

Friday, 13 July, Poster Session I

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

POSTER #	Abstract #	Presenter	Title
1	512	SSAR:PM-Arienne Messerman*, Manuel Leal	Latitudinal Desiccation Risk Among Juveniles of Five Ambystoma Salamander Species
2	112	SSAR:PM-Howard Rainey*, Todd Pierson, Jennifer Deitloff	Distinguishing Morphological Differences in the Head Shape of Male Eurycea wilderae (Blue-Ridge Two-Lined Salamander)
3	144	SSAR:PM-Eva Miller*, Jennifer Deitloff	Comparing Population and Sex Differences in Head Shape for Two Populations of Plethodon cinereus (Red-backed Salamanders) in Pennsylvania.
4	252	SSAR:PM-John Loomis*, Jennifer Deitloff	Comparison of Foot Morphology in Plethodon ventralis and Plethodon websteri using Geometric Morphometrics
5	332	SSAR:PM-Katie King*, Hayley Crowell, Heather Liwanag, Emily Taylor	The Metabolic Rates of Crotalus oregonus Determined via Respirometry
6	272	SSAR:PM-James Whelan*, Hayley Crowell, Malory Harmel, Emily Taylor	Preferred body temperature of inland and coastal Pacific Rattlesnakes (Crotalus oregonus).
7	623	SSAR:PM-Dustin Owen*, David Ensminger, Michael Sheriff, Tracy Langkilde	Effects of Maternal Stress on Offspring of Lizards from High- and Low-stress Sites
8	228	SSAR:PM-Rebecca Jasulevicz*, Aaron Bauer	A Bolder Shoulder: Pectoral Girdle Morphology in Geckos
9	293	SSAR:PM-Gabriella Zagorski*, James Trotter, Douglas Boreham, Jacqueline Litzgus	A Preliminary Examination of the Effects of Uranium Mining on Long-Lived Turtle Species
10	263	SSAR:CM-Chelsea Kross*, John D. Willson	The Effects of Prescribed Fire on the Development of Larval Crawfish Frogs (Lithobates areolatus)
11	425	SSAR:CM-Kenzie Pereira*, Damien Wilburn, Sarah Woodley	Skin Peptides of Three-toed Amphiuma (A. tridactylum) Inhibit Growth of Chytrid Fungal Pathogens Linked to Worldwide Amphibian Decline
12	339	Muhammad Rais*, Waseem Ahmed, Muhammad Saeed, Ayesha Akram, Imtiaz Ahmed Khan, Maqsood Anwar, Sidra Ikram	Occupancy and Detection Probability of Endemic Murree Hills Frog (Nanorana vicina) in Natural and Urban Areas of Murree, Pakistan
13	110	SSAR:CM-Damien Mullin*, Rachel White, Andrew Lentini, Jory Mullen, Ronald Brooks, Jacqueline Litzgus	Evaluating Assumptions of Headstarting for Turtle Conservation
14	83	SSAR:CM-Brian Kron*, Scott McRobert	The effects of Salinity on Growth and Calcium Retention in young Diamondback Terrapins
15	151	SSAR:CM-Steven Kell*, Ronald J. Brooks, Jacqueline Litzgus	Quantifying Road Effects on Painted and Snapping Turtle Population Demographics in Algonquin Park, Canada
16	416	SSAR:CM-Cory Kozmik*, Jacqueline D Litzgus	Using Spatial Ecology and Circuit Theory to Inform Age-class Appropriate Road Mortality Mitigation for Turtles
17	385	SSAR:EGS & ASH:ISCS-Vicki Thill*, Mike Teglas, Chris Feldman	You Lose, Spidey! Untangling Venom Resistance in Reptiles
18	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)
19	376	SSAR:EGS-Giovanni Fuentes*, Sean Harrington, David Blackburn, Daniel Paluh	Comparative Morphology of Rattlesnake Cranial Diversity: Influence of Phylogeny, Ecology, and Modularity
20	104	SSAR:EGS-Brendan Pardo*, Dan Castoe, Todd Castoe, Raquel Diaz, Stuart Gerson, Paul Trainor, Ty Gumble	De novo transcriptome assembly and annotation of an emerging model lizard species, the Veiled Chameleon (Chamaeleo calyptratus)
21	653	SSAR:EGS-Kiyomi Johnson, Marina Carbi*, Edward Myers	Speciation and Phylogeography of Anolis opalinus on Jamaica
22	320	SSAR:EGS-Meaghan Clark*, Maria Akopyan, Gideon Bradburd, Andres Vega, Jeanne Robertson	Orange to Purple: Evolutionary history of red-eyed treefrogs in a hotspot of color pattern diversity

