers not only in your session but in concurrent sessions as well. If you would like to preview your 35mm slides, you may do so in the South Lounge of the Union. The room will be open 8:00 AM–9:00 PM, Saturday–Tuesday. If you need to test a computer presentation, you can do so in room 218 of the Mechanical Engineering Building. The building is open Saturday, June 29, 8:00 AM–6:00 PM; Sunday, June 30, 10:00 AM–6:00 PM; Monday, July 1, 8:00 AM–6:00 PM; and Tuesday, July 2, 8:00 AM–6:00 PM.

Poster Presenters

All poster sessions will be held in Illini Rooms A-B of the Union. Numbered poster boards corresponding to the poster titles listed in the final program are available in these rooms. Each poster is assigned a space measuring 4' by 4'. Please put up your poster between 7:00 PM–10:00 PM on Friday, June 28. Posters should remain up through the second poster session on Monday, July 1 from 7:00 PM–9:00 PM. Posters must be removed by Tuesday, July 2 at 5:00 PM. Any posters remaining will be discarded. Please stand by your poster during your designated poster session. Refreshments will be available at both scheduled poster-viewing sessions.

E-mail

A computer lab in 425 of the Natural History Building (fourth floor) will be open if you wish to check your e-mail. The lab will be open Saturday, June 29 through Tuesday, July 2 from 8:00 AM–5:00 PM.

Emergency Numbers and Procedures

911 or 9-911 (campus phone): Police, Fire, or Ambulance
333-8911 or 3-8911 (campus phone): Police, non-emergency

Medical Assistance:
383-3311: Carle Foundation Hospital
366-1200: Christie Clinic
337-2000: Provena Covenant Medical Center

Tornado Preparedness:
East-central Illinois is prone to summer thunderstorms; often conditions are conducive to tornadoes. If you hear the sirens go off, a tornado warning is in effect; this means that a funnel cloud has been spotted in the vicinity. On campus, take cover immediately in the lowest floor of a building; stay away from windows.

Fire Procedure:
Exit building in a calm and orderly manner. If you are on an upper level floor, exit by the nearest stairwell. Do not use elevators.

Special Displays and Tour

The state and University of Illinois have made important contributions to the study of evolution over the last 150 years. To bring these contributions, some not widely appreciated, to the attention of evolutionary biologists, the local organizing committee has prepared several displays of original documents, photographs, and specimens that will available for viewing at the entrance to the Main Library building, and in the Rare Books Room. These include:

Darwin-Walsh Correspondence

Sometimes referred to as “Darwin’s Little Bulldog” for his efforts to convert American naturalists to Darwinism, Benjamin Walsh is today most remembered for being the originator of the idea of sympatric speciation via host shift (and as the author of the apple maggot. Rhagoletis pomonella [Walsh]). This remarkable English naturalist did research (and farming) on the Illinois prairie in the 1860s, while corresponding extensively with leading European naturalists, including Charles Darwin. With the cooperation of the Field Museum of Natural History and the Rare Books Collection of the University of Illinois Urbana-Champaign, we are pleased to be able to display original letters between Darwin and Walsh (in the Rare Books Room, Main Library Building).
100 Years of Scientific Selection on Corn

The corn selection lines for high and low oil, carbohydrates, and protein started at the University of Illinois in the 1890s represent the world's longest-running controlled artificial selection experiments. These experiments have been discussed in books ranging from high school biology texts to Futuyma's and Harl and Clark's widely used evolution texts. In addition to displays of results through 100 generations, we will have a field trip to see the actual plantings on the south farms during the Evolution meetings (date to be announced), organized with the assistance of Dr John Dudley. Sign up at the conference registration desk. Space is limited to the first 50 people.

Mazon Creek Fossils

The Mazon Creek formation of northwestern Illinois, of Pennsylvanian age (~300 MYA), is among the very few that contain impressions of entire animals and plants, not just skeletal remains. The Mazon Creek biota contains both marine and freshwater, and aquatic and terrestrial organisms, ranging from jellyfish to lampreys (with notochord impressions) to salamanders. The formation does not include as many “odd” creatures as the older Burgess Shale, but it does include such remarkable and difficult-to-place taxa as the mysterious “Tully monster”, the state fossil of Illinois. While it is not feasible to set up a trip to the site itself (the ironstone nodules containing the specimens now come mostly from coal mines that are difficult to gain access to), we will have a display of both common and rare specimens, as well as a “What is a Tully Monster?” poll. This display is being assembled with the help of the Field Museum, Dr. Dan Blake of the Geology Department, and collector and Entomology graduate student Karlene Ramsdell.

Fine Structure of Pennsylvanian Plants in Coal Balls

Professor Tom Phillips, recently elected to the National Academy of Sciences, has devoted a lifetime to the study of “coal balls” in Pennsylvanian age plants. These permineralized plant remains allow plant anatomy to be studied at the cellular level (far beyond what can be observed even in extraordinary material such as the Mazon Creek fossils). In addition to a display of specimens, Professor Phillips will lead a tour of his facility on the South Farms, including the largest collection of coal balls in the world. Sign up at the conference registration desk. Space is limited to the first 50 people.

A Note about Meeting Space

In order to provide computer projection capability in all meeting rooms we were not able to cluster meeting rooms in one area. Participants should expect to walk some distance between meeting rooms. We apologize for any inconvenience.
Building Key Listing

ASL – Animal Sciences Laboratory, 1207 W. Gregory
Bevier – Bevier Hall, 905 W. Goodwin
Burrill – Burrill Hall, 407 S. Goodwin
DKH – David Kinley Hall, 1407 W. Gregory
Everitt – Everitt Electrical & Computer Engineering Hall, 1406 W. Green
Foellinger – Foellinger Auditorium, 709 S. Mathews
Greg – Gregory Hall, 810 S. Wright
Levis – Levis Faculty Center, 919 W. Illinois
Lincoln – Lincoln Hall, 702 S. Wright
MEB – Mechanical Engineering Building, 105 S. Mathews
MSEB – Materials Science & Engineering Building, 1304 W. Green
Mumford – Mumford Hall, 1301 W. Gregory
Natural History – Natural History Building, 1301 W. Green
Transport – Transportation Building, 104 S. Mathews
Union – Illini Union, 1401 W. Green
Wohlers – Wohlers Hall (formerly Com West), 1206 S. Sixth

Special Meetings

Friday, June 28
Joint Council Meeting  Levis 407  11:00 AM–1:30 PM
SSB Council Meeting  Levis 407  2:00 PM–5:30 PM
SSE Council Meeting  Levis 402–404  2:00 PM–5:30 PM
Education Committee Meeting  Levis 3rd floor  1:00 PM–3:00 PM

Saturday, June 29
SSE General Business Meeting  Levis 3rd floor  12:00 PM–1:15 PM
SSE Editorial Board Meeting  Levis Music Room  12:00 PM–1:30 PM
SSB Editorial Board Meeting  Levis 407  12:00 PM–1:30 PM

Sunday, June 30
NSF General Presentation  Levis 3rd floor  12:00 PM–1:30 PM

Monday, July 1
SSB General Business Meeting  Foellinger  5:00 PM–6:30 PM
# Daily Event Schedule

*Talk number in parentheses*

## Friday, June 28

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<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:30 AM-9:00 PM</td>
<td>Union–South Lounge</td>
<td>Registration</td>
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<tr>
<td>11:00 AM-1:30 PM</td>
<td>Levis 407</td>
<td>Joint Council meeting</td>
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<tr>
<td>2:00 PM-5:30 PM</td>
<td>Levis 407</td>
<td>SSB Council meeting</td>
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<tr>
<td>2:00 PM-5:30 PM</td>
<td>Levis 402-4</td>
<td>SSE Council meeting</td>
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<tr>
<td>1:00 PM-3:00 PM</td>
<td>Levis 3rd floor</td>
<td>Education Committee meeting</td>
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<tr>
<td>6:00 PM-9:00 PM</td>
<td>Union–South Lounge</td>
<td>Welcome Reception</td>
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## Saturday, June 29 – Morning

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<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 AM-5:00 PM</td>
<td>Union–South Lounge</td>
<td>Registration</td>
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<tr>
<td>8:15 AM-12:15 PM</td>
<td>Natural History 228</td>
<td>SSE Symposium</td>
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<tr>
<td>8:30 AM-10:00 AM</td>
<td>Wohlers 141</td>
<td>Green Evolution: Evolutionary Theory and Results in Agricultural Systems (1-8)</td>
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<tr>
<td>8:30 AM-10:00 AM</td>
<td>Bevier 180</td>
<td>Development &amp; Evolution 1 (9-14)</td>
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<tr>
<td>8:30 AM-10:00 AM</td>
<td>DKH II 14</td>
<td>Evolution of Sex (21-26)</td>
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<tr>
<td>8:30 AM-10:00 AM</td>
<td>Greg II 2</td>
<td>Molecular Evolution 1 (33-38)</td>
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<tr>
<td>8:30 AM-10:00 AM</td>
<td>Greg II 0</td>
<td>Invertebrate Phylogenetics &amp; Systematics 1 (45-50)</td>
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<tr>
<td>8:30 AM-10:00 AM</td>
<td>Greg II 0</td>
<td>Vertebrate Phylogeography/Geographic Variation (57-62)</td>
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<tr>
<td>10:00 AM-10:30 AM</td>
<td>Union/Foellinger</td>
<td>Break</td>
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<td>10:30 AM-12:00 PM</td>
<td>Wohlers 141</td>
<td>Development &amp; Evolution 1 (cont.) (15-20)</td>
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<tr>
<td>10:30 AM-12:00 PM</td>
<td>Bevier 180</td>
<td>Mutations (27-32)</td>
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<td>DKH II 14</td>
<td>Molecular Evolution 1 (cont.) (39-44)</td>
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<td>Greg II 2</td>
<td>Invertebrate Phylogenetics &amp; Systematics (cont.) (51-56)</td>
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<td>Greg II 0</td>
<td>Vertebrate Phylogeography/Geographic Variation (cont.) (64-68)</td>
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## Saturday, June 29 – Afternoon

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<tr>
<td>1:15 PM-4:00 PM</td>
<td>Foellinger</td>
<td>Evolution Education Symposium</td>
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<td>Wohlers 141</td>
<td>Teaching Socially Relevant Examples of Evolution (69-73)</td>
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<tr>
<td>1:15 PM-3:00 PM</td>
<td>Natural History 228</td>
<td>Adaptation (77-83)</td>
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<td>DKH II 14</td>
<td>Agriculture (90, 91, 180, &amp; 93-95)</td>
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<td>1:15 PM-3:00 PM</td>
<td>Greg II 2</td>
<td>Genomics 1 (102-108)</td>
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<tr>
<td>1:15 PM-3:00 PM</td>
<td>Greg II 0</td>
<td>Vertebrate Phylogenetics &amp; Systematics 1 (115-121)</td>
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<tr>
<td>1:15 PM-3:00 PM</td>
<td>Mumford 103</td>
<td>Invertebrate Phylogeography/Geographic Variation (128-134)</td>
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<td>1:15 PM-3:00 PM</td>
<td>Levis 407</td>
<td>Speciation 1 (141-147)</td>
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<td>12:00 PM-1:15 PM</td>
<td>Levis 3rd floor</td>
<td>SSE General Business Meeting</td>
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<td>SSE Editorial Board Meeting</td>
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<td>12:00 PM-1:30 PM</td>
<td>Levis 407</td>
<td>SSB Editorial Board Meeting</td>
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<td>3:00 PM-3:30 PM</td>
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<td>Wohlers 141</td>
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<td>3:30 PM-5:00 PM</td>
<td>Greg 112</td>
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<td>Mumford 103</td>
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<td>4:00 PM-4:45 PM</td>
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<td>7:00 PM-9:00 PM</td>
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**Sunday, June 30 • Morning**

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<th>Time</th>
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<tr>
<td>8:00 AM-5:00 PM</td>
<td>Registration</td>
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<td>8:00 AM-12:00 PM</td>
<td>SSB: Symposium</td>
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<td>8:30 AM-10:00 AM</td>
<td>Networks: Visualizing Complex Phylogenetic Patterns (154–160)</td>
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<td>8:30 AM-10:00 AM</td>
<td>Wohlers 141</td>
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<td>DKH 114</td>
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<td>Greg Hall 100</td>
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<td>10:30 AM-12:00 PM</td>
<td>Greg Hall 112</td>
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<tr>
<td>12:00 PM-1:30 PM</td>
<td>NSF General Presentation</td>
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**Sunday, June 30 • Afternoon**

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<th>Time</th>
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<tr>
<td>1:15 PM-5:00 PM</td>
<td>SSB Symposium</td>
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<td>1:15 PM-3:00 PM</td>
<td>Untangling Coevolutionary History (231–237)</td>
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<tr>
<td>1:15 PM-3:00 PM</td>
<td>Natural History 228</td>
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<td>1:15 PM-3:00 PM</td>
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<tr>
<td>3:30 PM-5:00 PM</td>
<td>Conservation Biology 1 (238–244)</td>
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<tr>
<td>2:30 PM-5:00 PM</td>
<td>Evolution in Microorganisms (251–257)</td>
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<td>2:30 PM-5:00 PM</td>
<td>Hybridization 1 (264–270)</td>
</tr>
<tr>
<td>2:30 PM-5:00 PM</td>
<td>Mating/Breeding Systems (277–283)</td>
</tr>
<tr>
<td>2:30 PM-5:00 PM</td>
<td>Vertebrate Phylogenetics &amp; Systematics 2 (288–291)</td>
</tr>
<tr>
<td>2:30 PM-5:00 PM</td>
<td>Population Genetics 1 (300–306)</td>
</tr>
<tr>
<td>Conservation Biology 1 (cont.) (245–250)</td>
<td>Natural History 228</td>
</tr>
<tr>
<td>Phenotypic Plasticity &amp; GxEx (258–263)</td>
<td>Wohlers 141</td>
</tr>
<tr>
<td>Hybridization 1 (cont.) (271–276)</td>
<td>Mumford 103</td>
</tr>
<tr>
<td>Mating/Breeding Systems (cont.) (284–287)</td>
<td>DKH 114</td>
</tr>
<tr>
<td>Vertebrate Phylogenetics &amp; Systematics 2 (cont.) (295–299)</td>
<td>Greg 112</td>
</tr>
<tr>
<td>Population Genetics 1 (cont.) (307–312)</td>
<td>Greg 100</td>
</tr>
</tbody>
</table>

Conference Picnic – University Arboretum (1st & Florida Ave.) 6:00 PM–9:00 PM

**Monday, July 1 • Morning**

| Registration | Union–South Lounge | 8:00 AM–5:00 PM |
| SSE Symposium | Wohlers 141 | 8:00 AM–12:00 PM |
| New Physiological Approaches to the Study of the Cost of Reproduction (313–320) | Burrell 16D/E | 9:00 AM–12:00 PM |
| Computer Workshop on Visualizing Complex Phylogenetic Patterns with Networks | ASL 150 | 8:30 AM–10:00 AM |
| Sessions | MSEC 100 | 8:30 AM–10:00 AM |
| Coevolution (321–326) | DKH 114 | 8:30 AM–10:00 AM |
| Molecular Evolution 3 (329–337) | Everitt 151 | 8:30 AM–10:00 AM |
| Invertebrate Phylogenetics & Systematics 2 (342–349) | Lincoln 192 | 8:30 AM–10:00 AM |
| Plant Reproductive Biology (356–361) | Burrell 124 | 8:30 AM–10:00 AM |
| Population Genetics 2 (368–373) | Union/Meier | 10:00 AM–10:30 AM |
| Speciation 3 (380–385) | ASL 150 | 10:30 AM–12:00 PM |

**Monday, July 1 • Afternoon**

| Sessions | DKH 114 | 1:15 PM–3:30 PM |
| Conservation Biology 2 (392–400) | Everitt 151 | 1:15 PM–3:30 PM |
| Development & Evolution 2 (401–408 & 165) | Burrell 124 | 1:15 PM–3:30 PM |
| Inbreeding (410–416) | Wohlers 141 | 1:15 PM–3:30 PM |
| Phylogenetic Theory & Methods 1 (417–425) | Lincoln 192 | 1:15 PM–3:30 PM |
| Population Genetics 3 (426–434) | ASL 150 | 1:15 PM–3:30 PM |
| Sexual Selection 1 (435–443) | Foellinger | 2:55 PM–3:30 PM |
| Dobzhansky Prize Talk | Union/Foellinger | 3:30 PM–4:00 PM |
| Break | Foellinger | 4:00 PM–5:00 PM |
| SSB Presidential Address | Foellinger | 5:00 PM–6:30 PM |
| SSB General Business Meeting | Foellinger | 7:00 PM–9:00 PM |
| Poster Session: | Union–Illini Rooms A–B | 7:00 PM–9:00 PM |
| Evolution Film Festival | Foellinger | 7:00 PM–8:30 PM |
**Tuesday, July 2 • Morning**

<table>
<thead>
<tr>
<th>Registration</th>
<th>Union–South Lounge</th>
<th>8:00 AM–5:00 PM</th>
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<tbody>
<tr>
<td>Sessions</td>
<td>DKH 114</td>
<td>8:30 AM–10:00 AM</td>
</tr>
<tr>
<td>Quantitative Genetics 1 (441–449)</td>
<td>Everitt 151</td>
<td>8:30 AM–10:00 AM</td>
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<tr>
<td>Evolution of Behavior (456–460)</td>
<td>MSEB 100</td>
<td>8:30 AM–10:00 AM</td>
</tr>
<tr>
<td>Phylogenetic Theory &amp; Methods 2 (466–471)</td>
<td>Transport 103</td>
<td>8:30 AM–10:00 AM</td>
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<tr>
<td>Population Genetics 4 (478–483)</td>
<td>ASL 150</td>
<td>8:30 AM–10:00 AM</td>
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<tr>
<td>Sexual Selection 2 (490–494)</td>
<td>Burrill 124</td>
<td>8:30 AM–10:00 AM</td>
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<tr>
<td>Hybridization 2 (501–506)</td>
<td>Burrill 124</td>
<td>8:30 AM–10:00 AM</td>
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<tr>
<td>Break</td>
<td>Union/Foellinger</td>
<td>10:00 AM–10:30 AM</td>
</tr>
<tr>
<td>Quantitative Genetics 1 (cont.) (450–455)</td>
<td>DKH 114</td>
<td>10:30 AM–12:00 PM</td>
</tr>
<tr>
<td>Evolution of Behavior (cont.) (461–465)</td>
<td>Everitt 151</td>
<td>10:30 AM–12:00 PM</td>
</tr>
<tr>
<td>Phylogenetic Theory &amp; Methods 2 (cont.) (472–477)</td>
<td>MSEB 100</td>
<td>10:30 AM–12:00 PM</td>
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<tr>
<td>Population Genetics 4 (cont.) (484–489)</td>
<td>Transport 103</td>
<td>10:30 AM–12:00 PM</td>
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<tr>
<td>Sexual Selection 2 (cont.) (495–500)</td>
<td>ASL 150</td>
<td>10:30 AM–12:00 PM</td>
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<tr>
<td>Invertebrate Life History Evolution (507–512)</td>
<td>Burrill 124</td>
<td>10:30 AM–12:00 PM</td>
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**Tuesday, July 2 • Afternoon**

<table>
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<tr>
<th>Sessions</th>
<th>ASL 150</th>
<th>1:15 PM–3:30 PM</th>
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<tbody>
<tr>
<td>Ecological Genetics of Plants (513–521)</td>
<td>Burrill 124</td>
<td>1:15 PM–3:30 PM</td>
</tr>
<tr>
<td>Phylogeography/Geographic Variation 2 (522–528)</td>
<td>Everitt 151</td>
<td>1:15 PM–3:30 PM</td>
</tr>
<tr>
<td>Genomics 2 (529–537)</td>
<td>MSEB 100</td>
<td>1:15 PM–3:30 PM</td>
</tr>
<tr>
<td>Phylogenetic Theory &amp; Methods 3 (538–546)</td>
<td>DKH 114</td>
<td>1:15 PM–3:30 PM</td>
</tr>
<tr>
<td>Phylogenetics &amp; Systematics (547–555)</td>
<td>Union/Foellinger</td>
<td>3:30 PM–4:00 PM</td>
</tr>
<tr>
<td>Break</td>
<td>Foellinger</td>
<td>4:00 PM–5:00 PM</td>
</tr>
<tr>
<td>SSE Presidential Address</td>
<td>Union Ballroom</td>
<td>6:00 PM–9:00 PM</td>
</tr>
<tr>
<td>Banquet, including presentation of Mayr student awards</td>
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</table>
## Scientific Program • Oral Presentations

*After the title indicates a candidate for the Ernst Mayr Student Award
The institution is for the first author only

