

# Saturday, 14 July, Poster Session II

Empire Hall South, Joseph A. Floreano Rochester Riverside Convention Center

POSTER #	Abstract #	Presenter	Title
1	498	ASH:ISCS-Charles Hanifin*, Shana Geffene	Toxicity, Resistance, and Protein Evolution: What Can We Learn from Newts and Snakes?
2	329	SSAR:EGS & ASH:ISCS-Haley Moniz*, Vicki Thill, Robert del Carlo, Jessica Reimche, Michael Hague, Edmund Brodie Jr., Normand LeBlanc, Chris Feldman	Costs of Adaptation: Tradeoffs in Organismal Performance of Tetrodotoxin-Resistant Garter Snakes (Thamnophis)
3	340	SH & ASH:ISCS-Joshua M. Hallas*, Chris R. Feldman, Edmund D. Brodie III, Michael E. Pfrender, Edmund D. Brodie Jr., Thomas L. Parchman	Adaptive variation in the Sierra garter snake (Thamnophis couchii): The influence of biogeography and genetic structure on patterns of TTX-resistance
4	546	SSAR:ENHDB & ASH:ISCS-Erica Ely*, Chris Feldman	Feeding Behavior of Thamnophis (Colubridae) in the Sierra Nevada and Lower Cascade Mountain Ranges of California
5	385	SSAR:EGS & ASH:ISCS-Vicki Thill*, Mike Teglas, Chris Feldman	You Lose, Spidey! Untangling Venom Resistance in Reptiles
6	462	ASH:ISCS-Kristin Bakkegard*	Chiggers, a lesser known threat to amphibian health
7	278	ASH:ISCS-Gareth Hopkins, Jasmine Maftei-Muirson, Seamus Doherty, Gina Mincham, Craig Williams*	Amphibian adaptability to global environmental change: salinity tolerance in the common Australian froglet Crinia signifera
8	420	Daniel Sequeira, Andrea Giraldo, Laine Giovanetto*	Roadkill Survey of Amphibians and Reptiles of Great Swamp National Wildlife Refuge, Pigeon Swamp State Park, and Hoboken, New Jersey.
9	557	Scott Trageser*, Paul Hamilton, Ross Maynard, Juan Guayasamin	Herpetofaunal Survey Results in Manduriacu Reserve, Ecuador
10	131	André Smith*, JP Lawrence	Spitting Poison Frogs: Diet Correlation to its Toxicity
11	428	Michael Benard*, Hilary Rollins	Variation in Larval-Stage Temperature has Carry-Over Effects on the Growth of Post-Metamorphic Wood Frogs (Rana sylvatica)
12	102	Margaret Smith*, Jayme Waldron, Shane Welch, Jeff Holmes	Determining Presence of Carolina Gopher Frogs and Frosted Flatwoods Salamanders Using eDNA and Conventional Surveys
13	487	Sean Graham, Richard Kline, David Steen*, Crystal Kelehear	Description of an extant Salamander from the Gulf Coastal Plain of North America: the Reticulated Siren, Siren reticulata.
14	405	Alyssa Swinehart*, Krista Larson, Katherine Greenwald	Population Genetics of Mudpuppy Salamanders (Necturus maculosus) in Minnesota Rivers and Lakes
15	142	Kelsey Mitchell*, Katherine Greenwald	Climate Change Effects on Body Size and Population Composition of Unisexual Ambystoma Salamanders
16	84	Matthew Venesky*, Joseph DeMarchi, Rachel Marbach, Keva Pariyar, Cari-Ann Hickerson, Carl Anthony	Female salamanders experience higher parasitism compared to males: a cost of female reproduction?
17	325	Olivia Clark*, Juan Daza, Ian Brennan, Mark Hutchinson, Aaron Bauer	Distinct Patterns of Skull Morphology among Australian Legless Lizards (Aprasia: Pygopodidae)
18	192	Tyara Vazquez*, Ian Clifton, Jeanine Refsnider-Streby, Madison Zimmerly	Acute and Prolonged Heat-stress Effects on Performance and Heat-shock Protein Expression in Greater Short-horned Lizards (Phrynosoma hernandesi)
19	406	Shannon Keating*, Aaron Griffing, Stuart Nielsen, Daniel Scantlebury, Tony Gamble	Identification of ZZ/ZW Sex Chromosomes in two Aristelliger Geckos.
20	305	Isabella M. Bukovich*, M. Rockwell Parker	Assessing the fear of snakes in people
21	289	Michael Grundler*	Patterns of ecological specialization in colubrid snake diets
22	156	Mary White*, Mark Merchant	Expression of Immune System Genes in Alligators
23	614	Sarah M Wenner*, Jeanne M Robertson, Katy Delaney	Conservation Genetics of an Emblematic Reptile in Urban Southern California
24	116	Sinlan Poo*, Kristin Hinkson, Maud Ferrari	Life-skills training: Antipredator behavior in captive-bred tadpoles
25	120	Joe DeMarchi, Andrew Britton, Kaylee O'Donnell, Ralph Saporito*	Behavioral Avoidance to UV-B Radiation in Two Neotropical Frogs from Costa Rica
26	48	Joshua Schwartz*	The Influence of Aggressive Calls on Mate Choice by Female Gray Treefrogs
27	560	Emilia A.R. Gildemeister*, Aaron M. Sullivan	Do Allegheny Mountain Dusky Salamanders (Desmognathus ochrophaeus) Learn to Associate Non-Predatory Smooth Greensnakes (Opheodrys vernalis) with Threat?
28	190	Austin Owens*, Renae Steinberger, Catherine Triplett, Howard Whiteman, Cy Mott	Trophic effects of intraspecific body size variation among exploitative and interference competitors
29	373	Zachary Ross*, Michael Jungen, John Holloway, Shane Welch, Jayme Waldron	Maximizing the efficacy of eastern diamondback translocation to minimize human-snake interactions.