*denotes presenter

SSAR: PM = SSAR Victor Hutchison Student Poster Award: Physiology & Morphology

SSAR: CM = SSAR Victor Hutchison Student Poster Award: Conservation & Management

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

ASH: ISCS = ASIH Symposium: If Salamanders Could Speak

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23	245	SSAR:ENHDB-Ethan Royal*, John Willson, Jessica Homyack	Effects of forest management on habitat structure and upland pine-associated herpetofaunal communities
24	170	SSAR:ENHDB-A.Z. Andis*	A New, Noninvasive Method of Batch-marking Amphibians Across Developmental Stages
25	285	SSAR:ENHDB-Sarah McGrath*, David McLeod, Morgan Steffen	Exploring the Microbiome: Diversity of the Microbial Community of Three Foam Nesting Frogs, Genus: Polypedates, Across a Developmental Gradient
26	594	SSAR:ENHDB-Umilaela Arifin*, Julian Glos, Djoko Iskandar, Alexander Haas	A glimpse of interaction dynamics among torrent-frogs' species in Sumatra, Indonesia
27	143	SSAR:ENHDB-Rhiannon McGlone*, Jennifer Deitloff, David Savage	Territorial Behavior in <i>Plethodon cinereus</i> (Red-Backed Salamander) in Seven Populations from Pennsylvania
28	254	SSAR:ENHDB-Alan Babineau*, David Beamer	Testing the Utility of eDNA Detection for Species in Highly Turbid Coastal Streams
29	17	SSAR:ENHDB-Andrew Powers*, Tim J. Karels	Habitat Fragmentation and Snakes in Southern California
30	517	SSAR:ENHDB-Sebastian Gonzales*, Hayley Crowell, Emily Taylor	A Comparative Study of Home Range and Movement Patterns Between Coastal and Inland Pacific Rattlesnakes
31	307	SSAR:ENHDB-Neil Balchan*, Kevin Fraser	Synchronous fall migratory movements in the red-sided garter snake (<i>Thamnophis sirtalis parietalis</i>)
32	546	SSAR:ENHDB & ASH:ISCS-Erica Ely*, Chris Feldman	Feeding Behavior of <i>Thamnophis</i> (Colubridae) in the Sierra Nevada and Lower Cascade Mountain Ranges of California
33	155	SSAR:ENHDB-Thomas Nhu*, Paul Maier, Gennese Garcia, Sebastian Gonzales, Mallory Harmel, Miguel Jimenez, Katie King, John Thomas Nolan, James Whelan, Hayley Layne Crowell, Emily Taylor	Inglorious Baskers: Comparative Behavior of Pacific Rattlesnakes in Coastal and Inland Populations
34	386	SSAR:ENHDB-Zachary Marcou*, Josh Pierce, Craig Rudolph, Stephen Mullin	Remote Photography Reveals the Diel Activity Cycle of a New World Elapid
35	114	SSAR:ENHDB-Spencer Asperilla*, Katie Brittain, Bridgette Ward, Gabriel Langford	A Survey of Parasites from Anolis Lizards on Andros Island, Bahamas: Do Ecomorphs Host Similar Parasite Assemblages?
36	106	SSAR:ENHDB-Meredith Swartwout*, John Willson	Effects of Leaf Litter Depth on <i>Anolis humilis</i> Egg Survival
37	50	SSAR:ENHDB-Kristen Martinet*, Leyna Stemle, Gabriel Langford	A Comparative Analysis of the Commensal Diversity of Two Gopher Tortoise (<i>Gopherus polyphemus</i>) Populations in Central Florida
38	593	SSAR:ENHDB-Amanda Hipps*, Jon Moore	Filling in the Data Gaps: The Vertebrate and Invertebrate Gopher Tortoise Burrow Commensals in Southeast Florida
39	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 (<i>Thamnophis couchii</i>): The influence of biogeography and genetic structure on patterns of TTX-resistance
40	160	SH-Gennese Garcia*, John Nolan, Hayley Crowell, Emily Taylor	It's a Snake-Eat-Snake World: Quantifying Pacific Rattlesnake (<i>Crotalus oreganus</i>) Responses to Kingsnake (<i>Lampropeltis californiae</i>) Stimuli
41	147	SH-Elizabeth Barron*, Brad Moon, David Penning	When Push Comes to Shove: The Effects of Tunnel Width on Predation Performance in Kingsnakes
42	203	SH-Sky Button*, Adia Sovie, Cathryn Greenberg, James Austin	Modelling Habitat Preferences, Detectability, and Movement of a Fossorial Upland Snake
43	542	SH-Gregor Hamilton, Alex Cameron*, Randy Jennings	Identification of whiptail lizards (<i>Aspidoscelis</i>) using multivariate analysis of a morphometric dataset.
44	146	SH-Emmeleia Nix*, Luis Burgos, Megan Corn, Averil E. Royal, Kiley A. Rucker, Sunny Vansdadia, Emily Taylor	Size Still Matters: Comparing Brain and Cloacal Heating Rates in the Western Fence Lizard (<i>Sceloporus occidentalis</i>)
45	176	SH-Jonathan Bynum*, Zachary Nikolakis, Brian Crother, Kyle Piller	Phylogeography of the Slender Glass Lizard (<i>Ophisaurus attenuatus</i>) complex.

