

**EVOLUTION 2015 June 26, Fri**

EVOLUTION 2015 June 26, Fri								
	Imperial		P. Isabel	Nobre	Ouro Preto	Tupi	Diamantina	Independência Complex
<b>26.06.2015</b>	J.Bonifácio/P.Leopoldina	T.Cristina						
08:30 - 10:00								ASN/SSE/SSB Joint Council Meeting/Breakfast
10:00 - 10:30								
10:30 - 12:00								ASN/SSE/SSB Joint Council Meeting/Breakfast
12:00 - 13:30								
13:30 - 15:00								Societies Lunch/Council individual
15:00 - 15:30								
15:30 - 17:00								
17:00 - 18:00	<b>Stephen J. Gould lecture</b>							
18:00 - 19:00								
19:00 - 21:00	<b>Opening Reception (Exhibition Center)</b>							

**EVOLUTION 2015 June 27, Sat**

	Imperial		P. Isabel	Nobre	Ouro Preto	Tupi	Diamantina	Cinema
<b>27.06.2015</b>	J.Bonifácio/P.Leopoldina	T.Cristina						
08:15 - 10:00	SSE -The multiple dimensions of biodiversity	SSB -Prokaryote comparative genomics, phylogenetics, and evolution	Hybridization I	Education	Character Evolution I	Life History	Macroevolution I	
10:00 - 10:30	<b>Coffee Break</b>							
10:30 - 12:00	SSE -The multiple dimensions of biodiversity	SSB -Prokaryote comparative genomics, phylogenetics, and evolution	Hybridization II	Women in Science (WiS)	Character Evolution II	Interspecific Interactions I	Macroevolution II	
12:00 - 13:30	<b>Lunch</b>							
13:30 - 15:00	<b>Ernst Mayr Symposium</b>	Molecular Evolution I	Biodiversity	Biogeography I	Experimental Evolution	Lightning Talks I	Phylogenetic Methods I	
15:00 - 15:30	<b>Coffee Break</b>							
15:30 - 17:00	<b>Ernst Mayr Symposium</b>		Molecular Evolution II	Biogeography II	Population Genetics I	Character Evolution III	Phylogenomics I	
17:00 - 18:00	<b>SSE Student-Mentor Mixer</b>							
18:00 - 19:00	<b>SSE Presidential Address</b>							
19:00 - 21:00	Poster Session I (Exhibition Center)			Nescent Evolution Video Contest				

**EVOLUTION 2015 June 28, Sun**

	Imperial		P. Isabel	Nobre	Ouro Preto	Tupi	Diamantina	Cinema
<b>28.06.2015</b>	J.Bonifácio/P.Leopoldina	T.Cristina						
08:30 - 10:00	ASN Temperate Assumptions	Hamilton Awards I	Phylogeography I	SSE Education Symposium	Phylogenetics I	Phenotypic Plasticity I	Adaptation I	Evolution Film Stravaganza
10:00 - 10:30	<b>Coffee Break</b>							
10:30 - 12:00	ASN Temperate Assumptions	Hamilton Awards II	Phylogeography II	SSE Education Symposium	Phylogenetics II	Behavior I	Adaptation II	Evolution Film Stravaganza
12:00 - 13:30	<b>Lunch</b>						NSF update	
13:30 - 15:00	ASN Jasper Loftus-Hills Young Investigators Award	Hamilton Awards III	Reproduction and Sex I	Climate I	Macroevolution III		Character Evolution IV	Evolution Film Stravaganza
15:00 - 15:30	<b>Coffee Break</b>							
15:30 - 17:00	Dobzhansky Prize Address		Reproduction and Sex II	Climate II	Transcriptome and Gene Expression	Kin and group Selection	Character Evolution V	Evolution Film Stravaganza
17:00 - 18:00	<b>ASN Mixer</b>							
18:00 - 19:00	<b>ASN Presidential Address</b>							Evolution Film Stravaganza
19:00 - 21:00	Poster Session II (Exhibition Center)							

**EVOLUTION 2015 June 29, Mon**

	Imperial		P. Isabel	Nobre	Ouro Preto	Tupi	Diamantina	Cinema
<b>29.06.2015</b>	J.Bonifácio/P.Leopoldina	T.Cristina						
08:15 - 10:00	SSE - When Gene Flow Really Matters	Epigenetics I	Phylogenetic Methods II	Biogeography III	Genotype-Phenotype Map		Speciation I	Evolution Film Stravaganza
10:00 - 10:30	<b>Coffee Break</b>							
10:30 - 12:00	SSE - When Gene Flow Really Matters	Epigenetics II	Phylogenetic and Statistical Methods	Biogeography IV	Genome Evolution I	Phenotypic Plasticity II	Speciation II	Evolution Film Stravaganza
12:00 - 13:30	<b>Lunch</b>							
13:30 - 15:00	ASN Contributions from Naturalists to the Fight Against Dengue in Brazil and Beyond	Phylogeography III	Phylogenetics III	Genome Evolution II	Lightning Talks II	Behavior II	Interspecific Interactions II	Evolution Film Stravaganza
15:00 - 15:30	<b>Coffee Break</b>							
15:30 - 17:00	ASN Contributions from Naturalists to the Fight Against Dengue in Brazil and Beyond	Phylogeography IV	Phylogenetics IV	Genome Evolution III	Conservation	Behavior III	Invasive Species	Evolution Film Stravaganza
17:00 - 18:00	<b>SSB Mixer</b>							
18:00 - 19:00	<b>SSB Presidential Address</b>							
19:00 - 21:00	Poster Session III (Exhibition Center)							

**EVOLUTION 2015 June 30, Tue**

	Imperial		P. Isabel	Nobre	Ouro Preto	Diamantina	Independência Complex	Cinema
<b>30.06.2015</b>	J.Bonifácio/P.Leopoldina	T.Cristina						
08:15 - 10:00	SSE - Epigenetics and Evolutionary Processes	Phylogenomics II	Speciation III	SSB -Frontiers in Parametric Biogeography: Models of geographic range evolution	Molecular Evolution III	Interspecific Interactions III		Evolution Film Stravaganza
10:00 - 10:30	<b>Coffee Break</b>							
10:30 - 12:00	SSE - Epigenetics and Evolutionary Processes	Phylogenomics III	Speciation IV	SSB -Frontiers in Parametric Biogeography: Models of geographic range evolution	Adaptation III	Population Genetics II		Evolution Film Stravaganza
12:00 - 13:30	<b>Lunch</b>							
13:30 - 15:00	SSB -Breaking Barriers: Empirical, Theoretical, and Gender Issues in Phylogenetics	Sexual Selection	Population Genetics III	SSB -Frontiers in Parametric Biogeography: Multi-taxon approaches and Landscape Evolution Models	Host, Pathogens and Disease	Reproduction and Sex III		Evolution Film Stravaganza
15:00 - 15:30	<b>Coffee Break</b>							
15:30 - 17:00	SSB -Breaking Barriers: Empirical, Theoretical, and Gender Issues in Phylogenetics	Biodiversity Along Gradients	Population Genetics IV	SSB -Frontiers in Parametric Biogeography: Multi-taxon approaches and Landscape Evolution Models	Host-Parasite Interaction	Aquatic Biodiversity		Evolution Film Stravaganza
17:00 - 18:00							Societies Council Exit Meeting	
18:00 - 19:00								
19:00 - 21:00	<b>Super Social (Exhibition Center)</b>							

**Saturday June 27, 8:30 - 10:00 AM**

<b>Time</b>	<b>J.Bonifácio/P.Leopoldina</b>	<b>T.Cristina</b>
<b>Symposium</b>	<b>SSE -The multiple dimensions of biodiversity</b>	<b>SSB -Prokaryote comparative genomics, phylogenetics, and evolution</b>
8:30	The multiple dimensions of biodiversity science: an Introduction (with lessons from the Brazilian Atlantic Forest project) Ana Carolina O Q Carnaval	8:30 Molecular thermometers: using ancestral sequence reconstruction to infer the history of adaptation to environmental temperature along the tree of life Manolo Gouy
8:45	Community Assembly On Isolated Islands: Macroecology Meets Evolution Rosemary Gillespie	9:00 Phylogenomics of pathogenic bacteria: case studies and current advances José Salvatore Leister Patané
9:15	Phylogenetic and Ecological Diversity across an Ancient Floristic Disjunction Pamela S. Soltis	9:30 Lateral Gene Transfer and origins of Archaeal major clades. Shijulal Nelson-Sathi
9:45	panel discussion Ana Carolina O Q Carnaval, Rosemary Gillespie, Pamela S. Soltis	
10:00	<b>Coffee Break</b>	10:00 <b>Coffee Break</b>
10:30	The emerging field of geogenomics: constraining geological problems with genetic data Christopher Dick	10:30 Insights into Xylella fastidiosa host-plant specialization through phylogenomics. Aline Maria da Silva
10:45	Ecological and evolutionary drivers of global mammal beta-diversity dimensions Caterina Penone	11:00 Trade-offs shaping temperate phages as accommodated and serviceable pathogens Eduardo Rocha
11:15	Understanding the evolution of the Amazonian biota: key challenges Joel Cracraft	11:30 panel discussion
11:45	Panel Discussion Christopher Dick, Caterina Penone, Joel Cracraft	Eduardo Rocha, José Salvatore Leister Patané, Shijulal Nelson-Sathi, Aline Maria da Silva, Manolo Gouy

**Saturday June 27, 8:30 - 10:00 AM**

<b>Time Session</b>	<b>P. Isabel Hybridization I</b>	<b>Nobre Education</b>	<b>Ouro Preto Character Evolution I</b>
8:30	Hybridisation and allopolyploid speciation in Mimulus <b>Mario Vallejo-Marin</b>	The OneZoom tree of life explorer at age three <b>James Rosindell</b>	Neotenus molt facilitates Evolution of Flightlessness in Birds <b>Ryan Terrill</b>
8:45	Characterizing hybridization amongst subspecies of teosinte in the Central Plateau and Balsas River Basin of Mexico David E Hufnagel	"The" Treeshrew in Biomedical Research: Evolutionary Insights Kristen Scholten	The evolution of brain structure in dragon lizards Daniel Hoops
9:00	The Genetic Basis of a Newly Identified Phenotype for Hybrid Sterile Males in Drosophila Rachelle Lynn Kanippayoor	An analysis of flipping the format of an upper level evolutionary biology course. Ashley Carter	The evolution of complex skull shape across modern bats, and its relationship with speciation Jeff Shi
9:15	Y Chromosome Interactions with Autosomal Factors Modulate Hybrid Male Sterility in Drosophila Luciana Araripe	Evolution Outreach Beyond Borders: The NESCent Ambassador Program Jory Philip Weintraub	Evolutionary patterns of pectoral fin mechanics and proprioception Brett R. Aiello
9:30	Gene expression in interpopulation hybrids: evidence for compensation in response to dysfunction Ronald Burton	Contextual gains in student understanding of evolution after inquiry-based exercises with digital organisms Louise Mead	Arboreal habitats constrain phenotypic evolution but not species diversification in vipers Laura Rodrigues Vieira de Alencar
9:45	Extensive biogeographic introgression and weak genomic divergence between phenotypically distinct wood warblers Scott Taylor		
<b>10:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	

**Saturday June 27, 8:30 - 10:00 AM**

<b>Time Session</b>	<b>Tupi Life History</b>	<b>Diamantina Macroevolution I</b>
8:30	Seasonal and latitudinal immune trade-offs in wild <i>Drosophila</i> <b>Emily L. Behrman</b>	Global diversification of ray-finned fishes in space and time <b>Michael Alfaro</b>
8:45	Metabolic scaling as a life history trait: the evolution of ontogenetic allometries in damselflies Viktor Nilsson	Life in the unthinking depths: energetic constraints on encephalization in marine fishes Teresa Iglesias
9:00	The evolution of an annual life cycle in killifish: adaptation to seasonally ephemeral aquatic environments through embryonic diapause Andrew Furness	Origins of modern avian biogeography and feathers: the critical importance of fossils in avian macroevolution Daniel J. Field
9:15	Early-life condition effects on aging of males, females and their offspring Foteini Spagopoulou	Independent Origins, Tempo, and Mode of Adhesive Performance Evolution Across Padded Lizards Travis Hagey
9:30	Contrasting patterns of life history evolution and ageing between small and large populations of <i>Daphnia magna</i> Christoph Haag	Investigating the Diversification of Car Models using Macroevolutionary Methods Erik Gjesfjeld
9:45	High-quality females invest in early-life fitness and senesce earlier in a wild bird Alexei Maklakov	Death and taxa: time-invariant differences in mammal species duration Peter D Smits
<b>10:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>



Saturday June 27, 10:30 - 12:00 AM

Time	P. Isabel Hybridization II	Nobre Women in Science (WiS)	Ouro Preto Character Evolution II
10:30	Complex patterns of speciation and hybridization in a recently diversified genus of Neotropical wild cats <b>Eduardo Eizirik</b>	TBA TBA	Environmental constraints and call evolution in torrent-dwelling frogs Sandra Goutte
10:45	How the chicken crossed the sea: reverse domestication of Kauai's feral chickens Eben Jordan Gering	TBA TBA	Effect of winter duration on post-winter development of the orange tip butterfly Sandra Stålhandske
11:00	Geographic variation in hybridization between three syntopic, morphologically similar species of Australian montane lizards Margaret Haines	TBA TBA	Temporal relationship between genetic and warning signal variation in the aposematic wood tiger moth ( <i>Parasemia plantaginis</i> ) Juan Galarza
11:15	Hybridization dynamics and outlier loci: a genomic cline approach in the carrion and hooded crow European hybrid zone. Christen Bossu	TBA TBA	Divergence Dating of Snakes Including Fossils as Terminal Taxa: New Insights on Convergent Evolution of Feeding Morphology and Limb Reduction Sean Harrington
11:30	Inferring Paternal Parentage of Hybrid Parthenoforms using Whiptail Lizards ( <i>Aspidoscelis</i> ) Alex Hall	TBA TBA	What EvoDevo can tell about the multiple origins of snakelike morphologies in Lepidosauria? <b>Tiana Kohlsdorf</b>
11:45	Pitfall of using hypervariable markers to detect hybridization in the marine environment Romina Paula Novo Lopes Henriques	TBA TBA	

**Saturday June 27, 10:30 - 12:00 AM**

<b>Time</b>	<b>Tupi Interspecific Interactions I</b>	<b>Diamantina Macroevolution II</b>
10:30	<p>Assembly of understory bird communities in Central Amazonia: insights from interspecific interaction networks and phylogenetic relatedness</p> <p><b>Karl Mokross</b></p>	<p>Parallel radiations in Danthonioideae at the Miocene/Pliocene transition: convergent evolution in growth forms</p> <p><b>Yanis Bouchenak-Khelladi</b></p>
10:45	<p>Does competition matter? Niche overlap and community assembly in Australian Meliphagidae.</p> <p>Eliot Trimarchi Miller</p>	<p>Paleophylogenetic fields: species' geographic co-occurrence and phylogenetic structure across time</p> <p>Fabricio Villalobos</p>
11:00	<p>The Role of Plant-Microbe-Insect interactions in driving rapid evolution using Medicago polymorpha as an experimental system</p> <p>Chandra Nicole Jack</p>	<p>A Spatially-explicit neutral model predicts accumulation of early branching, species-poor clades towards the geographic periphery</p> <p>James Albert</p>
11:15	<p>Molecular networks of plant secondary compounds reveal character displacement of anti-herbivore defenses in Psychotria trees.</p> <p>Brian Edward Sedio</p>	<p>Evolutionary rate heterogeneity among learned and innate vocalizations within two prominent clades of Neotropical passerines (Thraupidae, Furnariidae)</p> <p>Nicholas Mason</p>
11:30	<p>Effects of insect-host interaction on population genetic divergences in a community of palm weevils</p> <p>Bruno Augusto Souza de Medeiros</p>	<p>Omnivory as a macroevolutionary sink: lower diversification of and higher transition rates into omnivorous birds</p> <p>Gustavo Burin Ferreira</p>
11:45	<p>Moth tails divert bat attack: Evolution of acoustic deflection</p> <p>Akito Kawahara</p>	<p>The radiation of Carnivora after Cenozoic continental faunal exchanges</p> <p>Mathias Mistretta Pires</p>

