

**Wednesday, March 4, 2020**

<b>7:00am-8:00am</b>	<b>Registration + Coffee</b>
<b>8:00am-10:00am</b>	<b>Presentations</b> <b>Session Chair: Elda Sanchez</b>
8:00am-8:15am	Welcome and Opening Remarks
8:15am-8:45am	Identification Of Amino Acid Residues In Cobra Venom Factor Responsible For Convertase Stability By Forming Bonds With Human Factor B <i>Brian Hew, Ph.D.</i>
8:45am-9:00am	Identifying Toxin-Targets Through Experimental Evolution And Genome-Wide Association Studies <i>Micaiah Ward</i>
9:00am-9:15am	Bioactive Properties Of Crude Venom Isolated From <i>Hypanus sabinus</i> <i>Craig Doupnik</i>
9:15am-9:30am	Antimicrobial Activity Of Cationic Peptide VC15 Obtained From The Proteolysis Of Pin2 <i>Elba Villegas</i>
9:30am-9:45am	Cross-Reactivity Of Venoms And Antivenoms Determined In Vitro Using Size-Exclusion Chromatography <i>Charles Sanny</i>
<b>9:45am-10:20am</b>	<b>Coffee + Exhibitor Break</b>
<b>10:20am-12:00pm</b>	<b>Presentations</b> <b>Session Chair: Elda Sanchez</b>
10:20am-10:50am	Snake Venom Cysteine-Rich Secretory Proteins (Svcrisps) From North American Vipers: Mechanism Of Action On Blood And Lymphatic Endothelial Cells <i>Montamas Suntravat, Ph.D.</i>
10:50am-11:05am	<i>Crotalus simus</i> Venom As The Immunogen To Generate Neutralizing Antibodies Against Other Neurotoxic And Non-Neurotoxic Rattlesnake Venoms <i>Roberto Ponce Lopez</i>
11:05am-11:20am	Intraspecific Variation Of <i>Crotalus basiliscus</i> Venom And Neutralization By Birmex Antivenom <i>Andrea Colis-Torres</i>
11:20am-11:35am	Varespladib (LY315920) Effectively Reverses Experimental Neuro-Myotoxic Effects In A Pig Model Of Lethal Envenoming By Taipan ( <i>O. scutellatus</i> ) And Mojave Rattlesnake ( <i>C. scutulatus</i> ) <i>Matthew Lewin</i>
<b>11:40pm-1:00pm</b>	<b>Lunch</b>
<b>1:00pm-3:00pm</b>	<b>Presentations</b> <b>Session Chair: Michael Schaar</b>
1:00pm-1:30pm	Antivenom Use In Veterinary Medicine A Thirty-Five Year Personal Journey <i>Michael Peterson, DVM, Ms</i>

1:30pm-1:45pm Retrospective Evaluation Of *Micrurus fulvius* (Eastern Coral Snake) Envenomation And The Use Of Mechanical Ventilation In Dogs & Cats  
*Samantha Campos*

1:45pm-2:00pm Serum Cholesterol Concentration In Dogs Following *Daboia (Vipera) palaestinae* Envenomation As A Potential Marker Of The Severity Of The Envenomation.  
*Sigal Kleinbart*

2:00pm-2:15pm Natural Resistance To Snake Venom: Review Of Early Studies To Quantify The Level Of Natural Resistance Of The North American Opossum (*Didelphis virginiana*)  
*Robert Werner, DVM*

2:15pm-2:30pm Pufferfish Exposure And Tetrodotoxicity In Dogs In Perth, Western Australia  
*Claire Sharp*

2:30pm-3:00pm One Health Toxinology  
*Craig Woods, BS, DVM, MS, MBA*

**3:00pm-3:20pm Coffee + Exhibitor Break**

**3:20pm-4:35pm Presentations**  
**Session Chair: Fred Aleguas**

3:20pm-3:50pm Species-Specific And Geographical Variation In Venome Composition Of Indian Cobra: Impact On Polyantivenom Therapy  
*Ashis Mukherjee, M.Sc., Ph.D., D.Sc., FRSB, FWAST*

3:50pm-4:05pm Snakebites In The South Of Vietnam  
*UyenVy Doan*

4:05pm-4:20pm A survey of snake bites in livestock in Zaria Local Government Nigeria  
*Balarabe Jahun*

4:20pm-4:35pm Snakes Of The Republic Of Congo: Establishing A Herpetological Research Program In A Region Heavily Impacted By Snakebite  
*Kate Jackson*

**4:50pm-6:00pm Poster Session**

**6:00pm-7:00pm Opening Reception at Hotel Indigo**

## Thursday, March 5, 2020

**7:00am-8:00am Registration + Coffee**

**8:00am-10:00am Presentations**  
**Session Chairs: Carl-Wilhelm Vogel**

8:00am-8:15am Greetings

8:15am-8:45am Unveiling The Activities Of Pnpp-19, A Toxin-Derived Synthetic Peptide  
*Maria Elena de Lima, MSc, Ph.D.*