*denotes presenter

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

SH = ASIH Storer Herpetology

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46	246	SH-Cody Godwin*, Chris Murray, J. Sean Doody, Simon Clulow, Dave Rhind	Observation on Australia's Largest Lizard, The Perentie (<i>Varanus giganteus</i>)
47	336	SH-Kathleen Ivey*, Emily Taylor	Turn Up The Heat: Thermal Ecology of the Endangered Blunt-nosed Leopard Lizard (<i>Gambelia sila</i>)
48	134	SH-Aryeh Miller*, Graham Reynolds	Elucidating Cryptic Diversity in Burmese <i>Lygosoma</i> Skinks via Integrative Taxonomy
49	214	SH-Alejandro Grajal-Puche*, Christopher Murray, Donald Walker, Tania Datta	The Structure and Function of Microbial Communities within Alligator Nesting Ecosystems: A Comparative Approach Across Ecological Scales
50	427	SH-Sara McClelland*, Sarah Woodley	Ecologically Relevant Levels of an Organophosphorous Pesticide Causes Changes in Stress Levels and Brain Structures in Amphibians
51	137	SH-Kyle Jaynes*, David Blackburn, Raffael Ernst, Matthew Fujita, Eii Greenbaum, Vaclav Gvozdk, Greg Jongsma, Adam Leaché, Patrick McLaughlin, Daniel Portik, Mark-Oliver Rödel, Bryan Stuart, Ange Ghislain Zassi-Boulou, Rayna Bell	Diversification of Giant Treefrogs (Arthroleptidae: <i>Leptopelis</i>) in West and Central Africa
52	327	SH-Michael Britton*, Maureen Donnelly	Plaster models provide insight into the conditions of microhabitats across a 4,000 meter elevational gradient in the Peruvian Andes
53	210	SH-Jacquelyn Guzy*, Kelly Halloran, Jessica Homyack, John D. Willson	Population biology of Ouachita Dusky Salamanders (<i>Desmognathus brimleyorum</i>) in a managed forest landscape.
54	441	SH-Bryce Baker*, Dustin Siegel, Jon Davenport	Geographic variation in morphological traits of larval and paedomorphic <i>Ambystoma talpoideum</i>
55	516	SH-Ariana Rupp*, Dustin Siegel, Stanley Trauth, David Sever	Junk in the Trunk: Caudal Courtship Glands in Plethodontid Salamanders
56	616	SH-Erin Toffelmier*, H. Bradley Shaffer	Conservation and Landscape Genomics of the Endangered Santa Barbara Distinct Population Segment of the California Tiger Salamander, <i>Ambystoma californiense</i>
57	518	SH-Courtney Weyand*, James C Godwin, Jon Armbruster	Using Environmental DNA to Detect Species Found within the Black Warrior River Basin after a Flash Drought Event