\*denotes presenter

ASH: ISCS = ASIH Symposium: If Salamanders Could Speak

SSAR: EGS = SSAR Victor Hutchison Student Poster Award: Evolution, Genetics, & Systematics

SH = ASIH Storer Herpetology

SSAR: ENHDB = SSAR Victor Hutchison Student Poster Award: Ecology, Natural History, Distribution, & Behavior

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POSTER #	Abstract #	Presenter	Title
30	640	Danielle Williamson*, Macy Elwell*, Victoria Brady, Jonathan Malinski, Matthew Bealor	What's on the Menu: Assessing the Dietary Preferences of Introduced Italian Wall Lizards via Chemosensory Assay
31	588	Dana Drake*, Sean Giery, Mark Urban	Metabolic Rates of Larval Spotted Salamanders: Interpopulation Variation and the Influence of Predator Presence
32	260	Luis Burgos*, Karina Cervantes*, Emily Taylor	Don't Hate, Thermoregulate: The thermal environment of <i>Sceloporus occidentalis</i>
33	435	Heather Neldner*, Emily Taylor	The effects of corticosterone on gestating Western rattlesnake ( <i>Crotalus regalis</i> ) behavior and embryogenesis
34	347	Elizabeth Rock*, Jeffrey Bartman, Jamie Cornelius, Katherine Greenwald	Effect of urbanization on stress response in Eastern Garter Snakes ( <i>Thamnophis sirtalis</i> )
35	633	Rory Fuller*, L. Michael Romero	Differences in the stress response of the painted turtle, <i>Chrysemys picta</i> , across sites of varying anthropogenic disturbance
36	274	Miranda Figueras*, Kent Hatch, Beverly Roeder, Russell Burke	Metabolic rates, Q10 coefficients, and reaction norms of hatchling turtles: Comparisons with behavior
37	123	Natasha Stepanova*, Molly Womack	Morphological Convergence in Anuran Limbs
38	261	Cory Blackwelder*, Christopher Murray	Morphological Plasticity in Larval Hyliid Tree Frogs as a Function of Abiotic Factors
39	43	Jordan Hartley*, Dustin Siegel	Comparison of pelvic and genital kidney glomeruli in <i>Eurycea longicauda</i>
40	71	Emily Bierbaum*, Raul Diaz, Christopher Beachy	Comparative Morphology of Hand and Foot Skeletal Elements in <i>Amphiuma</i> Salamanders
41	527	Donella Strom*, Nathan Bendik, Jesse Meik	Phenotypic variation and allometry in the endangered Barton Springs salamander ( <i>Plethodonidae: Eurycea sosorum</i> )
42	231	Lauren Yetter*, Carlos Rivera, Juan D. Daza, Aaron M. Bauer	Are large eyes of geckos paedomorphic?
43	225	Juan D. Daza*, Aaron M. Bauer, Edward L. Stanley, Arnau Bolet, Blake Dickson, Jonathan B. Losos	An enigmatic miniaturized and attenuate complete lizard from the Mid-Cretaceous amber of Myanmar
44	229	Taylor Eubank*, Juan Diego Daza, Aaron M. Bauer	Alternative gaits in gekkotans explains femoral morphology