### Saturday June 29 AM

#### SSE Symposium

**Green Evolution: Evolutionary Theory and Results in Agricultural Systems/Natural History 228**

Organizers: Jay Evans & Sonja Scheffer

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15-8:30</td>
<td>Evolutionary insights from and for agricultural systems</td>
<td>J. Evans, Bee Research Lab, USDA-ARS</td>
</tr>
<tr>
<td>8:30-9:00</td>
<td>Molecular systematics in agriculture: Cryptic species and geographic origins of invasive leafminers</td>
<td>S. Scheffer, USDA, Systematic Entomology Lab</td>
</tr>
<tr>
<td>9:00-9:30</td>
<td>Genetics and phylogeography of Colorado potato beetle colonization of the potato ecosystem</td>
<td>D. J. Hawthorne, University of Maryland</td>
</tr>
<tr>
<td>9:30-10:00</td>
<td>Autocidal pest control: The population genetics of self destruction</td>
<td>F. Gould &amp; P. Schlickelman, North Carolina State University</td>
</tr>
<tr>
<td>10:15-10:45</td>
<td>Overdominance and animal breeding programs</td>
<td>J. Mitton, University of Colorado</td>
</tr>
<tr>
<td>10:45-11:15</td>
<td>Genetic approaches to understanding and manipulating honey bee behavior</td>
<td>R. E. Page, University of California, Davis</td>
</tr>
<tr>
<td>11:15-11:45</td>
<td>Evolutionary ecology of legume-rhizobium interactions: management implications</td>
<td>E. L. Simms, J. D. Bever, &amp; D. Lee Taylor, University of California, Berkeley</td>
</tr>
<tr>
<td>11:45-12:15</td>
<td>Comparative genetics and genomics of disease resistance genes across the Solanaceae</td>
<td>M. Jahn, Cornell University</td>
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</table>

#### Development & Evolution 1

*Wohlers 141*

**Session Moderator:** Kevin Foster

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>The costs and benefits of chimerism</td>
<td>K. R. Foster, A. Fortunato, J. E. Strassmann, &amp; D. C. Queller, Rice University</td>
</tr>
<tr>
<td>8:45</td>
<td>Cooperation and conflict in chimeras of the social amoeba, <em>Dictyostelium discoideum</em></td>
<td>J. Strassmann, A. Fortunato, K. Foster, &amp; D. C. Queller, Rice University</td>
</tr>
<tr>
<td>9:00</td>
<td>New insights into the molecular mechanism of <em>Wolbachia</em>-induced cytoplasmic incompatibility in <em>Drosophila</em></td>
<td>T. Karr, M. Clark, &amp; C. Anderson, The University of Chicago</td>
</tr>
<tr>
<td>9:15</td>
<td>Evolution of the transcriptome in developmental trajectories i: Statistical and theoretical model</td>
<td>J. Kim &amp; S. Rifkin, Yale University</td>
</tr>
<tr>
<td>9:30</td>
<td>Evolution of the transcriptome in developmental trajectories ii: Microarray measurements of <em>Drosophila</em> metamorphosis</td>
<td>S. Rifkin, J. Kim, &amp; K. White, Yale University</td>
</tr>
<tr>
<td>9:45</td>
<td>Quantitative trait loci for organ weights and limb bone lengths in mice</td>
<td>L. J. Leamy, D. Pomp, E. J. Eisen, &amp; J. M. Cheverud, University of North Carolina at Charlotte</td>
</tr>
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</table>

**Session Moderator:** Laura Corley

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30</td>
<td>The development and evolution of proliferation in a polychromatid parasitoid wasp</td>
<td>L.S. Corley &amp; C.K. Rubio, Washington State University</td>
</tr>
<tr>
<td>10:45</td>
<td>Developmental constraint in drosophilid spermatid evolution</td>
<td>M. G. Nielsen &amp; E. C. Raff, University of Dayton</td>
</tr>
<tr>
<td>11:00</td>
<td>Abdominal pigmentation in <em>Drosophila of the cardini</em> subgroup: natural variation, ecological correlations, and developmental considerations</td>
<td>J. A. Brissos, D. De Toni, &amp; I. Duncan, Washington University</td>
</tr>
<tr>
<td>Time</td>
<td>Session/Abstract</td>
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<tr>
<td>11:15</td>
<td>The genetic basis of pigmentation differences between <em>Drosophila americana</em> and <em>D. novamexicana</em>&lt;br&gt;B.L. Williams, P.J. Wittkopp, J.E. Selegue, &amp; S.B. Carroll. Howard Hughes Medical Institute / University of Wisconsin</td>
<td></td>
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<tr>
<td>11:30</td>
<td>Effects of pleiotropy on simultaneous evolution of multiple traits&lt;br&gt;W. Just &amp; F. Zhu. Ohio University</td>
<td></td>
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<tr>
<td>11:45</td>
<td>The role of ontogeny in parallel speciation of scincid lizards&lt;br&gt;J. Richmond. University of Connecticut</td>
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</tbody>
</table>

### Evolution of Sex
Bevier 180

**Session Moderator:** Mark Dybdahl

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>8:30</td>
<td>The genetic basis of host-parasite coevolution: matching alleles, epistasis, and hybrid breakdown in parasite local adaptation&lt;br&gt;M. Dybdahl, C. Lively, &amp; J. Jokela. Washington State University</td>
</tr>
<tr>
<td>8:45</td>
<td>An experimental test of recombination in dengue virus: implications for vaccine design&lt;br&gt;K. Hanley, L. Manlucu, J. Blaney, B. Murphy &amp; S. Whitehead. NID/NIAID/NIH</td>
</tr>
<tr>
<td>9:00</td>
<td>Exactly when is sex environmentally determined?: pattern and process revisited&lt;br&gt;N. Valenzuela, D.C. Adams, &amp; F.J. Lanzen. Iowa State University</td>
</tr>
<tr>
<td>9:15</td>
<td>An unusual sex ratio distortion associated with an unusual system of mitochondrial DNA inheritance: the case of the blue mussel <em>Mytilus</em>&lt;br&gt;E. Kennedy, B. MacDonald, L. Cao, D. Tsagarakis, &amp; E. Zouros. Institute of Marine Biology of Crete, Greece</td>
</tr>
<tr>
<td>9:30</td>
<td>Evolution of gender and sex chromosomes via nuclear methylation driving Muller's ratchet&lt;br&gt;R. Gorelick. Arizona State University</td>
</tr>
<tr>
<td>9:45</td>
<td>The deleterious mutational hypothesis and the evolution of sex&lt;br&gt;R. McBride, M. Travisano &amp; D. Grieg. University of Houston</td>
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### Molecular Evolution 1
DKH 114

**Session Moderator:** Esier Betrán

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Evolution of retroposed genes&lt;br&gt;E. Betrán. University of Chicago</td>
</tr>
<tr>
<td>8:45</td>
<td>The genetic basis of flower color transitions in <em>Ipomoea</em>&lt;br&gt;R.A. Zufall &amp; M.D. Rausher. Duke University</td>
</tr>
<tr>
<td>9:00</td>
<td>Molecular evolution and quantitative variation in the chemosensory signal transduction pathway in caenohabditid nematodes&lt;br&gt;P.C. Phillips &amp; R. Jovelín. University of Oregon</td>
</tr>
<tr>
<td>9:15</td>
<td>Molecular evolution of the HoxA cluster in the three major gnathostome lineages.&lt;br&gt;C.-h. Chiu, C. Amemiya, K. Dewar, Frank Ruddle, &amp; Gunter Wagner. Rutgers University</td>
</tr>
<tr>
<td>9:30</td>
<td>Recombination significantly increases genomic GC content&lt;br&gt;J. A. Birdsell. University of Arizona</td>
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### Saturday June 29 AM, continued

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters/Institutions</th>
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<tbody>
<tr>
<td>9:45</td>
<td>38</td>
<td>Molecular evolution at mutation-selection-drift equilibrium in the bacteriophage phi6</td>
<td>D. Weinreich, D. Hartl, &amp; L. Chao, Harvard University</td>
</tr>
<tr>
<td>10:00</td>
<td>39</td>
<td>Genomic insights into AUX/IAA gene family evolution in Arabidopsis</td>
<td>D.L. Remington, T.J. Vision, &amp; J.W. Reed, North Carolina State University</td>
</tr>
<tr>
<td>10:45</td>
<td>40</td>
<td>Experimental evolution of gene duplicates</td>
<td>A.K. Holloway, University of Texas, Austin</td>
</tr>
<tr>
<td>11:00</td>
<td>41</td>
<td>Evolution of a phytochrome gene pair in Arabidopsis ecotypes</td>
<td>K. McBreen &amp; S. Mathews, University of Missouri</td>
</tr>
<tr>
<td>11:15</td>
<td>42</td>
<td>Molecular evolution of the insect chemoreceptor superfamily in the Drosophila melanogaster and Anopheles gambiae genomes</td>
<td>H.M. Patch &amp; H.M. Robertson, University of Illinois-Champaign</td>
</tr>
<tr>
<td>11:30</td>
<td>43</td>
<td>The codon-degeneracy model: a generally applicable measure of departure from random expectations based on patterns of codon degeneracy</td>
<td>D.A. McClellan, Brigham Young University</td>
</tr>
<tr>
<td>11:45</td>
<td>44</td>
<td>Functional evolution of JGW</td>
<td>J. Zhang, A. Dean, A. Llopard, &amp; M. Long, The University of Chicago</td>
</tr>
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</table>

#### Invertebrate Phylogenetics & Systematics I

**Greg 112**

**Session Moderator: Eric Larsen**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters/Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>45</td>
<td>Phylogenetics of giant water bugs (Belostomatidae): does size matter?</td>
<td>E. Larsen, University of Chicago</td>
</tr>
<tr>
<td>8:45</td>
<td>46</td>
<td>Phylogeny of the Microphorinae (Coleoptera: Silphidae): Evidence from morphological and mtDNA data*</td>
<td>D. Sikes, University of Connecticut</td>
</tr>
<tr>
<td>9:00</td>
<td>47</td>
<td>Phylogenetics of Trigynaspida (Acar: Mesostigmata): morphology, molecules, and hosts*</td>
<td>C-M. Kim, Ohio State University</td>
</tr>
</tbody>
</table>

#### Vertebrate Phylogeography / Geographic Variation

**Greg 100**

**Session Moderator: Kevin Rowe**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters/Institutions</th>
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</thead>
<tbody>
<tr>
<td>8:30</td>
<td>57</td>
<td>Mitochondrial phylogeography of western lowland gorillas (Gorilla gorilla gorilla)</td>
<td>N. Anthony, S. Clifford, M. Johnson-Bawe, K. Abernethy, L. White, K. Jeffery, C. Tutin, I. Wickings and M. Bruford, Cardiff University, Wales</td>
</tr>
</tbody>
</table>
**Saturday June 29 PM**

### Evolution Education Symposium

**Teaching Socially Relevant Examples of Evolution**

*Organizer: Michael Antolin*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
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<tbody>
<tr>
<td>1:15-1:30</td>
<td>Recent events in science education</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>M. Antolin, Colorado State University</td>
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<tr>
<td>1:30-2:00</td>
<td>Overview: Where knowledge of evolution is applied in society</td>
<td>70</td>
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<td></td>
<td>H. Wichman, University of Idaho</td>
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<tr>
<td>2:00-2:30</td>
<td>Evolutionary application in biotechnology</td>
<td>71</td>
</tr>
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<td></td>
<td>J. Bull, University of Texas, Austin</td>
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<tr>
<td>2:30-3:00</td>
<td>Teaching tree thinking with forensic applications</td>
<td>72</td>
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<tr>
<td></td>
<td>J. Herron, Department of Zoology, University of Washington</td>
<td></td>
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<tr>
<td>3:30-4:00</td>
<td>Agriculture, biogeography, and origins of genetic variation</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>M. Antolin, Colorado State University</td>
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### Education Foellinger

*Session Moderator: Jennifer Hurley O’Hara*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
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<tbody>
<tr>
<td>4:00</td>
<td>Teaching about Evolution</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>M. Condon &amp; J. Hurley O’Hara (co-presenters), Cornell College</td>
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<tr>
<td>4:15</td>
<td>Teaching about Evolution</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>M. Condon &amp; J. Hurley O’Hara (co-presenters), Cornell College</td>
<td></td>
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<tr>
<td>4:30</td>
<td>Evolution labs and hands-on experiences across a college curriculum</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>B. Brodman, Saint Joseph’s College</td>
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</tbody>
</table>

### Adaptation

*Wohlers 141*

*Session Moderator: Daniel Heath*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
</tr>
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<tbody>
<tr>
<td>1:15</td>
<td>Rapid genetic divergence among salmon populations at functional marker loci relative to neutral loci</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td>D.D. Heath, R. Hepburn, S. Brode, &amp; M. Docker, GLIER, University of Windsor</td>
<td></td>
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</table>
Saturday June 29 PM, continued

1:30  78 Building 'em big and slow: alternative developmental mechanisms influence growth rate and swimming speeds in tadpoles
J. D. Arendt. University of California, Riverside

1:45  79 Antipredator adaptation in Colubrinae (Serpentes): integration of color pattern and body shape
D. Creer. Washington University

2:00  80 The genetics of adaptation: The distribution of fixed mutational effects on measurable traits is not generally exponential
C.K. Griswold & M.C. Whitlock. University of British Columbia

2:15  81 The power (or lack thereof) of regression approaches to detecting selection in natural populations
E. Hersch & P.C. Phillips. University of Oregon

2:30  82 Evolution of hypercarnivory: The effect of specialization on character change
J. Holliday & S. Steppan. Florida State University

2:45  83 Ecological specialization and adaptive decay in digital organisms
E. Ostrowski, C. Ofria, & R. Lenski. Michigan State University

Session Moderator: Jessica Wright

3:30  84 Local adaptation to serpentine soils in Collinsia sparsiflora: A story of morphology, phenology and physiology
J. Wright, M. Stanton, R. Scherson & D. Thiede. University of California, Davis

3:45  85 Introgression of possibly adaptive QTL across a species barrier in sunflower
R. A. Randell, S.-C. Kim, & L. H. Rieseberg. Indiana University

4:00  86 Cancelled

4:15  87 Phenotypic evolution in fossil sticklebacks and the form of adaptive landscapes
M. Travis & M.A. Bell. SUNY Stony Brook

4:30  88 Chance and necessity in molecular evolution: the genetic basis for adaptation in the long-term E. coli experiment*
R. Woods. Michigan State University

4:45  89 The evolution of enucleated red blood cells in the salamander genus Batrachoseps*
R. L. Mueller. Museum of Vertebrate Zoology, University of California, Berkeley

Agriculture
Natural History 228

Session Moderator: Johnnie Brunet

1:15  90 Pathogens, frequency-dependent selection, and genetic polymorphisms: an experimental test
J. Brunet & C. Mundt. Oregon State University

1:30  91 How herbivores increase the cost of resistance to herbicide
A. J. Gassmann. SUNY-Stony Brook

1:45  180 Non-equilibrium cline models for in-situ manipulative studies of adaptation and dispersal
A. H. Porter & M. B. Baker. University of Massachusetts-Amherst

2:00  93 Associative nitrogen fixation in C4 grasses and the evolution of spittlebugs as sugar cane and pasture pests
V. Thompson. Roosevelt University

2:15  94 Evolutionary trends in Polaskia chilipe (Cactaceae) under domestication in the Tehuacan Valley, Central Mexico*
A. Otero, A. Casas, C. Bartolo, E. Perez-Negron, & A. Vallenite. UNAM National University of Mexico

2:30  95 Phylogeography of Oryza sativa using the Waxy gene: evidence on the origin of glutinous rice
K. Olsen & M. Purugganan. North Carolina State University

Mating Systems/Breeding Systems, Plants
Natural History 228

Session Moderator: Barbara Mable

3:30  96 Self-incompatibility in polyploids: What happens in sporophytic systems?
B.K. Mable. University of Guelph

3:45  97 Mating systems in transition: transient self-incompatibility in Leptosiphon jepsonii
C. Goodwillie, K. L. Partis, & J. West. East Carolina University

4:00  98 Hybridization and sex ratio evolution in Nemopilia warnsii*
C. M. Barr. University of California, Irvine
### Genomics 1
**DHK 114**

**Session Moderator: Keith Adams**

<table>
<thead>
<tr>
<th>Time</th>
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| 1:15 | 102 Differential and unequal expression of genes duplicated by polyploidy during the evolution of tetraploid cottons  
K. Adams, R. Cronn, & J. Wendel. Iowa State University |
| 1:30 | 103 Horizontally transferred genes in plant-parasitic nematodes  
| 1:45 | 104 *Drosophila* and the evolution of transcription profiles  
| 2:00 | 105 Evolutionary dynamics of rodent microsatellites  
M.I. Jensen-Seaman, C.-F. Chen, J. Lu, M.A. Thomas, S. Twigger, P.I. Tonelato, & H.J. Jacob. Medical College of Wisconsin |
| 2:15 | 106 Linkage disequilibrium around Gpdh and the signature of malarial selection in humans  
M.A. Saunders, M.F. Hammer, & M.W. Nachman. University of Arizona |
| 2:30 | 107 Cancelled |
| 2:45 | 108 Effects of Wolbachia on fecundity, longevity, and expression profiles in *D. melanogaster*  
A.J. Fry & D.M. Rand. Brown University |

**Session Moderator: Lindsey Dubb**

<table>
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<tr>
<th>Time</th>
<th>Presentation</th>
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</table>
| 3:30 | 109 Likelihood estimation of parameters of gene family evolution  
L. Dubb, & J. Felsenstein. University of Washington |

### Vertebrate Phylogenetics & Systematics 1
**Greg 112**

**Session Moderator: Kevin Omland**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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| 1:15 | 115 Testing mitochondrial DNA phylogenies for closely related species: microsatellite data for ravens  
K. E. Omland, C. Feldman, J. Marzluff. University of Maryland Baltimore County |
| 1:30 | 116 New nuclear intron agrees with mitochondrial phylogeny: support for plumage convergence in orioles (*Icterus*)  
E. S. Allen, & K. E. Omland. Indiana University |
| 1:45 | 117 Cancelled |
| 2:00 | 118 The evolution of migration in Motacillidae*  
G. Voelker & D. C. Outlaw. Barrick Museum of Natural History |
| 2:15 | 119 Recent speciation and gene coalescence: The evolution of monophyly in New World orioles*  
J. M. Baker & K. E. Omland. University of Maryland, Baltimore County |
Saturday June 29 PM, continued

2:30 120 Patterns of speciation and continental affinities of antillean amazon parrots (Genus Amazona)
M. Russell, R. DeSalle, & G. Amato. CU/Wildlife Conservation Society

2:45 121 Relative rates of molecular evolution in the avian mitochondrial cytochrome b gene: a reevaluation of the body mass correlation*
C. Witt. Louisiana State University

Session Moderator: John Wiens

3:30 122 Paedomorphosis and higher-level salamander phylogeny
J. J. Wiens. Carnegie Museum of Natural History

3:45 123 Evolutionary ecology of the pharyngeal jaw polymorphism in the cichlid fish Herichthus minckleyi
D. Hulse, D. Hendrickson, & F. Garcia de Leon. University of California-Davis

4:00 124 High-level molecular phylogeny of ray-finned fishes
G. Orti and W.-J. Chen. University of Nebraska

4:15 125 Phylogenetic relationships among extant catfishes (Otophyi: Siluroides): a report based on molecular data*
M. Hardman. Illinois Natural History Survey

4:30 126 Phylogenetic relationships of labrid fishes: integration of molecular, morphological and functional data
M. Westneat & M. Alfaro. Field Museum of Natural History

4:45 127 Importance of highly incomplete fossil taxa for the study of zeomorph relationships (Teleostei, Pisces)*
F. Santini. University of Toronto

Invertebrate Phylogeography / Geographic Variation

Greg 100

Session Moderator: Cliff Cunningham

1:15 128 A research coordination network to study the historical ecology of the trans-Atlantic marine biota
C. Cunningham. Duke Biology

1:30 129 Phylogeography in a galling insect in the fragmented habitat of the US Southwest
D. Downie. University of California, Davis

1:45 130 Geographic morphological and genetic variation among populations of the leaf beetle Chrysomela aeneicolis
S. Fearnley, J. Lundblad, & N. Rank. Sonoma State University

2:00 131 Phylogeography of the desert spider, Agelenopsis aperta: evolutionary inferences at the population species interface*
N. Ayoub. University of Tennessee, Knoxville

2:15 132 Species radiation on islands: the bulimulid land snails of Galapagos
C. Parent, & B.J. Crespi. Simon Fraser University

2:30 133 Geographic scale of the X-drive interaction system in Drosophila neotestacea
K. Dyer & J. Jaenike. University of Rochester

2:45 134 Historical biogeography of the western and mexican corn rootworms Diabrotica virgifera virgifera and D.v. zenez

Session Moderator: Charles Ross

3:30 135 Population structure of Drosophila mojavensis based on microsatellite loci
C.L. Ross, T.A. Markow. University of Arizona

3:45 136 Effects of post-glacial range expansion on molecular and quantitative genetic variation in an intertidal copepod
S. Edmonds & J.S. Harrison. University of Southern California

4:00 137 Geographic variation of anonymous rare-cutter restriction fragments in the American oyster, Crassostrea virginica
J.H. McDonald. University of Delaware

4:15 138 Phylogeography of the marine bryozoan Membranipora membranacea: Assessing population history, dispersal routes and taxonomy
H. R. Schwaninger. Agricultural Research Service, USDA

4:30 139 Evolutionary genetics of invasive species
Carol Eunmi Lee. University of Wisconsin, Madison

4:45 140 Quantitative and molecular genetic patterns of hybrid incompatibility in the beetle Tribolium castaneum
J. Demuth & M. Wade. Indiana University
Speciation 1
Mumford 103
Session Moderator: Jeffery Feder