58	177	SI-Jerry Kattawar*, Kyle Piller	Comparative population genetics of the Relict Darter and Guardian Darter in western Kentucky.
59	183	SI-Aaron Krolow*, Kyle Piller	Environmental DNA (eDNA) Assessment of Fish Communities Occurring at or around Artificial Reefs along the Louisiana Coast
60	333	SI-Diego J. Elias*, Caleb D. McMahan, Prosanta Chakrabarty	Molecular and morphological assessment of <i>Trichromis salvini</i> in Northern Middle America.
61	232	SI-Jessica Glass*, Scott Santos, John Kauwe, Thomas Near	Long live the kingfish: phylogeography of an iconic sportfish, the Giant Trevally (<i>Caranx ignobilis</i>)
62	470	SI-Emily DeArmon*, Matthew Davis	Evolutionary Relationships of Dragonfishes (Stomiidae) with a Survey of the Anatomical Variation of Bioluminescent Barbels
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64	358	SI-Katherine Bemis*	Biology and taxonomy of the Golden Puffer, <i>Chonerhinos naritus</i> (Richardson, 1848) (Tetraodontiformes: Tetraodontidae) from Southeast Asia
65	532	SI-Vanessa Meza-Vargas*, Bárbara Calegari, Roberto Reis	A New Species of <i>Chaetostoma</i> (Siluriformes: Loricariidae) from Amazon Basin, Guiana Shield, Brazil
66	568	SI-Dario Faustino-Fuster*, Rafael Angrizani, Luiz Malabarba	Description of two new heptapterid species (Siluriformes: Heptapteridae) from the Uruguay River basin belonging to Heptapterus clade
67	250	SI-Elizabeth Miller*, John Wiens	The Role of Sexual Selection in Generating Freshwater and Marine Biodiversity
68	298	SI-Karly Cohen*, L. Patricia Hernandez	Functional morphology of the epibranchial organ of <i>Hypophthalmichthys molitrix</i> (silver carp)
69	168	SI-Callie Crawford*, Zachary Randall, Brooke Flammang	These Fins Were Made for Walking: Tetrapodal Morphology of Balitorid Fishes
70	202	SI-Noah Daun*, Justin Kowalski, Maxfield JonasKrueger, Jeanne Thibodeau, Justin Sipiorski	Morphometric variation in <i>Etheostoma exile</i> in lotic and lentic environments in Wisconsin
71	286	SI-Corinthia Black*, Jonathan Armbruster	Shape Analyses of the Peckoltia Clade Using 3D Geometric Morphometric Techniques (Loricariidae: Hypostominae)
72	281	SI-Thaddeaus Buser*, Brian Sidlauskas, Adam Summers	2D or not 2D? Testing the utility of 2D vs 3D landmarks in geometric morphometrics of the sculpin subfamily Oligocottinae