**Saturday June 27, 13:30 - 15:00 PM**

**Time J.Bonifácio/P.Leopoldina**

**Symposiu**

**m Ernst Mayr Symposium**

13:30 A complex history of plastid-derived insertions and horizontal gene transfer in the mitochondrial genomes of *Monsonia*

Logan Wyatt Cole

13:45 A New Mathematical Model for Ploidy Evolution and Diploidization in Angiosperms

Rosana Zenil-Ferguson

14:00 Comparative parasitology: diversification of two pinworms across a widespread western North American clade of rodents

Kayce Bell

14:15 Phylogeny, taxonomy, and biogeography of Madagascar's tenrecs

Kathryn Everson

14:30 Progress in understanding the phylogeny of higher flies using transcriptome data

Keith M Bayless

14:45 Resolving the Avian Tree of Life using Ultraconserved Elements

Noor White

15:00 **Coffee Break**

**Saturday June 27, 13:30 - 15:00 PM**

**Time J.Bonifácio/P.Leopoldina**

**Symposiu**

**m Ernst Mayr Symposium**

Species-specific  
biogeographic impacts of  
15:30 Andean uplift on Neotropical  
rainforest trees

Jordan Bemmels

The colors of deception:  
15:45 Evolution of warning signals  
in Neotropical snakes  
(Dipsadidae)

Daniel S. Caetano

Comparative  
16:00 Phylogeography of Snakes in  
the Southeastern United  
States

Alexander D. McKelvy

Polyploid origin of coast  
16:15 redwood (*Sequoia*  
*sempervirens*) revealed by  
Bayesian concordance  
analysis

Alison Dawn Scott

16:30 Refining the picture of  
hermit crab evolution  
utilizing molecular  
phylogenetic analysis.

Catherine Waggoner Craig

16:45 Patterns of shape diversity  
across ray-finned fishes with  
crowdsourced  
morphometrics

Jonathan Chang

**Time**

17:00

SSE Student-Mentor Mixer

**Time**

**Imperial**

**SSE Presidential Address**

18:00 On the Shoulders of Giants: Seven decades of the SSE and Evolution

Daphne J. Fairbairn

**Saturday June 27, 13:30 - 15:00 PM**

<b>Time Session</b>	<b>T.Cristina Molecular Evolution I</b>	<b>P. Isabel Biodiversity</b>	<b>Nobre Biogeography I</b>
13:30	Molecular Evolution of a Duplicated Gene Involved in Plant Defense	Using community phylogenetics and the unified neutral theory of biodiversity to predict the presence of snakes on islands in the Eastern Nearctic	Comparative Biogeography of Neotropical Primates
	<b>Mark D. Rausher</b>	<b>Frank Thomas Burbrink</b>	<b>Jessica Lynch Alfaro</b>
13:45	Convergence and Parallel Adaptive Evolution of Voltage-Gated Sodium (NaV) Channels in Invertebrates and Vertebrates.	Dimensions of diversity mediated by habitat preference	Tarsiers – The phylogeography of tiny primates as legacy of Sulawesi’s turbulent past
	Charles Hanifin	Judit Ungvari-Martin	Stefan Merker
14:00	Extreme molecular convergence in toxin resistance and the predictability of evolution	Five different ways for animals to diversify	New Insights into the Systematics and Biogeography of New World Deer
	Nicholas Casewell	Hélène Morlon	Eliecer E. Gutierrez
14:15	Evolution of ionotropic receptors in passion vine butterflies.	DIET BREADTH AND DIVERSIFICATION OF ARMORED SCALE INSECTS IN A BORNEAN TROPICAL RAINFOREST CANOPY	Reassessing Colugo Phylogeny, Taxonomy, and Biogeography with Nuclear DNA Capture Hybridization and Next Generation Sequencing from Museum Specimens.
	Bas van Schooten	Shannon Trujillo	Victor C Mason
14:30	A Bayesian method for determining the strength of natural selection driving parallel genetic evolution	Species distribution models of Brazilian Tropicurus and Mabuya lizards based on eco-physiological and climatological predictors	Implications of climate-driven extinction on continent-wide disjunctions and biotic assembly in Africa
	Ailene MacPherson	Juan C Santos	Cristina Isabel Pokorny Montero
14:45	Calibrating the molecular clock beyond cytochrome b: assessing the evolutionary rate of COI in birds		
	Pablo Lavinia		

**Saturday June 27, 15:30 - 17:00 PM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Diamantina</b>
<b>Session</b>	<b>Experimental Evolution</b>	<b>Phylogenetic Methods I</b>
13:30	Experimental evolution of an RNA virus in shifting host communities Valerie Morley	An Intuitive '16S rRNA Biodiversity Tool' Kashef Qaadri
13:45	Experimental evolution of spider mites on cucumber plants: trade-offs on phylogenetically related host plant species Daniel Jacob Zydek	A graph-based approach to quantifying the phylogenetic information content of Genbank Lyndon M Coghill
14:00	Mutation rate evolution in rapidly adapting asexual mutator populations: an experimental study Mitra Maria Eghbal	Bayesian Phylogenetic Inference using RevBayes <b>Sebastian Höhna</b>
14:15	Evolution of dispersal ability increases invasion speed in laboratory mesocosms Brad M. Ochocki	Fast and accurate branch lengths estimation for phylogenomic trees Manuel Binet
14:30	Genome-wide responses to a reverse selection experiment between hot and cold environments in <i>Drosophila melanogaster</i> <b>Fernando Diaz Gonzalez</b>	Short Tree, Long Tree, Right Tree, Wrong Tree: New Acquisition Bias Corrections for Inferring SNP Phylogenies Adam Leache
14:45	Experimental evolution in <i>Drosophila melanogaster</i> : Effect of Wolbachia on evolution of virus resistance Rodrigo Cogni	Enriched sequencing libraries from museum specimens yields phylogenetically informative data using the Illumina sequencing system. John Hanson
15:00	<b>Coffee Break</b>	<b>Coffee Break</b>

**Saturday June 27, 15:30 - 17:00 PM**

<b>Time</b>	<b>P. Isabel</b>	<b>Nobre</b>
<b>Session</b>	<b>Molecular Evolution II</b>	<b>Biogeography II</b>
15:30	Multiple origins of tetrodotoxin-resistant sodium channels in squamates	Identification of Canadian Arctic glacial refugia: using microsatellites to track dispersal among <i>Gammarus lacustris</i> populations
	<b>Joel McGlothlin</b>	<b>Chris Luszczyk</b>
15:45	Evidence for cost? Biophysical properties and tetrodotoxin resistance in a snake neuronal sodium channel.	Endemism and connectivity of fire corals ( <i>Millepora</i> spp.) in the tropical Southwestern Atlantic
	Gabriela Toledo	Júlia Nunes de Souza
16:00	Patterns of evolutionary selection pressure in the Hox genes of aquatic mammals	DIVERSITY AND GEOGRAPHIC PATTERNS IN SEA CUCUMBERS (ECHINODERMATA: HOLOTHUROIDEA)
	Mariana Freitas Nery	François Michonneau
16:15	Adaptive evolution at the origin of the Pterygota (flying insects) and testing the flight/energy-metabolism link	Community Phylogenetics and the Origin of Gymnotiform Species Assemblages at the Basin Level
	T Fatima Mitterboeck	Jack Craig
16:30	Variation in opsin genes correlates with signaling ecology in North American fireflies	Coordinated Dispersal and the Pre-Isthmian Assembly of the Central American Ichthyofauna
	Sarah Sander	Scott M. Duke-Sylvester
16:45	Towards an understanding of trade-offs in social versus personal immunity: identifying social immunity loci in the honey bee	Machine Learning Biogeographic Processes from Biotic Patterns Using A New Trait-Dependent Dispersal and Diversification Model
	Brock Harpur	Jeet Sukumaran
<b>15:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Saturday June 27, 15:30 - 17:00 PM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Tupi</b>	<b>Diamantina</b>
	<b>Population Genetics I</b>	<b>Character Evolution III</b>	<b>Phylogenomics I</b>
15:30	The Maintenance of Single-locus Polymorphism by Maternal Selection  <b>Hamish G Spencer</b>	Evolutionary Diversification in Drosophila wing shape.  <b>Hugo A. Benitez</b>	Using phylogenomic tools to approach the intricate relationships within Annelida, emphasizing meiofaunal taxa  <b>Sonia Cristina da Silva Andrade</b>
15:45	Examining population genomics in two widely co-occurring cryptic lineages of reef squid  Samantha H. Cheng	Fluctuating Asymmetry in an Extreme Morphological Adaptation in Xeromelissa rozeni (Toro & Moldenke) (Hymenoptera: Colletidae)  Margarita Miklasevskaja	Genomic Evidence for Ecological Divergence Against a Background of Neutral Similarity in the Marine Snail Chlorostoma (formerly Tegula) funebris  Lani Gleason
16:00	Incipient speciation initiated by character displacement in spadefoot toads: a population genomic test  Amber Rice	Multi-locus species delimitation sheds light on the morphological evolution of complex shapes in treehoppers (Insecta: Hemiptera: Membracidae)  Olivia Evangelista	Error, signal, and the placement of Ctenophora sister to all other animals  Nathan Whelan
16:15	Migration-Selection Balance and the Unlikely Evolution of Blindness in Cavefish  Reed A. Cartwright	THE EVOLUTION OF THE SPIDER'S FEET: MULTIPLE ACQUISITIONS OF DISTAL ARTICULATIONS IN HOMOLOGOUS LOCATION  Facundo Martin Labarque	Phylogenomics of Lophotrochozoa with consideration of systematic error  Kenneth M. Halanych
16:30	The Impact of Recombination-Suppression via Inversions on Gene Conversion  Katharine Korunes	Environmental and within-species controls on the morphology of the planktic foraminifer Globocanella puncticulata  Anieke Brombacher	Signals from serine codons and their influence on phylogenomics of Pancrustacea  Andreas Zwick
16:45	On the unfounded enthusiasm for soft selective sweeps  Jeffrey D. Jensen		What, if anything, is a morwong? A genomic investigation of Cheilodactylidae using Ultraconserved Elements (UCEs)  William B. Ludt
<b>15:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>



**Saturday June 27, 13:30 - 15:00 AM**

**Time**      **Tupi**

**Sessions**   **Lightning Talks**

13:30      Diversification and biogeography of the rattlesnakes (Viperidae: Crotalinae: Crotalus and Sistrurus)

**Christopher Blair**

13:35      Diet and Diversification in the Evolution of Coral Reef Fishes

Sergio R Floeter

13:40      Evolutionary processes underlying reef fish latitudinal diversity gradient

Alexandre Siqueira Corrêa

13:45      Morphological evolution subsequent to the colonization of a new landmass

Timothy Sosa

13:50      Multicultural Advancement in Science (MAS): Supporting marginalized students' educational trajectories and faculty mentorship

Jonathan Charles Marshall

13:55      BIG4 network: training insect systematists of the future

Alexey Solodovnikov

14:00      Integrating diverse data in comparative biology

Luke Harmon

14:05      Explaining the geographic spread of emerging viruses: a new framework for comparing viral genetic information and environmental landscape data

Simon Dellicour

14:10      Evolution of Ecological Niches in the Geositta Miners (Aves: Furnariidae: Sclerurinae)

Vivian Ribeiro

14:15      Phylogeny of the suckermouth armored catfishes (Siluriformes: Loricariidae) based on mitochondrial genome

Daniel A. Moreira

14:20      The molecular phylogeny of Ellobiidae (Gastropoda: Panpulmonata) supports independent terrestrial invasions

Pedro Eduardo Romero Condori

**Saturday June 27, 13:30 - 15:00 AM**

**Time**      **Tupi**  
**Sessions**   **Lightning Talks**

14:25      Molecular Phylogeny of Deer Flies (Diptera: Tabanidae: Chrysopsinae)

Mauren Turcatel

14:30      Integrating fossils into the phylogeny of rove beetles.

Dagmara Żyła

14:35      Clitellomics: Untangling the phylogeny of earthworms, leeches and their allies

Frank Edward Anderson

14:40      Asymmetrical introgression in Trachemys turtles

Brian Simison

14:45      Geometric morphometrics as a tool for interpreting evolutionary transitions in aquatic insect wing

Mateus Pepinelli

14:50      Molecular phylogeny and Biogeography of Psomophis (Squamata: Dipsadidae) in Neotropical Dry Diagonal

Jéssica Fenker Antunes

14:55      Genomics of speciation: with gene-flow or because of it?

Shannon N. Bennett

15:00      Is there evidence of bias in molecular phylogenetic estimates of the squamate tree of life?