1:15  141 Are "speciation" genes necessarily the holy grail for species phylogenies?
      J. Feder, D. Ortiz-Barrionuevo, M. Noor.
      University of Notre Dame

1:30  142 Microvariance and accelerated molecular diversification: crustaceans in desert springs
      J. Witt, D. Threlfall, & P. Hebert. University of Guelph

1:45  145 The geographical mosaic of speciation in pea aphids
      S. Vla. University of Maryland

2:00  144 Using AFLPs to reconstruct the history of speciation in Laupala
      T. C. Mendelson & K. L. Shaw. University of Maryland

2:15  146 The history of Pleistocene climate change in the American deserts revisited: Clocks, clades and biogeography in the longhorn cactus beetles
      C. I. Smith & B. D. Farrell. Harvard University

2:30  147 Gamete recognition in hybridizing Mytilus populations: Toward a molecular test of reinforcement
      S. A. Springer, & B. J. Crespi. Simon Fraser University

2:45  148 Are human head and body lice products of sympatric speciation?
      D. Reed and D. Clayton. Dept. of Biology, Univ. of Utah

Session Moderator: Jeffery Mckinnon

3:30  148 Ecology, body size and speciation in sticklebacks from five continents and islands
      J. S. Mckinnon, S. Mori & D. Schluter.
      University of Wisconsin-Whitewater

3:45  149 Impacts of predation on the fitness of sympatric sticklebacks and their hybrids
      S.M. Vamosi & D. Schluter. Department of Zoology, University of Toronto

4:00  150 Genetic architecture of floral trait differences in dioecious Silene (Caryophyllaceae)
      A. Widmer & L.H. Rieseberg. Indiana University, Bloomington

4:15  151 Cancelled

4:30  152 Hybrid speciation in yeast
      M. Travisano & D. Greig. University of Houston

4:45  153 Host-associated genetic differentiation in the goldenrod elliptical gill moth
      J. Nason, S. Heard, & F. Williams. Iowa State University

6:00-7:00
Outreach Seminar • Foellinger
The importance of rapid evolution in health, agriculture and biotechnology
Stephen R. Palumbi, Harvard University

Sunday June 30 AM

SSB Symposium

Networks: Visualizing Complex Phylogenetic Patterns
Natural History 228
Organizers: Sydney Cameron, James Whitfield, and Peter Lockhart

8:20-8:30  154 Introductory Remarks

8:30-9:00  155 An introduction to trees and networks
      D. Penny. Institute of Molecular Biosciences, Massey University

9:00-9:30  156 Haplotype networks: New uses for an old technique
      A. Templeton. Washington University

9:30-10:00  157 Phylogeography of leaf beetles at different geographic scales
      P. Mardulyn. Free University of Brussels

10:00-10:30 Break

10:30-11:00  158 Representing complex evolutionary relationships with median networks
      K. Huber. Swedish University of Agricultural Sciences

11:00-11:30  159 Phylogenetic networks: splits-graphs and beyond
      V. Moulton. Uppsala University

11:30-12:00  160 Neighbor-Net
      D. Bryant. McGill University
Sunday June 30 AM, continued

Comparative Biology
Wohlers 141

Session Moderator: Manda Clair Jost

8:30  161 Phylogeny, ontogeny, and parallel evolution in silent crickets (Orthoptera)
      M.C. Jost, & K.L. Shaw. Harvard University

8:45  162 Multivariate analyses of comparative data
      F. I. Rohlf. SUNY Stony Brook

9:00  163 Evolution of A4-lactate dehydrogenase in warm-stenothermal environments: investigating biochemical adaptation in damselfishes (Pomacentridae)
      G. C. Johns & G. N. Somero. Stanford University

9:15  164 New evidence concerning avian digit homology
      H. Larsson & G. Wagner. University of Toronto / Yale University

9:30  409 Ontogeny and evolution in marsupial and placental mammals: Testing constraints
      K. Sears. University of Chicago

9:45  166 Discordant evolution of scapula shape and forelimb function in squirrels
      D. L. Swiderski. University of Michigan

Ecological Genetics 1
Bevier 180

Session Moderator: Michael Bell

8:30  173 Twelve years of rapid evolution in a threespine stickleback population
      M.A. Bell, W.E. Aguirre, & N.J. Buck. Ecol. & Evol., SUNY Stony Brook

8:45  174 Identification of QTL that affect oral jaw morphology in cichlid fishes
      C. Albertson. University of New Hampshire

9:00  175 Cancelled

9:15  176 Divergence for thermal performance and thermal preference among natural isolates of the nematode, C. elegans

9:30  177 Physiological and survival consequences of PGI variation in a montane leaf beetle
      E. Dahlhoff, D. McMillan, & N. Rank. Santa Clara University

9:45  178 Why are ecological replacement species so similar?
      T. Hrbeˇk. University of Konstanz

Session Moderator: Nathan Rank

10:30 179 Shifts in PGI frequency after climate change in a montane insect
      N. Rank & E. Dahlhoff. Sonoma State University

10:45 182 Genetics and physiology of drought adaptation in Arabidopsis thaliana: natural variation, QTL, NILs and transformants
      J. K. McKay, J. H. Richards, & T. Mitchell-Olens. University of California, Davis

11:00 181 Local and global phylogeography of host use in an introduced parasitoid wasp
      C. Baer & M. Antolin. Indiana University

11:15 182 On a genetic model of intraspecific competition and stabilizing selection
      R. Burger. University of Vienna

11:30 171 Grass evolution: new insights using molecules and fossils
      N. Salamin, T. R. Hodkinson, & V. Savolainen. Trinity College

11:45 172 Macroevolutionary patterns of adaptive radiation using four iguanian lizard clades
      J. A. Schulte II, L. J. Harmon, & J. B. Losos. Smithsonian Institution
11:30 183 Disease ecology of Escovopsis, a co-evolved pathogen of fungus-growing ant symbioses
N. Gerardo, U. Mueller, & C. Currie. University of Texas

11:45 184 Enormous populations and ancient species of Neotropical frogs inferred from DNA sequence data
A. J. Crawford. Smithsonian Tropical Research Institute

Life History Evolution
Mumford 103
Session Moderator: Hugh Dingle

8:30 185 Evolution on a fast track: genetic architecture of host induced adaptations in a seed bug (Indetra hematoloma)
H. Dingle, S.P. Carroll, & T.R. Famula. University of California, Davis

8:45 186 The effect of juvenile body size on adult success of an acanthocephalan parasite
M. L. Steinauer. University of Nebraska, Lincoln

9:00 187 Analysis of pleiotropic fitness effects at the insulin receptor locus

9:15 188 Multiple trait selection in Drosophila: Simultaneous evolution of faster development and elongated life span
N. G. Prasad, M. Shakarad, M. Rajamani, & A. Joshi. Jawaharlal Nehru Centre for Adv Scientific Res

9:30 189 Evolution of late-life fecundity
C. Rauser, J. Tierney, S. Gunion, L. Mueller, & M. Rose. University of California, Irvine

Session Moderator: David Reznick

10:30 190 Death III: The evolution of senescence in guppies—the final episode?
D. Reznick & D. Elder. Department of Biology, University of California, Riverside

10:45 191 Local adaptation of offspring size in the Trinidadian guppy: The role of competition
F. Bashey. University of California, Riverside

11:00 192 Evolution of clutch size in tropical birds: correlative and experimental evidence

11:15 193 Precociality and developmental rate
M. L. Zelditch, B. L. Lundrigan, & H. D. Sheets. University of Michigan

11:30 194 Modeling host-parasite coevolution using a nested set of mechanistic models
M. A. Gilchrist & A. Sasaki. Dept. of Biology, University of New Mexico

11:45 195 Evolution and environmental interactions of life history traits in resynthesized polyploid Brassica napus
E. Schranz, L. Lukens, & T. Osborn. University of Wisconsin, Madison

Molecular Evolution 2
DKH 114
Session Moderator: David Pollock

8:30 196 Likelihood analysis of asymmetrical mutation bias in mitochondrial genomes
J.I. Faith & D.D. Pollock. Louisiana State University

8:45 197 Genomic biodiversity in squamate mitochondria
F. Burbrik, J. Faith, & D. Pollock. Louisiana State University

9:00 198 Accelerated mtDNA rate in brood parasitic finches: a case of nearly neutral evolution?
C.N. Balakrishnan, D. Mercer, M.D. Sorenson. Boston University

9:15 199 Molecular evolution of Eeyore and nine other human genes derived from Tigger/pogo
H. Robertson, B. Williams, K.K.O. Walden, & D. Witherspoon. University of Utah

9:30 200 Adaptive evolution of electron transport chain genes in anthropoid primates

9:45 201 Rapid evolution in the photosensory domain of phytochrome A in early angiosperms
S. Mathews, J. G. Burleigh, & M. J. Donoghue. University of Missouri-Columbia

Session Moderator: William Bradshaw

10:30 202 Climate affects rates of molecular evolution
W. Bradshaw. University of Oregon
Sunday June 30 AM, continued

10:45  203  The evolution of introns
       M. Lynch. Indiana University

11:00  204  Cytonuclear coadaptation in \textit{Drosophila}:
       disruption of cytochrome oxidase activity in
       backcross genotypes
       T. B. Sackton & D. M. Rand. Brown University

11:15  205  Evolution of mitochondrial gene
       rearrangement in Bivalvia (Mollusca): an
       examination of phylogenetic signal and
       evolutionary models
       J.M. Serb. University of Alabama

11:30  206  Evidence for gene conversion in the
       evolution of luciferases in bioluminescent
       click beetles of the genus \textit{Pyrophorus}
       (Coleoptera: Elateridae).
       Dame

11:45  207  An experimental test of the codon bias
       hypothesis
       D. Carlini & W. Stephan. American University

\textit{Phylogeography / Geographic Variation 1
Greg 100}

Session Moderator: Tisha Belfiore

8:30  208  The phylogeography of Channel Island
       spotted skunks (\textit{Spilogale gracilis amphithala}):
       an mtDNA assessment
       N. M. Belfiore, D. VanVuren, K. Crooks, & J. A.
       DeWoody. Purdue University

8:45  209  Not sampled but influential: missing
       haplotypes and the phylogeography of dusky
       dolphins (\textit{Lagenorhynchus obscurus})
       I. Cassens, K. Van Waerebeek, P. B. Best, E. A.
       Crespo, J. Reyes, M. C. Millinkovitch. Free
       University of Brussels

9:00  210  Phylochronology of an endemic tuco tuco
       species
       M. van Tuinen, Y. Chan, & E. A. Hadly.
       Stanford University

9:15  211  Phylochronology: Population genetics
       through space and time
       E. Hadly, M. van Tuinen, & C. Conroy.
       Stanford University

9:30  212  Cancelled

\textit{Speciation 2
Greg 112}

Session Moderator: Irby Lovette

8:30  220  Contrasting patterns of diversification in
       temperate and tropical bird radiations
       I. J. Lovette. Cornell University

8:45  221  Evolution of microsatellites in an adaptive
       radiation of Hawaiian honeycreepers
       L.S. Eggert, A. McClung, J. Beadell, & R.
       Fleischer. Smithsonian Institution

9:00  222  Molecular evolution in the groupers and
       coraltrouts
       J. Carlini. University of Florida
9:15  223  Speciation in the water lily *Nymphaea odorata* (Nymphaeaceae): A molecular and morphological analysis of North American populations
K. Niehaus, K.W. Hilu, T. Borsch, & J. Wiersema. Virginia Polytechnic Institute and State University

9:30  224  Evolution of post-zygotic isolation in allopatry: functional evidence for cytonuclear coadaptation
R. S. Burton. Scripps Institution of Oceanography

9:45  225  Genetic analysis of hybrid lethality in *Drosophila*
D. Presgraves. University of Rochester

Session Moderator: Stephen Palumbi

10:30 226  How mutation and selection drive the evolution of gamete recognition genes
S.R. Palumbi. Harvard University

10:45 227  Evolutionary analysis of reproductive proteins in *Allenomobius*
W.E. Braswell, W.J. Swanson, & D.J. Howard. New Mexico State University

11:00 228  Both protein and carbohydrate structures ensure species-specific fertilization in sea urchins
C. H. Biermann. Harvard University

11:15 229  Odorant-binding proteins of *Rhagoletis*
K. M. M. Ramsdell, S. H. Berlocher, & H. M. Robertson. University of Illinois at Urbana-Champaign

11:30 230  Host-plant adaptation drives the parallel evolution of reproductive isolation
P. Nosil, B.J. Crespi, & C. Sandoval. Dept. of Biosciences, Simon Fraser University

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**Sunday June 30 PM**

**SSB Symposium**

**Untangling Coevolutionary History Foellinger**
Organizers: Kevin P. Johnson and Dale H. Clayton

1:15-1:30  231  Untangling cophylogenetic patterns
K. P. Johnson. Illinois Natural History Survey

1:30-2:00  232  Cospeciation of mutualistic bacteria and their ant hosts: Molecular evolution of *Camponotus* endosymbionts
J. Wernigreen, P. H. Degnan, & A. B. Lazarus. JBP Center, Marine Biological Lab

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2:00-2:30  233  Evolutionary relationships and host switching in avian malaria parasites
R. E. Ricklefs & S. M. Fallon. University of Missouri-St. Louis

2:30-3:00 234  The origin and maintenance of a coevolved mutualism
G. Weiblen. University of Minnesota

3:30-4:00 235  Coevolution of the brood parasitic finches (*Vidua* spp.) and their estrildid hosts
M. D. Sorenson & R. R. Payne. Boston University

4:00-4:30 236  Biogeography explains cophylogenetic patterns in toucan lice
J. Weckstein. Louisiana State University

4:30-5:00 237  The ecological basis of coevolutionary history

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Conservation Biology 1
Natural History 228

Session Moderator: Jason Koontz

1:15  238  Host preferences and genetic diversity in the Illinois-threatened *Agalinis auriculata* (Scrophulariaceae)
J. Koontz, B. Molano-Flores, M. A. Feist, & C. Whelan. Illinois Natural History Survey

1:30  239  Effective population size and genetic drift in the clonal, self-incompatible plant *Hymenoxyis herbececa*
L.G. Campbell & B.C. Husband. Ohio State University

1:45  240  Genetic diversity of two cedar glade perennials with disjunct populations, *Astragalus tennesseensis* and the federal endangered *Dalea foliosa*
A. Edwards, B. Wiltshire, & D. Nickrent. Illinois Natural History Survey

2:00  241  Seed bank recruitment and its influence on population genetic structure of a regionally endangered prairie annual
S. Lyons-Sobaski, S. Berlocher, & J. Beever. University of Illinois at Urbana-Champaign

2:15  242  Comparing traits in introduced invasive and non-invasive Asteraceae, from regions of origin and introduction
N.Z. Muth & M. Pigliucci. University of Tennessee
Sunday June 30 PM, continued

2:30 243 Arizona cliffrose and the hybrid swarm: Does genetic isolation reflect adaptive variation?
S. Travis, J. Baggs, & J. Maschinski. USGS National Wetlands Research Center

2:45 244 Conservation of genetic diversity in American ginseng under harvest pressure
J. M. Cruse-Sanders & J. L. Hamrick. University of Georgia

Session Moderator: Cam Muir

3:30 245 Conservation implications of hybridization in Hawaiian picture wing Drosohilia
C. Muir, S. Moore, & D.K. Price. University of Hawai‘i at Hilo

3:45 246 Go west, young cyprid? Molecular markers, mean dispersal distance, and functional marine reserves
E. Sotka & S. Palumbi. Harvard University

4:00 247 Reconstructing the history of global dispersal in Dreissena bugensis, an invasive bivalve, using microsatellite markers
T. Therriault. GLER, Univ. of Windsor

4:15 248 Effects of population size, environment, and pathogen resistance on fitness and extinction
D. Dinh & M. Travisano. University of Houston

4:30 249 A cryptic species complex of gall wasps (Hymenoptera: Cynipidae: Antistrophus spp.) feeding in prairie perennials (Asteraceae: Silphium spp.)
J. F. Tooker & L. M. Hanks. Dept. of Entomology, University of Illinois at Urbana-Champaign

4:45 250 Demographic genetics of northern red oak and shumard oak from Indiana old growth forest
P. Aldrich, G. Parker, C. Michler, & J. Romer-Severson. USDA Forest Service / Purdue University

1:30 252 Pathoadaptive variation in E. coli: recent, recurrent, and recombinant
M. Feldgarden, E. Sokurenko, & D. E. Dykhuisen. Dept. of Ecology & Evolution, SUNY Stony Brook

1:45 253 Experimental evolution in extreme environments: Long-term evolution of E. coli under UV stress
R. Goldman & M. Travisano. University of Houston

2:00 254 Evolution of expanded host range in bacteriphage of Bacillus: correlations with host range breadth and host phylogeny
G. Krukonis & F. Cohan. Wesleyan University

2:15 255 Trade-offs between niche breadth and resistance to predation in E. coli
M. Quance & M. Travisano. University of Houston

2:30 256 The tempo of experimental evolution.
F. B.-G. Moore. University of Akron

2:45 257 Ancient polymorphism and adaptive evolution in the trichotheceine mycotoxin gene cluster of phytopathogenic Fusarium

Phenotypic Plasticity & GxEx
Wohlers 141
Session Moderator: Joe Hereford

3:30 258 Environmental dependence of environmental maternal effects in an annual plant, Diodia teres
J. Hereford & K. Moriuchi. Florida State University

3:45 259 Ecological and evolutionary implications of overcompensation in plants: the importance of nutrient level
J. Banta, W. Denning, & M. Pigliucci. University of Tennessee

4:00 260 Phenotypic plasticity and integration in Arabidopsis
M. Pigliucci & A. Kolodinska. University of Tennessee

4:15 261 Environmental heterogeneity and plasticity of maternal provisioning: A case study in Amphiparra bracteata
A.M. Wilczek & F.A. Bazzaz. Harvard University
262 Social stress and selective consequences of plasma corticosterone in female lizard morphs
T. Comendart, B. Sinervo, E. Svensson, & J. Wingfield. University of California, Santa Cruz

263 Does it cost you?: Morphological plasticity versus genetic divergence across different levels of trophic polymorphism of Lepomis gibbosus
K. Parsons & B.W. Robinson. University of Guelph

Session Moderator: Laura Reed

3:30 Early events in speciation: polymorphism for hybrid male sterility factors
I. Reed & T. Markow. University of Arizona

3:45 Speciation via hybridization in a bisexual animal?—Rhagoletis hybrids colonize introduced honeysuckle
D. Schwarz. Pennsylvania State University

4:00 Hybridization and speciation in water fleas
D. J. Taylor. University at Buffalo, SUNY

4:15 Immortal mules: hybridization and speciation in Caribbean corals
S. V. Vollmer & S. R. Palumbi. Harvard University

4:30 Movement, climate, and evolution in the Allonemobius fasciatus—A. socius mosaic hybrid zone.
S.C. Britch & D.J. Howard. New Mexico State University

4:45 The relevance of cryptic Daphnia species
M. A. Duffy, A. J. Tessier, & M. Kosnik. Kellogg Biological Station/Michigan State University

Hybridization I
Mumford 103

Session Moderator: Jason Rauscher

1:15 Multiple origins of several hybrid lineages in the Glycine tomentella (Leguminosae) allopolyploid complex: evidence from nuclear and chloroplast sequence data

1:30 Hybridization in small populations of red mulberry (Morus rubra L.): molecular and morphological evidence
K. S. Burgess & B. C. Husband. University of Guelph

1:45 Short and long term consequences of hybridization in Avena barbata
A.D. Johansen & R.G. Latta. Dalhousie University

2:00 The origin of ecological divergence in Helianthus paradoxus (Asteraceae): selection on transgressive characters in a novel hybrid habitat
C. Lexer, M. Welch, O. Raymond, & L.H. Rieseberg. Indiana University

2:15 Integrating morphology and phylogeography in the study of hybridization: chipmunks (Tamias) in the Northern Rocky Mountains

2:30 Molecular evidence for gene flow between species of Heliconius

2:45 Possible barriers to gene exchange in hybridizing field crickets (Gryllus)
G. Hume & R. Harrison. Cornell University

Mating/Breeding Systems
DKH 114

Session Moderator: John Cooker

1:15 Sex roles in cicada pair formation
J. Cooley. The University Of Connecticut

1:30 Evolution of ant polyandry and the single male
A. S. Mikheyev. Florida State University

1:45 Evolution of contact chemoreception in longhorned beetles (Coleoptera)
M.D. Ginzel & L.M. Hanks. University of Illinois at Urbana-Champaign

2:00 Whole brood mortality increases the opportunity for female-biased sex ratios under local mate competition
S. Freedberg. Indiana University

2:15 Selection on mating system inferred from a Mimalius hybrid zone
J. Dole. University of Tennessee
Sunday June 30 PM, continued

2:30  282  The influence of *Mimulus ringens* floral display size on selfing rates and patterns of paternity
      J. Karron, R. Mitchell, K. Holmquist, & J. Bell. University of Wisconsin, Milwaukee

2:45  286  The evolution of the Tasselseed2 gene in the grass genus Bouteloua
      M. S. Kinney & E. A. Friar. Rancho Santa Ana Botanic Garden

Session Moderator: Laura Geyer

3:30  284  Where have all the hybrids gone? Cryptic female choice in tropical sea urchins*

3:35  285  The evolution of androgeesis, the production of offspring carrying only paternal genes
      M.J. McKone & S.L. Halpern. Carleton College