45	382	Christopher Sheil*, Arwen Mohr, Daniel Portik, Aaron Bauer, Sean Harrington, Gregory Watkins-Colwell	Heterochrony of Cranial Bones in Lepidosaurs
46	255	Elizabeth Kull*, James Titus-McQuillan, Edward L. Stanley, Matthew P. Heinicke, Aaron M. Bauer, Juan D Daza	Variation in the cranial osteology of the genus <i>Prosymna</i> (Lamprophiidae: Serpentes)
47	138	Christopher Zobek*, Casey Dillman, Harry Greene	Comparative Adaptations for Skink Predation in the Genus <i>Lampropeltis</i>
48	227	Rebecca Clemons*, Anat Belasen, Timothy Y. James	Host Ecology and Habitat Fragmentation Impact Bd Prevalence in the Brazilian Atlantic Forest
49	450	Cory Adams*, Daniel Saenz	Calling Ecology of the Introduced Rio Grande Chirping Frog ( <i>Eleutherodactylus cystignathoides</i> )
50	449	Daniel Saenz*, Toby Hibbitts, Cory Adams	Abiotic Correlates of Calling activity of the Southern Crawfish Frog
51	69	Christopher Schalk*, Nicholas Schiwitz, Daniel Saenz	Activity Level in a Tadpole Guild: Implications for Species' Distributions Along the Hydroperiod Gradient
52	636	Saki Kimura, Yoshihiro Natsuhara	Influence of different farming methods on the trophic ecology of various tadpoles in paddy fields in Japan
53	496	Sophie Kocheff*, Adriana Jeckel, Taran Grant, Ralph Saporito	Differences in palatability of various Central and South American dendrobatid poison frogs
54	439	Muhammad Rais*, Wassem Ahmed, Muhammad Saied, Alyssa Ikram, Imjaz Amin, Khan Maqsood Anwar, Sidra Ikram	Occurrence and Detection Probability of Endemic Murree Hills Frog ( <i>Nehorana vicina</i> ) in Natural and Urban Areas of Murree, Pakistan
55	266	Juan Pacheco*, Christopher Beachy	Effects of differential probiotic administration on <i>Ambystoma mexicanum</i> 's on its response to a skin incision before and after metamorphosis
56	127	Bryan Brumbill*, Carl Ann Hickerson, Carl J. Anderson	Effects of Invasive Asian Earthworms on Water Balance Maintenance of Eastern Rebreathed Salamanders, <i>Plethodon cinereus</i>
57	235	Thomas Anderson*, Brittany Ousterhout, Dana Drake, Jacob Burkart, Freya Rowland, William Peterman, Jon Davenport	The impact of climate variability on body size variation of larval salamanders
58	56	Christina Baggett*, Michael Fraker, Robert Denver, Barney Luttbeg, Stuart Ludsin	Performance Tradeoffs of Stress Hormone-mediated Antipredator Phenotypes in Wood Frog Tadpoles
59	514	Kirsten Hecht*, Lori Williams, Stephen Nelson, Thomas Floyd, Shem Unger, Jeremiah Cronin	Common Mudpuppies ( <i>Necturus maculosus</i> ) Not Common in Southern Blue Ridge Streams.
60	451	Andrew M. Durso*, Isabelle Bolon, Rafael Ruiz de Castañeda	Snapp: A Medical Decision Support Tool for Snake Identification based on Artificial Intelligence and Remote Collaborative Expertise