Genevieve G Mount

15:05      Comparative Methods: Hierarchical Bayesian Models of Trait Evolution

Matthew Pennell

15:10      RWTY: An R package for visualizing convergence and agreement in phylogenetic MCMC chains

Dan Warren

**Saturday June 27, 19:00 - 21:00 PM**

**Poster Session I**

PO-133	Looking into the past – the reaction of three grouse species to climate change over the last million years Radoslav Kozma
PO-220	Population connectivity of <i>Agaricia lamarcki</i> from mesophotic and shallow reefs between Puerto Rico and the U.S. Virgin Islands Nick Hammerman
PO-241	Patterns of genetic variation in the Australian Grey Fantail complex: <i>Rhipidura albiscapa</i> and <i>Rhipidura phasiana</i> Shaina Lu
PO-268	Phylogeography and paleodistribution of Passerines reveals different biogeographic histories between two Neotropical Forests. TRUJILLOARIAS/ NATALIA
PO-282	Visual systems in South American cichlids Daniel Escobar Camacho
PO-332	Gene expression in diapause larvae of <i>Tetrapedia diversipes</i> (Hymenoptera: Apidae) Priscila Karla Ferreira dos Santos
PO-350	Persistent viral phylogeographic structure on a homogeneous landscape Trieste Musial
PO-404	Inference of population structure in the threatened foothill yellow-legged frog, <i>Rana boylii</i> : Preliminary results of RADseq analysis Muge Gidis
PO-442	Usefulness of mtDNA Control region for phylogenetic and phylogeographic studies in bioluminescent Elateridae species (Coleoptera). Vadim Viviani
PO-501	Recent populational expansion of the Neotropical spider <i>Nephila sexpunctata</i> (Araneae: Nephilidae) from Chaco and Cerrado Luiz Filipe de Macedo Bartoletti
PO-510	Demographic history of major HIV-1 subtype B pandemic clades circulating in Latin America. Daiana Mir Da Silva
PO-528	Quantitative genetics of social interactions Devin Dobias
PO-548	Global and continental patterns of host specificity in avian haemosporidians Paulo Pulgarín
PO-577	Solanaceae biogeography: dispersal patterns over space and time Julia Guedes Rocha Dupin
PO-594	Evolution and conservation on top of the world: Phylogeography of the Marbled Water Frog in protected areas of Chile Paola Sáez González
PO-604	Host associations and genetic diversity of avian chewing lice (Phthiraptera: Ischnocera) from South Africa Oona Takano

**Saturday June 27, 19:00 - 21:00 PM**

**Poster Session I**

- PO-619 Comparative gill transcriptomics and candidate genes for marine to freshwater transitions in South American silverside fishes  
Lily Hughes
- PO-652 Oxygen carriers in Annelida: the globins are not alone  
ELISA MARIA COSTA E SILVA DE PAIVA
- PO-657 Mitochondrial genome evolution of the geranium family: Elevated substitution rates and reduced genomic complexity  
Felix Grewe
- PO-671 Evolutionary aspects of gene expression during *Drosophila melanogaster* spermatogenesis  
Júlia Beck Raíces
- PO-672 Characterization of genes with detoxifying function in desert iguanas derived from de novo transcriptome assemblies  
Juan C Santos
- PO-679 APOE and APOA2 genetic diversity in Native South American populations  
Guillermo Reales Monteagudo
- PO-680 Landscape demography: population dynamics across spatial scales  
Jessica Gurevitch
- PO-682 Diversification and landscape genetics of *Osteocephalus taurinus* (Anura: Hylidae) in Central Amazonia: Preliminary Results  
Diego Armando Ortiz
- PO-690 Phylogeography and genetic structure of two *Pitcairnia* species (Bromeliaceae)  
Clarisse Palma da Silva
- PO-692 Conservation Genetics of the Endangered Southern Purple-Spotted Gudgeon *Mogurnda adspersa* (Teleostei, Eleotridae)  
Minami Sasaki
- PO-700 Combining phylogeography and estimates of future climates to inform conservation of *Bombus pauloensis* (Hymenoptera: Apidae)  
Elaine Aparecida Françoso
- PO-704 Morphological Variation and Population Genetic Structure of *Rhoadsia altipinna* (Characidae: Rhoadsiinae) in Southwestern Ecuador  
Windsor Aguirre
- PO-710 Genetic divergences of western Atlantic marine organisms indicate strong Pleistocene influence by the Amazon Barrier  
Naomi Silveira Lastrucci
- PO-713 Reorganization of taxonomic, functional, and phylogenetic ant biodiversity patterns after conversion to rubber plantation in SE Asia  
Cong Liu
- PO-719 Population genetic structure of *Fregata magnificens* (Aves, Suliformes) breeding colonies in the Western Atlantic Ocean  
Andressa Nuss
- PO-726 Population Genetic Structure of the Blue Shark *Prionace glauca* (Linnaeus, 1758) in the Atlantic Ocean.  
Juliana Beltramin De Biasi

**Saturday June 27, 19:00 - 21:00 PM**

**Poster Session I**

PO-727	Population viability analysis in restoration areas using spatially explicit model and genetic parameters Patricia Sanae Sujii
PO-729	Anonymous nuclear markers reveal taxonomical incongruences and long-term disjunction in a cactus species complex with continental-island distribution. Manolo Fernandez Perez
PO-730	Connectivity and genetic variability of the oceanic whitetip shark, <i>Carcharhinus longimanus</i> , using mitochondrial DNA Sâmia Mouallem de Camargo
PO-735	High population structure and genetic diversity of the tiger shark in the western Atlantic Ocean Bruno Lopes da Silva Ferrette
PO-741	Diversification along the Amazonian flooded forests: Phylogeography of the Ash-breasted Antbird ( <i>Myrmoborus lugubris</i> ), based on mtDNA. Gregory Thom
PO-742	Evolutionary genomics and transcriptomics of the adaptive radiation of <i>Dysdera</i> (Araneae) in the Canary Islands Julio Rozas
PO-751	Historical biogeography of the Neotropical fish genus <i>Mimagoniates</i> Regan (Teleostei: Characiformes: Characidae) based on a molecular approach Priscila Camelier de Assis Cardoso
PO-753	Congruence of phenotypic and genetic variation at the subspecific level in a Neotropical passerine Natalia Cristina García
PO-754	Comparative landscape genetics of two frog species from the Brazilian Chaco Gabriel Paganini Faggioni
PO-756	Differential expression in kidney transcriptomes across an environmental gradient in the Patagonian olive mouse ( <i>Abrothrix olivacea</i> ) Enrique Lessa
PO-757	Deconstructing amazonian river basins as biogeographic units Fernando Cesar Paiva Dagosta
PO-760	Origin, distribution and variation of cytotypes in mountain orchids from the 'Zygopetalum maculatum' species complex Samantha Koehler
PO-763	Migration patterns of <i>Prochilodus lineatus</i> (Characiformes, Characidae) identified by morphometric and molecular genetic markers. Daniela José de Oliveira
PO-765	Event-based phylogeographic reconstructions suggest that range expansions accompanied transitions to serpentine soil in California. Barbara Dobrin
PO-768	Population Genomics of Brazilian mountain lion ( <i>Puma concolor</i> ) Sonia Cristina da Silva Andrade
PO-770	Patterns of genetic structure of sweet and bitter manioc diversity across Brazilian Amazonia Alessandro Alves-Pereira

**Saturday June 27, 19:00 - 21:00 PM**

**Poster Session I**

- PO-774 The Nuclear Receptors (NRs) of armoured catfish (*Pterygoplichthys anisitsi*, Loricariidae)  
Maithê Gaspar Pontes Magalhães
- PO-781 Identifying conservation priorities in freshwater crabs  
Katie Davis
- PO-784 A transcriptomic assessment of renal gene expression in natural populations of the Patagonian long-haired mouse *Abrothrix hirta*.  
Guillermo D'Elia
- PO-785 *Wolbachia* in *Drosophila*-parasitoid communities from Rio de Janeiro.  
Blanche Christine Bitner-Mathé
- PO-786 The effect of outbreeding and inbreeding in captive populations of tamarins  
Karla Verónica Chávez Rodríguez
- PO-788 Comparative phylogeography of two lizards from central-south Chile: congruences, rivers and mountains.  
Pedro F. Victoriano
- PO-791 Conservation Genetics  
Jeannie Marie Mounger
- PO-793 Signs of genetic introgression in natural populations of *Cattleya xanthina* (Orchidaceae) revealed by sequencing two non-coding fragments of cpDNA.  
Viviane Silva-Pereira
- PO-802 Transcriptome analysis supports *Rhodnius montenegrensis* and *Rhodnius robustus* (Hemiptera, Reduviidae, Triatominae) as distinct species.  
Danila Blanco de Carvalho
- PO-803 Recent demographic expansion in the widely distributed *Argiope argentata* (Araneae: Araneidae)  
Jair Francisco Mendes Junior
- PO-805 DNA Analysis and Morphological Comparisons among Damselfish (Labroidei: Pomacentridae) From Deep Coral Reefs in the Philippines Reveal New Species  
Claudia Rocha
- PO-809 New insights into the study of the anuran PcP190 satellite DNA  
Luciana Bolsoni Lourenço
- PO-812 Genetic structure of *Crotalaria pallida* (Fabaceae), a pantropical specie  
Beatriz Pereira Cunha
- PO-813 Impact of the environment on divergence among highly isolated plant populations  
Artur Maia Wanderley
- PO-814 Genetic lineages revealed by phylogenetic analyses expand knowledge of the evolution of the sex chromosomes of the anuran *Physalaemus ephippifer*  
Luciana Bolsoni Lourenço
- PO-821 Transcriptome scan for genes under positive selection in reproductive tissue of two Neotropical tephritid fruit flies  
Carlos Congrains Castillo
- PO-822 Phylogeography of *Galbula albirostris* and *G. cyanicollis* (Aves: Galbulidae) in the Amazon, Brazil.  
Carla Hailser Sardelli

**Saturday June 27, 19:00 - 21:00 PM**

**Poster Session I**

- PO-826 Molecular characterization of breakpoints of IIL-H chromosomal inversion in the sequenced strain Gd-H4-1 of *Drosophila willistoni*  
Carolina Flores Garcia
- PO-827 Genetic diversity and population dynamics of the bigeye thresher shark, *Alopias superciliosus* (Lowe, 1839), identified by a molecular marker.  
Millke Jasmine Arminini Morales
- PO-833 Integrative and Conjugative Elements contribute to the *Helicobacter pylori* genome diversity  
Michel Abanto Marin
- PO-834 The diversity of transcription machinery in *Pterygoplichthys anisitsi* catfish (Loricariidae, Siluriformes)  
Paula Cristina Cordeiro de Andrade
- PO-840 An evolutionary history of South American basins telling by ZW *Leporinus* (Characiformes: Anostomidae)  
Pedro Manoel Galetti Junior
- PO-851 Conservation genetics of *juçara* populations (*Euterpe edulis* Martius) aiming sustainable management practices and conservation in the Atlantic Forest  
Mariana Novello
- PO-852 Temporal phylogeographic variation in the tunicate *Pyura chilensis* (Urochordata, Ascidiacea) along the Coast of Chile  
Natalia Carolina Muñoz Herrera
- PO-858 Oxytocin and arginine vasopressin receptor evolution in placental mammals  
Pamela Laiz Paré da Rosa
- PO-871 In a Lilliput world: a landscape window for microendemism of a tiny frog  
Luciana Ardenghi Fusinatto
- PO-876 Gene expression analyses of bivoltine behavior in the solitary bee *Tetrapedia diversipes* and its implication in eusociality  
Natália de Souza Araujo
- PO-880 The role of water masses and adaptive divergence in structuring octocoral populations along the continental slope in the deep sea  
Andrea Quattrini
- PO-889 Gene flow from an adaptively divergent source causes genetic rescue in Trinidadian guppies  
Sarah Fitzpatrick
- PO-893 Phenotypic and molecular consequences of mutation accumulation in *Chlamydomonas*  
Peter Keightley

**Sunday June 28, 8:30 - 10:00 AM**

<b>Time</b>	<b>J.Bonifácio/P.Leopoldina</b>	<b>Nobre</b>
<b>Symposium</b>	<b>ASN Temperate Assumptions</b>	<b>SSE Education Symposium</b>
8:30		Exploring Evolution in Brazilian Ecosystems Eimear Nic Lughadha
9:00	Temperate assumptions: how where we work influences what we think Marlene Zuk	Facing drought: strategies for survival in Caatinga, a tropical semiarid ecosystem in northeastern Brazil Marcelo Freire Moro
9:30	Experimental approaches to studying climate change and plant-animal interactions: the tropical impacts of temperate biases Emilio M. Bruna	Tracking biological invasions and sorting out cryptic speciation in Brazilian earthworms Sam James
10:00	<b>Coffee Break</b>	<b>Coffee Break</b>
10:30	Evolution and diversity of reproductive modes and parental care in temperate and tropical frogs. Kelly Zamudio	When research programs evolve: lessons from historical biogeographic studies of the Atlantic Forest biota Ana Carolina Carnaval
11:00	No more shades of grey: the world is a colorful mosaic of climates Glauco Machado	Case studies as a means of understanding evolution Thomas Meagher
11:30	The Role of Intra-Tropical Migration in the Life Cycle of Nearctic-Neotropical migrants Bridget Stutchbury	Panel Discussion Eimear Nic Lughadha, Marcelo Freire Moro, Sam James, Ana Carolina Carnaval, Thomas Meagher



**Sunday June 28, 8:30 - 10:00 AM**

<b>Time Session</b>	<b>T.Cristina Hamilton Awards I</b>	<b>P. Isabel Phylogeography I</b>
8:30	Adaptive genetic differentiation during the lag phase of a newly invasive bunchgrass ( <i>Brachypodium sylvaticum</i> ) Gina Marchini	Phylogeography and footprints of selection in <i>Protea repens</i> . <b>Rachel Prunier</b>
8:45	The evolution of an annual life cycle in killifish: adaptation to seasonally ephemeral aquatic environments through embryonic diapause Andrew Furness	Spatio-temporal distribution of community age in planktonic foraminifera through deep time Isabel Fenton
9:00	Experimental evidence for variation in mutation rate due to condition-dependent DNA repair Nathaniel Sharp	Jumping frog, hidden history: a phylogeographic analysis across the disjunct distribution of the Pine Barrens Treefrog Alexa Warwick
9:15	Population divergence predicts evolutionary diversification in New World birds Michael Harvey	Phylogeographic inference using Bayesian model comparison across a fragmented chorus frog species complex Lisa Barrow
9:30	Adaptation of thermal tolerance over : Rachael Bay	The history of the xeric Caatinga: genome-wide phylogeography of frogs enduring an unstable biome Maria Tereza Chiarioni Thome
9:45	Predators effect on the adaptive landscape shape in a mimetic butterfly Monica Aris	Comparative Phylogeography of Ethiopian Anurans Stephane Boissinot
<b>10:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Sunday June 28, 8:30 - 10:00 AM**

<b>Time Session</b>	<b>Ouro Preto Phylogenetics I</b>	<b>Tupi Phenotypic Plasticity I</b>	<b>Diamantina Adaptation I</b>
8:30	Pitfalls and promises in arthropod phylogenomics: reconciling genes, isoforms, fossils, morphology and biogeography.	A theoretical exploration of the interaction of habitat choice and phenotypic plasticity in adaptation to complex landscapes	Mechanisms underlying Heat Shock Protein gene regulation and local adaptation in the copepod <i>Tigriopus californicus</i>
	<b>Rosa Fernández</b>	<b>Samuel Scheiner</b>	<b>Sumaetee Tangwancharoen</b>
8:45	Utility of restriction-site associated DNA sequencing for inferring bee phylogeny: from species to families	How Males Shape Up: Exploring the Evolution of Male Morphology in a Poeciliid Fish	Potential roles of evolutionary history and parental effects in butterfly responses to heavy metals
	Sophie Cardinal	Joseph Alex Landy	Megan Kobiela
9:00	Evolution of convergent functional systems in a speciose clade of parasitic wasps (Hymenoptera, Ichneumonidae, Cryptini)	Transgenerational phenotypic plasticity links breeding phenology with offspring life-history	Pre-industrial melanism: The origin, maintenance, and genetic basis of an urban melanic morph of the vermilion flycatcher.
	Bernardo F Santos	Anssi Laurila	C. Jonathan Schmitt
9:15	How parallel is parallel evolution? An informal meta-analysis in the fishes	Experimental evolution of learning and preference in changing environments	Urban Evolution: Natural selection and genetic basis of phenotypic shifts in urban <i>Anolis cristatellus</i>
	Krista Oke	Aimee S Dunlap-Lehtila	Kristin Winchell
9:30	Tree building on Noah's Ark: the impact of poor sampling of polymorphism on phylogenetic inference	Locally correlated and globally independent: quadratic reaction norms uncover the complexity of phenotypic plasticity variation.	The use of multiple host resources generates fitness variation in a mycophagous beetle
	Akinobu Watanabe	Felipe Bastos Rocha	Corlett Wolfe Wood
9:45	The influence of ecological and geographical context in the radiation of Neotropical sigmodontine rodent	The evolution of environmental cues for phenotypic plasticity	Comparing fitness trajectories in long-term evolution experiments in microbes and digital organisms
	Andres Parada Rodriguez	Luis-Miguel Chevin	Michael Wiser
<b>10:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Sunday June 28, 10:30 AM - 12:00 PM**

