

Friday, June 2

All times in Mountain Time (GMT-6)

| | Evolutionary Theory | Macroevolution | SSE Presidential Symposium |
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| 9:00AM | Evolution in Space and Time: The Second Synthesis between Ecology, Evolutionary Biology, and the Philosophy of Biology Mitchell Ryan Distin, Universitat de València | Withdrawn | Genetics Education Needs to Move Beyond Mendel to Combat White Supremacy (Brian Donovan) |
| 9:15AM | A kin-selection model of fairness in heterogeneous populations Geoff Wild, University of Western Ontario | Anthropogenic and plastic nest material use in a global sample of birds Catherine Sheard, University of Bristol | |
| 9:30AM | General evolutionary theory of everything - From the origin of life to market economy Erhard Glötzl, JKU | Patterns of trait evolution in a radiation of songbirds (Parulidae) Helene Leroy, Charles University; Rauri C. K. Bowie, Museum of Vertebrate Zoology, University of California Berkeley; Lucia Rubacova, Comenius University; Beata Matysiokova, Palacky University; Vladimir Remes, Palacky University, Charles University | The Haunted Houses of Evolution's Past: Reflect and Repair or Wreck and Rebuild? (Brandon Ogbunu) |
| 9:45AM | From "The Selfish Gene" to the "Selfish Biosphere" Igor Krichtafovitch, Agentis Air | A regulator of nongenetic inheritance mediates the evolution and loss of plasticity Nicholas Levis, Indiana University; Erik Ragsdale, Indiana University | |
| 10:00AM | Incorporating Allostasis into Sexual Selection: Mate Choice Is Pro-Welfare by Favoring the Status of Being Free Yu Xie, Nanjing Agricultural University | Comparative genomics reveals the role of host adaptation in the Cretaceous Angiosperm Terrestrial Revolution-associated diversification of Lepidoptera Yi-Ming Weng, University of Florida; Akito Y. Kawahara, University of Florida | History of Eugenics and Disability (Joanne Woiak) |
| 10:15AM | A Model of Deleterious Mutation/Epimutation Selection Balance with Inbreeding Gregory Chernomas, University of Guelph | On the evolution of butterfly wing scale photonic nanostructures Vinodkumar Saranathan, Krea University; Cédric Finet, Department of Biological Sciences, National University of Singapore; Yi Yang Bei, Department of Biological Sciences, National University of Singapore; Antónia Monteiro, Department of Biological Sciences, National University of Singapore | |
| | Phylogenetics | Population Genetics | SSE Presidential Symposium |
| 11:00AM | Tying up MP's loose ends: limits and proofs for generalised Maximum Parsimony characters Graeme T. Lloyd, Unrestricted Free Agency; Jennifer Hoyal Cuthill, University of Essex | Joint effect of changing selection and demography on the site frequency spectrum Kavita Jain, Jawaharlal Nehru Centre for Advanced Scientific Research; Sachin Kaushik, Department of Computational Biology, Cornell University | Graham Coop |
| 11:15AM | Ultrafast learning of 4-node hybridization cycles in phylogenetic networks using algebraic invariants Zhaoxing Wu, University of Wisconsin Madison | Solving the mutation load paradox via asymmetric effect sizes of deleterious and beneficial fixations offers an alternative to drift barrier theory JOANNA MASEL, University of Arizona; Joseph Matheson, University of Arizona | |
| 11:30AM | DaTeR: error-correcting phylogenetic chronograms using relative time constraints Mukul S. Bansal, University of Connecticut | The effect of habitat persistence on population dynamics: a genomic approach within a dynamic archipelago Emmanouil Meramveliotakis, University of Cyprus; Anna Papadopoulou, University of Cyprus | Combating the Weaponization of Science (Jed Carlson) |
| 11:45AM | Withdrawn | A theory of oligogenic adaptation of a quantitative trait Ilse Hoellinger, University of Vienna, Austria; Benjamin Wöfl, University of Vienna, Austria; Joachim Hermisson, University of Vienna | |
| | Build a Better Bootstrap and the RAWR Shall Beat a Random Path to Your Door: Phylogenetic Support Estimation Revisited | Natural hybridization reduces vulnerability to climate change | Panel Discussion and Q&A |