4:00  286  Hybridization and male parental investment in eutherian mammals*
      C. Welch, R. Pierotti, & D.S. Pennock. University of Washington

4:15  287  Molecular evolution of the hominoid semenogelin genes
      M.I. Jensen-Seaman & W.-H. Li. Medical College of Wisconsin

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Vertebrate Phylogenetics & Systematics II
Greg I12

Session Moderator: Michael Smith

1:15  288  Molecular evolution and systematics of *Mazama* and *Odocoileus* in the Yucatan
      M. Smith, J. Purdue, & T. Oleksykt. Savannah River Ecology Lab

1:30  289  Evolution of aposematism in dendrobatid frogs
      D. Cannatella, L. Coloma, & J.C. Santos. University of Texas

1:45  290  Molecular phylogeny and biogeography of Ranoida (Amphibia, Anura)
      F. Bossuyt, R. Brown, D.M. Hillis, M.C. Millinkovitch, & D.C. Cannatella. Free University of Brussels

2:00  291  Systematics of North American bufoinid toads: nuclear versus mitochondrial inferences
      S. Masta & E. Routman. San Francisco State University

2:15  292  SE Asian forest frog phylogeny (genus *Platymantis*) and a comparison of parsimony, likelihood, and Bayesian methods of inference*
      R. M. Brown. University of Texas at Austin

2:30  293  The phylogenetic history of the Anolis *cristatellus* group: a morphological and molecular analysis using frequency parsimony and maximum likelihood methods*
      M. Brandley & K. de Queiroz. San Diego State University

2:45  294  Limb loss in scincid lizards: a comparison of character optimization methods
      A.S. Whiting, J.W. Sites, & A.M. Bauer. Brigham Young University

Session Moderator: Conrad Matthee

3:30  295  Molecular phylogenetics of the African mole-rat genus Cryptomys: Species designations and patterns of chromosomal evolution*
      C. Ingram, H. Burda, & R.L. Honeycutt. Texas A&M University

3:45  296  Molecular evolution of the Lagomorpha: total evidence derived from nuclear and mtDNA data.
      C.A. Matthee, D. Bell, & T.J. Robinson. Stellenbosch University

4:00  297  The silent sites are talking to us—should we be listening?
      R. W. DeBry. University of Cincinnati

4:15  298  The position of the Geomyoidea and Castoroidea within Rodentia: evidence from complete mitochondrial genome sequences*
      L. Frabotta & R. Honeycutt. Texas A&M University

4:30  299  Phylogeny of mysticete whales based on mitochondrial and nuclear sequence data*
      A. Rychel, T. Reeder, & A. Berta. San Diego State University
Population Genetics I
Greg Hall 100
Session Moderator: Stephen Proulx

1:15 300 Metapopulation structure favors reduced mutation repair

1:30 301 Notes on the simulation of evolution
W. Atmar. AICS Research, Inc. & The Field Museum, Zoology

1:45 302 Invasion genetics of a prolific, voracious predator: Comparison of genetic structure with colonization history
R. Colautti, D. Heath, H. MacIsaac. Great Lakes Institute, University of Windsor

2:00 303 Population dynamics of an enigmatic host/symbiont interaction in east Africa: Drosophila simulans and Wolbachia sp.*
M. Dean, K. I. Ballard, A. Glass, & J. W. O. Ballard. University of Iowa

2:15 304 The evolution of cold tolerance
P. Zani. University of Oregon

2:30 305 Microsatellite and mtDNA based population genetic structure of blind mole rats in Israel
P. Karanth, A. Arivi, & E. Nevo. State University of New York

2:45 306 Global pattern of human DNA sequence variation in non-coding regions
N. Yu & W.-H. Li. University of Chicago

Session Moderator: Hapii Hoekstra

3:30 307 The functional role of adaptive nucleotide variation in pocket mouse coat color
H.E. Hoekstra & M.W. Nachman. University of Arizona

3:45 308 Species or host races? Spatial and temporal genetic structure of brood parasitic Indigobird populations
K. M. Sefc, R. B. Payne, & M. D. Sorenson. Boston University, Dept. of Biology

4:00 309 Natural selection on protein polymorphism in rodents: evidence from interlocus contrasts
J. F. Storz. University of Arizona

4:15 310 Genetic variation in sexual and hybrid parthenogenetic geckos of the Heteronotia binoei complex

J. Strasburg. Washington University

4:30 311 Molecular population genetics of human visual pigment genes
B.C. Verrelli & S.A. Tishkoff. University of Maryland

4:45 312 Long distance linkage disequilibrium in the Han Chinese and mixed Amerindian populations
K. Mather, M. President, S. Easteal, J. Hollenbach, W. Klitz, G. Huttley, & G. Thomson. University of California, Berkeley

Monday, July 1 AM

SSE Symposium

New Physiological Approaches to the Study of the Cost of Reproduction
Wohlers 141
Organizers: Anthony Zera and Lawrence Harshman

8:05-8:15 313 Introduction

8:15-8:45 314 Metabolic basis of the cost of reproduction: radiotracer and endocrine studies of lipid metabolism in a wing-polymorphic cricket
A. Zera. University of Nebraska

8:45-9:15 315 Love potions and poisons: Drosophila seminal proteins and the cost of mating
M. Wolfner. Cornell University

9:15-9:45 316 Cost of egg production in Drosophila melanogaster
L. Harshman. University of Nebraska

9:45-10:15 317 Sexual dimorphism, sexual selection and the cost of reproduction: what population surveys and correlated responses to selection have revealed
L. Delph. Indiana University

10:30-11:00 318 Testosterone manipulations reveal physiological and fitness costs of increased territorial aggression in male lizards under field conditions
C. Marler. University of Wisconsin, Madison

11:00-11:30 319 Immunosupression as a cost of reproduction
V. Apanius. Florida International University

11:30-12:00 320 Nutrient bottlenecks during reproduction in laboratory and natural systems
K. Hammond. University of California, Riverside
Monday, July 1 AM, continued

9:00-12:00  Computer Workshop • Burrill 164 D/E
Visualizing complex phylogenetic patterns
with networks
P. Lockhart, S. Cameron, & J. Whitfield.
University of Illinois, Urbana-Champaign

Co-evolution
ASL 150
Session Moderator: May Berenbaum

8:30  321 Chemical phenotype matching in
webworms and wild parsnips: coevolution
or coincidence?
M. Berenbaum & A. Zangerl. University of
Illinois at Urbana-Champaign

8:45  322 Flowering time and tolerance to defoliation
in Brassica rapa: The evolution of civil
defense as a correlated trait
A.E. Wels, E.L. Simms, & K.A. Stowe.
University of California, Irvine

9:00  323 Adaptive dynamics: a theory of phenotypic
trait evolution
F. Jacobs. University of Tennessee

9:15  324 Pectinopyges: heirlooms or souvenirs?
Cophylogeny of the Pelecaniformes and
their parasitic lice.
University of Glasgow

9:30  325 Cancelled

9:45  326 Roosting habits of Neotropical bats affect
prevalence, intensity and host specificity of
parasitic bat flies
C. W. Dick, B. D. Patterson, J. B. Bender, M. D.
Dean & R. L. Wenzel. Texas Tech University

Species Interactions
ASL 150
Session Moderator: Joel Sachs

10:30  327 The evolution of cooperation: a perspective
J.L. Sachs. University of Texas, Austin

10:45  328 The role of ecological interactions as
mechanisms of selection in evolution
M. Devaraj, India

11:00  329 Avian predators can maintain
polymorphism in aposomatic butterflies
G. Langham. Cornell University

11:15  330 Morphological consequences of
interspecific competition between Plectodon
jordaniai and P. terahalce in the Great Smoky
and Balsam Mountains
D. C. Adams. Iowa State University

11:30  331 Coevolution of deadly toxins and predator
resistance: Behavioral modification of toxin
exposure by a snake predator
B. L. Williams, E. D. Brodie Jr., & E. D. Brodie
III. Utah State University

Molecular Evolution 3
MSEB 100
Session Moderator: Amy Lawton-Rauh

8:30  332 Molecular evolution and population
genetics of regulatory genes in an adaptive
radiation
A. Lawton-Rauh, R. H. Robichaux & M. D.
Purugganan. North Carolina State University

8:45  333 Analysis of high diversity genes in
Arabidopsis thaliana
J. Cork, M. Purugganan. North Carolina State
University

8:45  334 The young and the recombinant: rapid
generation of piscine MHC alleles revealed
by intron/exon comparisons
S. Cohen. Harvard University

9:00  335 Expression of the rRNA gene family in
Tigriopus californicus: biased transcription in
inter-population hybrids
J. Flowers & R. Burton. Scripps Institution of
Oceanography, UCSD

9:15  336 The evolution of nuclear and mitochondrial
subunits of cytochrome c oxidase
R. Haney & D. Rand. Brown University

9:45  337 Molecular population genetics of light color
polymorphism in the bioluminescent click
beetle, Pyrophorus plagiocephalus
(Coleoptera: Elateridae)
U. Stolz, S. Velez, & J. Feder. University of
Notre Dame

10:30  338 Patterns of nucleotide diversity are shaped
by mating system in Mimulus
Sphinx, a young chimeric RNA gene in Drosophila melanogaster and its unusual variation patterns in populations
W. Wang, F. G. Brunet, K. Thornton, E. Nevo, & M. L. University of Chicago

Pre-miotic clusters of mutation and the rate of substitutions: Is k = u?
R. C. Woodruff & J. N. Thompson, Jr. Bowling Green State University

Differences in methylation patterns between parental populations and backcross hybrids of the intertidal copepod Tigriopus californicus
J. S. Harrison & S. Edmands. University of Southern California

Selection on a novel sperm protein within and among species of common blue mussels
C. Rigos. Duke University

Comparative molecular evolution of a Numt pseudogene in voles (Rodentia)*
D. A. Triant & J. A. DeWoody. Purdue University

Invertebrate Phylogenetics & Systematics 2
DKH 114
Session Moderator: Karen Ober

Phylogenetic relationships of the lebiomoph assemblage and the rapid radiation of the subfamily Harpalinae (Coleoptera: Carabidae)
K. Ober & D. Maddison. University of Connecticut

Phylogenetic analyses of the shallow-water Caribbean octocorals using mitochondrial DNA sequences (NADH-dehydrogenase subunits 2-6, and MSH) and morphological characters*

Morphology, mtDNA, and speciation patterns in Puerto Rican Lepidocyclus (Hexapoda: Collombola)
F. Soto. University of Vermont

History of host-plant association in north American Trirhabda leaf beetles (Coleoptera, Chrysomelidae) inferred from molecular data*
Z. Swigonova & K. M. Kjer. Rutgers University

Ancestral reconstructions and phylogenetic effects in evolution of development in Crepidula (Gastropoda)
R. Collins. STRI

Phylogeny of the Acroceridae (Diptera) using multiple molecular markers
S. L. Winterton, B. M. Viegmann, & E. I. Schlinger. North Carolina State University

Plant Reproductive Biology
Everitt 151
Session Moderator: Veronique Delesalle

Exploring tradeoffs between flower and fruit production in Clarkia unguiculata (Onagraceae)
V. Delesalle. Gettysburg College

Constraints on the evolution of dioecy: Comparison of quantitative genetic parameters for sexual traits in three populations of gynodioecious Fragaria virginiana
T-L. Ashman. University of Pittsburgh
Monday, July 1 AM, continued

9:00 358 Context-dependent selection for gender and sexual dimorphism in gynodioecious wild strawberry
A. Case & T-L. Ashman, University of Pittsburgh

9:15 359 Breeding strategy of Rhizophora mangle
D. J. Devlin, S. L. Grace, & S. E. Travis, University of Louisiana at Lafayette

9:30 360 The evolution and maintenance of dioecy in Sagittaria latifolia (Alismataceae)
M. E. Dorken & S. C. H. Barrett, University of Toronto

9:45 361 Severe genetic cost of reproductive assurance in Aquilegia canadensis
C.R. Herlihy & C.G. Eckert, Queen's University

Session Moderator: Lorne Wolfe

10:30 362 On the road again: reproductive consequences of the invasion process in Silene latifolia
L. Wolfe, Georgia Southern University

10:45 363 The evolution of developmental plasticity: A case study of sex expression in Solanum
J. S. Miller & P.K. Diggle, University of Colorado

11:00 364 Apomictic and polyploid evolution in the Australian arid-zone mulga species complex (Acacia: Fabaceae)
J. Miller, University of Iowa

11:15 365 The effect of inflorescence size on the functional significance of protandry in Chamerion angustifolium (Onagraceae)
M. Routley, & B. Husband, University of Guelph

11:30 366 Adaptive plasticity, parental effects, and parental care in plants: a case for Plantago lanceolata.
E. Lacey, University of North Carolina-Greensboro

11:45 367 Cancelled

Population Genetics
Lincoln 192
Session Moderator: Sean Collins

8:30 368 Microsatellite variation in the North American population of the hornet, Vespa crabro
S. A. Collins & S. H. Berlocher, University of Illinois at Urbana-Champaign

8:45 369 Little background selection, but some adaptation, on lepidopteran W chromosomes
P. Andolfatto, J. M. Sibber & B. Charlesworth, ICAPB, University of Edinburgh

9:00 370 Linkage limits the power of natural selection in Drosophila
A. Betancourt, D. Presgraves, University of Rochester

9:15 371 Selection at linked sites in the partial selfer Caenorhabditis elegans
A. D. Cutter & B. A. Payseur, University of Arizona

9:30 372 Time transect of genetic change in a recently founded Daphnia population
J.A. Fox & N.G. Hairston, Jr, Cornell University

9:45 373 The effective population size of annuals: seed banks and fluctuating numbers
L. Nunney, University of California, Riverside

Session Moderator: John Wakeley

10:30 374 Gene genealogies when the sample size exceeds the effective population size
J. Wakeley, Harvard University

10:45 375 Genetic conflict and the imprinting of sex-linked genes
H. G. Spencer, A. E. Weisstein, & M. W. Feldman, University of Otago

11:00 376 Patterns of genetic variation on the fourth chromosome of Drosophila melanogaster and D. simulans
K. Thornton, W. Wang, J.J. Emerson, & M. Long, University of Chicago

11:15 377 Estimating effective population size and migration rates from genetic samples over space and time
J. Wang & M. C. Whitlock, Zoological Society of London
11:30 378 Control of gene expression? A population genetic model of the evolution of imprinting
      A. Weisstein & H. Spencer. University of Otago

11:45 379 Stress-induced assortative mating and the evolution of stress resistance
      J. Winterer & A. E. Weis. Franklin and Marshall College

8:30  380 The genetics of reinforcement in Drosophila
      D. Ortiz-Barrientos & M.A.F. Noor. Louisiana State University

8:45  381 Genome-wide patterns of expression in Drosophila pure-species and hybrid males
      M.A.F. Noor, L.A. Bertucci, & J. Reiland. Louisiana State University

9:00  382 The evolution of conspecific sperm precedence in Drosophila
      S. M. Dixon, J. A. Coyne, & M. A. F. Noor. Louisiana State University

9:15  383 Acp sequence polymorphism in Drosophila melanogaster from Evolution Canyon
      T. Panhuis. University of California, Riverside

9:30  384 A speciation experiment: Selection for divergent courtship form results in reproductive isolation
      L. Meffert & S. Hicks. Rice University

9:45  385 Cladogenesis without sex
      C. W. Birky Jr., E. Henry, L. Herbertson, & C. Wolf. University of Arizona

10:30 386 Lower barriers to persistence of novel tetraploids in a spatial model
      E. Baack. Center for Population Biology, University of California, Davis

10:45 387 Cancelled

11:00 388 Adaptive diversification and inter-island dispersal in the Hawaiian genus Dituba ita
      E. A. Friar. Rancho Santa Ana Botanic Garden

11:15 389 How does one species become two? Differentiation in morphology, molecules, and reproductive compatibility within Silene rotundifolia
      L. C. Moyle & J. Antonovics. Duke University

11:30 390 Recurrent tetraploid formation, triploid bridge and sympatric coexistence of diploid and tetraploid Chamerion angustifolium (Onagraceae)
      B.C. Husband & T.L. Burton. University of Guelph

11:45 391 Ecological divergence in experimental microcosms
      G. Saxter, M. Doeble, & M. Travisano. University of Houston

Monday July 1 PM

1:15  392 Assessing conservation decisions in a demographic context
      A. Keyser, M. Keyser, & D. Promislow. University of Georgia

1:30  393 Phylogenetics and invasive species: the case of synbranchid eels in the southeastern U.S.

1:45  394 Population differentiation and conservation of song sparrows (Melospiza melodia) in the San Francisco Bay region inferred by morphological and microsatellite loci analysis
      Y. Chan & P. Arcese. Stanford University

2:00  395 Conservation implications of systematics in Southeast Asian Turtles*
      T. Engstrom, P. Spinks, B. Shaffer, & W. McCord. University of California, Davis

2:15  396 Ancestral population size in elephant seals and right whales inferred from intron sequence divergence at multiple loci
      M.P. Hare & S.R. Palumbi. University of Maryland

2:30  397 Ecotones, gradients and environmental transitions in evolutionary ecology
      S. Kerk. Stanford University

2:45  398 The evolution of indian ocean giant tortoises
      E. P. Palkovacs, J. Gerlach, & A. Caccone. Yale University
Monday July 1 PM, continued

3:00  399 Conservation genetics of the greater prairie chicken
      J.A. Johnson & P.O. Dunn. University of Wisconsin, Milwaukee

3:15  400 Cancelled

Development & Evolution 2
Everitt 151
Session Moderator: Andrea Gargas

1:15  401 Metabolic pathway evolution in fungi
      A. Gargas. University of Wisconsin, Madison

1:30  402 Using phylogeny to study development
      E. A. Kellogg, A. Doust, & S. Malcomber. University of Missouri, St. Louis

1:45  403 Evolutionary loss of canalsized leaf-shoot organization in Streptocarpus (Gesneriaceae)
      Q.C.B. Cronk, C.J. Harrison, M. Moeller & A. Hudson. University of Edinburgh

2:00  404 Single-gene mutations accounting for photoperiod-sensitivity differentiation between wild rice species
      T. Sang, C.-B. Li, & A.-L. Zhou. Michigan State University

2:15  405 Moving genes between species to test evolutionary developmental hypotheses: The role of LEAFY in the evolution of plant architecture in Brassicaceae
      H.-S. Yoon & D. A. Baum. University of Wisconsin

2:30  406 Developmental genetic models for the evolutionary origin of the angiosperm flower
      D. A. Baum. University of Wisconsin

2:45  407 Variation, canalization and asymmetry: Exploring Waddington's legacy
      J.M. Dworkin. University of Toronto

3:00  408 Functional evolution of a vertebrate transcription factor protein: HoxA-11 in the fin-limb transition
      J. J. Roth, Chi-hua Chiu, C. P. Wagner. Yale University

3:15  415 Floral symmetry genes are implicated in the evolution of stamen number in Antirrhineae (Veronicaceae)*
      L. C. Hileman, E. M. Kramer, & D. A. Baum. Harvard University

Inbreeding
Burrill 124
Session Moderator: Don Waller

1:15  410 Does inbreeding purge the load?
      Experiments with Brassica rapa
      D. Waller, J. Dole, and A. Bersch. Univ. of Wisconsin, Madison

1:30  411 Field tests of inbreeding effects on tolerance to herbivory and host plant quality in Mimulus guttatus

1:45  412 Likelihood ratio tests of the deleterious mutation model
      J. Kelly. University of Kansas

2:00  413 Inbreeding depression in perennial lupine: Does population size matter?