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73	471	SI-Zachary May*, Matthew Davis	Evolution of Body Shape in the Deep-Sea Hatchetfishes (Sternoptychidae)
74	472	SI-Alex Maile*, Matthew Davis	Changes in Body Shape Across Habitat Transitions in Lizardfishes (Aulopiformes)
75	490	SI-Tobit Liyandja*, Jonathan Armbruster	Geometric morphometric and molecular phylogeny provide new insights about convergent evolution, distribution and diversity within the African carp: <i>Labeo parvus</i> .
76	350	SI-Pedro Rizzato*, Eric Hilton, Flávio Bockmann	A review on the lateral-line system of polypterids (Actinopterygii: Cladistii: Polypteriformes)
77	440	SI-Jennifer Gardner*, Luke Tornabene	Iodine-based contrast-enhancing staining methods for visualization of soft tissues of snailfishes (Family: Liparidae) through CT-Scanning
78	484	SI-Calder Atta*, Darren Coker, Tane Sinclair-Taylor, Joseph Dibattista, Alexander Kattan, Alison Monroe, Michael Berumen	Conspicuous and cryptic reef fishes from a unique and economically important region in the Northern Red Sea
79	510	SI-Lyda Crawford*	Comparing Follicle Cell Processes Across Chondrichthyan Orders
80	572	SI-Allex Gourlay*, Kurvin Li, Daniela Brouwer, Robert Drew	Skin Mucous Proteome of the Clark's anemonefish (<i>Amphiprion clarkii</i>) while Interacting with Different Sea Anemone Species
81	620	NBSP-César Fuentes*	Long time, no see: A revision of historical records of sawfishes (Pristidae) in Guatemala
82	363	NBSP-João Pedro Trivisan*, Flávio Bockmann	The Identity of the Paintings of "Caramuru" of the Dutch Brazil (1624–1654)
83	52	Matthew White*, Brianna Baer, Kathleen Cook, Sam McGee	Genetic diversity in the Least Brook lamprey
84			
85	211	José Luís Novaes*, Danielle Peretti, Rodrigo Costa, David Hoeinghaus	Longitudinal Gradients in the Fish Assemblages of Small Reservoirs in Intermittent River Basins of the Brazilian Semiarid Region
86	586	Sarah Huber*, Katherine Maslenikov, Andrew Williston, Eric Hilton, Adam Summers, David Blackburn	oVert Deep Dive: Ontogenetic Series of Fishes
87	526	Worth Pugh*, Phillip Harris	Update on the Integration of the Geological Survey of Alabama and the University of Alabama Ichthyology Collections
88	488	Bernie Kuhajda*, Sarah Sweat, George Gavrielides, Anna George, Joe Powell, Mack Lunn, Ryan Brown	Freshwater Information Network (FIN): Merging Natural History and Living Museums to Reflect Fish Distributions in the Southeastern United States
89	290	David Blackburn*, Christopher Austin, William Bemis, David Cannatella, Kevin Conway, Alison Davis Rabosky, Casey Dillman, Benjamin Frable, Richard Glor, James Hanken, Philip Hastings, Dean Hendrickson, Eric Hilton, Sarah Huber, Michelle Koo, Travis LaDuc, Katherine Maslenikov, Amy McCune, Heather Prestridge, Daniel Rabosky, Zachary Randall, Alan Resetar, Luiz Rocha, Mark Sabaj, Carol Spencer, Adam Summers, Luke Tornabene, Gregory Watkins-Colwell, Luke Welton, Edward Stanley	The oVert Thematic Collections Network
90	222	Stéphanie Tessier*, Kamal Khidas	The Herpetology and Ichthyology Collections of the Canadian Museum of Nature: An Overview of Two Unique and Rich Repositories
91	479	Joe Gunn*, Leah Berkman, Lori Eggert	Validating the Taxonomic and Distributional Status of the Neosho Smallmouth Bass (<i>Micropterus dolomieu velox</i>)
92	238	John P. Sullivan*, Stacy Ciufu, Shobha Sharma, Conrad Schoch	Fish & Herp Species Representation and Underappreciated Features, Tools & Resources in GenBank
93	299	Peiwen Li, Rute Clemente-Carvalho*, Peter van Coeverden de Groot, Stephen Loughheed	Comparing Methods for SNP Calling and Implications for Estimation of Population Parameters: An Empirical Study from a Tetraploid Arctic Fish
94	417	Carole Baldwin, Luke Tornabene*, D. Ross Robertson	Below the Mesophotic
95	437	Erica Donlon, Marcelo Melo*	Palaeogeographical Evolution of the Central Atlantic coast of South America, from the Last Glacial Maximum (Pleistocene) to the Present
96	547	Andrea Quattrini, Dominique Cheb Terrab, Katriina Ilves*	Genetic and Morphometric Evidence for a New Species of Deep-Sea Anguilliform Eel (Congridae: Conger) from the Gulf of Mexico.