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| 12:00 PM | Chris Brauer, Molecular Ecology Lab, Flinders University; Jonathan B. Sandoval-Castillo, Flinders University; Katie Gates, Flinders University; Michael Hammer, Natural Sciences, Museum and Art Gallery of the Northern Territory, Darwin, NT, Australia; Peter J. Unmack, University of Canberra; Louis Bernatchez, Université Laval - Institut de Biologie Intégrative des systèmes; Luciano B. Beheregaray, Flinders University |
| Kevin J. Liu, Michigan State University | |
| Toward Phylogenetic Inference of Evolutionary Dynamics At Scale | Environmental selection, rather than neutral processes, best explain regional patterns of diversity in a tropical rainforest fish |
| 12:15PM | Katie Gates, Flinders University; Jonathan B. Sandoval-Castillo, Flinders University; Chris Brauer, Molecular Ecology Lab, Flinders University; Peter J. Unmack, University of Canberra; Martin Laporte, Université Laval - Institut de Biologie Intégrative des systèmes; Louis Bernatchez, Université Laval - Institut de Biologie Intégrative des systèmes; Luciano B. Beheregaray, Flinders University |
| Matthew Andres Moreno, Michigan State University; Emily Dolson, Assistant Professor, Michigan State University; Santiago Rodriguez Papa, Michigan State University | |

12:30PM Q&A with the US National Science Foundation

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| | Genomics | Mayr Award |
| 1:30PM | Patrones genómicos variables de hibridación entre dos zonas híbridas independientes de caballos del diablo Luis Rodrigo Arce-Valdés, INECOL A. C.; Janne Swaegers, KU Leuven; Pallavi Chauhan, Lund University; Jesús Ramsés Chávez Ríos, UNAM; Maren Wellenreuther, The New Zealand Institute for Plant & Food Research Ltd; Bengt Hansson, Lund University; Rosa Ana Sánchez Guillen, Instituto de Ecología A.C., Xalapa, Veracruz, Mexico | Evolution of the small RNA pathways in animals and the loss of endo-siRNAs among Lophotrochozoa Alessandro Formaggioni, University of Bologna; Giacomo Cavalli, University of Bologna; Mayuko Hamada, University of Okayama; Tsatsuya Sakamoto, University of Okayama; Federico Plazzi, University of Bologna; Marco Passamonti, University of Bologna |
| 1:45PM | Towards an asynchronous Course-based Undergraduate Research Experience (CURE) framework: A pilot case study in remote genomics research Dani Alarid, Arizona State University; Kenneth Buetow, Arizona; Sara Brownell, Arizona State University; Katelyn Cooper, Arizona State University; Melissa A. Wilson, Arizona State University | Sex-determination related genes in bivalves appear as novel acquisitions of molluscs and show a high rate of amino acid evolution Filippo Nicolini, university of Bologna; Fabrizio Ghiselli, Department of Biological, Geological and Environmental Sciences; University of Bologna; Liliana Milani, Department of Biological, Geological and Environmental Sciences; University of Bologna; Andrea Luchetti, University of Bologna |
| 2:00PM | Introgression among North Pacific sea urchins Matthew Glasenapp, University of California, Santa Cruz; Grant Pogson, UC Santa Cruz; Matthew Kustra, University of California, Santa Cruz | Expansions/reductions of the Tudor family appear associated to convergent genomic and phenotypic evolutions in Metazoa Giovanni Piccinini, Department of Biological, Geological and Environmental Sciences; University of Bologna; Umberto Valdrè, University of Bologna, Department of Biological, Geological, and Environmental Sciences; Jacopo Martelossi, University of Bologna; Liliana Milani, Department of Biological, Geological and Environmental Sciences; University of Bologna |
| | Population genomic structure and diversity of the mountain stream salamander (<i>Ambystoma altamirani</i>) in Mexico | The convergent evolution of ant-guarding fern nectaries is linked to the Cenozoic rise of insect herbivores |