2:15  414 Mutational meltdown: Does ecology matter?
      B. H. Davis & P. A. Abrams. University of Toronto

2:30  415 Genetic load in chinook salmon (Oncorhynchus tshawytscha): Evidence from genetic analysis of hermaphrodite progeny
      B. Young, D. Roy, G. Cho, & D.D. Heath. GLIER, University of Windsor

2:45  416 Joint evolution of gynodioecy and recessive mutations in genetically explicit models
      S.T. Schultz. University of Miami

Phylogenetic Theory & Methods 1
Wohlers 141
Session Moderator: David Hillis

1:15  417 Analysis and visualization of phylogenetic tree-space
      D. M. Hillis, D. J. Zwickl, J. Klinger, & A. B. Amenta. University of Texas

1:30  418 Using the quantitative genetics threshold model for discrete character phylogenies
      J. Felsenstein. University of Washington

1:45  419 Should we assume a common set of branch lengths for different sets of characters?
      M. Holder, P. Lewis, & D. Swoford. University of Connecticut
Bayesian approaches to data combinability and phylogenetic information content
P. Lewis, M. Holder, S. Shoup, & L. Lewis. University of Connecticut

Bayesian inference of phylogenetic trees under no-common-mechanism models
D. Swofford, M. Holder, & P. Lewis. Florida State University

A new efficient heuristic for tree inference under Mt.
M. C. Milinkovitch. University of Brussels

Using distance methods to build super-trees from GenBank gene trees
R. Ree & M. J. Sanderson. University of California, Davis

Identifying evolutionary mode in morphologic and molecular data: Testing the tests
J. Marcot. University of Chicago

The applicability of mixed likelihood models in phylogenetic inference*
D. J. Zwickl. University of Texas, Austin

Optimal spatial statistics for analyzing structured populations
B.K. Epperson. Michigan State University

Activity variation within and between alcohol dehydrogenase (ADH) paralogues in Drosophila melanogaster and D. arizonae
L. M. Matzkin & W. F. Eanes. State University of New York at Stony Brook

Balancing selection and divergent allele advantage
C. Muirhead. Harvard University

McDonald-Kreitman tests in regions of low recombination in Drosophila

Sexual Selection I
ASL 150

Going along for the ride: the adaptive significance of prolonged copulation in a water strider
D. Fairbairn. University of California, Riverside

Juvenile hormone affects eye-span in stalk-eyed flies
C. Fry. University of Maryland, College Park

Sexual selection drives convergent modification of wing morphology for sonation in the Pipridae (Aves)*
K. S. Bostwick. University of Kansas/ Cornell University

Multiple signals for multiple receivers: Experience-related differences in female choice of male traits
S. Coleman. University of Maryland

Differentiation in sexually selected traits between the guppy and Endler's livebearer from natural populations
H.J. Alexander & F. Breden. Simon Fraser University

Evolution of sexual dimorphism in spottail darters
R. Strange. Southeast Missouri State University
Monday July 1 PM, continued

2:45 441 Evolution of retinal structure and color communication in percid fishes
    K. Lawrence, K. McFarland, & R. Strange. Southeast Missouri State University

3:00 442 Cancelled

3:15 443 The cost of mating in a sperm heteromorphic fly
    R. Snook. University of Sheffield

2:55–3:30 SSE Dobzhansky Prize Winner • Foellinger
    Speciation in the wild: Natural selection and the evolution of reproductive isolation in sticklebacks
    Howard Rundle, Simon Fraser University, British Columbia

4:00–5:00 SSB: Presidential Address • Foellinger
    A unified species concept and its consequences for systematic and evolutionary biology
    Kevin de Queiroz, Smithsonian Institution

Tuesday July 2 AM

Quantitative Genetics I
DKH II/4

Session Moderator: Derek Roff

8:30 444 The evolution of genetic architecture: A new method of analysis
    D. Roff. University of California, Riverside

8:45 445 Quantitative trait loci underlying architectural diversity and domestication in millet grasses
    A. Doust & E. Kellogg. University of Missouri, St Louis

9:00 446 An exact formulation of phenotypic selection and the nature of heritability
    J.S. Heywood. Southwest Missouri State University

9:15 447 From M through G to D
    D. Houle & J. Mezey. Florida State University

9:30 448 Comparing G matrices: what common principal components can tell us
    J. Mezey. Florida State University

9:45 449 Variation in flowering phenology and assortative mating in plants: new methods applied to Brassica rapa
    T. Kessler & A.E. Weis. University of California, Irvine

Session Moderator: Olav Rüppell

10:30 450 Quantitative genetics of the rate of adult development in honey bees
    O. Rüppell, T. Parkiu, M.K. Fondrk, & R.E. Page Jr. University of California, Davis

10:45 451 Evolution of regulatory genetic pathways: Branched pathways and the G matrix
    N. Johnson & A. Porter. University of Massachusetts, Amherst

11:00 452 The relative importance of selection and phylogeny in shaping G matrix differences between species
    M. Begin & D.A. Roff. McGill University

11:15 453 Maternal effects in the immature and adult stages of a cricket
    S. Sokolovska, D. Roff. McGill University

11:30 454 Circadian rhythmicity and epistatic modification of photoperiodic response
    D. Mathias, W.E. Bradshaw, & C.M. Holzapfel. University of Oregon

11:45 455 Heritability estimation in the wild: importance of paternity analysis
    C. Vassiladis & T.R. Meagher. University of St Andrews

Evolution of Behavior
Everitt 151

Session Moderator: Nicole Leahy

8:30 456 Effects of player representation on the outcome of a game theoretic non-reciprocal cooperative simulation*
    N. Leahy. Iowa State University

8:45 457 Body size and sex allocation in simultaneously hermaphroditic animals
    L. Angeloni, J.W. Bradbury, & E.L. Charnov. University of California, San Diego

9:00 458 Genetic architecture of behavioral phenotype-environment associations in the lake whitefish (Coregonus sp.)
    S. Rogers & L. Bernatéchez. Laval University
Parasite altruism and the mechanisms of virulence

Worker relatedness and colony performance in a leptothoracine ant
F. Trampus. University of Houston

Signal components and signal preferences in a cricket
A.E. Olvido & W.E. Wagner, Jr. University of Nebraska-Lincoln

Thermal dependent variation in mating behavior in Drosophila mojavensis
A. Fasolo & R. Krebs. Cleveland State University

The subtle costs of sexual selection
J. Alipaz, S. Fang, & C-I Wu. The University of Chicago

Altruism, tolerance and tribal formation
M.E. Hochberg, S. Brown, & B. Sinervo. University of Montpellier

Genomic imprinting in social insects: some risky predictions of sociobiological theory
D. C. Queller. Rice University

Does the genetic code explain differences in substitution rate between codon positions? Evidence from large-scale database analyses*
T. Massingham. Museum of Zoology, Cambridge University (UK)

Protein evolution with dependence among sites: A model

Protein evolution with dependence among sites: Some results

How tree-like is Indo-European linguistic evolution?
R. Gray & F. Fillimon. University of Auckland

A Bayesian approach to maximum likelihood analyses of large datasets: An example using darters (Percidae: Etheostomatinae)
T. J. Near, University of California, Davis

Birds in a bush: power and polytomies in phylogenetic inference
S. Poe & A. Chubb. University of California, Berkeley

Performance of phylogenetic methods and mtDNA genes in vertebrates and invertebrates
N.V. Schizas, I. Steinbachs, & J.W.O. Ballard. University of Chicago

Independence of alignment and tree search
M. Simmons. Colorado State University

Phylogenetics meets functional genomics: comparing maximum likelihood models of gene expression evolution*
T.H. Oakley & W.-H. I.J. University of Chicago

Bootstrapping in paternity analysis: in search of a null hypothesis
T. Meagher. University of St Andrews
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45</td>
<td>479</td>
<td>Is modularity necessary for evolvability?</td>
<td>T.F. Hansen, Florida State University</td>
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<td>9:00</td>
<td>480</td>
<td>Polymorphism in gametic compatibility maintained by sperm competition and polyspermy</td>
<td>R. Haygood, University of California, Davis</td>
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<td>9:15</td>
<td>481</td>
<td>Effects of epistasis in polygenic traits in mutation-selection balance</td>
<td>I. Hermisson, T. Hansen, &amp; G. P. Wagner, Yale University</td>
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<tr>
<td>9:30</td>
<td>482</td>
<td>Genetic architecture underlying geographic variation in morphology, physiology and reproduction</td>
<td>T. McKitrick, W.E. Bradshaw &amp; C.M. Holzapfel, University of Oregon</td>
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<td>9:45</td>
<td>483</td>
<td>Population structure of a gorgonian coral in the Bahamas</td>
<td>C. Gutierrez-Rodriguez &amp; H.R. Lasker, SUNY at Buffalo</td>
</tr>
<tr>
<td>10:30</td>
<td>484</td>
<td>Genetic signatures of incipient speciation in a coral reef fish species flock</td>
<td>M.A. McCartney, W.O. McMillan, &amp; E. Bermingham, University of North Carolina, Wilmington</td>
</tr>
<tr>
<td>10:45</td>
<td>485</td>
<td>Intraspecific variation in Caenorhabditis elegans</td>
<td>A. Sivasundar &amp; J. Hey, Rutgers University</td>
</tr>
<tr>
<td>11:00</td>
<td>486</td>
<td>Inferring demographic history in a continuous population</td>
<td>J. F. Wilkins &amp; J. Wakeley, Harvard University</td>
</tr>
<tr>
<td>11:15</td>
<td>487</td>
<td>Balancing selection and linkage disequilibrium of RPS5 presence/absence polymorphism in Arabidopsis thaliana</td>
<td>H. Araki, D. Tian, E. Stahl, J. Bergelson, &amp; M. Kreitman, University of Chicago</td>
</tr>
<tr>
<td>11:30</td>
<td>488</td>
<td>No evidence of a recent severe population bottleneck in Plasmodium falciparum</td>
<td>A. L. Hughes, University of South Carolina</td>
</tr>
<tr>
<td>11:45</td>
<td>489</td>
<td>Loci with major impacts on physiology and components of fitness</td>
<td>J. Milton, University of Colorado</td>
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<tr>
<td>8:30</td>
<td>490</td>
<td>Comparative global gene expression and male fertility in Drosophila melanogaster</td>
<td>J. Drnevich, C. Johnson, &amp; K. Hughes, University of Illinois at Urbana-Champaign</td>
</tr>
<tr>
<td>8:45</td>
<td>491</td>
<td>Sexual selection favors large size in dwarf males in an orb-weaving spider</td>
<td>M. Foellmer &amp; D. Fairbairn, Concordia University</td>
</tr>
<tr>
<td>9:00</td>
<td>492</td>
<td>A test of sexual antagonism in house flies</td>
<td>S. Hicks &amp; L. Meffert, Rice University</td>
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<tr>
<td>9:15</td>
<td>493</td>
<td>Female mate choice in relation to heterozygosity in Tribolium castaneum</td>
<td>A. Pai &amp; G. Yan, State University of New York at Buffalo</td>
</tr>
<tr>
<td>9:30</td>
<td>494</td>
<td>Differential variation in body and genitalia size in the species of Ozoderconymia nana (Coleo(Diptera: Therevidae)</td>
<td>M. A. Metz, University of Illinois at Urbana-Champaign</td>
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<tr>
<td>10:30</td>
<td>495</td>
<td>Genetics of female preference in the guppy and Endler's livebearer</td>
<td>F. Breden, Simon Fraser University</td>
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<tr>
<td>10:45</td>
<td>496</td>
<td>Effects of sperm competition on the evolution of seminal proteins in the great apes</td>
<td>S. Kingan, M. Tatar, &amp; D. Rand, Brown University</td>
</tr>
<tr>
<td>11:00</td>
<td>497</td>
<td>Parental effects on offspring performance in gray tree frogs: genetic quality or compatibility?</td>
<td>A. M. Welch, University of North Carolina-Chapel Hill</td>
</tr>
<tr>
<td>11:15</td>
<td>498</td>
<td>Diversification of courtship displays in the bird of paradise genus Parotia: A macroevolutionary perspective on sexual selection and speciation</td>
<td>E. Scholes III, University of Kansas</td>
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<tr>
<td>11:30</td>
<td>499</td>
<td>Cancelled</td>
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<td>11:45</td>
<td>500</td>
<td>The Napoleon complex: why smaller males pick fights</td>
<td>M.R. Morris, W. Just, &amp; X. Sun, Ohio University</td>
</tr>
</tbody>
</table>
**Hybridization 2**
**Burlill 124**

*Session Moderator: Ben Fitzpatrick*

**8:30** 501 Environment-dependent and locus-dependent barriers to gene exchange in a tiger salamander hybrid zone
B. M. Fitzpatrick & H. B. Shaffer. University of California, Davis

**8:45** 502 Extensive introgression in arctic members of the *Daphnia pulex* complex as revealed by microsatellite markers
F. Dufresne, L.J. Weider, A. Hobaek, J.K. Colbourne. Université du Québec à Rimouski

**9:00** 503 Identifying species hybrids using multilocus genetic data
E. C. Anderson & E. A. Thompson. University of California, Berkeley

**9:15** 504 Hybrid lethality in sympatric *Mimulus*: the importance of Dobzhansky-Muller and nuclear-cytoplasmic interactions
N. Martin & J. Willis. Duke University

**9:30** 505 Pollen flow and the origin of hybrid phenotypes in a *Crepis* (Asteraceae) hybrid zone

**9:45** 506 Genetics of speciation in the *Anopheles gambiensis* complex: A QTL approach to male hybrid sterility
M. Slotman, A. della Torre, & J. R. Powell. Yale University

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**Invertebrate Life History Evolution**
**Burlill 124**

*Session Moderator: Avis James*

**10:30** 507 Cancelled

**10:45** 508 Ontogeny and allometric scaling of life history in *Daphnia*
J. Dudycha, C. Baer, & M. Lynch. Indiana University

**11:00** 509 Life history correlations: when shouldn’t traits trade off?
K. M. Fedorka & T. A. Mousseau. University of South Carolina

**11:15** 510 The role of resource availability in allocation patterns between growth and nutrient storage in the grasshopper, *Schistocerca americana*
D. A. Hahn. University of Arizona

**11:30** 511 Mitochondrial fitness: A comparison of divergent intraspecific haplotypes
A.C. James & J.W.O. Ballard. University of Iowa

**11:45** 512 Life history trait evolution in satyrine butterflies (Nymphalidae: Satyrinae)
D. L. Murray. Oregon State University

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**Tuesday July 2 PM**

**Ecological Genetics of Plants**
**ASL 150**

*Session Moderator: Christina Caruso*

**1:15** 513 Can physiological traits influence floral evolution? A case study with *Lobelia*

**1:30** 514 Molecular evolution of TGG1 in *Arabidopsis thaliana*: Positive selection for increased activity of a plant defensive enzyme
B. Stranger & T. Mitchell-Olds. Max Planck Institute of Chemical Ecology

**1:45** 515 Selection for overall size: environmental covariance or target of selection?
C. Varner & D. Thompson. University of Arizona

**2:00** 516 Genetics of resistance to feeding by a diverse community of herbivores of horsenettle (*Solanum carolinense*)
M. Wise. Duke University

**2:15** 517 Alternative fates of tandemly duplicated genes: herbivore-induced proteinase inhibitors in *Arabidopsis*
M.J. Clauss & T. Mitchell-Olds. Max Planck Institute for Chemical Ecology

**2:30** 518 Population genetics of divergence and secondary contact in ponderosa pine
R.G. Latta, M.E.R. Boudreau, & S. Zeleneltz. Dalhousie University Biology Department

**2:45** 519 Evolution in closely adjacent *Arabidopsis lyrata* populations
R. Mauricio, R. S. Baucoup, & J. L. Hamrick. Department of Genetics/University of Georgia

**3:00** 520 Negative correlation between induction response and constitutive resistance in black mustard
M. B. Traw & P. P. Feeny. University of Chicago
Tuesday July 2 PM, continued

3:15  521  The phylogenetics of mustards (Brassicaceae): placing Arabidopsis in an evolutionary context
M. Bellstein & E. A. Kellogg, University of Missouri, St. Louis

Phylogeography/Geographic Variation 2
Burritt 124
Session Moderator: Mariana Mateos

1:15  522  Linking habitat specialization and speciation in “stone plants”
A.G. Ellis, A.E. Weis, & B. Gaut. University of California, Irvine

1:30  523  Island and taxon effects in Lesser Antillean avian malaria revisited
S. M. Fallon, E. Berringham, & R. E. Ricklefs. University of Missouri, St. Louis

1:45  524  Population systematics of the Southeast Asian Temple Viper (Tropidolaemus wagleri) based on mitochondrial DNA sequence analysis and morphological evidence*
L. Kuch & N. Vidal. Johann Wolfgang Goethe University

2:00  525  Delimiting species boundaries in the cosmopolitan freshwater snail, Physa (Physella) acuta group*
A. Wethington, R. Dillon, R. Guralnick, & C. Lydeard. University of Alabama

2:15  526  Evolution and biogeography of Morchella, the true morels
K. O’Donnell. USDA-ARS-NCAUR

2:30  527  Vicariance and dispersal across the trans-mexican volcanic belt
M. Mateos & R.C. Vrijenhoek. Monterey Bay Aquarium Research Institute

2:45  528  Phylogeography of vent invertebrates
L. A. Hurtado & R. C. Vrijenhoek. Monterey Bay Aquarium Research Institute

3:00  63  Invasion of the killer turtles: Pleistocene range expansions, selective sweeps, and snapping turtles.
B. Shaffer, D. Starkey & M. Fujita. University of California, Davis

Genomics 2
Everitt 151
Session Moderator: Scott Edwards

1:15  529  Using genomics to look at the concerted evolution of the rDNA
A. Ganley. Duke University

1:30  530  The early evolutionary history of gene duplicates in the C. elegans genome*
V. Katju & M. Lynch. Indiana University

1:45  531  A genomic approach to phylogenetic reconstruction in Drosophilidae
P. O’Grady, J. Bonacum, & R. DeSalle. American Museum of Natural History

2:00  532  Capacity for response in a reduced genome: Transcriptome analysis of Buchnera aphidicola, the bacterial endosymbiont of aphids
J. Wilcox, H. Dunbar, N. A. Moran. University of Arizona

2:15  533  Phylogenetic relationships and divergence times of MHC class I loci in primates
H. Plotnikowska & M. Nei. Pennsylvania State University

2:30  534  Expression profiles of single cell types in plants and applications in evolutionary development

2:45  535  A genomic schism in birds revealed by large-scale bioinformatics analysis of DNA strings
S. V. Edwards, B. Fertill, A. Giron, & P. J. Deschavanne. University of Washington

3:00  536  Rapid evolution of phenotypic diversity in Bacillus subtilis cultures

3:15  537  Selection against spurious binding sites shapes genomes
M. Hahn, J.E. Stajich, & G. A. Wray. Duke University
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors / Affiliations</th>
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<tbody>
<tr>
<td>1:15</td>
<td>Reliability and null hypotheses with morphological and molecular data</td>
<td>R. Zander. Buffalo Museum of Science</td>
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<td>1:45</td>
<td>Uninode coding vs. gene-tree parsimony for phylogenetic reconstruction using duplicate genes</td>
<td>M. Simmons. Colorado State University</td>
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<td>2:00</td>
<td>From basepairs to bird songs: Phylogenetic data in the age of genomics</td>
<td>M. Simmons, J. V. Freudenstein, K.M. Pickett, &amp; J.W. Wenzel. Colorado State University</td>
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<td>2:15</td>
<td>Phylogeny of Polynoeoptera: Direct optimization v. standard alignment techniques*</td>
<td>M. Terry. Brigham Young University</td>
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<td>2:45</td>
<td>Bayesian phylogenetics using an RNA substitution model: application to vertebrate evolution</td>
<td>C. Hudelet, H. Jow, M. Rattray, &amp; P. Higgins. University of Manchester</td>
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<td>3:00</td>
<td>Phylogenetic information content of large sequence databases: implications for vertebrate phylogeny</td>
<td>A. Driskell, R. Ree, &amp; M. Sanderson. University of California, Davis</td>
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<td>3:15</td>
<td>Relationship between the bootstrap and posterior probability in phylogenetic analysis</td>
<td>M. P. Cummings &amp; D. S. Myers. Marine Biological Laboratory, Woods Hole</td>
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<td>4:00-5:00</td>
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<td><strong>SSE Presidential Address • Foelling</strong></td>
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**Bayesian analysis of AFLPs in Coreopsis grandiflora, a species with a striking pattern of cpDNA introgression**
R. J. Mason-Gamer & M. M. Burns. University of Illinois, Chicago

**If you want something done right you have to do it yourself: Invasive Argentine ants do not replace native ants as seed dispersers**
S. E. Carney, M. B. Byerley, & D. A. Holway. Colorado State University

**Phylogeny and evolution of neotropical lianas (bignonieae, bignoniacae)**
L. G. Lohmann. University of Missouri, St. Louis

**Reconstructing ancestral transitions between reproductive modes in Porpidia (lichen-forming Ascomycota)**
J. Buschbom. University of Chicago

**A phylogeny of Foraminifera and its evolutionary implications**
S. L. Richardson. Smithsonian Marine Station at Ft. Pierce

**Molecular phylogenies of major mangroves**
S. Shi. School of Life Sciences, Zhongshan University

**Excavata: composition and phylogeny of a major new grouping within eukaryotes**
A. Simpson. Dalhousie University

**Systematics of the Cratoneurus gymnurus species complex based on morphological data**
J.E. Light & M.S. Hafner. Louisiana State University

**Resolving ancient divergences in molecular phylogenetic analyses: sources of error and bias in a 9-locus data set from seed plants**
S. Mathews & J. G. Burleigh. University of Missouri-Columbia

**Making sense of genomes**
Nancy Moran. University of Arizona
Poster Presentation

Odd numbered Posters will be presented on Saturday, June 29 from 7:00 PM-9:00 PM
Even numbered Posters will be presented on Monday, July 1 from 7:00 PM-9:00 PM
Union - Illini Rooms A-B

Education

P1 Evolution in Canadian curricula
B. Alters, S. Alters, & A. Luk. McGill University

P2 Relationship between students' understanding of the nature of science and evolutionary processes
J. Kurdziel. University of Arizona

P3 The idea of progress in contemporary evolutionary biology
B. Larson. University of California, Santa Barbara

P4 Student interface to the Biology Workbench: An educational orientated interface for bioinformatics and evolution
B. Southey, E. Jakobsson, & N. Exner. University of Illinois at Urbana-Champaign

Phylogenetics & Systematics

P10 A simple, fast, yet reliable phylogenetic reconstruction method using unaligned molecular sequences
X. Xuchua. University of Hong Kong

P11 Environmental GIS modeling of distribution patterns in Actinoenecton plumosum, a sea anemone with a large geographic range *
A. Ardelean. University of Kansas

P12 A comparison of two molecular markers, AFLPs and mitochondrial DNA sequences, in two morphologically distinct species of Malagasy birds