8:45am-9:10am A Synthetic Metalloproteinase Inhibitor Derivative From Natural Naphthoquinones  
*Paulo A Melo*

9:10am-9:35am	From Candidate Molecules To Clinical Trials: A Journey Through Toxinology <i>Rui Seabra Ferreira, DVM, MMed, PhD, Assoc. Prof.</i>
9:35am-9:55am	Pnpp-19, A Synthetic Peptide Designed From <i>Phoneutria nigriventer</i> Spider Toxin Is Effective For Glaucoma Treatment In Rats <i>Carolina Da Silva</i>
<b>10:00am-10:20am</b>	<b>Coffee + Exhibitor Break</b>
<b>10:20am-12:00pm</b>	<b>Presentations</b> <b>Session Chairs: Carl-Wilhelm Vogel</b>
10:20am-10:50am	Rattlesnake Venom Components in the Control of Chronic Diseases: Immunomodulatory and Analgesic Properties Potentiated by Nanostructured Silica Sba-15 <i>Gisele Picolo, MSc, Ph.D.</i>
10:50am-11:20am	Inhibition Of Cancer Cell Migration By Disintegrins From The Venom Of <i>Crotalus polystictus</i> snake <i>Irene Vergara</i>
11:20am-11:35am	Clinical Presentation And Management Of Cytotoxic And Hemotoxic Envenomations At An Austere Snakebite Clinic In Kindia, Guinea <i>Jordan Benjamin</i>
<b>11:40am-1:00pm</b>	<b>Lunch</b>
<b>1:00pm-3:00pm</b>	<b>Presentations</b> <b>Session Chair: Dan Keyler</b>
1:00pm-1:30pm	Bites From Non-Front-Fanged Snakes: Medical Significance, Troublesome Terminology And Taxing Taxonomy <i>Scott Weinstein, BA, MSc, PhD, MBBS, MD, Dip. ABFM, FAAFP</i>
1:30pm-1:45pm	Snake Envenomation Clinical Outcome Measures Vary Widely And Are Not Patient-Centered: A Systematic Review Of Clinical Studies <i>Joao Ricardo Nickenig Vissoci</i>
1:45pm-2:00pm	The Validity, Reliability And Minimal Clinically Important Difference Of The Sf-36 Physical Function Dimension And The Promis-10 Global Health Assessment In Snake Envenomation <i>Joao Ricardo Nickenig Vissoci</i>
2:00pm-2:15pm	What Activities Do Snakebite Envenomation Patients Choose To Assess Dysfunction? <i>Joao Ricardo Nickenig Vissoci</i>
2:15pm-2:30pm	Use Of Sonoclot® To Assess The In Vitro Effect Of <i>Agkistrodon contortrix laticinctus</i> On Coagulation In Canine And Equine Whole Blood <i>Lyndi Gilliam</i>
2:30pm-2:45pm	Comparison Of F(Ab') <sub>2</sub> And Fab Antivenoms In Rattlesnake Envenomation: First Year's Post-Marketing Experience With F(Ab') <sub>2</sub> In New Mexico <i>Danielle Mascarenas</i>
<b>2:45pm-3:20pm</b>	<b>Coffee + Exhibitor Break</b>
<b>3:20pm-4:50pm</b>	<b>Presentations</b>

**Session Chair: Howard McKinney**

- 3:20pm-3:50pm Change For The Better: Venom Ontogeny Corresponds To Dietary Shifts In Southwestern North American Rattlesnakes  
*William Hayes, Ph.D.*
- 3:50pm-4:05pm The Genetic Basis For Sensory Perception In Pitvipers  
*Michael Hogan*
- 4:05pm-4:20pm Venom Resistance Against Two Grassland Rattlesnakes In An Eastern Colorado Rodent Community  
*Neil Balchan*
- 4:20pm-4:35pm Evolutionary Drivers Of Venom Variation In The Prairie Rattlesnake (*Crotalus viridis viridis*)  
*Cara Smith*
- 4:35pm-4:50pm Bioactive Properties Of Crude Venom Isolated From *Hypanus Sabinus*  
*Craig Doupnik*

**Friday, March 6, 2020**

- 7:00am-8:00am** Registration + Coffee
- 8:00am-10:00am** Presentations  
Session Chair: Sean Bush
- 8:00am-8:15am Greetings
- 8:15am-8:45am Venom Absorption After Snakebite  
*Dayanira Paniagua, Ph.D.*
- 8:45am-9:00am Unpredicted Late-, New-Onset Thrombocytopenia And Hypofibrinogenemia In Fab Antivenom-Treated Rattlesnake Envenomation  
*Steven Seifert*
- 9:00am-9:15am Continuous Infusion As An Alternative Administration Strategy Of Ovine Fab Antivenom: Initial Experience In 41 Cases  
*Eric Lavonas*
- 9:15am-9:30am Stocking Antivenoms In Urgent Care Clinics And Free-Standing Emergency Departments  
*Tamas Peredy*
- 9:30am-9:45am Ketamine For Pain Control Of Snake Envenomation In Guinea: A Case Series  
*Nicklaus Brandehoff*
- 9:45am-10:00am Suspected *Crotalus adamanteus* Envenomation With Elevated Compartment Pressures Requiring Fasciotomy  
*Jeremy Lund*
- 10:00am-10:20am** Coffee + Exhibitor Break
- 10:20am-11:50am** Presentations  
Session Chair: Dan Keyler