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POSTER #	Abstract #	Presenter	Title
61	412	Paul Hampton*, Jesse Meik	Trophic Morphology and Prey Shape in Snakes
62	438	Ian Clifton*, Jeanine Refsnider	Phenotypic variation along an elevational gradient in a montane lizard community (San Juan County, UT)
63	442	Kevin Moore*, Chris Brooks, Chuck Knapp, Mark Welch	Rock Iguanas and Their Ticks: Predicting The Infestation Bias of Nonspecific Herptophile Ticks in the Bahamas.
64	598	John Rowe*, Chelsea Martin, William Mulligan, Tyler Goerge	Spatial and Thermal Ecology of Snapping Turtles ( <i>Chelydra serpentina</i> ) in a Mid-Michigan Lake and its Associated Wetlands
65	383	Corey Anderson*, Colleen McDonough, Namrata Bhandari, Gregory Lee, J. Mitchell Lockhardt	Spatial Distribution and Co-distribution of Burrows in a Syntopic Population of Nine-banded Armadillo ( <i>Dasyus novemcinctus</i> ) and Gopher Tortoise ( <i>Gopherus polyphemus</i> )
66	415	Zachary Marcou, Allison McElroy*, Josh Pierce, Craig Rudolph, Stephen Mullin	Detecting Turtles (Emydidae: Terrapene) Using Wildlife Cameras
67	655	Jason Brown*, Dan Hill, Alan Haywood, Ana Carnaval	PaleoClim.org: High Spatial Resolution Paleoclimate Surfaces for Global Land Areas
68	521	Coleman Sheehy*, Leroy Nuñez, Matthew Fedler, Max Nickerson, David Blackburn	Progress in the Herpetology Collections at the Florida Museum of Natural History
69	474	Suzana Bandeira*, Aaron Bauer, Luis Ceriaco, Mariana Marques, David Blackburn	The amphibians and reptiles from Malanje Province, Angola
70	346	Mariana Marques, Luis Ceriaco*, Suzana Bandeira, Ishan Agarwal, Nuno Ferrand de Almeida, Aaron Bauer	Serra da Neve: Herpetofauna Diversity of southwest Africa's least known Inselberg
71	181	Cy Mott*, Emily Croteau	Testing the abundant centre distribution hypothesis in North American anurans using a citizen science program
72	656	Wilson Guillory*, Jason Brown, Connor French, German Chavez, Rudolf von May, Jennifer Serrano-Rojas, Ignacio De la Riva, Jose Padial, Andrew Whitworth, Migeul Trefaut Rodrigues, Stefan Lötters, Steffen Reichle, Ivan Prates, Evan Twomey	Resolving species relationships in the Amazonian Poison frog genus <i>Ameerega</i> using ultraconserved elements
73	477	Whitney Wong*, Luis Ceriaco, David Blackburn, Aaron Bauer, Matthew Heinicke	Evolutionary Relationships among Sand Frogs (Tomopterna) in Southwestern Africa
74	551	Jessica M. Yamauchi*, Gilberto E. Flores, Robert E. Espinoza	How does ontogeny affect changes in the gut microbiome of the American Bullfrog?