<b>Time</b>	<b>T.Cristina</b>	<b>P. Isabel</b>
<b>Session</b>	<b>Hamilton Awards II</b>	<b>Phylogeography II</b>
10:30	The Darwin-Fisher hypothesis explains sexual selection pressures in a polygynandrous, sex-role reversed pipefish	Little brown and spotty: Cryptic and parallel speciation in rock geckos from northern Australia
10:45	Sarah Perry Flanagan Competitive interactions upon secondary contact drive elevational divergence in tropical birds	<b>Craig Moritz</b> Landscape genomics of Australian skinks
11:00	Benjamin Gardner Freeman An invasive predator, the red imported fire ant, alters latitudinal gradients of multiple traits in a native lizard	Pascal Title Comparative Phylogeography and Speciation of Phrynosomatid Lizards in Baja California, Mexico
11:15	Christopher Thawley Patterns of Genetic Variation in Space	Andrew Gottscho Pseudocongruence in Comparative Phylogeography Across North American Deserts
11:30	Gideon Bradburd Epistasis is a major determinant of the additive genetic variance in <i>Mimulus guttatus</i>	Edward A Myers Comparative phylogeography of co-distributed <i>Anolis</i> lizards from Puerto Rico
11:45	Patrick J Monnahan Seasonal and latitudinal immune trade-offs in wild <i>Drosophila</i> Emily L. Behrman	Matthew T McElroy
<b>12:00</b>	<b>Lunch</b>	<b>Lunch</b>

**Sunday June 28, 10:30 AM - 12:00 PM**

<b>Time</b>	<b>Ouro Preto Phylogenetics II</b>	<b>Tupi Behavior I</b>	<b>Diamantina Adaptation II</b>
10:30	Phylogeny and evolutionary diversification of a South American radiation: the Brazilian Eupatorieae (Asteraceae)	Using human vision to assess animal coloration: How bad is it?	The potential for somatic evolution in plants; evidence for autogamy depression in <i>Mimulus guttatus</i>
	<b>Vanessa Rivera</b>	<b>Rebecca (Becky) Fuller</b>	<b>Mitch Cruzan</b>
10:45	Cecropieae (Urticaceae) phylogeny and the evolution of an ant-plant mutualism	Using multiple warning colors to categorize mimetic prey	Polyploid Formation Shapes Flowering Plant Diversity
	Erin L. Treiber	David Kikuchi	Samuel V. Scarpino
11:00	Evolution of the thermal niche and its impact on biodiversity patterns in seaweeds	A Novel Mechanism for Color Vision: The Exploitation of Chromatic Aberration Can Provide Spectral Discrimination for "Color Blind" Organisms.	Neighbour plant chemistry changes plant resistance and associated invertebrate community
	Heroen Verbruggen	Alexander Stubbs	Carlos Bustos
11:15	The evolution of energetic scaling relationships across the vertebrate tree of life	Fluorescence complements ultraviolet as a visual signal for butterflies but not for predators	Mating system transitions and convergent floral evolution in plants
	Josef C Uyeda	Susan Finkbeiner	Stuart Campbell
11:30	The Turtle Tree of Life	Sexual dimorphism and species divergence following UV opsin duplication in <i>Heliconius</i> butterflies.	The evolution of pollen-pistil incompatibilities in <i>Phlox</i>
		Kyle J. McCulloch	Federico Roda Fornaguera
11:45	H. Bradley Shaffer	Visual divergence in the young Midas cichlids radiation is driven by changes in gene expression	
12:00	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>

**Sunday June 28, 13:30 - 15:00 PM**

**Time** J.Bonifácio/P.Leopoldina

**Symposium** ASN Jasper Loftus-Hills Young  
**m** **Investigators Award**

Genotype-by-environment

13:30 interactions and the genomic  
basis of local adaptation

Jesse Lasky

Evolution of brain size and  
structure: insights from

14:00 primates and butterflies

Stephen Hugh Montgomery

Mimicry, Recognition and the  
14:30 Evolution of New Phenotypes

Mary Caswell Stoddard

15:00 **Coffee Break**

**Symposium** ASN Jasper Loftus-Hills Young  
**m** **Investigators Award**

Linking ecology with the  
macroevolution of plant-

15:30 arthropod defense mutualisms

Marjorie Weber

**Symposium** Dobzhansky Prize Address  
**m**

Speciation and diversity in

16:00 African cichlid radiations

Catherine E Wagner

**Time**

17:00

ASN Mixer

**Time**

**Imperial**

**ASN Presidential Address**

18:00

What evolution, ecology and behavior have in common: the organism in the middle

Ellen Ketterson

**Sunday June 28, 13:30 - 15:00 PM**

<b>Time</b>	<b>T.Cristina</b>	<b>P. Isabel</b>	<b>Nobre</b>
<b>Session</b>	<b>Hamilton Awards III</b>	<b>Reproduction and Sex I</b>	<b>Climate I</b>
13:30	The couch potato gene mediates life history plasticity in <i>Drosophila melanogaster</i>	Widespread positive but weak assortative mating by diet within stickleback populations	The Role of Tumor Necrosis Factor Receptors in Heat Stressed Corals
	<b>Katherine O'Brien</b>	<b>Travis Ingram</b>	<b>Nikki Traylor-Knowles</b>
13:45	The evolution of sweet taste perception in hummingbirds	To get chicks you need bucks, but frogs get too much bang for their chucks	Comparative Evolutionary Genomics of Adaptation to Climate Change in Australian Rainbowfishes
	<b>Maude W Baldwin</b>	<b>Wouter Halfwerk</b>	<b>Luciano Beheregaray</b>
14:00	Reduced competition facilitates coexistence of alternative resource-use phenotypes: an experimental test	Reproduction and immunity trade-offs may constrain nuptial gift size and signal evolution in a bushcricket	Mitochondrial basis of thermal tolerance in the intertidal copepod <i>Tigriopus californicus</i>
	<b>Lisa Bono</b>	<b>Flavia Barbosa</b>	<b>Alice Harada</b>
14:15	Resource competition and the evolution of sexual dimorphism	Sexual dichromatism in frogs: natural selection, sexual selection and unexpected diversity	Seascape genomics of <i>Roe's</i> abalone: a spatial analysis of neutral and adaptive variation in a species challenged by climate change
	<b>Stephen De Lisle</b>	<b>Rayna Bell</b>	<b>Jonathan Sandoval</b>
14:30	Gene flow from an adaptively divergent source causes genetic rescue in Trinidadian guppies	How does individual condition affect lifetime reproductive success? Patterns of male reproductive ageing in Neriid flies	Climate driven diversification through deep time in hermit and true crabs
	<b>Sarah Fitzpatrick</b>	<b>Amy Hooper</b>	<b>Katie Davis</b>
14:45		Dynamic digestive physiology of a female reproductive organ in a polyandrous butterfly	Impact of climate change on host-parasite interactions
		<b>Melissa Plakke</b>	<b>Itzel Zamora-Vilchis</b>
<b>15:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Sunday June 28, 13:30 - 15:00 PM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Diamantina</b>
<b>Session</b>	<b>Macroevolution III</b>	<b>Character Evolution IV</b>
13:30	The emergence of biodiversity patterns through deep evolutionary time	Carnassial tooth morphology infers different ecological histories for cats & dogs (Mammalia: Carnivora).
	<b>Olivier Missa</b>	<b>Samantha Price</b>
13:45	Primates and snakes, an 80 million year dialog?	Is myomorphy better? Innovations in rodent masseter evolution bypass historic functional constraints in gnawing versus chewing
	Harry W. Greene	Dallas Krentzel
14:00	The dynamics and drivers of Canidae biodiversity in geological time	Effects of directional selection in the ability to respond to selection in the alpine chipmunk
	Tiago Bosisio Quental	Ana Paula Aprígio Assis
14:15	Niche and trait evolutionary rates are correlated during evolutionary radiation	Pleiotropy as the genetic basis for the high craniofacial integration in marsupials
	Renske Onstein	Arthur Porto
14:30	Generating new models for detecting phylogenetic signals of endemism and dispersal: effects of Pangaeian breakup and avian flight on Mesozoic dinosaurs	A Phylogenetic Analysis of Covariance Structure in the Skull of Anthropoid Primates
	Graeme T. Lloyd	Guilherme Rodrigues Gomes Garcia
14:45	Structuring evolution: Biochemical networks and color diversification in birds	Evolution of neurocranial morphology along lines of least developmental resistance in Neotropical electric fishes
	Erin Morrison	Kory Evans-Jackson
<b>15:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Sunday June 28, 15:30 - 17:00 PM**

<b>Time</b>	<b>P. Isabel</b>	<b>Nobre</b>
	<b>Reproduction and Sex II</b>	<b>Climate II</b>
15:30	Global patterns and predictors of male and female song in the world's birds	Geological and climatic change define ecological limits to species diversity
	<b>Joseph Andrew Tobias</b>	<b>Thomas Harold George Ezard</b>
15:45	Parentage and relatedness inference in Leach's storm petrel ( <i>Oceanodroma leucorhoa</i> ) using Rad-seq data	A major role of climatic changes on phenotypic evolution in birds and mammals.
	Yung Wa Sin	Julien Clavel
16:00	A Shared Genetic Basis for the Evolution of Male and Female Ornaments in Threespine Sticklebacks	Skull Modularity and Climate in Anuran Amphibians
	Jeffrey S. McKinnon	Monique Nouailhetas Simon
16:15	Testing Bateman: selection on floral traits through male and female fitness in two milkweed species.	A step backwards to move forward: Footprints of climate change on genetic populations dynamics
	Raffica J. La Rosa	Alexander Florez-Rodriguez
16:30	The Free Radical theory of ageing and the evolution of sex differences	Differential Effects of Climate and Species Interactions on Range Limits at a Hybrid Zone: Potential Direct and Indirect Impacts of Climate Change
	Björn Rogell	Michael A McQuillan
16:45	Why are males so weak? Sex-specific effects of hybridization in the tidepool copepod <i>Tigriopus californicus</i>	Evidence of climate-induced heterochrony in the Soay sheep skull
	Suzanne Edmands	Elis Marina Damasceno Silva



**Sunday June 28, 15:30 - 17:00 PM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Tupi</b>	<b>Diamantina</b>
	<b>Transcriptome and Gene Expression</b>	<b>Kin and group Selection</b>	<b>Character Evolution V</b>
15:30		Evolution of learned behaviors: insights from birds and humans  <b>Nicole Creanza</b>	Coping with an environmental disaster: comparing phenotypic with genetic effects of radiation exposure in <i>Myodes glareolus</i> from Chernobyl, Ukraine  <b>Maria Raquel Marchan-Rivadeneira</b>
15:45	Transcriptome-wide differential gene expression between seasonal forms and sexes of <i>Bicyclus anynana</i> butterfly eyes  Aide Macias Muñoz	Modeling the Evolution of Concealed Ovulation  Kelly Rooker	3D morphometrics and the evolution of avian bill morphology  Christopher Cooney
16:00	The Evolution and Development of the Webspinners (Insecta, Embiidina): Looking Beyond Model Organisms  Erik Severo Garcia	Predicting male mating effort in response to female quality, competition and relatedness amongst competitors  Mitchel Daniel	Effects of environment on bill morphology vary among time scales, seasons, and bill traits  Kathleen LaBarbera
16:15	Transcriptomic Response to Hydrocarbon Stress in <i>Spartina alterniflora</i>  Mariano Alvarez	Repeatability and Fitness Consequences of Social Network Position  Vincent Formica	Morphological responses to anthropogenic habitat transformation: Body shape change in two predatory fishes in artificial impoundments of Ecuador  Windsor Aguirre
16:30	Differential gene expression associated with migratory condition of Tree Swallows collected at a stopover site during fall migration  Clare Brown	Sociality in parasitic flatworms: evidence that a soldier caste is widespread across the Trematoda  Ana Elisa Garcia Vedrenne	Phylogenetics and biodiversity of cranial functional morphology in triggerfishes (Teleostei: Balistidae)  Charlene McCord
16:45	The Transcriptomics of Diapause and Desiccation Tolerance in Annual Killifishes  <b>Andrew Thompson</b>	Collective action and the collaborative brain  sergey gavrilets	

**Sunday June 28, 19:00 - 21:00 PM**

**Poster Session II**

- |        |  |
|--------|--|
| PO-162 | Epistemological Concerns for Estimating Extinction<br>Prosanta Chakrabarty   |
| PO-176 | Polyploidy and its effect in the evolutionary history of <i>Senecio lautus</i> (Asteraceae)<br>Henry Arenas-Castro   |
| PO-222 | The Metapopulation Quantitative Genetics of Species Differences<br>Charles Goodnight   |
| PO-250 | Diversity of the serpent fauna in Central Africa: from field surveys to integrative systematics<br>Zoltan Tamas Nagy   |
| PO-262 | Phylogenomics of Anthozoa (Cnidaria): new approaches to long-standing problems<br>Estefania Rodriguez  |
| PO-291 | Phylogenetic framework for coevolutionary studies: a compass for exploring jungles of tangled trees<br>Andres Martinez-Aquino  |
| PO-292 | The rise of the Andes: A driver of diversification in <i>Brachistosternus</i> (Scorpiones: Bothriuridae)?<br>Fadia Sara Ceccarelli   |
| PO-358 | Targeted capture and resequencing of 1040 genes reveal environmentally driven functional variation in gray wolves<br>Rena Schweizer  |
| PO-366 | Using next generation RAD sequencing to isolate multispecies microsatellites for <i>Pilosocereus</i> (Cactaceae) genus<br>Isabel A S Bonatelli   |
| PO-429 | Plastome phylogenomics of a clade of Neotropical lianas ( <i>Amphilophium</i> , Bignoniaceae)<br>Verônica Aydos Thode  |
| PO-500 | Testing the role of historical and ecological factors in the diversification history of <i>Dolichandra</i> (Bignoniaceae, Bignoniaceae)<br>Luiz Henrique Martins Fonseca                       |
| PO-512 | A RAD phylogeny of <i>Eurycea</i> salamanders : the effect of partitioning ddRAD data in tree building<br>Kathleen Lyons   |
| PO-523 | Community phylogenetics at the habitat scale: Species assemblages of Central and South American gymnotiform fishes<br>Lesley Yu-Jung Kim   |
| PO-554 | Sympatric tree taxa from the Cerrado and coastal savannas display discordant demographic histories and taxon-specific mechanisms of diversification<br>Paula Nogueira de Vasconcelos Gonçalves |
| PO-585 | Endothermy evolution and its macroevolutionary consequences in mammals: multiples pathways through species diversification.<br>Jorge Avaria Llautureo  |
| PO-586 | Phylogenetic Systematics and Historical Biogeography of Teiid Lizards Using Next-Generation Sequencing<br>Derek B Tucker   |