P13 Evolutionary relationships among terrestrial, freshwater and marine ascomycetes
J. Campbell & C. Shearer. University of Illinois, Urbana-Champaign

P14 Nuclear and mtDNA perspectives on the arvicoline radiation
C. Conroy, J. A. Cook, & A. M. Runck. Museum of Vertebrate Zoology, University of California, Berkeley

P15 Systematics of the two feeding morphs of Schizocerella plicornis, Holmgren (Hymenoptera: Argidae) inferred from sequences of the cytochrome oxidase I gene
C. Hartsough, E. Connor, & G. Spencer. San Francisco State University

P16 A comparison of pupal morphology in the Asiloidea
M. Hauser. University of Illinois, Urbana-Champaign

P17 Evolution & phylogeography of spring snails (Gastropoda: Hydrobiidae) from the Great Artesian Basin, Australia *
K. Perez, C. Lydeard, D. Colgan, & W. F. Ponder. University of Alabama

P18 Phylogenetic relationships among sigmodontine rodents based on mitochondrial cytochrome b DNA sequence data *
Q. Shurtleff, D. Rogers, & D. McClellan. Brigham Young University

P19 A case study in the evolution of a novel suite of traits: egg-powering in sharphooters (Hemiptera: Cicadellidae)

P5 Profile parsimony, cladistic parsimony, and maximum likelihood: The performance of three goodness-of-fit criteria in a corroboration framework

P6 Fast phylogenetic methods for gene order data: An empirical study
L. Raubeson, L.-S. Wang, R. Jansen, B. Moret, & T. Warnow. Central Washington University

P7 Using properties of mitochondrial genome data to predict optimal weighting strategies *
Z. Swigonova, J. S. LaPolla, & K. M. Kjer. Rutgers University

P8 Generalizing quartet methods to various numbers of taxa using minimum evolution
S. Willson. Iowa State University

P9 Major events in the history of the Asteroida (Echinodermata): A palaeontological perspective
D. Blake. University of Illinois, Urbana-Champaign
P20 Siderion: A potential new genus of braconids in the subfamily Microgastrinae
A. A. Valerio & J.B. Whitfield. University of Illinois at Urbana-Champaign

P21 Re-examining the role of chromosomal rearrangements in the California tarweed genus Calycadenia (Asteraceae)
J. Whitton & T. Olson. Dept. Botany, Univ. British Columbia

P22 Cancelled

P23 Origin and biogeography of Pacific Melicope
E. Zimmer, G. Allan, A. Medina-Marino, & W.L. Wagner. Smithsonian Institution

P24 Grafting trees and networks: phylogenetic and phyletographic history in a clade of Patagonian lizards
L. Avila, M. Morando, & J. Sites, Jr. CONICET–Brigham Young University

P25 Phylogenetic analysis and polyploidy in the plant genus Amaranthus
A. Bennett. Salisbury University

P26 Phylogenetics of New Zealand alpine cicadas
T. R. Buckle. Landcare Research

P27 Systematics of the genus Diroleptaster Ashmead (Microgastrinae: Braconidae) from the New World
W. Y. Choi & J. B. Whitfield. Department of Entomology, University of Illinois at Urbana-Champaign

P28 Molecular phylogenetics of a ground cricket
M. D. Clay & J. L. Marshall. The University of Texas at Arlington

P29 Phylogenetic research on Sisyphus
E. Denney, E. Gallagher, J. Wachtel, & Dr. K. Hunter. Salisbury University

P30 Molecular phylogenetics of North American cave crayfishes

P31 Phylogenetic relationships in a species-rich family of sea stars (Asteriidae)
D. Foltz, S. Culliton, B. Kelley, & M. Bolton. Louisiana State University

P32 Phylogenetic analysis of Echinaster (Ophitida) from the Western Atlantic. Part I: Morphology
F. M. Fontanella & T. S. Hopkins. University of Alabama

P33 The molecular phylogeny of monk seals
C. Fyler, T. Reeder, A. Berta, G. Antonelis, & A. Aguilar. San Diego State University

P34 Phylogeny of the genus Lomatium (Apiaceae) based on ITS and ETS sequence data and parsimony, maximum likelihood and Bayesian analyses
M. Gitzendanner, G. Jacobson, D. Soltis, & P. Soltis. University of Florida

P35 The evolution of North American Elymus (Poaceae) allotetraploids: evidence from phosphoenolpyruvate carboxylase (PEPC) gene sequences and AFLP data
D. M. Helfgot & R. J. Mason-Gamer. University of Illinois, Chicago

P36 Phylogeny of the galericines and flea beetles

P37 Libellulid dragonfly evolution: Determining morphological polarities, convergence and coapomorphy in the light of molecular evidence
K.M. Kjer & F.L. Carle. Rutgers-Cook College

P38 Higher level phylogeny of Odonata: Molecules and morphology
F.L. Carle, K.M. Kjer, & M.L. May. Rutgers-Cook College

P39 Differences in mtDNA descending through male and female lineages in the Unionidae
R. Krebs. Dept. of BGES, Cleveland State University

P40 Retrieving shallow and deep history in the Andean and Patagonian biota: Liolaemus elongatus-briegi complex (Squamata: Liolaemidae) as a model system

P41 Recently completed mtDNA genomes resolve more ordinal-level relationships within Plethodontidae birds
T.A. Paton & A.J. Baker. Royal Ontario Museum/University of Toronto

P42 Investigation of the phylogenetic relationship among mammals using complementary milk proteins
S. Rodriguez-Zas & B. Southey. University of Illinois at Urbana-Champaign

P43 A molecular phylogeny of the genus Cerastium (Caryophyllaceae)

P44 Mitochondrial DNA evolution in Rhagoletis (Diptera:Tephritidae): An update
J. Smith. Michigan State University

P45 PANDIT: A database of protein and nucleotide domains with inferred trees
S. Whelan, PIW de Bakke, & N. Goldman. Dept of Zoology, University of Cambridge, UK
Phylogeography / Geographic Variation

P46 Molecular phylogeography of western chipmunks
J. Brahic & C. Spicer. San Francisco State University

P47 Extreme population subdivision in flightless kiwi of New Zealand: avian equivalents of small mammals

P48 Phylogeographic and coalescent approaches to dispersal and vicariance in Lesser Antillean Bats

P49 Comparative phylogeography of two species of tropical passerines: analysis of genetic and morphological divergence across the andes
C. Dingle & T.B. Smith. San Francisco State University

P50 Evolutionary history and habitat transitions of an invasive lineage
B. Eads & C. Eunni Lee. Dept. of Zoology, University of Wisconsin

P51 Historical and ecological factors in diversification in Amazonian frogs

P52 Evolutionary genetics of zebra and quagga mussel invasions *
G. E. May, G. W. Gelembiuk, M. Gerner, & C. Eunni Lee. University of Wisconsin, Madison

P53 Zebra mussels: evolutionary inferences in a colonizing species

P54 The hierarchy of an adaptive radiation: Specialization in an intra-island radiation of Caribbean anoles

P55 Testing the central-peripheral model: Mixing undergraduates, collared lizards, and microsatellites
D. Hutchinson. Whitman College

P56 Comparative rodent phylogeography of the Albertine Rift, East Africa and nested cladistic analysis of Hylomyscus deminutus: implications for conservation
S. S. Loew, M. H. Huynh, & J. C. K. Peterhans. Illinois State University

P57 American Pronghorn: gleaning historical phylogeographic information from populations with extensive translocation histories
C. L. Malen, J. C. deVos, Jr., J. R. Heffelfinger, T. E. Lee, J. W. Bickham, & O. E. Rhodes, Jr. Purdue University

P58 Phylogeography of the red-spotted admiral (Limenitis arthemis) butterfly complex: implications for the evolution of mimicry
S. Mullen. Cornell University

P59 Phylogenetics of asexuality in the microcrustacean Daphnia pulex
S. Paland, J. Colbourne, & M. Lynch. Indiana University

P60 Comparative phylogeography of the fruit bats Cynopterus brachyotis and Haplonycteris fischeri in the Philippines
T. E. Roberts. University of Chicago

P61 Divergence of three populations of Lysiphlebus testaceipes (Hymenoptera: Aphididae) differing in cold temperature tolerance
K. R. Shuler, B. J. Jones, & N. C. Elliott. USDA-ARS

Conservation Biology

P62 Neutral genetic diversity and population size in a commercially valuable plant, American ginseng
M. R. Anderson & S. S. Loew. Illinois State University

P63 Mutation rates and fitness effects of heavy metal mixtures in white-footed mice (Peromyscus leucopus)
D. M. Guan, S. S. Loew. Illinois State University

P64 Population genetics of Arapaima gigas, one of the biggest freshwater fishes the Amazon basin: implications for its conservation

P65 The impact of habitat fragmentation on the competitive ability of a native prairie plant species, Chamaecrista fasciculata
C. Manoueas & D. L. Byers. Illinois State University

P66 Molecular assessment of the host association of a biological control agent Rhinocyllus conicus
A. Paradis, S. Louda, & G. Ort. University of Nebraska

P67 Genetic analysis of the endangered Hawaiian goose, nene

P68 Microsatellite analysis of population structure and genetic variation in Humboldt penguins
J. Schlesser & J. Dubach. University of Illinois, Chicago
A spatial dynamic model of a snake: *Elaphe o. obsoleta*
S. Stoddard, P. Weatherhead, & B. Hannon. University of Illinois at Urbana-Champaign

Inbreeding effects and the selection response of small populations
W. Swindell & J.L. Bouzat. Bowling Green State University

An experimental test of captive breeding strategies: assays of fitness, inbreeding and genetic variability in *Musca domestica*
E. Wheeler & L. Meffert. Rice University

Ecological Genetics

The effect of mtDNA clade boundaries on nuclear gene flow in the western fence lizard, *Sceloporus occidentalis*
J. Archie & T. Vail. California State University

Heritability and genetic correlations of ecological traits in *Avena barbata*
J.L. Mackenzie & R.G. Latta. Dalhousie University

Department of Biology

Genetic diversity and polyploidy of *Phragmites australis* by population comparison
S. Pinter & K. Hunter. Salisbury University

Population genetic structure of *Musciullum secartis* (Sphaeriidae, Bivalvia) in a group of temporary ponds
N. Reynolds, A. Bohonak, C. Charlton, & D. Jenkins. University of Illinois, Springfield

Autumn leaf senescence - Genotypic variation within and among populations
K. Schwaegerle & M. Mueller. University of Alaska, Fairbanks

Genetical diversity of the mangrove and terrestrial populations of *Hibiscus tiliaceus* and *Heritiera littoralis* based on AFLP and ISSR
S. Shi. School of Life Sciences, Zhongshan University

Molecular characterization of tetranucleotide microsatellites in the smallmouth salamander (*Ambystoma tigrinum*)
R. N. Williams & J. A. DeWoody. Purdue University

Life History Evolution

Phylogenetic origins of a complex behavior (weaving) in a genus of ants: Molecular phylogeny of the genus *Polyrhachis*

Age related variation in yolk testosterone levels may limit egg size in *Chrysopsena picta*
R. M. Bowden, H. K. Harms, & F. J. Janzen. Iowa State University

Evolution of senescence in mice genetically selected for high voluntary wheel running

Does the length of the breeding season select for more rapid growth rate in rodents?
E. M. Derrickson. Loyola College

Relatedness and reproduction in polygynous nests of the yellowjacket, *Vespula squamosa*
G. Fritz, S. Stewart, & A. J. Deets. Eastern Illinois University

Marker-based estimates of inheritance of neonatal body size in nature
F. Janzen, R. Bowden, & D. Pearse. Iowa State University

Correlations among life history traits in the gametophyte and sporophyte generations of the moss *Ceratodon purpureus* *
S. F. McDaniel & A. J. Shaw. Duke University

Island syndrome: Microevolution of *Peromyscus maniculatus* on the islands of Charlevoix County, Michigan
O. Podlaha. University of Michigan, Ann Arbor

Slowing the approach of the grim reaper? Causes of mortality plateaus in *Drosophila melanogaster*
R. Reynolds & K. Hughes. University of Illinois, Urbana-Champaign

Prenatal sex ratio influences sexual dimorphism in a reptile
T. Uller & M. Olsson. University of Gothenburg

Mating / Breeding Systems

Immunocompetence and extra-pair copulation in the red-billed gull from Kaikoura Peninsula, New Zealand
N. L. Chong, A.D. Given & A.J. Baker. University of Toronto and Royal Ontario Museum

Sperm storage patterns in the fruit fly, *Anastrepha suspensa*
A. Fritz. Eastern Illinois University

The influence of size, genetics, and competition on alternative male mating behaviors in guppies
K. Hughes, H. Rodd, & D. Reznick. University of Illinois

Mixed mating: Does it really occur in trees?
D. G. Scofield & S. T. Schultz. Department of Biology, University of Miami
Molecular Evolution

P95 Genetic architecture for growth traits and molecular markers in Pinus halepensis Mill
R. Alia, Indiana University

P96 Cytochrome b molecular evolution in Iava lizards (Tropiduridae; Microlophus) of the Galapagos Archipelago.
E. Benavides, D. McClearn, & J. W. Sites. Brigham Young University

P97 Integrating genomics, bioinformatics and classical genetics to study the effects of recombination on genome evolution
J.A. Birdsell. University of Arizona

P98 Molecular evolution of the Major Histocompatibility Complex in the African clawed frog (Xenopus laevis) *

P99 The molecular evolution of the DNA binding domain of Himar1 mariner transposase
M. Butler, S. Chakraborty, & D. Lampe. Duquesne University

P100 Molecular evolution within Acrididae (Insecta, Orthoptera, Caelifera)
I.C. Chintauan-Marquier, C. Amedegnoato & F. Pompon. Laboratoire de Biologie des Populations d'Altitude

P101 Natural selection in glycolytic genes of bacteria
W.J. Diehl. Mississippi State University

P102 Exploring non-LTR retrotransposon lineage diversity in telocost genomes using degenerate PCR

P103 Melanistic plumage patterns in Old World leaf warblers do not correspond to sequence variation in the melanocortin-1 receptor locusin
E. A. MacDougall-Shackleton, H. L. Gibbs, & T. D. Price. Ohio State University

P104 Patterns of codon usage in the yeast genome.
M. Santiago, N. Irving, & R.M. Kliman. Kean University

P105 Using P element mediated deletions, activity variants and 2-D NMR spectroscopy to estimate control coefficients in D. melanogaster
T. J. S. Merritt & W. F. Eanes. SUNY-Stony Brook

P106 Does selection intensity change over time in MHC genealogies?
S. Meyer. University of California

P107 Molecular evolution of the myb gene family in grasses
A. Norris & V. Oberholzer Vandergron. California State University, Northridge

P108 Accounting for background nucleotide composition when measuring codon usage bias
J. Novembre. University of California, Berkeley

P109 Evolution of intron size in Caenorhabditis elegans
M. Palopoli, A. Prachumwat, & L. DeVincentis. Bowdoin College

P110 The promoters of recently active LINE-1 elements in deer mice
L. Scott & H. Wicha. University of Idaho

P111 Mitochondrial genomes of beetles and comparisons with those of other hexapods
J.R. Stewart, R. Falsafi, & A.T. Beckenbach. Simon Fraser University

P112 Estimating the distribution of mutational fitness effects from DNA sequence data
S. Williamson. University of Kansas

P113 A study of the phylogeny of Brassica, Rorippa, Capsella, and allied genera based on the noncoding regions of chloroplast DNA
Yau-Wen Yang, Pon-Yean Tai, & Ju-Yu Wang. Institute of Botany, Academia Sinica, Taiwan

Quantitative Genetics

P114 A microarray analysis to identify candidate genes for ethanol tolerance in Drosophila melanogaster
B. Caletk & J.D. Fry. University of Rochester

P115 Morphological stasis in a copepod species complex: Qst and Gst in lab and wild populations
C. Eunmi Lee. University of Wisconsin, Madison

P116 Inheritance, natural selection, and sexual selection of body size and plumage characters in the dark-eyed junco, Junco hyemalis
J. W. McCothlin, P. G. Parker, V. Nolan Jr., & E. D. Ketterson. Indiana University, Bloomington
Population Genetics

P119 Limited interspecific gene flow between Quercus lobata and Quercus douglasii (Fagaceae) in a mixed stand in central coastal California
K. Craft. University of Illinois, Chicago

P120 Genetic analysis of a contact zone between two species of leopard frogs
M. R. Di Candia & E. J. Routman. San Francisco State University

P121 Evidence for positive selection at Mr1r, a gene underlying adaptive color variation in pocket mice
K. E. Drumm, H. E. Hoekstra, & M. W. Nachman. University of Arizona

P122 Using sequence data to test models for the persistence of duplicate genes
D. P. Genereux & J. M. Logsdon, Jr. Emory University

P123 Determinants of differentiation in Andean frogs: isolation vs. selection
D. Kosciuk, P. I. Tubaro, & S. C. Lougheed. Queen's University

P124 Spatial and temporal population structure in a wild lemur population
R. R. Lawler, A. F. Richard, & M. A. Riley. Yale University

P125 Population genetics of the Giant Amazon River Turtle, (Podocnemis expansa), in the Amazon and Orinoco river basins
D. E. Pease, V.H. Cantarella, & J. W. Sites, Jr. Brigham Young University

P126 DNA sequence diversity in Grassostrea virginica in the Chesapeake Bay
C. Rose & M. Hare. University of Maryland, College Park

P127 Adaptive amino acid evolution at the G6PH1 locus in Drosophila simulans
E. Sezgin & W. F. Eanes. State University of New York, Stony Brook

P128 Isolation, characterization, and chromosome mapping of microsatellites in Drosophila ananassae
S. Smith & M. Schug. University of North Carolina, Greensboro

P129 Testing for evidence of population-specific selective sweeps in humans using interlocus patterns of microsatellite variation
J. F. Storz, B. A. Payseur & M. W. Nachman. University of Arizona

P130 Inferences of Drosophila ananassae population structure using microsatellites
A. Tozlar Pierce, S. Smith & M. Schug. University of North Carolina, Greensboro

P131 Do systems of mating that incorporate more than one male mate per female really increase inbreeding effective numbers?
M. Tringali. Florida Fish and Wildlife Commission

P132 Evidence of natural selection on pigmentation genes in Caribbean Drosophila
J. Wilder & H. Hollocher. Princeton University

Mutations

P133 Direct estimate of microsatellite mutation rates in Daphnia
D. E. Allen, J. Colbourne, & M. Lynch. Indiana University

P134 The influence of premeiotic clusters of mutation on indirect estimations of mutation rate
Y. Gong, Sheng Gu, & R. C. Woodruff. Bowling Green State University

P135 Mutational effects and genetic background interactions in Daphnia pulicaria

P136 The effects of mutation accumulation on fitness of field populations of Raphanus raphanistrum
A. Roles & J. Conner. Kellogg Biological Station, Michigan State University

Hybridization

P137 Discordant patterns of allozyme and non-allozyme marker introgression across a mussel hybrid zone

P138 Barriers to hybridization in the blue mussel (Mytilus edulis and M. trossulus) hybrid zone in Atlantic Canada
M. Miranda, D. Innes, & R. Thompson. Memorial University of Newfoundland

P139 Microsatellite structure in the Piriqueta caroliniana complex's expanding hybrid zone
J. Rhode & M. Cruzan. Portland State University
Inbreeding

P142 Testing for stress dependent inbreeding depression in maternal and progeny generations in Impatiens capensis
University of Connecticut

P143 Causes of inbreeding depression in the androdioecious shrimp, Eulimnadia texana
S. Weeks. The University of Akron

Speciation

P144 Replicated evolution of male coloration in stream and anadromous pairs of threespine stickleback,
Gasterosteus aculeatus
S.M. Arit & J.S. McKinnon. University of Wisconsin, Whitewater

P145 Recent speciation in the Orchard Oriole group:
Divergence of Icterus spurius spurius and I. s. fuertesi* 
J. M. Baker, E. López-Medrano, A. G. Navarro-Sigüenza, 
O. R. Rojas-Soto, & K. E. Omland. University of Maryland, Baltimore County

P146 Ecological speciation in Eurosta solidaginis
T. Craig & J. K. Itami. University of Minnesota, Duluth

P147 Towards a genetic characterization of diapause in
Rhagoletis (Diptera: Tephritidae)
H. Dambroski & J. Feder. University of Notre Dame

P148 The genetics of sexual isolation in European corn borer
moths (Ostrinia nubilalis)

P149 Rates of evolutionary loss of hybridization potential and molecular evolution in tetrapods
B. M. Fitzpatrick, University of California, Davis

P150 Effect of interspecies introgression on the genetics of
hybrid sterility
L.M. Henagan, D. Ortiz-Barrientos, & M.A.F. Noor. 
Louisiana State University

P151 The examination of stage-specific germline defects in
Drosophila hybrids using rescue lines
H. Hollocher & A. Sainz. University of Notre Dame

P152 The evolution of karyotype diversity: a molecular
phylogeny of Agrodiaetus Hübner 1822 (Lepidoptera:
Lycaenidae) inferred from mtDNA sequences for COI
and COII* 
N. Kandul, V. Lukhtanov, A. Dantchenko, J. Coleman, & N. Pierce. Harvard University

P153 Morphological evolution in stream and anadromous
sticklebacks from Asia, Europe, and North America *
P. Katz, C. P. Kealy, & J. S. McKinnon. University of 
Wisconsin, Whitewater