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| 2:15PM | Enrique Soto, UNAM; Gabriela Castellanos-Morales, ECOSUR-Villahermosa; Victor Ávila-Akerberg, UAEM; Tanya M González Martínez, UNAM; Maria Delia Basanta, Biology Institute, UNAM; Eria A Rebolgar, UNAM | Jacob Suissa, Cornell University; Corrie S. Moreau, Cornell University; Fay-Wei Li, Boyce Thompson Institute |
| | Convergent selection, relaxed selection, and gene loss in <i>plaat1</i> related to loss of visual acuity across boney vertebrates | False head: evolution of another head in butterflies |
| 2:30PM | Danielle H. Drabek, University of Minnesota; Jonathan Wiese, University of Minnesota; Erin Gilbertson, University of California - San Francisco; Jairo Arroyave, Instituto de Biología, UNAM; DAHIANA ARCILA, University of Oklahoma; Liz Alter, CSUMB; Richard Borowsky, New York University; Andy Gluesenkamp, San Antonio Zee; Suzanne McGaugh, University of Minnesota | Tarunkishwor Yunnam, Indian Institute of Science Education and Research Thiruvananthapuram; Ullasa Kodandaramaiah, Indian Institute of Science Education and Research Thiruvananthapuram |

| | Behavior | Host-Parasite | Lifetime Achievement |
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| 3:30PM | Romantic love evolved by co-opting mother-infant bonding Adam Bode, Australian National University | Role of coevolution in success rates of glochidial metamorphosis on multiple species of bitterling fish. Abhishek Nair Anil Kumar Nair, Institute for Vertebrate Biology, Czech Academy of Sciences.; Martin Reichard, Institute for Vertebrate Biology, Czech academy of sciences.; Imane Mehdi, Institute for Vertebrate Biology, Czech academy of sciences. | Sally Otto: Endemic means change as SARS-CoV-2 continues to evolve |
| 3:45PM | The Plasticity of Pompilidae (Hymenoptera) Behavioral Evolution Brenna Decker, Utah State University; James Pitts, Utah State University | Evidence for evolutionary response in post-attachment resistance to ectoparasitism in the <i>Drosophila-Gamasodes</i> mite system Ashley Webster, University of Cincinnati; Michal Polak, University of Cincinnati, Department of Biological Sciences | |
| 4:00PM | | A positive association between gut microbiota diversity and vertebrate host fitness in a field experiment Andreas Haerer, University of California, San Diego; Ken A. Thompson, Stanford University; Dolph Schluter, University of British Columbia; Diana J. Rennison, University of California San Diego | |
| 4:15PM | An evolutionary look at schizotypy: The intersection of phylogenetic and ontogenetic explanations Simone Cheli, St. John's University; Martin Brüne, LWL University Hospital, Ruhr University, Bochum, Germany | Comparative phylogenomics of obligate parasitic flatworms Christoph Hahn, University of Graz, Austria; Philipp Resl, University of Graz; Nikol Kmentova, Hasselt University, Belgium; Martin Kasny, Masaryk University, Czech Republic; Maarten Vanhove, Hasselt University, Belgium; Stephan Koblmüller, University of Graz, Austria | |
| 4:30PM | Cooperative breeding and the evolution of birdsong Nicole Creanza, Vanderbilt University | Host range and infection dynamics of a wild bacteriophage Sonia Singhal, San José State University; Wendy Lee, San Jose State University; Robert Fowler, San Jose State University; Steven White, San Jose State University; Akiko Balitactac, San Jose State University | |