**Sunday June 28, 19:00 - 21:00 PM**

**Poster Session II**

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|--------|--|
| PO-603 | Reduced cellular immune response in social insect lineages<br>Margarita M López-Urbe   |
| PO-612 | Phylogenetic signal of nematocysts in Staurozoa (Cnidaria)<br>Lucilia Souza Miranda  |
| PO-615 | Revisiting ecogeographic hypotheses behind latitudinal morphological variation: climatic correlates of body size in Torrent Ducks<br>Natalia Gutierrez-Pinto                           |
| PO-637 | BREEDING SYSTEM EVOLUTION INFLUENCED THE GEOGRAPHIC EXPANSION AND DIVERSIFICATION OF THE CORVIDES<br>Petter Zahl Marki   |
| PO-638 | Breeding system transitions and the evolution of reproductive isolation in the large and diverse tropical genus <i>Dendrobium</i> (Orchidaceae)<br>Fabio Pinheiro                      |
| PO-649 | Diversification dynamics of Placentalia (Mammalia): integrating the fossil record with molecular phylogenies<br>Mauro Toshiro Caiuby Sugawara  |
| PO-651 | Use of wing geometry to diagnose cryptic species of the <i>Anopheles</i> ( <i>Nyssorhynchus</i> ) <i>strodei</i> complex<br>Flávia Virginio Fonseca                                    |
| PO-666 | Variability in the micro and macroevolutionary scales: a review of the patterns of morphological variability in the Cnidaria Medusozoa<br>Amanda Ferreira e Cunha                      |
| PO-674 | The turtle ants: understanding the diversification of a socially complex lineage and its associated microbes<br>Shauna Price   |
| PO-681 | First molecular phylogeny of the sea-star <i>Echinaster</i> (Asteroidea:Echinodermata) reveals a non-monophyletic genus and insights for evolutionary history<br>Elinia Medeiros Lopes |
| PO-683 | Molecular evolution of Odorant Receptors proteins gene family in two closely related <i>Anastrepha</i> fruit flies .<br>Diana Marcela Rojas Gallardo                                   |
| PO-684 | Scorched Mussels ( <i>Brachidontes</i> spp.) from the Southwestern Atlantic: the role of the Isthmus of Panama and the Amazon River in their Speciation<br>Berenice Trovant            |
| PO-685 | A BLASTP-free clustering method for classifying orthologs within a single gene family<br>Stephen Bond  |
| PO-686 | Tempo and mode of climatic niche evolution in Primates<br>Andressa Duran   |
| PO-687 | Molecular phylogeny of the <i>Utricularia</i> sect. <i>Foliosa</i> Kamiénski complex addressed using rps16, trnD-T, trnL-F and ITS sequences<br>Paulo Cesar Baleeiro                   |
| PO-688 | Diversification at large body sizes: Morphological novelty and ecological opportunity in Neotropical armoured catfishes (Loricariidae)<br>Fabio F Roxo                                 |

**Sunday June 28, 19:00 - 21:00 PM**

**Poster Session II**

- PO-689 Have changes in body size among lineages driven diversification in large Neotropical catfishes of the family Pimelodidae (Ostariophysi, Siluriformes)?  
Fabio F Roxo
- PO-693 Mass spectrometry molecular networking of plant secondary chemistry: Chemical ecology at the scale of a tropical forest tree community  
Brian Edward Sedio
- PO-694 AIM-UP! Advancing the Integration of Museums into Undergraduate Evolution Programs  
Kayce Bell
- PO-696 The role of sexual size dimorphism in ruminant (Artiodactyla, Mammalia) diversification  
Matheus Januario Lopes de Sousa
- PO-697 Investigating the roles of ecological opportunity and niche marginality in hummingbird species diversification  
Marisa Lim
- PO-699 Comparative analysis of the chloroplast genomes of neotropical Lecythidaceae and identification of DNA barcodes for tropical biodiversit  
Ashley Thomson
- PO-702 Headwater capture promoting higher rate of diversification and body shape evolution in ancestral lineages of the genus *Hypostomus*  
Gabriel de Souza da Costa e Silva
- PO-703 A history of species delimitation in the mesquite lizard and how uncertainty can be good  
Jonathan Charles Marshall
- PO-705 Evolutionary history of the *Abarema* Alliance (Leguminosae)  
JOAO IGANCI
- PO-709 Phylogenetic and Phylogeographic Structure within Brazilian *Placosoma* Lizards  
Kai A. Farje-Van Vlack
- PO-714 Morphology, ontogenesis and molecular phylogeny of two poorly known *Protocruzia* spp. (Protozoa: Ciliophora), with a brief revision of this genus  
Jiamei JIANG
- PO-715 Multilocus species delimitation and phylogeography of the freshwater sleepers, *Odontobutis sinensis* and *O. potamophila* in Yangtze River  
Zhizhi Liu
- PO-718 Phylogenetic framework for coevolutionary studies: a compass for exploring jungles of tangled trees  
Andres Martinez-Aquino
- PO-721 Alignment-free methods for the detection and specificity prediction of Adenylation domains  
Agostinho
- PO-731 Phylogenomic analysis reveals multiple episodes of diversification within the radiation of South American anostomoid fishes  
Bruno Francelino de Melo
- PO-732 An integrated phylogenetic timescale and historical biogeography of Testudines  
Anieli Guirro Pereira

**Sunday June 28, 19:00 - 21:00 PM**

**Poster Session II**

- PO-733 Geology, climate, and species traits interact to shape biogeographic histories of Neotropical lowland rainforest trees  
Jordan Bemmels
- PO-734 Molecular systematics of the Neotropical fish family Curimatidae (Teleostei: Characiformes)  
Bruno Francelino de Melo
- PO-736 Genomic consequences of sex-biased dispersal in a long-lived, cooperative bird  
Stephanie Aguillon
- PO-737 Target gene capture and its application in phylogenetics and population genomics  
Chenhong Li
- PO-739 Data partitioning reduces morphological clock uncertainty  
Ian Vasconcellos Caldas
- PO-743 New insights into the evolution and classification of Upogebiidae  
rafael robles
- PO-752 Molecular evidence for the sister relationship between the Amazonian genus Amapasaurus and the Leposoma parietale group (Squamata: Gymnophthalmidae)  
Katia Cristina Machado Pellegrino
- PO-758 Neogene revolution: Rapid diversification of Neotropical ghost knifefishes  
Maxwell Bernt
- PO-762 CAM physiology and transcriptomics in the C3-CAM intermediate Yucca gloriosa  
Karolina Heyduk
- PO-764 Comparing nuclear and mitochondrial data evidence recent gene flow in an Amazonian white sand vegetation specialist Xenopipo atronitens (Pipridae)  
João Marcos Guimarães Capurucho
- PO-766 The supertree toolkit: data curation and processing for large supertrees  
Jon Hill
- PO-776 Guidelines for sampling of genetic diversity based on whole-genome re-sequencing data from collared flycatchers (Ficedula albicollis)  
Ludovic Dutoit
- PO-780 Climatic refugia and marine incursions shape diversification in Central African reed frogs  
Rayna Bell
- PO-782 Dimensions of diversity mediated by habitat preference  
Judit Ungvari-Martin
- PO-787 Microsatellite loci in the tiger shark (Galeocerdo cuvier) and cross-species amplification using pyrosequencing technology  
Natália Jade Mendes
- PO-789 Crowdsourced morphometric data are as accurate as traditionally collected data in nine families of ray-finned fish  
Jonathan Chang
- PO-792 Single-locus species delimitation on New World Primates  
Beatriz Mello Carvalho
- PO-796 Species diversification in Anchoviella (Engraulidae) and geological patterns of the Volta Grande do Xingu, Rio Xingu drainage, Amazon basin  
Marina Vianna Loeb

**Sunday June 28, 19:00 - 21:00 PM**

**Poster Session II**

- PO-798 A morphological approach to the phylogenetic reconstruction of *Crenicichla* and *Teleocichla* (Teleostei: Cichlidae)  
Henrique Rosa Varella
- PO-801 Development of molecular markers for the identification of marine fish of commercial importance.  
ronald ribeiro alves
- PO-804 Spatiotemporal dynamics of speciation in Neotropical Costaceae  
Thiago Jose de Carvalho Andre
- PO-806 Thermophysiology in Brazilian montane lizards: Evolutionary processes at population-, species-, and phylogenetic scales  
Maria Strangas
- PO-807 Inference of human pedigree evolutionary rate from phylogenetic data of great apes  
Renata de Toledo Capellão
- PO-808 The complex evolutionary and biogeographical history of a forest specialist lizard in north South America.  
Sergio Marques de Souza
- PO-816 Establishing a bio-aware community at Penn State Erie, The Behrend College through DNA barcoding the arthropod diversity on campus  
Matthew E Gruwell
- PO-818 Secondary structure evolution in the cnidarian 16S gene: implications for phylogenetic analysis  
Marcos Soares Barbeitos
- PO-823 The importance of macroevolutionary processes to explain the origin of Furnariidae's Biodiversity (Aves, Passeriformes)  
Oscar Inostroza Michael
- PO-825 A new species of *Neacomys* identified on the basis of a multidisciplinary approach: Chromosome, Molecular Phylogeny and Morphological data  
Camilla B Di Nizo
- PO-828 Exploring gene tree incongruence at the root of the Aculeata tree (Insecta: Hymenoptera)  
Marcio Pie
- PO-830 Mixed model species delimitation in *Oligoryzomys* (Rodentia: Cricetidae) reservoirs of hantavirus  
Marcelo Weksler
- PO-832 Phylogenetic systematics of *Baccharis* (Asteraceae: Astereae), a mega-diverse plant genus in the Americas  
Gustavo Heiden
- PO-835 Systematics of a diverse and global clade of vetigastropods, the keyhole and slit limpets (Fissurellidae, Gastropoda, Mollusca)  
Tauana Junqueira Cunha
- PO-836 Effects of productivity, heterogeneity, dispersion and speciation on species richness of Furnariidae (Aves: Passeriformes)  
Paola Montoya
- PO-837 Seasonal effects of climate warming on forest-floor arthropod communities  
Jacquelyn Fitzgerald

**Sunday June 28, 19:00 - 21:00 PM**

**Poster Session II**

- PO-843 Do symbiotic rhizobacteria promote plant survival during extreme events?  
Rachel Rubin
- PO-848 Biogeography of *Hylaeamys megacephalus* (Rodentia: Sigmodontidae): integrating ecological niche modeling and phylogeography  
Arielli Fabrício Machado
- PO-850 Spatial patterns of genomic and morphological divergence with gene flow in a Central African rainforest bird  
Vanessa Elizabeth Apkenas
- PO-853 Diversification of the genus *Orestias* (Teleostei: Cyprinodontidae) in the Chilean Altiplano: a phylogenetic perspective  
PAMELA MARITZA MORALES HENRIQUEZ
- PO-856 Phylogenetic Patterns of Diversification and Morphological Disparity in a Group of Microteiid Lizards  
Renato Sousa Recoder
- PO-859 Association weight matrix: A systems biology approach for production traits in Nellore beef cattle  
Carlos Eduardo Buss
- PO-860 Patterns of taxonomic, functional, and phylogenetic bird diversity in the high Andes of Colombia: a biodiversity hotspot  
Elkin A. Tenorio
- PO-863 Detecting shifts in diversification rates across the Fish Tree of Life: a comparison of current methods  
Rafael A. Rivero
- PO-865 Views of evolution and intelligent design among university students in Utah  
Robert Okazaki
- PO-867 Mismatch among global conservation priorities across taxonomic, phylogenetic and functional dimensions of mammal diversity  
Fernanda Brum
- PO-868 Rapid diversification associated with ecological specialization in Neotropical *Adelpha* butterflies  
Emily R Ebel
- PO-872 Systematic phylogeny of the puffbird genus *Malacoptila* (Bucconidae: Aves) using UCE data  
Mateus Ferreira
- PO-881 Bayesian Phylogenetic Information Content  
Louise A. Lewis
- PO-891 A hierarchical conceptual framework for associating niche with diversification patterns  
Davi Mello Cunha Crescente Alves
- PO-908 Influences of age and inbreeding rates on golden-headed lion tamarins semen parameters  
Isabela Midori Watanabe
- PO-909 A comparison between different morphometrics approaches to assess morphological integration in cranium and mandible of didelphids marsupials.  
Rafael Carvalho

**Monday June 29, 8:30 - 10:00 AM**

**Time**      **J.Bonifácio/P.Leopoldina**  
**Symposium**    **SSE - When Gene Flow**  
**m**                    **Really Matters**

8:15 When gene flow REALLY  
matters; an overview  
Norman C. Ellstrand

8:30 Plant gene flow and  
environmental policy  
Caroline Elizabeth Ridley

9:00 Experimental research on  
the evolutionary dynamics of  
gene flow of transgenic  
insect resistance from rice to  
weedy rice in China

Baorong Lu

9:30 Evolutionary and social  
consequences of  
introgression of NON-  
transgenic herbicide  
resistance from rice to  
weedy rice in Brazil

Aldo Merotto

10:00                **Coffee Break**

10:30 The genomic signature of  
crop-wild introgression in  
maize: implications for the  
adaptive evolution of  
highland landraces

Matthew Hufford

11:00 Evolutionary dynamics of an  
herbicide transgene in  
natural populations of  
creeping bentgrass in  
Oregon and Idaho

Maria Lupiola

11:30 Extinction by hybridization

Loren Rieseberg

12:00                **Lunch**



**Monday June 29, 8:30 - 10:00 AM**

<b>Time Session</b>	<b>T.Cristina Epigenetics I</b>	<b>P. Isabel Phylogenetic Methods II</b>	<b>Nobre Biogeography III</b>
8:30	Epigenetic inheritance of stress induced DNA methylation in apomictic Dandelions.	Bridging inter- and intraspecific trait evolution with a hierarchical Bayesian approach	Drainage evolution drives diversification of Amazonian birds at the Negro river basin: molecular and geological evidence
	<b>Thomas van Gorp</b>	<b>Nicolas Salamin</b>	<b>Camila Ribas</b>
8:45	Methylation-mediated regulation of gene expression as a source of life history variation in <i>Arabidopsis thaliana</i>	Revision of the strict master and random template models of transposable element evolution by computer simulations	The role of Amazonian rivers in the avian diversification process: going beyond the vicariant paradigm
9:00	Joshua Banta The changing concept of condition-dependence: new insights on the evolutionary implications of environmental variation in phenotype	Fabricia F. Nascimento Pruning algorithms for complex phenotypic trait models on phylogenies	Luciano Nicolas Naka Into and out of the tropics: the generation of the latitudinal gradient among New World passerine birds
9:15	Russell Bonduriansky The epigenetics of obesity	David James Bryant Reconstructible Phylogenetic Networks: Do Not Distinguish the Indistinguishable	Jonathan Kennedy The Effect of Geological Events of the Diversification of Papuan Microhylid Frogs
9:30	Madeline Keleher The trans-generational link between dopamine regulation and exploratory behaviour in the Trinidadian guppy	Fabio Pardi Substitution models and genetic distances: posterior predictive assessments of model adequacy in DNA barcoding	Julio Rivera Empirically fitting an individual-based model of trait evolution, diversification, and dispersal
9:45	Alex De Serrano The self-fertilizing mangrove <i>rivulus</i> , <i>Kryptolebias marmoratus</i> : a new model vertebrate species in ecological epigenetics	Anthony John Barley Strategies for consistent summary species tree inference with sequence capture data	William Pearse
10:00	Alexandre Fellous <b>Coffee Break</b>	Carl Hirang Oliveros <b>Coffee Break</b>	<b>Coffee Break</b>