P154 Recent speciation in Indo-West Pacific sea urchins

P155 Behavioral aspects of reproductive isolation among 10
populations of threespine stickleback
W.L. Paulson, S.S. Shell, J.P. Heltemes, E.L. Sassman, J. 
Poole & J.S. McKinnon. University of Wisconsin, 
Whitewater

P156 The effect of cuticular waxes on reproductive isolation
in stick-eyed flies
B. Peterson, S. Toll, & G. Wilkinson. University of 
Maryland

P157 Does the candidate speciation gene, cid, underlie 
hybrid rescue in Drosophila?
A. Sainz, J. Wilder, & H. Hollocher. University of Notre 
Dame

P158 Sensory drive in bladder grasshoppers
M. van Staden, V. Coulbridge, & N. Donelson. Bowling 
Green State University

P159 Divergence of incipient species of pea aphids at 
selected and neutral loci
J. West, D. Hawthorne, & S. Via. University of Maryland

Species Interactions

P160 Fitness effects of single and mixed gut parasite
infections in woodland Drosophila
M. Ebbert, J. Burkholder, & J. Marlowe. Miami University

P161 When two strains meet: Competition between
alternative parasite strategies
G. Harper. University of North Carolina, Chapel Hill

P162 Agonoporia astroemeriana and poison hemlock:
Changes in plant defenses upon re-establishment of
herbivory
K. Lustofin & M. Berenbaum. University of Illinois, 
Urbana-Champaign
Adaptation

P163 Quantitative genetics and the foraging/predation risk trade-off in tadpole
T. Watkins & M. McPeek. Macalester College

P164 Adaptive divergence in response to water stress by edaphic races in Lasthenia californica (Asteraceae)
J. Whitton & N. Rajakaruna. Univ. British Columbia

P165 Natural selection in space and the evolution of dispersal endurance in discontinuous habitats
R. Yukilevich. State University of New York, Stony Brook

P166 Adaptive radiation in experimental microcosms
J. Brumley & M. Travisano. University of Houston

P167 Evolutionary history influences host range
K. Pezlin, C. Burch, & H. Wichman. University of Idaho

P168 Evolution of evolvability: an example with yeast prions
J. Masel & A. Bergman. Stanford University

Evolution of Microorganisms

P169 Genotypic and phenotypic variation in an expanded collection of microvirid phage
D. Roktya, C. Burch, & H. Wichman. University of Idaho

P170 Barriers to horizontal transmission of insect-associated endosymbionts
J. A. Russell, P. Tran, C. Dale, & N. A. Moran. University of Arizona

Genomics

P171 Is Wolbachia horizontally transmitted?
W. Farcombe. University of North Carolina

P172 SNPs development in sunflower using DHPLC
Z. Lai, K. Livingstone, & L. Rieseberg. Indiana University

P173 Use of transcription patterns to assess stress levels in fathead minnows
S. Lewis, S. Keller, D. Lattier, J. Lazorchak, & M. Smith. University of Cincinnati

P174 Genetic linkage mapping of a homosporous fern, Ceratopteris richardii
T. Nakazato & G. Gastony. Indiana University

P175 Patterns of natural selection in the order Mycoplasmatales
J. D. Perkins III & W.J. Diehl. Mississippi State University

P176 Reticulate evolution and phylogenetics of rat inbred strains
M.A. Thomas, M.I. Jensen-Seaman, C.-F. Cher, & S. Twigger. Medical College of Wisconsin

P177 On the feasibility of converting RAPD markers from dominant to codominant for population studies
B. Wang, E. Levin, & A. Porter. University of Massachusetts, Amherst

P178 Cancelled

P179 Comparative genomics of disease genes
W. Wu, M. Joseph, M. Thomas, & P. Tonellato. Medical College of Wisconsin

P180 Thermal tolerance and the evolution of Hawaiian picture-winged Drosophila
A. Reza, M. Dohm, S. Moore, S. Renn, C. Muir, D. Price, & W. Mautz. University of Hawaii at Hilo/Biology Department

P181 Morphological and functional integration in the Papionin primate mandibular symphysis
C. Vinyard & B. Payseur. Duke University

Development & Evolution

P182 Cancelled

P183 Correlated responses to adaptation in Myxococcus xanthus
C. Landry & M. Travisano. University of Houston

P184 A Shh-Bmp2 developmental module and the evolution of feather branched structure
R. O. Prum, M. P. Harris, & J. F. Fallon. University of Kansas

P185 Genetic chimerism of marmosets
C.N. Ross, G. Ortí, & J.A. French. University of Nebraska

Evolution of Behavior

P186 Comparative escape behavior of Chihuahuan desert parthenogenetic and gonochoristic whiptail lizards
P. Hotchkin & H. Riveroll Jr. The University of Texas, El Paso

P187 Is geographic variation in nest-site choice adaptive in a reptile with temperature-dependent sex determination?
C. Morjan. Iowa State University

P188 Zebrafish as a model system for studying the genetic architecture of behavior
B. Robison, M. Walden, B. Rowland, & M. Lynch. Indiana University
Sexual Selection

P190 Colony budding and intercolonial aggression in the red imported fire ant
A. Zarrabi & D. Wiernasz. University of Houston

P191 Patterns of assortative mating in the Hawaiian cricket Laupala: do differences in song lead to assortative mating within and between species?
J. L. Grace & K. L. Shaw. University of Maryland, College Park

P192 Polyandry provides genetic benefits in the decorated cricket (Gryllodes sigillatus)
T. M. Ivy. Illinois State University

P193 Phenotypic correlation between male aggression and female mating behavior in the genus Nasonia
J.E. Leonard & C.R.B. Boake. University of Tennessee, Knoxville

Evolution of Sex

P194 Mate choice and the maintenance of sex
R. S. Howard. Middle Tennessee State University

P195 Offspring production increases with copulation frequency and access to males in parthenogenetic Potamopyrgus antipodarum
M. B. Neiman & C. M. Lively. Indiana University

Coevolution

P196 Host defense determines host specificity
S. Al-Tamimi & D. Clayton. University of Utah

P197 Determining the age of avian lice by brute force.
T. Ford & R.D.M. Page. Glasgow University

P198 Regional and local variation in susceptibility to a protist parasite in the treehopper mosquito, Ochlerotatus sierensis
H. H. Ganz. University of California, Davis

P199 Conserved response elements in the promoter of substrate inducible cytochrome P450
C. McDonnell, R. Petersen, M. Berenbaum, & M. Schuler. University of Illinois, Urbana-Champaign

P200 Transcriptional regulation of an insect P450 gene by plant chemicals
R. A. Petersen, M. Berenbaum, & M. Schuler. University of Illinois, Urbana-Champaign

P201 Stable isotopes reveal variable host use in a Neotropical ant-plant association
S.T. Trimble & C.L. Sagers. University of Arkansas

P202 Lies I have told about lice: a fresh look at avian louse phylogeny
V. Smith & K. Johnson. University of Glasgow

Phenotypic Plasticity and GxE

P203 Quantitative genetics of continuous reaction norms: thermal sensitivity of growth in Pieris rapae
J. G. Kingsolver & G. J. Ragland. University of North Carolina, Chapel Hill

P204 The effects of temporal and spatial heterogeneity on trait evolution: A framework
J. A. Stamberger. Stanford University

P205 Phenotypic plasticity in Arabidopsis thaliana exposed to elevated CO2 and herbivory
M.G. Bidart-Bouzat, K.N. Paige, E.H. DeLucia, & M.R. Berenbaum. University of Illinois, Urbana-Champaign

Plant Reproductive Biology

P206 The effect of interspecific competition for pollinator service on pollen dispersal and mating patterns in Mimulus ringens
J. Bell, J. Karron, & R. Mitchell. University of Wisconsin, Milwaukee

P207 Effects of multiple visits by pollinators on the reproductive success of Lupinus perennis

P208 The influence of floral design and pollinator attributes on pollen carryover and mating patterns of Mimulus ringens

P209 Selfing as a means of reproductive isolation under pollinator-mediated interspecific competition
R. Smith & M. Rausher. Duke University

P210 Frequency- and density-dependent fitness in gynodioecious Geranium richardsonii: effects at the population and neighborhood levels
C. F. Williams, M. Plantek, & A. Gibson. Idaho State University
Agriculture

P211  Ancient DNA for construction of phylogenetic relationship of primitive wheat species from Turkey
      H. Bilgic & M.S. Akkaya. Middle East Technical University

P212  Reducing the use of costly refuges in Bt transgenic crops
      C. Vacher, D. Bourguet, & M. Hochberg. University of Montpellier II, France

P213  Genotypes at the BoCAL locus in broccoli, cauliflower, and purple cauliflower accessions
      J.A. Labate, L.D. Robertson, & T. Bjorkman. USDA-ARS, Cornell Univ.

P214  Correlations among morphological and fertility factors segregating in an interspecific tomato cross
      K. Livingstone & L. Rieseberg. Indiana University

P215  Speciation and adaptive radiation in cecidomyiid flies
      J.B. Joy. Simon Fraser University
Guide to Restaurants
Within Walking Distance of the Illini Union

American
Dewey's Other Place, 301 East Green, Champaign, 278-3000
DJ's Italian Beef, 612 East Daniel, Champaign, 367-5754
Foudini's, 306½ East Green, Champaign, 384-2607
Wonderdogs, 605 South Wright, Champaign, 355-9090
Ye Olde Hickory Pit, 60 E. Green, Champaign, 344-0710

Breakfast
International House of Pancakes, 308 East Green, Champaign, 351-6972

Café/Coffeehouse
Café Paradiso, 801 South Lincoln, Urbana, 384-6066
The Daily Grind, 502 East John, Champaign, 337-5511
Espresso Royale, 1117 West Oregon, Urbana, 337-6160; 602 East Daniel, Champaign, 328-1112; 1401 West Green, Urbana, 328-1335 (located on the 1st Floor Illini Union)
Palette Café by Espresso Royale at Krannert Art Museum, 500 East Peabody, Champaign, 344-2791
Green Street Coffeehouse, 608 East Green, Champaign, 344-5374
Intermezzo Café at Krannert Center for the Performing Arts, 500 South Goodwin, Urbana, 333-8412
One World Café, 809 South Fifth, Champaign, 344-0102

Chinese
Chinese Express, 39 East Green, Champaign, 328-1818
Empire Chinese, 410 East Green, Champaign, 328-0832
Home of Gourmet Chinese & Thai, 604 East Daniel, Champaign, 344-7483
Hot Wok Express, 1102 West University, Urbana, 384-7170
Mandarin Wok, 403 East Green, Champaign, 337-1200
Ren's Chinese Restaurant, 410 East Green, Champaign, (no phone listed)
Rice Garden, 1401 West Green, Urbana, 328-6722 (lower level Illini Union)
Yen Ching, 613 South Wright, Champaign, 328-0088
Yen Jing, 404 East Green, Champaign, 352-2272

Greek
Mykonos, 313 East Green, Champaign, 344-3090
Niro's Gyros, 1007 West University, Urbana, 328-6476
Zorba's Restaurant, 627 East Green, Champaign, 344-0710

International
Happy Wanderer, 404 East Green, Champaign, 344-0244

Italian
Timpone's, 710 S. Goodwin, Urbana, 344-7610
Za's Italian Café, 629 E. Green, Champaign.

Japanese
Asiana, 408 East Green, Champaign, 398-3344

Korean
A-Ri-Rang, 607 West Wright, Champaign, 355-5570
Dorcas, 403 East Green, Champaign, 337-7726
Seoul Carryout, 313 East Green, Champaign, 337-6686

Mexican
El Desmadre, 625 East Green, Champaign, 384-5902
La Bamba, 606 South Sixth, Champaign, 344-6500

Microbrewery
Joe's Brewery, 706 South Fifth, Champaign, 384-1790

Middle Eastern
Jerusalem Middle Eastern Cuisine, 398-9022
Pizza

Bonnie Jean's, 901 South Fourth, 239-2001
Domino's Pizza, 102 East Green, Champaign, 355-0717
Garcia's Pizza, 108 East Green, Champaign, 359-1212
Papa Del's Pizza, 411 East Green, Champaign, 344-2218
Pizza Magia, 508 East Green, Champaign, 344-4000
Pizza Planet, 33 East Green, Champaign, 328-5300
Sbarro, 1-01 West Green, Urbana, 337-0100 (lower level Illini Union)

Pub Fare

Legends, 522 East Green, Champaign, 355-7674
Murphy's Pub, 604 East Green, Champaign, 352-7275
White Horse Inn, 112 1/2 East Green, Champaign, 352-5945

Sandwiches/Deli

Blimpie's, 1401 West Green, Urbana, 337-0107 (lower level Illini Union)
The Bread Company, 705 South Goodwin, Urbana, 383-1007
Jimmy John's, 807 South Lincoln, Urbana, 328-3100; 43 East Green, Champaign, 344-6200
Panera Bread, 510 East John, 328-0024
The Pita Pit, 611 East Green, Champaign, 337-7482
Subway, 616 East Green, Champaign, 239-0108; 610 E. Daniel, Champaign, 383-1033

Thai/Vietnamese

Basil Thai, 410 East Green, Champaign, 344-9130
Pho Tran, 1106 West University, Urbana, 365-0051
The Y Eatery, 1001 South Wright, 344-5040

Vegetarian

The Garden Grill @ The Canopy, 708 South Goodwin, Urbana, 344-2263
Red Herring Vegetarian Restaurant, 1209 West Oregon, Urbana, 367-2340

Sweet Tooth

Delights, 1115 West Oregon, Urbana, 337-7982
Moonstruck Chocolate Bar, 709 South Wright, Champaign, 367-7402
The Cookie Jar, 712 South Sixth, Champaign, 384-5246

Nightlife

not within walking distance of the Illini Union

Boltini, 211 North Neil, Champaign, 378-8001
C-Street, 63 Chester, Champaign, 356-5607
Embassy, 114 South Race, Urbana, 384-9526
Esquire, 106 North Walnut, Champaign, 398-5853
Iron Post, 120 South Race, Urbana, 337-7678
Jillian's, 102 South Neil, Champaign, 355-2800
Jupiter's, 39 East Main, Champaign, 398-5988
Mike & Molly's, 105 North Market, Champaign, 355-1236
Rose Bowl, 106 North Race, Urbana, 367-7031
Two Main, 2 East Main, Champaign, 359-3148

This list is for information only. It does not serve as a recommendation.
Things to do in Urbana-Champaign and nearby

Campus
- Aligeld Chimes Tower tour 12:30-1:00 PM weekdays. Enter through 323 Aligeld Hall.
- Arboretum, Lincoln Avenue, Urbana, IL; features Hartley Selections garden, an Ideas garden and a children's garden.
- Illini Union, 1401 W. Green, Urbana. Offers services and facilities to visitors, including a bowling alley, art gallery, video arcade, and billiards hall.
- Japan House tours, 1-4 PM Thursdays.
- John Philip Sousa Museum, Harding Band Building. Houses the papers, uniforms, instruments, and other personal effects of legendary band leader John Philip Sousa. By appointment (Ph. 244-9309).
- Krannert Art Museum and Kincaid Pavilion, 500 E. Peabody Dr., Champaign. The second-largest art museum in the state of Illinois, Krannert Art Museum offers over 1,000 works of art from 4,000 BC to the present, including Old Masters, ceramics, sculpture, photography and Asian art. Free admission, 333-1860.
- Krannert Center for Performing Arts; complex of theaters designed by Max Abramowitz, UIUC alumnus and architect of Lincoln Center in New York; teakwood floors and marble accents, with Promenade, an international gift shop with a performing arts theme, and Intermezzo, a European-style pastry bar. Tours 3 PM daily; meet in Main Lobby. 333-6280
- Main Library, sixth largest library in the United States; open Monday–Thursday 8 AM to midnight, Friday–Saturday 8 AM-6 PM, Sunday 1 PM–midnight. Self-guided audiocassette tours are available at the Information Desk, second floor of main library, or Media Center of Undergraduate Library
- Meat Salesroom, 102 Meat Sciences Lab. 1-5:30 PM Tuesday and Thursday, 8 AM-1 PM Friday. Retail outlet for Dept. Animal Sciences fedanlly inspected beef, pork, and lamb.
- Morrow Plots, just east of the Undergraduate Library. The site of the oldest continuous soil fertility experiment in the Western hemisphere

Urbana
- Anita Purvis Nature Center., 505 N. Broadway, Urbana. 8 AM-6 PM Mon-Sat., 12-5 PM Sunday. Trails through Busey Woods, natural history and geology displays, Discovery Room for children.
- Crystal Lake Park, Race and Park Streets, Urbana. Boating, open air concession, playground, sports equipment and playgrounds.
- Farmer’s market, Saturday mornings in parking lot of Lincoln Square Mall, Illinois and Broadway. Features fresh fruit and vegetables. Amish pastries, breads, herbs, arts and crafts; musical entertainment.
- Field of Greens miniature golf, inside Lincoln Square Mall; 255-5170. Monday, Tuesday, Thursday, Friday 3:30-9:30 PM, Wednesday 1-9:30 PM, Saturday 10-9:30 PM, Sunday 12-6 PM
- Meadowbrook Park and PrairiePlay, Windsor and Vine Streets, Urbana. Featuring playground, bicycle paths, sculpture garden, and largest municipal reconstructed prairie in the state.

Champaign
- Centennial Park Prairie Farm Petting Zoo, West Kirby Avenue, Champaign. With pettable farm animals such as pigs, ponies, donkeys, rabbits, pigs, chickens, ducks, and geese along with a few nonfarm species such as deer and turtles. Play areas, slide, and wagon rides. Hours 1 PM-8 PM Monday through Friday, noon-PM Saturday and Sunday.
- Champaign County Historical Museum, Cattle Bank, 102 E. University, Champaign. In the oldest commercial building in the county, the museum includes replica of turn-of-the-century grocery store; items from Illinois Central Railroad; period clothing; memorabilia relating to the history of neighboring communities.
- Staerkel Planetarium, on the campus of Parkland Community College. 2400 W. Bradley Avenue, second-largest planetarium in the state of Illinois.
Arcola/Arthur

- Amish interpretive Center, 111 S. Locust St., Arcola. 10 AM – 5:30 PM Monday–Saturday. Admission adults $2/75, children 6-11 $2.25, under 6 free. 888-452-6474 Arthur is the home of the fourth largest Amish community in the U.S.; the Amish Interpretive Center offers Amish museum and video.

- Rockome Garden, 5 miles off I-57 exit 203. Amish theme park with "Old Bagdad" reconstructed turn of the century town, formal gardens, rock (and bottle) sculptures, buggy rides, haunted house, craft and food shops. Open daily 9-5, free admission. 268-4106.

Mahomet


Monticello

- Monticello Railroad Museum, frontage road off I-72. Restored Illinois Central depot, with historical artifacts and steam train that runs to the Wabash depot in downtown Monticello.

- Robert Allerton Park, open 8 AM to dusk daily. Modeled after Ham House in England, with 10,000 acres housing formal gardens, sculptures, Georgian mansion, greenhouses, restored prairie and extensive tract of bottomland forest. Designated a National Natural Landmark. "Allerton Legacy" exhibit at Visitors' Center. Garden tours call 333-2127

Rantoul

- Hardy's Evergreen Acres and Reindeer Ranch, 3 mi. west of I-57, ph. 893-3407. Herd of genuine Alaskan reindeer, 4-acre corn maze, Christmas tree farm and store.

- Octave Chanute Air Museum, 1011 Pacesetter Drive, Rantoul. 10 AM-5 PM Friday, Saturday, Monday–Thursday; 12 PM to 4 PM Sunday. 893-1613. Vintage bombers, fighter planes, reconstructed missile silo, cargo planes, and Illinois Military Aviation Hall of Fame.

Special events in town during Evolution 2002

June 28

Urbania Country Dances Contra Dance, Phillips Recreation Center, 305 W. Stoughton, Urbana. 8-11 pm. $5 admission

Stories at Sunset, Meadowbrook Park, Race Street entrance, Urbana, IL. 8-9:30 pm. $2.

Concert, Hessel Park, Champaign. Music by Mark Fouth Brass Band. 6:30-8:00 pm. 398-2589.

Pink Floyd's Dark Side of the Moon, W.M. Staerkel Planetarium, Parkland College, Champaign. 9:30 pm. 351-2446.

"Murder Among Friends," Studio Theatre, Krannert Center for Performing Arts, Urbana. 8 pm. 333-6280.

Duke Tumato and the Power Trio, Fat City Saloon, Champaign

Keith Harden, Iron Post, Urbana

The Failures, Hero of the Year, Fallen Star at Canopy Club, Urbana

The Virtues, Mike n' Molly's, Champaign

June 29

Great Annual Rocket Launch, Pick Dodds Park, Champaign. Theme: Rockets of the Corn. 10 am to 4 pm. 359-8225.

Good Vibrations Concert, Garden Hills Park, Champaign. Blues rock music by Jam Nation. 7-8:30 pm. 398-2589.

"Merton at the Movies," Studio Theatre, Krannert Center for Performing Arts, Urbana. 8 pm. 333-6280.

Pink Floyd's Dark Side of the Moon, W.M. Staerkel Planetarium, Parkland College, Champaign. 9:30 pm. 351-2446.

Absinthe Blind, American Cosmonaut, Everybody Uh Oh, Canopy Club, Urbana

June 30

Concert, Hessel Park, Champaign. Swing music by Bruiser and the Virtues, 6:30-8:30 pm.