5:00PM **Mixer for attendees from Primarily Undergraduate Institutions.**

Potpourri 1

Systematics 1

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| 6:00PM | Species limits and diversification of the <i>Dendropsophus rubicundulus</i> subgroup (Anura, Hylidae) in Neotropical savannas Ísis Arantes, University of Mississippi; Mariana Mira Vasconcellos, Universidade Federal do Rio de Janeiro; Megan L. Smith, PhD, Indiana University; Ryan Garrick, U. Mississippi; Guarino R. Colli, Universidade de Brasília; Brice P. Noonan, University of Mississippi | Shared signatures of the shifts to endosymbiosis across Enterobacterales evolutionary history. Giobbe Forni, University of Bologna; Jacopo Martellosi, University of Bologna; Dario Pistone, University of Milan; Matteo Montagna, University of Naples Federico II |
| 6:15PM | The evolution of mate choice in an Australian wildflower Henry Arenas-Castro, University of Queensland; Jan Engelstaedter, The University of Queensland; Daniel Ortiz-Barrientos, The University of Queensland | Designing ultra conserved element (UCE) probe sets for the lacewings and its allies (Insecta: Neuropterida) Alice Carvalho Assmar, McGill University; Heloisa Fernandes Fernandes Flores, Universidade de São Paulo; Jessica Gillung, McGill University |
| 6:30PM | A learning progression for teaching evolutionary transitions in the K-12 classroom Josh Hoskinson, Arizona State University; Dinah Davison, PhD candidate, Kansas State University; Hailey Sanders, St Michael's School; Richard Michod, University of Arizona | Andean Gymnophthalmids: Latest discoveries Rommy Parra, University of Kentucky |
| 6:45PM | Aging as one life history trait that shapes populations Andrea Scharf, Missouri S&T | Systematics of the New World bats <i>Eptesicus</i> and <i>Histiotus</i> suggest trans-marine dispersal followed by Neotropical cryptic diversification Xueling Yi, The Hong Kong University; Emily K. Latch, University of Wisconsin-Milwaukee |
| 7:00 PM | Genomic footprints of bottleneck in landlocked salmon population Sankar Subramanian, University of the Sunshine Coast; Manoharan Kumar, Genecology Research Centre, University of the Sunshine Coast, QLD, Australia | VCF2PopTree: a client-side software to construct population phylogeny from genome-wide SNPs Umayal Ramasamy, Griffith University; Sankar Subramanian, University of the Sunshine Coast |

Saturday, June 3

| | Ecology | Potpourri 2 | ASN Education Symposium |
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| 9:00AM | Geographic patterns of Head shape variation In California Pipefishes Anabell Espinosa, California State University Fullerton; Ryan Walter, California State University Fullerton | The impact of helping on helper life-history and fitness in a cooperatively breeding bird Ellie Chesterton, University of Leeds; Alexandra Sparks, University of Sheffield; Terry Burke, University of Sheffield; Jan Komdeur, University of Groningen; David Richardson, University of East Anglia; Hannah Dugdale, University of Groningen | Welcome and introduction |
| 9:15 AM | Exploring the Role of Network and Ecological Drivers in Shaping Scavenger Communities in Human-Dominated Landscapes of India Sourabh Biswas, Indian Institute of Science Education and Research- Kolkata; Anindita Bhadra, Indian Institutes of Science Education and Research- Kolkata | Brains vs Brawn: Relative brain size investment is sexually dimorphic amongst weapon bearing ruminants. Nicole Lopez, University of Montana | BEE (Biological Evolution Education) for Sustainability (Patricia Pessoa) |
| 9:30 AM | Effect of life cycle length on dynamics and stability of <i>Drosophila</i> populations selected for faster development and early reproduction Medha Rao, JNCASR, India; Chinmay Krishna, JNCASR, Bengaluru, India; Amitabh Joshi, JNCASR, Bengaluru, India | Development of the bronchial tree in the Gray short-tailed opossum (<i>Monodelphis domestica</i>) in the postnatal period Kirsten Ferner, Museum für Naturkunde Berlin (MfN) | How to win the evolution argument by not (Rana Dajani) |
| 9:45 AM | Shadow competition: What is it and where can it be found? Inon Scharf, Tel Aviv University; Graeme Ruxton, University of St Andrews | Implications of flightless presumed-South American endemic in the early Paleogene of North America (Aves: Cariamiformes: Phorusrhacidae). Peter Houde, New Mexico State University | Q&A with Pessoa and Dajani |
| 9:55 AM | | | Introduction of middle speakers |