**Monday June 29, 8:30 - 10:00 AM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Tupi</b>	<b>Diamantina</b>
<b>Session</b>	<b>Genotype-Phenotype Map</b>		<b>Speciation I</b>
8:30	Nucleotides in phenotype space  <b>David Houle</b>		Do competitive interactions drive evolution of species recognition in a mouse secondary contact?  <b>Ganem Guila</b>
8:45	Modeling phenotypic coevolution on phylogenetic trees  Marc Manceau		Budding speciation and neoendemism in a clade of Mesoamerican salamanders  Sean Michael Rovito
9:00	Unraveling the genotype-phenotype map of evolving digital organisms  Miguel A. Fortuna		Genetic linkage facilitates speciation with gene flow in dune sunflowers.  Katherine Ostevik
9:15	Can the Fisher-Lande process account for birds of paradise and other sexual radiations?  Stevan James Arnold		The Genetic Basis of Interspecific Assortative Fertilization in <i>Drosophila</i>  Yasir Ahmed
9:30	What Darwin didn't know: natural variation is structured  Francisco Quevedo Camargo		Is <i>Hydroides brachyacanthus</i> (Serpulidae, Annelida) a widespread species?  Yanan Sun
9:45	Using Radtags to investigate intraspecific genotypic variation related to distinct phenotypes in two Neotropical parakeets  Roberta Canton		Pulsed evolution and the co-existence of bird species  Jay McEntee
10:00	<b>Coffee Break</b>		<b>Coffee Break</b>

**Monday June 29, 10:30 - 12:00 PM**

<b>Time</b>	<b>T.Cristina</b>	<b>P. Isabel</b>	<b>Nobre</b>
<b>Session</b>	<b>Epigenetics II</b>	<b>Phylogenetic and Statistical Methods</b>	<b>Biogeography IV</b>
10:30	Molecular mechanisms underlying the ecological divergence of a complex trait: Aging in Daphnia <b>Jeff Dudycha</b>	New tools for the classification of environmental DNA sequences in Geneious. <b>Kashef Qadri</b>	Phylogeny, biogeography and evolution of host associations in Uroleucon aphids <b>Douglas J. Futuyma</b>
10:45	An extended coadaptation model for the evolution of genomic imprinting <b>Eleanor O'Brien</b>	Automated processing of taxonomy, metadata, and source trees for supertree construction <b>Jon Hill</b>	The interplay of abiotic and biotic factors in driving diversification in the ants <b>Corrie Moreau</b>
11:00	Trans-generational effects of nutrition on egg composition <b>Carol L. Boggs</b>	Developing intuitive and open-source software for meta-analysis in ecology and evolutionary biology: an overview of the OpenMEE project <b>Marc J. Lajeunesse</b>	Ghosts of the great boreotropics: impact of Eocene climate change on a specialized forest beetle (Coleoptera: Staphylinidae). <b>Adam Brunke</b>
11:15	The evolution of nucleolar dominance and maternal control of 45S rDNA expression <b>Pawel Michalak</b>	The phylogenetic occupancy model: accounting for imperfect detection clarifies phylogenetic signal in species' responses to the environment <b>Luke Frishkoff</b>	Phylogenetic niche conservatism in Sicarius spiders associated to Neotropical arid environments: a matter of scale? <b>Ivan Luiz Fiorini de Magalhaes</b>
11:30		Phylogenetics, biogeography and patterns of diversification of polymorphic earless praying mantises (Insecta: Mantodea) <b>Richard Ree</b>	
11:45			Entomobrya (Collembola) genetic diversity in Great Britain: have they survived through the last Pleistocene glaciation? <b>Julio Rivera</b>
12:00	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b> <b>Christiana M A Faria</b>

**Monday June 29, 10:30 - 12:00 PM**

<b>Time</b>	<b>Ouro Preto Genome Evolution I</b>	<b>Tupi Phenotypic Plasticity II</b>	<b>Diamantina Speciation II</b>
10:30	Deciphering the Sequence of Gorilla Y Chromosome Using a Combination of Short and Long Read Technologies  <b>Kateryna Makova</b>	Interactions among multiple plastic traits: how caterpillars stay cool.  <b>Matthew Nielsen</b>	Species Boundaries in the Absence of Morphological, Ecological or Geographical Divergence in the Soft Coral Genus <i>Ovabunda</i>  <b>Catherine S. McFadden</b>
10:45	Origin and evolution of B chromosomes under the focus of massive sequencing analysis  Cesar Martins	Predicting traits: spatial turnover of poison frog alkaloids as a function of environmental gradients, arthropod prey assemblages and genetic distance  Ivan Prates	Testing for gene flow between a sister-species pair of sea snails: a case of reinforcement?  Mauricio Montano-Rendon
11:00	The role of genomic instability on the stability of a conspicuous color polymorphism in Midas cichlid fishes  Frederico Henning	Temporal variation drives complex eco-evolutionary dynamics  Colin Kremer	Uncovering species boundaries in the mountain horned lizards, <i>Acanthosaura</i> (Gray 1827): multilocus species delimitation using coalescent methods  Perry L Wood Jr
11:15	Large scale sequencing approach to studies of genome evolution in South American Cichlid fishes  Érica Ramos	The games that flies play: effects of temperature and density on the fitness and behavioral choices of flies  Jason Borchert	Speciation with gene flow when mate choice relies on phenotype matching of multiple traits  Ayana de Brito Martins
11:30	Fast chromosomal evolution in the cactophilic <i>Drosophila mojavensis</i> lineage: a molecular appraisal  Alfredo Ruiz	Evolutionary drivers of thermophysiology in populations of Brazilian montane lizards  Maria Strangas	Ecological divergence promotes reproductive isolation across the genus <i>Rhagoletis</i>  Scott Egan
11:45	Large-scale mammalian rearrangements coincide with chromatin conformation  Krister Swenson	Evolutionary drivers of dispersal in butterfly metapopulations  Piotr Nowicki	A phase transition in speciation modes can unify biodiversity patterns  Fernando Welker Sapojkin Rossine
12:00	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>

**Monday June 29, 13:30 - 15:00 PM**

**Time** J.Bonifácio/P.Leopoldina

**Symposium** **ASN Contributions from Naturalists to the Fight Against Dengue in Brazil and Beyond**

13:30 Arbovirus population genetics: what can studying the mutant spectrum teach us about evolution and emergence?

Lark Coffey

14:00 Waiting in the wings: circulation and spillover of sylvatic dengue virus

Kathryn Hanley

14:30 Applications of phylogenetics to understanding dengue outbreaks and invasion

Paolo Zanotto

15:00 **Coffee Break**

15:30 History and genetics of the dengue fever mosquito in Brazil

Jeffrey Powell

16:00 Wolbachia population biology: from natural spatial spread to possible dengue control

Michael Turelli

16:30 Overview of dengue epidemiology and control in Brazil

Giovanini Coelho

**Time**

17:00

SSB Mixer

**Time**

**Imperial  
SSB Presidential Address**

18:00

Lizards, Speciation, and Species Delimitation – A Personal Narrative  
Jack Sites

**Monday June 29, 13:30 - 15:00 PM**

<b>Time</b>	<b>T.Cristina</b>	<b>P. Isabel</b>	<b>Nobre</b>
<b>Session</b>	<b>Phylogeography III</b>	<b>Phylogenetics III</b>	<b>Genome Evolution II</b>
13:30	Comparative phylogeography reveals deep structure, mitochondrial discordance, and introgression in <i>Enyalius</i> lizards from the Brazilian Atlantic Forests	Radiation of the ant genus <i>Pheidole</i> in morphological, ecological, and geographic space in Madagascar	Comparative genomics of feathers and flightlessness in birds
	<b>Roberta Pacheco Damasceno</b>	<b>Georg Fischer</b>	<b>Scott Edwards</b>
13:45	Adding a piece to the puzzle of diversification: preliminary phylogeography of Neotropical grassland birds	The phylogeny and evolution of Riodinidae butterflies: biogeography, diversification and the evolution of ant-caterpillar interactions.	Stolen host metabolic genes; a comparison of 60 marine myovirus genomes
	Paul van Els	Noemy Seraphim	Crummett
14:00	Incipient speciation in an Andean songbird: clinal patterns of genomic and phenotypic variation across a broad elevational gradient	Multigene Phylogenetic Analysis using Model Adequacy Assessment Gives New Insights on Dung Beetles (Coleoptera: Scarabaeinae) Classification	Genome evolution in <i>Aiptasia</i> : High heterozygosity and scans for selection in a symbiotic sea anemone.
	Glenn Fairbanks Seeholzer	Sergei Tarasov	Emily Sarah Weiss
14:15	Origin of Neotropical continental island avifauna	Molecular phylogeny and divergence time estimation of Hilarini (Diptera, Empididae, Empidinae)	Insights into the evolutionary processes driving genome obesity in the Melanthiaceae
	Jessica Oswald	Mirian Watts	Jaume Pellicer Moscardo
14:30	Reconstructing the evolution of Neotropical rainforests: multilocus phylogeography and niche simulations of a forest bird	Independent origins of the feather lice (Insecta: Degeeriella) of raptors	Genomic Mechanism of return from dioecy to gynodioecy of Waterman Mountain <i>Bursera microphylla</i>
	Gustavo Sebastián Cabanne	Therese A. Catanach	Xing-Yue Ge
14:45	Isolated today, widespread yesterday: genomic evidence for introgression and demographic fluctuations in cold-adapted Atlantic Forest warbling finches	Taxonomic structure and the primary drivers of macroevolutionary dynamics	Genomic rearrangements in <i>Bignonia</i> plastomes ( <i>Bignoniaceae</i> , <i>Bignoniaceae</i> )
15:00	Fabio Raposo do Amaral <b>Coffee Break</b>	Luna Luisa Sánchez Reyes <b>Coffee Break</b>	Alexandre Rizzo Zuntini <b>Coffee Break</b>

**Monday June 29, 13:30 - 15:00 PM**

<b>Time Session</b>	<b>Tupi Behavior II</b>	<b>Diamantina Interspecific Interactions II</b>
13:30	Walking or hopping? Evolutionary trends in terrestrial locomotion of Neotropical birds	Co-evolution between ectoparasites and their small mammal hosts: a comparative phylogeographic perspective
	<b>Pauline Provini</b>	<b>Conrad Matthee</b>
13:45	Experimental evolution of traditions in wild bird populations	Network structure drive coevolutionary dynamics in species-rich antagonistic interactions
	Ben Sheldon	Cecilia Siliansky de Andreazzi
14:00	Cultural evolution in a Neotropical songbird: stability and change in the dialects of the Rufous-collared Sparrow, <i>Zonotrichia capensis</i> .	The evolution of reduced cooperation in the legume-rhizobium mutualism-- ecological consequences
	Natalia Cristina García	Jennifer Lau
14:15	Determinants of anti-predator tactics in hatchling grass snakes ( <i>Natrix natrix</i> )	Host sanctions: adaptation to cheaters, or a pre-adaptation selecting for cooperation “by default”?
	Kristin Löwenborg Di Marino	Rebecca Batstone
14:30	And the lizards keep playing: reproductive strategies and maintenance mechanisms of polymorphic traits in a Brazilian tropiduride species	Sea lamprey provide insights into the coevolution of stable signalling systems
	Andre Carreira Bruinje	Cory Brant
14:45	Under Pressure: behavioral and physiological response to predation risk in the Least Killifish	Predicting Parasite Specialization With Genome Size
15:00	<b>Coffee Break</b>	<b>Coffee Break</b>
	Eve Culbreth	Nicholas T Ogburn
	<b>Coffee Break</b>	<b>Coffee Break</b>

**Monday June 29, 15:30 - 17:00 PM**

Time	T.Cristina <b>Phylogeography IV</b>	P. Isabel <b>Phylogenetics IV</b>	Nobre <b>Genome Evolution III</b>
15:30	Gene flow should be explicitly modeled (rather than ignored) in species delimitation investigations that utilize genetic data. <b>Bryan Carstens</b>	The effects of mitochondrial gene sampling in the reconstruction of phylogenetic relationships within Passeriformes <b>Lais Coelho</b>	Genomics across the speciation continuum: comparisons across Australian rainbow skinks (Carlia) Sally Potter
15:45	Novel method for next-generation comparative phylogeography and population genomics	Diversification of tanagers, the largest radiation of Neotropical songbirds	Patterns of gene conversion in duplicated yeast histone genes suggests strong selection on a co-adapted macromolecular complex
	Alexander T. Xue	Kevin Burns	Kathy Scienski
16:00	A new model of diversity and endemism within species supports importance of Pleistocene stability for rainforest herpetofauna Daniel Rosauer	Phylogenetic diversification patterns in Neotropical frogs of genus <i>Proceratophrys</i> (Amphibia, Anura, Odontophrynidae) Renata Cecília Amaro	The Genome of Collembola with an Emphasis on Hox Genes Andrew Reyes
16:15	The spatial-SFS: a new summary statistic vector for inferring the spatial dynamics of demographic histories	Tube Nosed Fruit Bats ( <i>Nyctimeninea</i> ) exhibit contrasting patterns of diversification on islands East and West of New Guinea	A Network-based approach to identify and visualize clusters of similar loci in RAD-seq data.
	Diego F. Alvarado-Serrano	Nancy Irwin	<b>Praveen Nadukkalam Ravindran</b>
16:30	Synthesizing phylogenetic patterns of insular adaptive radiations across island systems with a novel statistical method	Adaptive radiation of Lake Baikal endemic amphipods: empty world or ecological neutrality?	A likelihood method for detecting cryptic copy number variation from low-coverage, Next-Generation Sequencing data
16:45	Andy Rominger	Lev Y Yampolsky	Tyler Linderoth



**Monday June 29, 15:30 - 17:00 PM**

<b>Time Session</b>	<b>Ouro Preto Conservation</b>	<b>Tupi Behavior III</b>	<b>Diamantina Invasive Species</b>
15:30	Regional population decline results in increased inbreeding and hatch failure in the Florida Scrub-Jay <b>Nancy Chen</b>	Evolution and morphology of crab spider (Thomisidae) colouration: colour change and masking behaviour. Felipe Malheiros Gawryszewski	The role of life history in invasions of mammals, reptiles and amphibians <b>William Allen</b>
15:45	Do current extinction risks echo macroevolutionary extinction rates? Predicting conservation impacts from trait-based diversification analyses Kevin Arbuckle	A candidate gene for behavioural isolation between <i>Drosophila simulans</i> and <i>D. melanogaster</i> RYAN MARSHALL CALHOUN	How does human introduction effort promote invasion success in mammal species? Sally Street
16:00	Early viability selection in captive conservation management: a case study of Tasmanian devil Catherine Grueber	Gene expression analyses of bivoltine behavior in the solitary bee <i>Tetrapedia diversipes</i> and its implication in eusociality Natália de Souza Araujo	Using Species Distribution Models to Predict Distribution, Fitness, and Abundance of a Clonal Invader Jonathan Finger
16:15	Conservation genomics of blue whales ( <i>Balaenoptera musculus</i> ) in Australia using ddRAD markers Catherine Attard	The behavioural genetic basis of an ant-plant mutualism Pierre-Jean G. Malé	Forensic Population Genetics of Invasive Plant Species Exchanged Across National Borders Rodney Mauricio
16:30	Overcoming evolutionary history: conditioning an endangered fish to escape an evolutionary trap Hope Klug	Contributions of population demography and female mating behavior to fitness of alternative mating tactics (calling vs. satellite) in crickets <b>John T. Rotenberry</b>	Tracking biological invasions and sorting out cryptic speciation in Brazilian earthworms Sam James
16:45	Conservation Genomics and Introgression in an Imperiled Freshwater Turtle Peter Scott		

**Monday June 29, 13:30 - 15:00 PM**

**Ouro Preto  
Lightning Talks II**

13:30 Predicting Parasite Specialization With Genome Size

Nicholas T Ogburn

13:35 Plant-insect communication and specificity of *Zamia* pollination

Shayla Salzman

13:40 A paleovirological approach to *Wolbachia* virulence evolution

Aimer Alonso Gutierrez Diaz

13:45 *Anopheles darlingi* microbehavioral analysis in Brazilian Amazon rural settlements

Melina Aulino Campos de Lima

13:50 Intricate evolution of syncephalium and pollen morphology in *Echinops* (Cardueae, Asteraceae)

Oriaen HIDALGO

13:55 PBAN mediated sex pheromone production in butterfly suggests a conserved molecular control for sex pheromone production across Lepidoptera

Alok ARUN

14:00 GPCRs evolution in primates

Pedro Vargas Pinilla

14:05 It's a trap! Biogeography and trait evolution in New Zealand's endemic trapdoor spiders.