75	408	Jessica Wells*, John Peterson	Soundscape Ecology of State-endangered Blanchard's Cricket Frog Communities in Wisconsin
76	212	Megan Civitello*, Robert Denton, Michael Zasloff, John Malone	Comparative Analysis of Frog Skin Transcriptomes suggests Novel Immune Functions in <i>Mantella betsileo</i>
77	32	Stuart V. Nielsen*, Jai L. Banks, Raul E. Diaz Jr., Paul A. Trainor, Tony Gamble	Dynamic Sex Chromosomes in Old World Chameleons (Squamata: Chamaeleonidae)
78	481	Carly Boye*, Luis Ceriaco, Edward Stanley, David Blackburn, Mariana Marques, Suzana Bandeira, Aaron Bauer, Matthew Heinicke	Phylogeny of Scincine Skinks (Squamata: Scincidae) of Southern Africa and Angola
79	310	Yasel Urgelles Alfonso*, Leroy Nunez, Ansel Fong, Javier Torres	Evolutionary history of the Antillean gecko <i>Tarentola americana</i> (Phyllodactylidae) based on mitochondrial and nuclear DNA sequences
80	539	Matthew Fedler*, Coleman Sheehy, Kenneth Krysko	High Levels of Genetic Divergence within the Genus <i>Rhineura</i> Confounded by Secretive Life History and Morphological Conservatism
81	458	Eric McCluskey*, H. Lisle Gibbs, Scott Martin, Jennifer Moore	Does habitat area influence genetic diversity? A case study with the Eastern Massasauga
82	495	Jessica Watson*, Michelle Lawing, Jesse Meik	Preservation Effects and Geometric Morphometrics of Head Shape in Western Rattlesnakes
83	117	Shi Lin*	Taxonomic Review of <i>Trachemys scripta troostii</i> : A Clarification of the <i>elegans-troostii</i> Problem
84	570	Jeremy J Lomax*, Stephanie Crofts	Tooth Arrangement's Effect on Durophagous Predation
85	469	Phillip Sternes*, Kenshu Shimada	Geometric morphometric analysis of caudal fin shapes in lamniform sharks (Chondrichthyes: Elasmobranchii) and its evolutionary implications
86	455	William Bemis*, Joshua Moyer	Notes on the Cranial Skeleton and Dentition of the Atlantic Angel Shark, <i>Squatina dumeril</i> , An Extreme Ambush Predator
87	424	Shannon L Kuznar*, Jack M Craig, James S Albert	Diversity of tooth morphology in the oral jaws of the Banded electric fishes <i>Gymnotus</i> (Gymnotidae: Gymnotiformes)
88	356	Patricia Hernandez*, Stephanie Keer, Catherine May, Sarah McMenamin, Karly Cohen	Anatomical assessment of the adult skeleton of thyroid-ablated zebrafish, <i>Danio rerio</i>
89	130	Michael Ghedotti*, Hannah DeKay, Josephine Gruber, W. Leo Smith, Matthew Davis	Morphology of the luminous roughy bioluminescent organ (Teleostei: Trachichthyidae)