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| | Genomic and environmental variation in a foundation species differentially shape community diversity and structure at local to regional scales | Rapid evolution during climate change: demographic and genetic constraints on adaptation to severe drought | Avida-ED in an introductory laboratory class for life science majors (Mike Wisler) |
| 10:00 AM | Gerard Allan, Northern Arizona University; Helen Bothwell, University of Georgia; Hillary Cooper, Northern Arizona University; Arthur Keith, Northern Arizona University; Julia Hull, Northern Arizona University; Catherine Gehring, Northern Arizona University; Tom Whitham, Northern Arizona University; Sam Cushman, University of Oxford; Kevin Hultine, Desert Botanical Garden | John William Benning, University of Wyoming; Alexai Faulkner, University of Minnesota; David Moeller, University of Minnesota | |
| 10:15 AM | | | Teaching Evolution as an Exercise in Game Theory (Peter Nonacs) |
| | Adaptation | Evolutionary Ecology | ASN Education Symposium |
| 11:00 AM | Morphological integration across development in the vertebral column of the mangrove rivulus fish. | Responses of a bat metacommunity in human-modified landscapes: a view based on the wing shape, and environment filter | Summary of previous session |
| 11:05 AM | Joseph Styga, Mount St Joseph University; Ryan L. Earley, The University of Alabama | Adriana Carolina Acero Murcia, Universidade Federal de Mato Grosso do Sul; Diogo Borges Provete, PhD, Assistant Professor, Federal Univ Mato Grosso do Sul; Erich Fischer, Universidade Federal de Mato Grosso do Sul | |
| 11:15 AM | Relationship between phenotypic and genotypic parallelism in stickleback | Withdrawn | Q&A with Wisler and Nonacs |
| 11:20 AM | Diana J. Rennison, University of California San Diego; Denise Meier, University of California San Diego | | Introduction of final speakers |
| 11:30 AM | Predicting fitness in different environments using fundamental trade-offs for cell growth | The genetic architecture of dispersal plasticity and its ecological consequences | Promoting scientific literacy in evolution through citizen science (Claire Narraway) |
| 11:35 AM | Mohammadjavad Meghrazi, University of British Columbia; Sarah (Sally) Otto, UBC | Jhelam N. Deshpande, ISEM, Université de Montpellier, CNRS, IRD, EPHE, Montpellier, France; Emanuel A. Fronhofer, ISEM, Montpellier | Exploring an Evolution Exhibition: Why Did They Come, What Did They Do, What Did They Learn? (Joelyn de Lima) |
| 11:45 AM | Impact of founding females' context on adaptation to a novel habitat | Color polymorphism in hawkfishes | |
| 11:50 AM | Shubha Govindarajan, National Centre for Biological Sciences; Deepa Agashe, National Centre for Biological Sciences | Samuel Greaves, Department of Biology, University of Central Florida; Jonathan Whitney, Pacific Islands Fisheries Center, NOAA; Terry Donaldson, University of Guam Marine Laboratory; Michelle Gaither, University of Central Florida | Q&A with Narraway and de Lima |
| 12:00 PM | Evidence of climate adaptation in threespine stickleback from the Haida Gwaii archipelago | ¿Catadromous migration or local adaptation? The native crab <i>Cyrtograpsus angulatus</i> upstream of the Chubut river (Argentina) | Panel Discussion (Dusan Misevic) |
| | Caitlin Wise, University of California, San Diego; Diana J. Rennison, University of California San Diego | Berenice Trovant, IDEAUS - CONICET; Miguel Alberto Pascual, INSTITUTO PATAGONICO PARA EL ESTUDIO DE LOS ECOSISTEMAS CONTINENTALES; Néstor G. Basso, IDEAUS-CONICET; Ivanna Haydee Tomasco, Facultad de Ciencias, Universidad de la República | |
| | Hamilton Award Session 1 | Molecular Evolution | |
| | Developmental mechanisms shape the evolution of stripe pattern diversity in rodents | Balancing selection on genomic deletion polymorphisms in humans | |