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NBSP = NIA Best Student Poster

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97	218	Karen Underkoffler, Luers Meagan, John Hyde, Matthew Craig*	A taxonomic review of <i>Lampris guttatus</i> (Brünnich 1788) (Lampridiformes; Lampridae) with descriptions of three new species.
98	256	Frank McCormick*, Jackson Leonard, Benerito Martinez	A risk assessment of aquatic resources based on fish assemblages in the upper Animas River, Colorado, USA.
99	63	Aleta Quinn*	Teaching philosophy of biology
100	334	Alexandra Gonzalez*, Jennifer Dever	Seeing Red: Analyzing IUCN Red List Data of Amphibians in Southeast Asia
101	362	Abigail Berkey*, David McLeod*, William Flint, Oliver Hyman, Gregory Steffenson, Carrie Mendoza, Rayna Bell, Daniel Mulcahy, Roy McDiarmid, Steve Gotte	Biodiversity Information Serving Our Nation (BISON): Adding New Tools to the Conservation Toolbox
102	354	Nicole Angeli*, Conor McGowan, Anna Tucker	Collaborative population modeling for the federal Species Status Assessments
103	98	George Brooks*, Jennifer Smith, Thomas Gorman, Carola Haas	Discerning the Environmental Drivers of Annual Migrations in an Endangered Amphibian
104	318	David Dimitrie*, Michael Benard, David Burke	Response of American Toads (<i>Anaxyrus americanus</i>) to Experimental Elevation of Soil pH in Acidic Hardwood Forests of Northeast Ohio
105	537	William Barichivich*, Jonathan Chandler, Pierson Hill, Kelly Jones, Marysa Milinichik, Katherine O'Donnell, Terry Peacock, Joseph Reinman, Brandon Rincon, Susan Walls, Kevin Enge, Anna Farmer, Thomas Gorman, Carola Haas, Jeremy Preston	Head-starting as a Conservation Tool for Flatwoods Salamanders: a Multi-stakeholder Perspective
106	430	Josh Pierce*, Craig Rudolph, Steve Reichling, Emlyn Smith	Returning the Louisiana Pinesnake (<i>Pituophis ruthveni</i>) to Restored Habitat
107	313	M. Rockwell Parker*, Bryan G. Falk, Amy A. Yackel Adams, Robert N. Reed	A modified Judas approach for enhancing detection of Burmese pythons in Florida
108	153	Kip Callahan*, Melissa Lech, Kyle Brown, J. Christopher Leaphart, Melissa Pilgrim, Tracey Tuberville	Mercury and Cs-137 Concentrations Among Tissues of <i>Nerodia floridana</i> Inhabiting Former Nuclear Cooling Reservoirs
109	152	Melissa Lech*, Tracey Tuberville, Melissa Pilgirm	Investigating Biomagnification of Hg and 137Cs in <i>Nerodia floridana</i> using Stable Isotopes
110	187	Adriana Eugene*, Alexandra Kanonik, Russell Burke	The Effects of Plastic and Metal Predator Excluders on Diamondback Terrapin (<i>Malaclemys terrapin</i>) Nest Temperatures, Hatching Success, and Hatchling Sex Ratios
111	317	Shannon A. Richard*, Sanjiv Jayamohan, Eric A. Tillman, Michael L. Avery, M. Rockwell Parker	Preliminary analysis of scent trailing behavior in Argentine tegus from Florida
112	646	Rudolf von May*, Edgar Lehr, Daniel Rabosky	Evolutionary Radiation of Earless Frogs in the Andes: Molecular Phylogenetics and Habitat Shifts in High-Elevation Terrestrial Breeding Frogs
113	585	Allison Julien*, Kristen Counsell, Andrew Kouba, Ruth Marcec	ART in Action: F2 Embryos from an F1 Female Tiger Salamander (<i>Ambystoma tigrinum</i>) Produced by Cryopreserved Sperm and Hormone Therapy

*denotes presenter

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