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90	136	Allyson J. Evans*, Carlos David De Santana, Casey B. Dillman	Comparison of Sexually Dimorphic Snout and Tooth Morphology in <i>Sternarchogiton nattereri</i> and <i>Sternarchorhynchus roseni</i> (Gymnotiformes: Aptereronotidae)
91	145	Hannah Owens*, Edward Stanley	Anatomy of Sexual Parasitism in Triplewart Sea-Devils ( <i>Cryptosaras couesii</i> )
92	28	Corie Mellinger*, Dominique Didier, William Bemis, Catherine Boisvert, Peter Currie	Morphological Analysis of Electroreceptive Organs in the elephantfish, <i>Callorhynchus milii</i> (Chondrichthyes; Chimaeriformes)
93	569	Thomas DeWitt*	Old typologies must die: Phenotypic plasticity in the real world produces traditional specialists and generalists, plus unique nontraditional, integrated strategies
94	648	Kevin Conway*, Dustin Siegel	Enlarged and highly mobile male genital papilla in the miniature Southern Australian clingfishes of the genus <i>Parvicrepis</i> (Teleostei: Gobiocidae)
95	476	Hannah Cohen*, Emily Kane	Local Adaptation of Morphology and Diet Does Not Predict Feeding Behavior in Guppies ( <i>Poecilia reticulata</i> )
96	506	Lauren Kircher*, Ariana Green, Matthew Bristol, Jessica Noble, Joy Young, John Baldwin	The Potential Impact of High Discharge Events on Snook Movement Patterns in the St. Lucie Estuary
97	337	Emily P. McFarland*, Carole C. Baldwin, Luke Tornabene	Trophic Structure of Deep-reef Fishes off Bonaire and Curaçao, Southern Caribbean
98	19	Christopher Goatley*, Stephen Wroe	Micro-CT Scanning Techniques to Study the Ecology of Small Vertebrates
99	619	Leah Rubin*, Elizabeth Sibert	Evidence for a Shark Extinction 20 Ma Using Morphometric Analysis of Dermal Denticles
100	536	James Creed*, Kimberly Bernotas, Elizabeth Alter, Melanie Stiassny	Morphometric analysis of an unusual specimen of cichlid in the genus <i>Teleogramma</i> (Teleostei, Cichlidae)
101	391	Kathryn Hamilton*, Shannon O'Leary, Kyle Piller, Kevin Conway, David Portnoy	Phylogenetic relationships within the genus <i>Erimyzon</i> (Family: Catostomidae) based on mitochondrial and nuclear loci
102	224	Malorie Hayes*, Jonathan Armbruster	A New Genus of Minnow in West Africa (Cypriniformes, Cyprinidae, <i>Smilogastrini</i> )
103	124	Dara Yiu*, Luke Tornabene, Mark Erdmann	Elucidating species boundaries in the <i>Eviota atriventris</i> species complex
104	587	Kevin Tang*, Rebecca Farr, Siobhan Ingersoll	Phylogenetic Relationships of Ophidiiformes
105	379	Wilfredo Matamoros, Sara Dominguez-Cisneros, Ernesto Velázquez-Velázquez, Caleb McMahan*	A New Species of Killifish of the Genus <i>Profundulus</i> (Cyprinodontiformes: Profundulidae) from the Mexican state of Oaxaca
106	82	Emily Nail*, Brant Faircloth, William Ludt, Prosanta Chakrabarty	Is Peter Wainwright Right?
107	154	Manette Tanelus*, Guha Dharmarajan, Melissa Pilgrim	Parasites as Potential Indicators of Ecosystem Health: A Case Study with Largemouth Bass ( <i>Micropterus salmoides</i> )
108	80	Marvin M. F. Lutnesky*, Kenwyn R. Craddock, James B. Reynolds	Estimation of Electroshock Immobilization Threshold and Effective Conductivity of Two Small Fishes
109	544	Jeremy Higgs*, Jim Francis, Gary Gray, Patrick Graham, Randy Brown-Peterson	Age and growth of recreationally caught Swordfish, <i>Xiphias gladius</i> , in the northern Gulf of Mexico
110	535	Melanie Herrera, Antony Harold*, Carly Gramling, Madison Martin	Diversity and Abundance of Early Life History Stages of Fishes Associated with Algal Beds Dominated by <i>Gracilaria vermiculophylla</i>
111	157	Devika Narair, Michele Piepoli	Aggressive behavior of territorial Damselfish Adults towards conspecific and heterospecific juveniles
112	402	Dawn Dittman*, Marc Chalupnicki, Phyllis Randall	Fish Habitat Quality, Distribution, and Modeling in the Genesee River, Rochester, NY
113	524	Stuart C. Willis*, Hudson T. Pinheiro, Carlos E. L. Ferreira, Ronaldo Francini-Filho, Paulo M. Affonso, Luiz A. Rocha	Low genetic diversity promotes phenotypic diversification? Genomic investigations of the unusual Queen Angelfish ( <i>Holocanthus ciliaris</i> ) of St. Paul's Rocks
114	501	Aaron H Fronk*, Maxwell J Bernt, James S Albert	Ancestral Ranges and Geographic Range Evolution of Electric Ghost Knifefishes (Gymnotiformes: Aptereronotidae).

\*denotes presenter

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