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| 1:30 PM | Merlijn Staps, Princeton University; Corina Tarnita, Princeton University; Ricardo Mallarino, Princeton University | Alber Aqil, University at Buffalo; Leo Speidel, University College London, Genetics Institute, United Kingdom; Pavlos Pavlidis, Institute of Computer Science (ICS), Foundation of Research and Technology-Hellas, Greece; Omer Gokcumen, University at Buffalo |
| 1:45 PM | The coevolutionary dynamics of cryptic female choice Matthew Kustra, University of California, Santa Cruz; Suzanne H. Alonzo, Univ. of California | Polygamy enhances purifying selection in birds Kees Wanders, University of Bath |
| 2:00 PM | A Lethal Multi-Gene Incompatibility in Mitochondrial Complex I of Natural Hybrids Benjamin Michael Moran, Stanford University; Cheyenne Payne, Stanford University; Daniel Powell, Stanford University; Erik Nelson Kortadler Iverson, University of Texas at Austin; Alex Donny, Stanford University; Shreya Munshi Banerjee, Stanford University; Angel Madero, Stanford University; Theresa Gunn, Stanford University; JJ Baczenas, Stanford University; Quinn Langdon, Stanford University; Korbin Kleczko, Stanford University; Fang Liu, Stanford University; Rowan Matney, Stanford University; Kratika Singhal, Stanford University; Ryan Leib, Stanford University; Osvaldo Hernandez-Perez, Centro de Investigaciones Cientificas de las Huastecas "Aguazarca", A.C.; Russell Corbett-Detig, UC Santa Cruz; Judith Frydman, Stanford University; Manfred Schartl, University of Würzburg; Justin Chase Havird, University of Texas at Austin; Molly Schumer, Stanford University | The Xenoacoelomorpha is a Keystone Phylum in Understanding How Circadian Clock Regulation Evolved to Coordinate Homeostatic Pathways Daniel Stanton, University of Florida; Adam Reitzel, UNC Charlotte |
| 2:15 PM | Surviving the serenade: how conflicting natural and sexual selection drove rapid diversification of mating signals in an insect Jay Hayden Gallagher, University of Denver; David Michael Zonana, University of Denver; Dale Broder, St Ambrose University; Aaron Wikle, University of Denver; Robin Tinghitella, University of Denver | Lateral gene transfer contributes to maize pangenome variation Lara Pereira Garcia, University of Sheffield; Luke Dunning, University of Sheffield; Pascal-Antoine Christin, University of Sheffield |
| 2:30 PM | Genomic studies of the evolution and breakdown of the Linum distyly supergene Juanita Gutierrez-Valencia, Stockholm University; Tanja Slotte, Stockholm university; Marco Fracassetti Fracassetti, Stockholm university; Emma Berdan, Stockholm University; Panagiotis Zervakis, Stockholm University; Ignas Bunikis, Uppsala University; Lucile Soler, Uppsala University; Jacques Dainat, Uppsala University; Verena Kutschera, Stockholm University; Aleksandra Losvik, Stockholm University; Aurélie Désamore, Stockholm university; William Hughes, Stockholm University; Alireza Foroozani, Stockholm University; Benjamin Laenen, Stockholm university; Edouard Pesquet, Stockholm University; Mohamed Abdelaziz, University of Granada; Olga Vinnere Pettersson, Uppsala University; Bjorn Nystedt, Uppsala University; Adrian Christopher Brennan, Durham University; Juan Arroyo, University of Seville | Evolutionary honing in and mutational replacement: how long-term directed mutational responses to specific environmental pressures are possible Adi Livnat, University of Haifa Israel; Daniel Melamed, University of Haifa |