Victoria Rose Smith

14:10 Performance dysfunction: too hot or oxygen deprived?

Jason Borchert

14:15 Sequencing the genome of *Relicanthus daphneae* (Cnidaria: Anthozoa: Hexacorallia: incerti ordinis)

Mercer R. Brugler

14:20 Combining phylogeography and estimates of future climates to inform conservation of *Bombus pauloensis* (Hymenoptera: Apidae)

Elaine Aparecida Franoso

**Monday June 29, 13:30 - 15:00 PM**

**Ouro Preto  
Lightning Talks II**

14:25 Inferring phylogeographic patterns in vertebrate communities from the Brazilian Atlantic Forest

Brandon Baird

14:30 Cryptic lineages and diversification of an endemic Anole lizard (Squamata, Dactyloidae) of the Cerrado hotspot

Fernanda de Pinho Werneck

14:35 Changes in multivariate covariance structures under directional selection

Diogo Melo

14:40 Genomics of adaptation

Agostinho Antunes

14:45 Evolutionary Analysis of the Jaguar Genome

Henrique Vieira Figueiró

14:50 Geographic variation in coloration and morphometrics in three species of birds along the Purus-Madeira Interfluvium, Western Amazon

Fernando Henrique Teófilo de Abreu

14:55 The liver transcriptome of armoured catfish (*Pterygoplichthys anisitsi*, Loricariidae): identification of expansions on defensome gene families.

Thiago Estevam Martins Parente

15:00 De novo assembly and characterization of leaf and floral transcriptomes of the hybridizing bromeliad species (*Pitcairnia* spp.) adapted to Neotropical

Clarisse Palma da Silva

14:55 Genomics of speciation: with gene-flow or because of it?

Shannon N. Bennett

15:00 Is there evidence of bias in molecular phylogenetic estimates of the squamate tree of life?

Genevieve G Mount

15:10 RWTY: An R package for visualizing convergence and agreement in phylogenetic MCMC chains

Dan Warren

**Monday June 29, 19:00 - 21:00 PM**

**Poster Session III**

PO-102 Different ornaments signal male health and MHC variation in two populations of a warbler

Linda A. Whittingham

PO-127 Virulence of *Phytophthora infestans* sensu lato isolates from Nariño and Putumayo regions (Colombia), in *Solanum betaceum*

Germán Eduardo Torres Morales

PO-132 Ancient male recombination shaped genetic diversity of neo-Y chromosome in *Drosophila albomicans*.

Kazuhiro Satomura

PO-142 Spatial and density-dependent multilevel selection in weed infested maize

César Marín

PO-263 Heteropatric speciation: How females weigh morphology and phenology when choosing mates

Abigail Kimmitt

PO-279 Greater body streamlining is correlated with higher body condition in the wild in two livebearing fishes

Marcio Silva Araujo

PO-287 The taming of the (elephant) shrew: reconstructing the molecular phylogeny of giant elephant-shrews (genus *Rhynchocyon*)

Elizabeth Carlen

PO-320 An inducible offense: carnivore morph tadpoles induced by tadpole carnivory

Nicholas Levis

PO-340 Neurocranial evolution in *Eigenmannia* (Gymnotiformes: Sternopygidae): Evolving constraints in the production of phenotypic disparity

Brandon T. Waltz

PO-363 Evolutionary Studies of teosintle mitochondria (*Zea mays* ssp. *parviglumis* and *Zea mays* ssp. *mexicana*): Population genetics, phylogeography and molecular

Alejandra Gutiérrez Estrada

PO-387 Cranial modularity in New World leaf-nosed bats and its evolutionary consequences

Daniela Munhoz Rossoni

PO-420 The Evolutionary Dynamics Between *Mycobacterium smegmatis* and its Bacteriophage in the Presence of a Biofilm

Lauren Esposito

PO-433 The molecular chaperone HSP90 $\alpha$  is differentially expressed in tadpoles of the Andean toad *Rhinella spinulosa* from geothermal springs.

Luis Pastenes

PO-518 Consequences of terrestriation on male weaponry evolution in a clade of a Neotropical anurans

Erika Marques de Santana

PO-524 Phenotypic plasticity and evolutionary rescue in a random environment

Jaime Ashander

PO-531 Evolution of the ABA signaling pathway in the Brassicaceae

John Grey Monroe

**Monday June 29, 19:00 - 21:00 PM**

**Poster Session III**

- PO-544 Testing the efficacy of DNA barcoding for species delimitation in *Heliconius* butterflies distributed throughout the Neotropics  
Jennifer Elizabeth Benetti-Longhini
- PO-546 Self-fertilization a driver of niche evolution? A comparative niche breadth analysis of selfing/outcrossing plant sister taxa pairs across angiosperms  
Alannie-Grace Grant
- PO-578 Morphological integration and evolution on Sigmodontinae rodent skulls Wagner, 1843 (Rodentia, Cricetidae).  
Bárbara Maria de Andrade Costa
- PO-606 Characterization of Major Histocompatibility Complex genes of Mexican blind cave fish *Astyanax mexicanus*  
Itzel Zamora-Vilchis
- PO-610 Cranial evolution in the neotropical bat family Mormoopidae: morphological integration and its evolutionary consequences.  
Ana Carolina Pavan
- PO-613 Altriciality- and Viviparity-driven conflict: Two pathways that lead to the evolution of parent-offspring conflicts  
Bart Pollux
- PO-618 The study of five sex determining proteins unveils high rates of evolution at basal components of the sex determination cascade in insects  
Jose M. Eirin-Lopez
- PO-620 Asymmetry, developmental instability and selection in *Carollia perspicillata* (Chiroptera: Phyllostomidae)  
Leandro Rabello Monteiro
- PO-644 MHC and mate choice in a monogamous peromyscine rodent  
Jesyka Melendez
- PO-650 Evolutionary relationships, dating of divergence, morphological and genetic characterization of two malaria vectors  
Camila Lorenz
- PO-663 Cryptic intraspecific divergence after Pleistocene glaciations: a case study in *Pungitius* species  
Cui Wang
- PO-665 Evolution of “win - win” phenotypes in a cooperative community  
Jose Mario Bello Pineda
- PO-669 Global analysis of mammals supports a decoupled evolution of functional and species diversity  
Brunno Oliveira
- PO-678 Polymorphism in male genitalia of *Ochlerotatuscapularis* (Rondani, 1848)  
VIVIAN PETERSEN
- PO-698 Evolution of the reprimo gene family in vertebrates  
Juan C. Opazo
- PO-701 Genetic constraints to adaptation in *Drosophila birchii*  
Eleanor O'Brien
- PO-706 Morphological evolution of the Lemur skull  
Anna Penna

**Monday June 29, 19:00 - 21:00 PM**

**Poster Session III**

- PO-707 The effect of directional selection on pleiotropy and modularity  
Diogo Melo
- PO-724 Chorionic Ultrastructure of Aplocheiloid Killifishes  
Andrew Thompson
- PO-728 FA and selective mortality of kelp perch (*Brachyistius frenatus*)  
Ashley M. Smith
- PO-745 Experimental evolution on the edge of *Drosophila melanogaster* wings  
Bruna Palma da Matta
- PO-747 The mitochondrial genomes from the Atlantic invasive coral species, *Tubastraea coccinea* and *T. tagusensis* (Cnidaria, Scleractinia, Dendrophylliidae)  
Kátia Cristina Cruz Capel
- PO-750 Evolution of sexual dimorphism in Tropidurinae lizards  
Renata Brandt
- PO-759 Evolutionary patterns of the Ectodysplasin A receptor and their ligands in Primates  
Gislene Lopes Gonçalves
- PO-767 High modified mouth in omnivore characids (Teleostei: Characiformes): adaptative convergence or synapomorphy?  
Ricardo Cardoso Benine
- PO-769 Evolution of avian eggshell structure: evidence for adaptation across elevational gradients?  
David Ocampo
- PO-771 Functional decoupling between flowers and leaves in the *Ameroglossum pernambucense* complex can facilitate local adaptation  
Artur Maia Wanderley
- PO-772 Morphological evolution of the autopodium in Gekkota: links between ecology and modularity  
Priscila de Souza Rothier Duarte
- PO-773 Matrotrophy and life history traits in ecologically different populations of the Poeciliidae fish *Phalloceros harpagos*  
Eugenia Zandonà
- PO-775 Topography, rather than habitat disturbance, explains genetic diversification of a Brazilian treefrog  
Renato Christensen Nali
- PO-777 DEVELOPMENTAL ROBUSTNESS IN SPECIES OF EARLY DIVERGING VS. DERIVED ANGIOSPERM FAMILIES ASSESSED BY LEAF MORPHOMETRY  
Giancarlo Conde Xavier Oliveira
- PO-778 Does stochasticity in gene expression underlie developmental plasticity?  
Megan Kobiela
- PO-779 Connectivity of the endemic coral *Mussismilia hispida* along its distributional range in the Southwestern Atlantic Ocean  
Lívia Peluso Azevedo
- PO-783 Sex dependence phylogenetic allometry and evolution of prothoracic legs in Papilionoidea (Lepidoptera)  
Gilson Rudinei Pires Moreira

**Monday June 29, 19:00 - 21:00 PM**

**Poster Session III**

- PO-790 Evolution of Crassulacean Acid Metabolism in neotropical orchid species  
Katia Silvera
- PO-795 Reproductive Diversity in the Skink Genus *Trachylepis*: An Example of Convergent Evolution of Extensive Placentation?  
Marcelo Pires
- PO-799 Chromatic convergence between *Rhodnius neglectus* and *Rhodnius nasutus* (Hemiptera, Reduviidae) from *Copernicia prunifera* palm trees in Northeast Brazil  
Márcio Galvão Pavan
- PO-810 Evolutionary restrictions in the skull of Caniforms (Carnivora)  
Fabio Machado
- PO-811 Historical Approach of Fire in areas of Campo Rupestre at Serra do Cipó, Minas Gerais – Brazil  
Alessandra Furtado Fernandes
- PO-815 Are behavioural types selected by environmental predictability?  
Marcia Cristina Neris de Oliveira
- PO-817 Biological Molecular Mechanisms of Nutrient Cycling  
Sandra Voors
- PO-819 Evolution of heat shock proteins of *Anastrepha fraterculus* and *Anastrepha obliqua*  
Felipe Rafael Torres
- PO-824 Insight into the Host-Range and Biodiversity of Mycobacteriophage through Codon Usage Bias Analysis  
Lauren Esposito
- PO-829 HTLV-1aA lineage circulating in Brazil and characterized by the lack of p8 protein  
Louise Zanella Martins
- PO-831 Correlated evolution of song repertoire size, mate choice, and learning modes in songbirds  
Nicole Creanza
- PO-838 Natural Selection: A New Analysis in Ancient Greece  
Igor Amaral Conte Lofredo Mourão
- PO-839 Stress effects on tadpoles' development triggered by UVB exposure at different thermal conditions  
Vanessa A. S. Cunha
- PO-841 Population Structure of the Octopus *Eledone Massyae* Using Mitochondrial Genetic Markers  
MARINA MILLS MATTIOLI
- PO-842 Stable invasions through time with high genetic diversity: The Charru Mussel in Florida.  
Sávio Henrique Calazans Campos
- PO-844 Variation of thermal physiology and performance among closely related species of the genus *Tropidurus* from the Brazilian Cerrado  
Carla Piantoni
- PO-845 MORPHOLOGICAL AND ECOLOGICAL DIVERGENCE IN SOUTH AMERICAN CANIDS  
Juan Pablo Zurano
- PO-846 Correlated evolution between body size and bioacoustic patterns within a neotropical genus of Anura  
Andre Carreira Bruinje

**Monday June 29, 19:00 - 21:00 PM**

**Poster Session III**

- PO-847 Lizards living in harsh environments present higher problem solving capabilities  
Andre Vieira Rodrigues
- PO-849 Comparative phylogeography in the Transmexican Volcanic Belt: the story told by unknown arthropod taxa  
Adriana Uscanga Castillo
- PO-855 Insecticide associated microevolutionary changes in wing geometry and CO1 gene sequence in natural populations of *Aedes aegypti*  
Aimer Alonso Gutierrez Diaz
- PO-861 Molecular Evolution of Trypsin-like of the S1A subfamily Serine Proteases (SPs) in *Anastrepha fraterculus* (Diptera:Tephritidae)  
Emanuele Cristina Gustani
- PO-864 Views of evolution and intelligent design among university students in Utah  
Robert Okazaki
- PO-866 More than just density: different paths to the evolution of larval competitive ability  
Manaswini Sarangi
- PO-884 Reduced competition facilitates coexistence of alternative resource-use phenotypes: an experimental test  
Lisa Bono
- PO-885 Resource competition and the evolution of sexual dimorphism  
Stephen De Lisle
- PO-886 The inheritance of the selfing syndrome in *Ipomoea lacunosa*  
Joanna Rifkin
- PO-890 Male-male competition causes sperm-mediated epigenetic effects on embryogenesis in zebrafish.  
Willian Talvane Arestides Ferreira da Silva
- PO-897 Signatures of multiple transisthmian divergences in a marine coastal isopod (*Excirolana braziliensis*) with an amphi-American distribution  
Luis A. Hurtado
- PO-901 Phylogeography for non-model organisms: Do you really need next-gen data?  
Isaac Overcast