Weekend Wonders, Anita Purves Nature Center, Urbana. 1-3 pm. 367-1544.

"Educating Rita," Studio Theatre, Krannert Center for Performing Arts, Urbana. 7 pm. 333-6280.

July 1

Lost Strait Jackets, Big Sandy and his Fly-Rite Boys, High Dive, Champaign
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Index

Abernetty K. ........................................... 57
Abrams A. J. ................................. P137
Abrams P.A. ...................................... 414
Adams D. C. ...................................... 23, 330
Adams K. .......................................... 102
Adams S. ............................................ P102
Adler F.R. .......................................... 300
Agulier A. .......................................... P33
Aguirre W.E. ........................................ 173
Ajie B. ............................................... 31
Akayaka M.S. ...................................... P211
Al-tamini S. ........................................ 237, P196
Albertson C. ........................................ 174
Aldrich P. ........................................... 250
Alexander H.J. ...................................... 439
Alfaro M.E. .......................................... 126, 466
Alia R. ............................................... P95
Alipaz J. ............................................ 463
Allan G. ............................................. P223
Allen D.E. ......................................... P135, P133
Allen E.S. ........................................... 116
Alters B. ............................................. P1
Alters S. ............................................. P1
Altheide T.K. ...................................... 429
Alva Y. ............................................... 219
Alvarez-Zagoya R. ......................... 134
Amato G. ............................................. P100
Amedegnato C. ..................................... 36
Amenitya C. ........................................ 417
Amenta A.B. ........................................ 417
Andersen C. ....................................... 11
Andersen E. C. .................................... 503
Andersen L.J. ...................................... 214
Andersen M. R. ................................... P62
Andorfato P. ....................................... 369
Angelotti .......................................... 457
Anthony N. ........................................ 57
Antolin M. .......................................... 69, 73, 181
Antonells G. ....................................... P33
Antonovics J. ...................................... 389
Apanius V. .......................................... 319
Araki H. ............................................ 487
Arce P. .............................................. 394
Archie .............................................. P72
Ardelean A. ....................................... 345, P11
Arendt J.D. ........................................ 78
Ashman T.L. ....................................... P93, 358, 357
Atmar W. ........................................... 301
Auri S.M. ........................................... P144
Austin J. ............................................ 58
Aval L.L. ............................................ P40, P24
Avivi A. ............................................ 305
Ayoub N. ........................................... 131
Baack E. ............................................ 386
Babitski C. .......................................... 344
Baer C. ............................................. 181, 508
Baggs J. ............................................. 243
Baker A.J. ........................................... P41, P47
Baker J. M. ........................................ 119, P145
Baker M. B. ........................................ 180
Balakrishnan C.N. ......................... 198
Ballard J.W.O. ................................. 475, 511
Ballard K.I. ........................................ 303
Banta J. ............................................. 259
Barr C.M. ........................................... 98
Barrett S.C.H. ..................................... 360
Bartolo C. ........................................... 94
Bashy F. ............................................ 191
Bates J.M. .......................................... P12
Baucom R.S. ....................................... 519
Bauer A.M. ........................................ 294
Baum D.A. .......................................... 165, 405, 406
Bazzaz F.A. ......................................... 261
Beauchell ......................................... 221
Beckenbach A.T. ......................... P111, P79
Beerli P. ............................................ 427
Beever J. ............................................ 241
Begin M. ............................................ 452
Belfiore N.M. ...................................... 521
Bellstein M. ........................................ 208
Bell D. .............................................. 296
Bell J. ............................................... 282, P206
Bell M.A. ........................................... 87, 173
Beltran M. .......................................... 269
Benavides E. ..................................... P96
Bender J.B. ......................................... 326
Benfey P. ........................................... 534
Bennett A. .......................................... P25
Berenbaum M. ................................. P162, P200, P199, P205, 321
Bergelson J. ....................................... 487
Bergman A. ......................................... P168
Berleche S.H. ...................................... 368, 241, 229
Birmingham E. ................................. 268, 484, 523
Bernatchez L. ...................................... 458
Bersch A. ............................................ 410
Berta A. ............................................. 299, P33
Bertucci L.A. ...................................... 381
Betancourt A. ..................................... 370
Betran E. ............................................ 33
Bever J.D. ......................................... 282, 300
Bickham J.W. ..................................... P57
Biland-Bouvat M.G. ....................... P205
Bielavski J. ........................................ 257
Biermann C. H. ................................... 228
Bilgic H. ............................................ P211
Bird D.M. ........................................... 103
Birdsell J.A. ....................................... 37, P97
Birkby J.R. C.W. .............................. 385, 536
Birnbaum K. ...................................... 534
Bjorkman T. ........................................ P213
Blake D. ............................................. P9
Blaneys ............................................. 22
Blumenstiel J. .................................... 114
Boag P.T. .......................................... 36, P51
Boake C.R.B. ...................................... P193
Boernwinkle E. .................................. P113
Bogart J.P. .......................................... P51
Bohonak A. ........................................ P75
Bolton M. ........................................... P31
Bonacum J. ........................................ 531
Borsch T. ............................................ 223
Bos D.H. ............................................ P98
Bossuyt F. .......................................... 290
Bostwick K.S. .................................... 437
Boudreaux M.E.R. ......................... 578
Bourguet D. ........................................ P212
Bouzat J.L. .......................................... P70
Bowden R.M. ...................................... P80, P84
Bradbury J.W. ..................................... 457
Bradshaw W.E. .................................... 202, 454
Brahic J. ............................................ P46
Brandley M. ........................................ 293
Braswell W.E. ...................................... 227
Brown J. ............................................. 192
Breden F. ............................................ 439, 495
Brisson J.A. ....................................... 17
British S.C. .......................................... 275
Brochmann C. .................................... P43
Brode S. ............................................. 77
Brodie III E.D. ..................................... 331
Brodie Jr. E.D. ..................................... 331
Brodmann .......................................... 76
Bronkowski A.M. ......................... P84, P88
Brown A.H.D. ..................................... 264
Brown R. ............................................ 290
Brown R.M. ......................................... 292
Brown S.P. .......................................... 459, 464
Bruford M. .......................................... 57
Brunley M. .......................................... P166
Brunet F.G. ......................................... 339
Brunet J. ............................................. 90
Bryant D. ........................................... 160
Brysting A. ........................................ P43
Buck N.J. ............................................ 173
Buckley T.R. ....................................... P26
Buhay J. ............................................ P30
Bull J. ................................................. 71
Bull V. ............................................... 269
Burbidge M.L. ...................................... P47
Burbrink F. ......................................... 197
Burch C. ............................................. P167, P169
Burda H. ............................................ 295
Burger R. ............................................ 285
Burgess K.S. ....................................... 165
Burrholder ........................................ P160
Burleigh J.G. ....................................... 201, 555
Burns M.M. ......................................... P12
Burton R.S. .......................................... 224, 335
Burton T.L. .......................................... 300
Buschbom J. ....................................... 550
Butler M. ............................................. P99
Byerley M.B. .......... 548
Byers D.L. .......... 65
Caccone A. .......... 398
Cacicedo A.L. .......... 428
Caletka B. .......... P114
Cameron S. .......... 154
Campbell J. .......... 239
Campbell L.G. .......... 25
Cannatella D. C. .. 66, 289, 290
Cantarelli V.H. .......... P125
Cao L. .......... 24
Carle F.L. .......... P37, P38
Carlisle I. .......... 222
Carlini D. .......... 207
Carlson K. .......... 513
Carney S. E. .......... 548
Carroll S. B. .......... 18
Carroll S. P. .......... 185
Carstens B. C. .......... P48
Carter A. J. R. .......... 426
Carter P.A. .......... P81
Caruso C. M. .......... 513
Casas A. .......... 94
Case A. .......... 358
Cassens I. .......... 209
Chakraborty S. .......... P99
Chan Y. .......... 210, 394
Chao L. .......... 38
Charlesworth B. .......... 369
Charlton C. .......... P75
Charnov E.L. .......... 457
Chen C-F .......... P176, P178, 105
Chen W. J. .......... 124
Cheverud J. M. .......... 14
Chimtiana-Marquier L.C. .......... P100
Chiu C-H. .......... 408, 36
Cho G. .......... 415
Choi W. Y. .......... P27
Chong N. L. .......... 89
Chubb A. .......... 474
Clark L. .......... 134
Clark M. .......... 11
Clausen M. .......... 517
Clay M. D. .......... P28
Clayton D. .......... P196, 237
Clifford S. .......... 57
Cohan F. .......... 254
Cohen S. .......... 334
Colautti R. .......... 322
Colbourne L. .......... P59
Colbourne R.M. .......... P47
Colbourne J.K. .......... P133, 50
Coleman J. .......... P152
Coleman S. .......... 438
Colgan D. .......... P17
Collin R. .......... 354
Collins S. A. .......... 368
Collins T. .......... 393
Coloma L. .......... 289
Comendant T. .......... 262
Condon M. .......... 74, 75
Conner I. .......... P136
Connor E. .......... P15
Conroy C. .......... 211, P14
Cook J.A. .......... 277
Cooley J. .......... 251
Cork I. .......... 333
Corley L.S. .......... 15
Cotton J.A. .......... 467
Gouldridge V. .......... P158
Coyne J.A. .......... 382
Craft K. .......... P119
Craig T. .......... P146
Crandall K.A. .......... P30
Crawford A. J. .......... 184
Cree T. .......... 56
Creer D. .......... 79
Crespi D.I. .......... 132, 146, 230
Cristescu M. .......... 403
Cronk Q.C.B. .......... 208
Crook K. .......... P64
Crossa M. .......... P79
Crozier R.H. .......... 244
Cruse-Sanders J. M. .......... P139
Cruzan M. .......... 55
Culliton S. .......... P31
Cummings M. P. .......... 546
Cunningham C. .......... 128
Currie C. .......... 183
Cutter A. D. .......... 371
Dahlhoff E. .......... 177, 179
Dale C. .......... P170
Daly M. .......... 55
Dambroski H. .......... P147
Dantchenko A. .......... P152
Davilla J.A. .......... P51
Davis B. H. .......... 414
de Queiroz K. .......... 293
Dean A. .......... 44
Dean M.D. .......... 326
de Bakke R. W. .......... P45
DeBry R. W. .......... 297
Deets A.I. .......... P83
Degrain P. .......... 232
Delesalle V.A. .......... 101, 356
Delp L. .......... 317
DeLucia E.H. .......... P205
Demboski J. .......... 268
Demuth I. .......... 140
Denney E. .......... P29
Denning W. .......... 259
Derrickson E. M. .......... P82
DeSalle R. .......... 120, 331
Deschavanne P.J. .......... 535
DeToni D. .......... 17
Devaraj M. .......... 328
DeVincentis L. .......... P109
Devitt T. .......... 218
Devlin D. I. .......... 359
deVos Jr I.C. .......... P57
deWard J. .......... 56
Dewar K. .......... 36
DeWolody J.A. .......... 208, 343, P78
Di Candia M. R. .......... P120
Dick C. W. .......... 326
Diehl W.L. .......... P101, P175
Dietrich C.H. .......... P19
Diggles P.K. .......... 363
Dillon R. .......... P49
Dingle C. .......... 185
Dingle H. .......... 248
Dinh D. .......... 54
Dittmar de la Cruz K. .......... 382
Dixon S. M. .......... 505
Duan I.W. .......... 200
Dukker M. .......... 77
Doebeli M. .......... 391
Dohm M. .......... P180
Dole J. .......... 281, 410
Donelson N. .......... P158
Donoghue M.J. .......... 201
Dopman E.B. .......... P148
Dorken M. E. .......... 360
Doust A. .......... 402, 445
Dowen D. .......... 29, 129
Doyl J.J. .......... 264
Driskell A. .......... 545
Drnecich J. .......... P121
Drum K.E. .......... P66
Dubach L. .......... 109
Dubl L. .......... P36
Duckett C.N. .......... 508
Dudycha I. .......... 276
Duffy M. A. .......... 502
Dufresne F. .......... 532
Dunbar H. .......... 17
Duncan I. .......... P399
Dunn P.O. .......... P102
Duvernell D.D. .......... 407
Dworkin I.M. .......... 21
Dybdaal M. .......... 133
Dyer K. .......... 430
Dyer R. .......... 252
Dykhuijzen D.E. .......... P50
Eads B. .......... 432, P105, P127
Eales W.F. .......... 312
Eastal S. .......... 168
Ebbert M. .......... P160
Eble G. .......... 116
<table>
<thead>
<tr>
<th>Index, continued</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eckert C.G.</td>
</tr>
<tr>
<td>Edmonds S.</td>
</tr>
<tr>
<td>Edwards A.</td>
</tr>
<tr>
<td>Edwards S. V.</td>
</tr>
<tr>
<td>Eggert L.</td>
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<tr>
<td>Eisen E. J.</td>
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<tr>
<td>Elder D.</td>
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<tr>
<td>Elliott N.C.</td>
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<tr>
<td>Ellis A.G.</td>
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<td>Elmer K. R.</td>
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<td>Elven R.</td>
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<td>Elz A.E.</td>
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<tr>
<td>Emerson J.J.</td>
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<td>Engstrom T.</td>
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<tr>
<td>Epperson B.K.</td>
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<tr>
<td>Estes S.</td>
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<tr>
<td>Euinni Lee C.</td>
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<tr>
<td>Evans B. I.</td>
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<tr>
<td>Exner N.</td>
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<tr>
<td>Fain M. G.</td>
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<tr>
<td>Fairbairn D.</td>
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<tr>
<td>Faith D. P.</td>
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<tr>
<td>Faith J. I.</td>
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<tr>
<td>Fallon I.F.</td>
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<tr>
<td>Fallon S. M.</td>
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<tr>
<td>Falsafi R.</td>
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<td>Famula T. R.</td>
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<td>Fang S.</td>
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<tr>
<td>Farias J.P.</td>
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<tr>
<td>Farrell B. D.</td>
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<tr>
<td>Fasolo A.</td>
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<tr>
<td>Faust D. G.</td>
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<tr>
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<td>Saunders M A</td>
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</tbody>
</table>
Index, continued

Savolainen V. .................. 171
Saxer G. .................. 391
Schaal B.A. .................. 428
Scheen A. C. .................. P43
Scheffer S. .................. 2
Scherion R. .................. 84
Schizas N.V. .................. 475
Schliekelman P. .................. 4
Schlenger E.I. .................. 355
Schlosser J. .................. P68
Schluter D. .................. 148
Schmidt T.R. .................. 200
Schmitt J. .................. P142
Schoell E. H. .................. 103
Schrani E. .................. 195
Schug M. .................. P128, P130
Schuler M. .................. P199, P200
Schulze I.J. A. .................. 172
Schultz S.T. .................. P92, 416
Schwaergsler K. .................. P76
Schwaninger H. R. .................. 138
Schwarz D. .................. 272
Scofield D. G. .................. P92
Scott L. .................. P110
Scriber J.M. .................. 369
Sears K. .................. 409
Sefc K. M. .................. 308
Seleque J.E. .................. 18
Serb J.M. .................. 205
Sezgin E. .................. P127
Shaffer B. .................. 63, 395
Shaffer H.B. .................. 501
Shakarad M. .................. 188
Shaw A.I. .................. P65
Shaw K.L. .................. 144, 161, P191
Shearer C. .................. P13
Sheets H.D. .................. 193
Sheildahl L.A. .................. 434
Shell S.S. .................. P155
Shi S. .................. 553, P77
Shi X. .................. 413
Shoup S. .................. 420
Shufan K. A. .................. P61
Shurftit Q. .................. P18
Sikes D. .................. 46
Simmons M. .................. 476, 540, 541
Simmons E. .................. 7, 322
Simpson A. .................. 553
Sinervo B. .................. 262, 464
Sites Jr. I. .................. 249, P24, P40, P96, P125
Swasundara A. .................. 485
Slotman, M. .................. 506
Smith C.I. .................. 145
Smith J. .................. P44
Smith M. .................. P173
Smith M. H. .................. 64, 288
Smith R. .................. P209
Smith S. .................. P126, P130
Smith T.B. .................. P49
Smith V. .................. P202
Snoek R. .................. 443
Sokolovska S. .................. 453
Sokurenko E. .................. 252
Solitis D. .................. P34, P43
Solitis P.S. .................. P34, P43
Somero G. N. .................. 163
Sorenson M.D. .................. 198, 235, 308
Sork V. .................. 430
Sotka E. .................. 246
Soto F. .................. 352
Southey B. .................. P4, P42
Spencer C. C. .................. 27
Spencer H. G. .................. 375, 378
Spicer G. .................. P15, P46
Splins P. .................. 395
Spotorno A. .................. 213
Springer S. A. .................. 146
Stahl E. .................. 487
Stajich J.E. .................. 537
Stamberger J. A. .................. P204
Stanton M. .................. 84
Starkey D. .................. 63
Steets J. A. .................. P93
Steinauer M. L. .................. 186
Steinbachs J. .................. 475
Stephan W. .................. 207
Steppan S. .................. 82, 213
Stewart J.B. .................. P111
Stewart S. .................. P83
Stoddard S. .................. P69
Stolz U. .................. 206, 337
Storz J. F. .................. 309, P129
Stowe K.A. .................. 322
Strange R. .................. 440, 441
Stranger B. .................. 514
Strasburg J. .................. 310
Strassmann J.E. .................. 9, 10
Sullivan E. .................. 257
Sullivan J. .................. 268
Sullivan J.M. .................. P48
Sun X. .................. 500
Supriantna J. .................. 66
Svensson E. .................. 262
Swanson W.J. .................. 227
Swegart A. L. .................. 338
Swiderski D. L. .................. 166
Swigovna Z. .................. 353, 468, P7
Swindell W. .................. P70
Swofford D. .................. 419, 421
Tai P-Y. .................. P113
Takaya D. M. .................. P19
Tallamy D. .................. P36
Tatmar M. .................. 187, 496
Taylor D. I. .................. 273
Taylor D.L. .................. 7
Taylor E. B. .................. 59
Teeter K. .................. P141
Templeton A. .................. 156
Terry M. .................. 542
Tessler A.J. .................. 276
Thernuldt T. .................. 247
Thiede D. .................. 84
Thomas M. A. .................. 105, P176, P178, P179
Thompson D. .................. 515
Thompson E.A. .................. 503
Thompson Jr. J.N. .................. 340
Thompson R. .................. P138
Thompson V. .................. 93
Thomson G. .................. 312
Thorne J. L. .................. 53, 103, 470, 471
Thornton K. .................. 339, 376
Threlif D. .................. 142
Tian D. .................. 487
Tiller E.R.M. .................. 543
Tishkoff S.A. .................. 311
Toll S. .................. P156
Tonellato P. J. .................. 105, P178, P179
Tooker J.F. .................. 249
Tozier A.C. .................. P130
Trampus F. .................. 460
Tran P. .................. P170
Travis M. .................. 87
Travis S.E. .................. 243, 359
Travisano M. .................. 26, 152, 248, 253, 255, 391, P22, P166, P183
Trav M. B. .................. 520
Treder J. .................. 393
Triant D. A. .................. 343
Trimble R. .................. P67
Trimble S.T. .................. P201
Tringali M. .................. P131
Tsagarakis D. .................. 24
Tubaro P.L. .................. P123
Tucker P. .................. P141
Tureman J.W.H. .................. 58
Tuine T. .................. 57
Twigger S. .................. 105, P176
Tymczyns-Cobbs C .................. P189
Uller T. .................. P68
Uenooyama M. .................. P94
Vacher C. .................. P212
Vail T. .................. P72
Valenzuela N. .................. 23
Valerio A. A. .................. P20
Valiente A. .................. 94
Vallejo-Marin M. .................. P94
Vamosi I. C. .................. 539
Vamosi S. M. .................. 149, 539
van Staden M. .................. P158
Van Tuinen M. .................. 210, 211
Vanier C. .................. 515
VanVuren D. .................. 208
Vassiladis C. .................. 455
Vassilev L. L. .................. 28
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In Memoriam

Stephen Jay Gould

1941–2002

“I was lucky to wander into evolutionary theory, one of the most exciting and important of all scientific fields. I had never heard of it when I started at a rather tender age; I was simply awed by dinosaurs. I thought paleontologists spent their lives digging up bones and putting them together, never venturing beyond the momentous issue of what connects to what. Then I discovered evolutionary theory. Ever since then, the duality of natural history—richness in particularities and potential union in underlying explanation—has propelled me.

“I think that the fascination so many people feel for evolutionary theory resides in three of its properties. First, it is, in its current state of development, sufficiently firm to provide satisfaction and confidence, yet fruitfully undeveloped enough to provide a treasure trove of mysteries. Second, it stands in the middle in a continuum stretching from sciences that deal in timeless, quantitative generality to those that work directly with the singularities of history. Thus, it provides a home for all styles and propensities, from those who seek the purity of abstraction (the laws of population growth and the structure of DNA) to those who revel in the messiness of irreducible particularity (what, if anything, did Tyrannosaurus do with its puny front legs anyway?). Third, it touches all our lives; for how can we be indifferent to the great questions of genealogy: where did we come from and what does it all mean? And then, of course, there are all those organisms: more than a million described species, from bacterium to blue whale, with one hell of a lot of beetles in between—each with its own beauty, and each with a story to tell.”