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| 3:30 PM | <p>Non-random recolonization after a hurricane yields rapid evolution by spatial sorting</p> <p>Nikunj Goel, Graduate Student, University of Texas at Austin; Mattheau Steven Comerford, Rice University; Anastasia Bernat, Pacific Northwest National Laboratory; Meredith Cenzer, University of Chicago; Tom E. Juenger, University of Texas; Timothy Keitt, University of Texas at Austin</p> | <p>Genome-wide identification of single nucleotide mutations from time-series mutation accumulation data.</p> <p>Takahiro Maruki, McGill University; April Ozere, McGill University; Melania Cristescu, McGill University</p> |
| 3:45 PM | <p>The evolution of two transmissible leukaemias colonizing the coasts of Europe</p> <p>Alicia L. Bruzos, The Francis Crick Institute; Seila Diaz Costas, Universidade de Aveiro, Portugal; Adrian Baez-Ortega, University of Cambridge, UK; Jose M. C. Tubio, Universidade de Santiago de Compostela, Spain</p> | <p>The contribution of transposable elements in the emergence of within and between individual structural variants in bivalve molluscs</p> <p>Jacopo Martelossi, University of Bologna; Valentina Peona, Swiss Ornithology Institute; Swedish Museum of Natural History, Stockholm; Andrea Luchetti, University of Bologna; Alexander Suh, Department of Organismal Biology – Systematic Biology, Evolutionary Biology Centre; Uppsala University, Uppsala, Sweden; School of Biological Sciences, University of East Anglia, Norwich, United Kingdom; Fabrizio Ghiselli, Department of Biological, Geological and Environmental Sciences; University of Bologna</p> |
| 4:00 PM | <p>Swipe right for white pine: do divergent host preferences generate prezygotic isolation in pine-feeding sawflies?</p> <p>Ryan Ridenbaugh, University of Kentucky; Megan Thomas, University of Kentucky; Michael Asher, University of Kentucky; Laine Call, University of Kentucky; Hadley Carmichael, University of Kentucky; Kayleigh Dobson, University of Kentucky; Joseph Elsoucidi, University of Kentucky; Denise Foltz, University of Kentucky; Berina Halilovic, University of Kentucky; Brenden Hughes, University of Kentucky; Tesslyn Hutchinson, University of Kentucky; Grace Jessie, University of Kentucky; Winson Lin, University of Kentucky; Ryan Maynard, University of Kentucky; Wilson Ni, University of Kentucky; Amelia Oldfield, University of Kentucky; Peter Schoenbachler, University of Kentucky; Vincent Zheng, University of Kentucky; Catherine Ramsay Linnen, University of Kentucky</p> | <p>Signatures of extreme longevity: a perspective from bivalve molecular evolution</p> <p>Mariangela Iannello, Department of Biological, Geological and Environmental Sciences; University of Bologna; Giobbe Forni, University of Bologna; Giovanni Piccinini, Department of Biological, Geological and Environmental Sciences; University of Bologna; Ran Xu, Department of Biological, Geological and Environmental Sciences; University of Bologna; Jacopo Martelossi, University of Bologna; Fabrizio Ghiselli, Department of Biological, Geological and Environmental Sciences; University of Bologna; Liliana Milani, Department of Biological, Geological and Environmental Sciences; University of Bologna</p> |
| 4:15 PM | <p>Chromosomal inversions are key drivers of local adaptation across a steep thermal cline</p> <p>Maria Akopyan, Cornell University; Nina Overgaard Overgaard Therkildsen, Cornell University</p> | <p>Fast and reproducible phylogenomic analyses with phyloraptor</p> <p>Philipp Resl, University of Graz; Christoph Hahn, University of Graz, Austria</p> |
| 4:30 PM | <p>Density dependence in survival drives variation in density dependence in population growth rate in the red flour beetle</p> <p>Shyamsunder Buddh, National Centre for Biological Sciences; Deepa Agashe, National Center for Biological Sciences; Sandeep Krishna, National Centre for Biological Sciences</p> | <p>Modeling branch-heterogeneous amino acid evolution in simulated and empirical phylogenetic datasets</p> <p>Charley McCarthy, Dalhousie University; Edward Susko, Dalhousie University; Andrew Roger, Dalhousie University</p> |
| 4:45 PM | | <p>Exploring the relationships between spontaneous base substitution rate, spectrum, and phylogeny</p> <p>Akash Ajay, Jawaharlal Nehru University</p> |
| 5:00 PM | LGBTQ+ Mixer | Postdoc Networking Session |

Hamilton Award Session 3

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| 6:00 PM | <p>A hidden layer of achromatic plumage modulates the brightness and saturation of colorful feathers in tanagers and other birds</p> <p>Rosalyn Price-Waldman, Princeton University; Jarome Ali Ali, Princeton University; Allison Shultz, Natural History Museum of Los Angeles; Benedict Hogan, Princeton University; Mary Caswell Stoddard, Princeton University</p> |
| 6:15 PM | <p>Reproductive isolation, coexistence, and the rate-limiting controls of speciation</p> <p>Brian Lerch, University of North Carolina at Chapel Hill; Reinhard Bürger, University of Vienna; Maria Servedio, University of North Carolina</p> |
| 6:30 PM | <p>Mating-related barriers to gene flow shape ancestry patterns along hybrid baboon genomes</p> <p>Arielle Fogel, Cornell University; Tauras Vilgalys, University of Chicago; Shuyu He, Duke University; Beth Archie, University of Notre Dame; Susan Claire Alberts, Duke University; Jenny Tung, Duke University</p> |
| 6:45 PM | <p>Social heterosis in <i>Dictyostelium discoideum</i> is dependent on migration.</p> <p>Israt Jahan, Washington University in St. Louis; Joan Strassmann, Washington University in St. Louis; David Queller, Washington University in St. Louis</p> |
| 7:00 PM | <p>Evolution and functional characterization of olfactory receptors in birds</p> <p>Robert Driver, Duke University; Priyanka Meesa, Duke University; Michael Scott Brewer, East Carolina University; Hiroaki Matsunami, Duke University; Christopher Balakrishnan, East Carolina University</p> |