**Tuesday June 30, 8:30 - 10:00 AM**

<b>Time</b>	<b>J.Bonifácio/P.Leopoldina</b>	<b>Nobre</b>
<b>Symposium</b>	<b>SSE - Epigenetics and Evolutionary Processes</b>	<b>SSB -Frontiers in Parametric Biogeography: Models of geographic range evolution</b>
8:15	Epigenetics and Evolutionary Processes: An Introduction Joshua Banta	
8:30	Understanding mechanisms of response to novel environments in invasive Japanese knotweed Marta Robertson	Parametric biogeography: how much can we learn about process? Richard Ree
9:00	Epigenome of tomato (Solanum lycopersicum) and its implications on the domestication process of this species Catarina Lira-Medeiros	Non-null effects of a null range in biogeographic models: Exploring parameter estimation in the DEC model Kathryn A. Massana
9:30	Epigenetic inheritance in asexual plants: causes and consequences of heritable DNA methylation variation within apomictic dandelion lineages Koen Verhoeven	Bayesian inference of divergence times using biogeographical processes Michael Landis
10:00	<b>Coffee Break</b>	<b>Coffee Break</b>
10:30	Comparative epigenomics of DNA methylation within flowering plants Robert J Schmitz	Spatio-temporal reconstructions and Bayesian diffusion approaches: from genetics to phylogenomics ISABEL SANMARTÍN BASTIDA
11:00	Genome-wide DNA methylation patterns in wild samples of two morphotypes of threespine stickleback (Gasterosteus aculeatus) Gilbert Smith	Historical biogeography models with dispersal probability as a function of distance(s) Nicholas Joseph Matzke
11:30	Paleo-epigenetics: the DNA methylation maps of archaic humans Liran Carmel	Panel Discussion Richard Ree, Kathryn A. Massana, Michael Landis, ISABEL SANMARTÍN BASTIDA, Nicholas Joseph Matzke
12:00	<b>Lunch</b>	<b>Lunch</b>

**Tuesday June 30, 8:30 - 10:00 AM**

<b>Time Session</b>	<b>T.Cristina Phylogenomics II</b>	<b>P. Isabel Speciation III</b>
8:30	Genomics and cryptic species in the Neotropics: Coalescent species delimitation of Cerrado endemic lizards using anchored phylogenomics.	The genomic consequences of divergence and hybridization in a migratory wood warbler
	<b>Fabricius Maia Chaves Bicalho Domingos</b>	<b>David Toews</b>
8:45	The diversification of Australian rainbow skinks, as revealed by exon-capture sequencing	Genomic signatures of ecological speciation in the coral-associated nudibranch genus Phestilla
	Jason Bragg	Allison L. Fritts-Penniman
9:00	Barking up alternative species trees: phylogenomic inference in a challenging radiation of Australian lizards	Analysis of the transcriptome of three sympatric species of grunts (genus: Haemulon), with perspectives on speciation of coral reef fishes
	Mozes Blom	Moises Bernal
9:15	Exploring the gene tree space using phylogenomic data on co-distributed montane frogs of the Brazilian Atlantic Forest	Genome structure explains parallel divergence across multiple speciation events in threespine sticklebacks
	Marcio Pie	Kieran Samuk
9:30	Anchored phylogenomics to resolve radiations in diverse fly lineages	Genomic comparisons link selfing to chromosomal inversions in Neurospora species
	Brian Michael Wiegmann	Christopher Hann-Soden
9:45	Phylogenomics from next-generation sequence data using aTRAM: An example with bird and mammal lice	
	Kevin P. Johnson	
<b>10:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Tuesday June 30, 8:30 - 10:00 AM**

<b>Time Session</b>	<b>Ouro Preto Molecular Evolution III</b>	<b>Diamantina Interspecific Interactions III</b>
8:30	More than one way to skin a cat: convergent evolution of herbivory following different trajectories in prickleback fishes (Stichaeidae) <b>Donovan German</b>	Wolbachia-associated effects: experiment, inference and modeling evolution of symbiont carriage <b>Caetano Souto-Maior</b>
8:45	Evolution of a mating pheromone in sea lamprey Tyler Buchinger	Symbiotic bacteria are key to the success of herbivorous ants Jacob Russell
9:00	Evolution of the MHC in response to aquatic pollution in a riverine cyprinid fish, the longnose dace Erika Crispo	Competition and loss in superinfections of aphid symbionts Eleanor Heyworth
9:15	Digestive Organ in the Female Reproductive Tract Adopts Critical Functions by Borrowing Genes from Multiple Organ Systems Nathan Morehouse	Choose your partner carefully: variation in aphid phenotypes when multiple bacterial symbionts coexist. Melanie Smee
9:30	Incoherent Feedforward Control of Bacteriophage Lambda Lysis Timing John Dennehy	Sexual transmission of beneficial microbes Chad Smith
<b>10:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Tuesday June 30, 10:30 - 12:00 PM**

<b>Time</b>	<b>T.Cristina</b>	<b>P. Isabel</b>
	<b>Phylogenomics III</b>	<b>Speciation IV</b>
10:30	A phylogenomic perspective on the Suboscine passerine radiation: the Thamnophilidae as a study case	Adaptive divergence between depth-segregated sea fans despite high gene flow
	<b>Gustavo Adolfo Bravo</b>	<b>Michael Hellberg</b>
10:45	Distinguishing noise from signal in patterns of genomic divergence in a highly polymorphic avian radiation	A phylogenomic assessment of introgression and species limits in the American/Northwestern Crow complex
	Dr. Leonardo Campagna	David L Slager
11:00	A Fully Resolved, Comprehensive Genomic Phylogeny of Birds (Aves) using Targeted Next Generation Sequencing	Speciation via adaptive divergence in mitonuclear respiratory genes
	Jacob Berv	Geoffrey Hill
11:15	Comparing the amount and quality of information from different phylogenomic sequencing strategies: a case study with amniotes	Niche partitioning within an adaptive radiation of Hawaiian Tetragnatha spiders
	Jeremy Brown	Susan Kennedy
11:30	The challenges of resolving a rapid radiation of Philippine shrews: Empirical and simulated phylogenomic approaches	Local adaptation to different sized hosts triggers reproductive isolation: experimental evolution of the feather louse <i>Columbicola columbae</i>
	Jacob Esselstyn	Scott Villa
11:45		Faster-X evolution at the early stages of speciation in <i>Heliconius</i> butterflies
		Margarita Baquero
<b>12:00</b>	<b>Lunch</b>	<b>Lunch</b>

**Tuesday June 30, 10:30 - 12:00 PM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Diamantina</b>
	<b>Adaptation III</b>	<b>Population Genetics II</b>
10:30	Demography and selection during eggplant domestication <b>mark chapman</b>	Back to the Wilds: Expanding germplasm resources and examining domestication bottlenecks in chickpea <b>Eric JB von Wettberg</b>
10:45	Transcriptomic evidence for floral changes during pollination shifts in Neotropical Gesneriaceae Martha Liliana Serrano Serrano	Gene flow along elevation in an Andean poison frog MONICA PAEZ
11:00	Selection during crop diversification involves correlated evolution of the circadian clock and ecophysiological traits in Brassica rapa YULIA YARKHUNOVA	Insights from the population genetics of cancer suppression Leonard Nunney
11:15	Domestication in the desert: Origin and evolution of date palms Michael Purugganan	Population genomics of a coral reef fish in the Indo-Pacific Eva M Salas
11:30	The Enigma of Evening Snow: exploring early patterns of divergence in an annual herb Noel Graham	Population genomics of the sexually transmitted parasite Trichomonas vaginalis Martina Bradic
11:45		Modeling linkage disequilibrium and mutation to estimate the timing of adaptation for a beneficial allele Joel Smith
<b>12:00</b>	<b>Lunch</b>	<b>Lunch</b>

**Tuesday June 30, 13:30 - 15:00 PM**

<b>Time</b>	<b>J.Bonifácio/P.Leopoldina</b>	<b>Nobre</b>
	<b>SSB -Breaking Barriers: Empirical, Theoretical, and Gender Issues in Phylogenetics</b>	<b>SSB -Frontiers in Parametric Biogeography: Multi-taxon approaches and Landscape Evolution Models</b>
<b>Symposium</b>		
13:30	A unified framework for inferring phylogenies with fossils	A new model to infer dispersal and extinction rates across time and space using fossil data
	Tanja Stadler	Daniele Silvestro
14:00	Diverse Evolutionary Mechanisms Underlie the Extraordinary Species-Richness of Flowering Plants	Coordinated Dispersal and Pre-Isthmian Assembly of the Central American Ichthyofauna
	Susana Magallon	Scott M. Duke-Sylvester
14:30	Identifying the sources of species-tree gene-tree discordance	Biogeographic signature of river capture in Amazonian lowlands
	Huateng Huang	James Albert
15:00		
15:30	Gene-tree/species-tree discordance in small and large datasets	Biogeographic signature of river capture in Amazonian lowlands
	Sara Ruane	Victor Alberto Tagliacollo
16:00	Untangling diversity patterns in Neotropical lianas (Bignoniaceae, Bignoniaceae): An integrative approach	Comparative biogeography: A framework for cross-taxonomic inference of bioregion evolution, range shifts and species diversification
	Lucia Lohmann	Alexandre Antonelli
16:30	Lessons from history in studies of microbial diversity (i.e., phylogeny) and in STEM policies and practices	Panel Discussion
	Jonathan Eisen	Daniele Silvestro, Scott M. Duke-Sylvester, James Albert, Victor Alberto Tagliacollo, Alexandre Antonelli
<b>Time</b>		
17:00	Exit Meetings	
<b>Time</b>		<b>Exhibition Center</b>
19:00		<b>Supersocial</b>
	Jack Sites	

<b>Time Session</b>	<b>T.Cristina Sexual Selection</b>	<b>P. Isabel Population Genetics III</b>
13:30	Sexual selection and the purging of deleterious mutations in simple and complex environments	Conflict between the genomes: evolution with opposing selection at haploid and diploid life stages
	<b>Howard Rundle</b>	<b>Sarah Otto</b>
13:45	Is Fisher's runaway selection likely to occur?	Host associated-differentiation and host switching by a parasitic plant are mediated by mutualist vectors
	Derek Roff	Kelsey Yule
14:00	Does the opportunity for sexual selection to aid adaptation increase in novel environments?	Does forest fragmentation reduce genetic diversity and local adaptation of plants? The case of <i>Aphelandra aurantica</i> , a tropical rainforest understory
	Ivain Martinossi-Allibert	María del Pilar Suárez Montes
14:15	Sexual selection drives short- and long-term evolution of the avian Z chromosome	The spatial scale of genetic differentiation in wetland plant populations: implications for adaptation to changing climate
	Alison Wright	Lorena Torres Martinez
14:30	Stabilizing sexual selection shapes both micro- and macroevolution in Phymata	
	David Punzalan	
14:45	Neurogenomic analysis of female preference for novelty: testing a sensory bias hypothesis	
	Kimberly Hughes	
<b>15:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>

**Tuesday June 30, 13:30 - 15:00 PM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Diamantina</b>
<b>Session</b>	<b>Host, Pathogens and Disease</b>	<b>Reproduction and Sex III</b>
13:30	Evolutionary origins of mosquito-borne human viral pathogens  <b>Shannon N. Bennett</b>	Cost of male-fertility restoration varies with maternal genotype in a gynodioecious plant  <b>Andrea L Case</b>
13:45	Turnover in avian malaria assemblages: assessing the relative effects of host evolution, habitat, and geographic distance  Linda Maria Elenor Svensson Coelho	Heritability of floral scent and pleiotropic responses to artificial selection in <i>Brassica rapa</i>  Pengjuan Zu
14:00	Genomics of resistance to avian malaria in a Hawaiian honeycreeper  Loren Cassin Sackett	Expression of antiherbivore defenses alters selection on floral traits in <i>Trifolium repens</i> L. (Fabaceae)  Ken Thompson
14:15	Jumping from host to host: modeling host-switching by ecological fitting  Mariana Pires Braga	Mechanisms of trait loss: ongoing elimination of short stamens in a selfing plant  Jeffrey Conner
14:30	The role of human transportation networks in mediating the genetic structure of seasonal influenza in the United States  Brooke Bozick	Molecular genetics of distyly in <i>Turnera subulata</i> (Passifloraceae)  Paul Douglas James Chafe
14:45	Biogeography, landscape and agronomic correlates of a fungal crop pathogen in the Caribbean: can we infer a way to sustainable disease management?  Laurent PENET	How to make a red flower: alternate biochemical pathways to convergent color evolution  Stacey Dewitt Smith
<b>15:00</b>	<b>Coffee Break</b>	<b>Coffee Break</b>



**Tuesday June 30, 15:30 - 17:00 PM**

<b>Time</b>	<b>T.Cristina</b>	<b>P. Isabel</b>
	<b>Biodiversity Along Gradients</b>	<b>Population Genetics IV</b>
15:30	LATITUDINAL DIFFERENCES IN THE ELEVATION RANGE SIZES OF MOUNTAIN STREAM INSECTS SUPPORT THE CLIMATE VARIABILITY AND MOUNTAIN PASSES HYPOTHESES	Genetic structure of lycaenid butterflies with contrasted levels of ant dependency
	Brian Gill	<b>Darina Koubínová</b>
15:45	Drivers of the latitudinal gradient in birdsong complexity	Landscape genetics of a marine angiosperm reveals long distance asexual dispersal and disturbance-clonal richness associations
	<b>Trevor Price</b>	Filipe Alberto
16:00	Phylogenetic beta diversity across geographic and elevational gradients in Himalayan birds	Coalescence with linked selection in systems with bi- and uniparental reproduction: contrasting partial asexuality and selfing
	Alexander E. White	Aneil Agrawal
16:15	Genetic endemism on tropical mountains: a comparative landscape genomics approach	Population structure of the amphibian-killing chytrid fungus in Brazil is composed of both stable endemic and recently expanded lineages
	Alicia Mastretta-Yanes	Thomas Jenkinson
16:30	Adaptive Trait Variation and Genetic Divergence of a Widespread Native Grass ( <i>Andropogon gerardii</i> ) Across a Strong Climate Gradient in the US Great Plain	Environmental drivers of adaptation and population structure in the sea scallop, <i>Placopecten magellanicus</i>
	Matthew Gallart	Mallory Van Wyngaarden
16:45	Local adaptation of the Hawaiian endemic tree ( <i>Metrosideros polymorpha</i> ) along a steep elevation gradient	
	Tomoko Sakishima	

**Tuesday June 30, 15:30 - 17:00 PM**

<b>Time</b>	<b>Ouro Preto</b>	<b>Diamantina</b>
	<b>Host-Parasite Interaction</b>	<b>Aquatic Biodiversity</b>
15:30	Hybridization and the spread of Wolbachia through space and time in the yakuba complex of the <i>Drosophila melanogaster</i> subgroup	Phylogenetic relationships and community structure in coral reef fishes
	<b>Brandon S. Cooper</b>	<b>Mark Westneat</b>
15:45	Evolution of host resistance and parasite infectiousness in threespine stickleback and a cestode	Biogeography in the marine tropics: historical factors that have shaped the evolution of fishes on coral reefs
	Dr. Daniel Bolnick	Peter Cowman
16:00	Evolution of tolerance in hosts of avian brood parasites? An integrative approach.	Landscape genomics of a threatened freshwater fish ( <i>Nannoperca australis</i> ) in the Murray-Darling Basin, Australia
	Iliana Medina	Chris Brauer
16:15	Coevolution of red crossbills ( <i>Loxia curvirostra</i> ) and their blood-borne parasites	Regional variation of chlorophyll within blades of <i>Macrocystis pyrifera</i> from San Diego to Santa Cruz, California
	Erica Lovett	Caitlin Alexandra Sutton
16:30	The evolution of a new form of social parasitism in the recently discovered mirror turtle ant	Delineating the status of the hydrocoral <i>Millepora</i> species in the Caribbean
	Scott Powell	Nikolaos V. Schizas
16:45	Population Genetics of Ecological Replicates: Feather Lice of Pigeons	Diversity and evolutionary origins of microalgae burrowing in coral skeletons revealed through environmental sequencing
	Emily DiBlasi	Vanessa Rossetto Marcelino