10:20am-10:50am	Human Dimensions In Rattlesnake Conservation <i>Anthony Daly-Crews, B.S.</i>
10:50am-11:05am	Heat Seeking Missles In Captivity: Husbandry Of <i>Bothrops</i> <i>James Harrison</i>
11:05am-11:20am	Paraspecific Neutralization Of Snake Venoms: What Snake Keepers Should Know About Their Antivenoms <i>Elda Sanchez</i>
11:20am-11:35am	Come Hither, King: Attempting To Target Train King Cobras <i>Kristen Wiley</i>
11:35am-11:50am	When Theory And Reality Diverge: A Monocled Cobra Envenomation In The United States <i>Ben Abo</i>
<b>12:00pm-1:00pm</b>	<b>Lunch</b>
<b>1:00pm-2:45pm</b>	<b>Presentations</b> <b>Session Chair: Steven Seifert</b>
1:00pm-1:30pm	A Spider-Venom Peptide For Preventing Ischemic Injuries Of The Heart: Application To Heart Transplant And Myocardial Infarction <i>Glenn King, BSc, Ph.D., FAAM</i>
1:30pm-1:45pm	Antimicrobial Peptide Diversity In The Giant Desert Hairy Scorpion ( <i>Hadrurus arizonensis</i> ) <i>Gunnar Nystrom</i>
1:45pm-2:00pm	Vinegaroon Exposures Reported To A U.S. Poison Center <i>Susan Smolinske</i>
2:00pm-2:15pm	A Sting Operation: Risk Assessment And Venom Expenditure By Scorpions In Defensive Contexts <i>Lindsay Marston</i>
2:15pm-2:30pm	Substrate Specificity Of Recluse Spider Phospholipase D Toxins <i>Matthew Cordes</i>
2:30pm-2:45pm	Sphingomyelinase D-Crotamine Recombinant Fusion Protein As Immunogen For The Production Of Antibodies Against Crotamine <i>Roberto Ponce Lopez</i>
<b>2:45pm-3:20pm</b>	<b>Coffee + Exhibitor Break</b>
<b>3:20pm-5:10pm</b>	<b>Presentations</b> <b>Session Chair: Steven Seifert</b>
3:20pm-3:50pm	How The Brown Recluse Got Its Bite: What An Insecticidal Toxin With Nasty Mammalian Consequences Can Tell Us About The Evolution Of Venom Phenotypes <i>Greta Binford, Ph.D.</i>
3:50pm-4:05pm	Risk Assessment And The Effects Of Habitat Complexity On The Defensive Behaviors Of The Southern Striped Scorpion, <i>Vaejovis carolinianus</i> <i>David Nelsen</i>

- 4:05pm-4:20pm Snake, Spider, Scorpion, Insect, And Marine Exposures And Envenomations In Pregnancy In The National Poison Data System, 2009 – 2018  
*Maria Ramirez-Cruz*
- 4:20pm-4:35pm Recurrent Venom Effects Following North American Crotalidae Envenomations: A Systematic Review  
*Heather Delva-Clark*
- 4:35pm-4:50pm A Breath Of Fresh Air: Capnography, Innovation, ASF Approach To Treatment And Training For Neurotoxic Snakebites In Austere Environments  
*Ben Abo*
- 4:50pm-5:10pm Association Of A Cytokine Response Network With Functional Recovery From Snakebite Envenoming  
*Charles Gerardo*

**6:00pm-9:00pm Banquet Dinner at the Florida Museum of Natural History**

**Saturday, March 7, 2020**

**7:00am-8:00am Registration + Coffee**

**8:00am-10:00am Presentations  
Session Chair: Howard McKinney**

8:00am-8:15am Greetings

8:15am-8:45am The Evolutionary Origins And Functional Diversification Of Rattlesnake Venom Toxins  
*Noah Dowell, Ph.D.*

8:45am-9:00am The Role Of Chromatin Accessibility On Venom Regulation In *Crotalus adamanteus*  
*Timothy Colston*

9:00am-9:15am Characterization And Neutralization Of Local Damage Caused By The Complete Venom Of *Atropoides nummifer* And Its Main Myotoxin In A Murine Model  
*Belem Garcia*

9:15am-9:30am Human Fibroblast Response To *Crotalus atrox* Venom And Model Wound Healing  
*Anne Wertheimer*

9:30am-9:45am Forensic Toxinology and Snakebite Death  
*Dan Keyler*

9:45am-10:00am Toxin Diversity And Molecular Evolution Of Scolopendra Venom  
*Schylar Ellsworth*

**10:00am-10:20am Coffee + Exhibitor Break**

**10:20am-11:50am Presentations  
Session Chair: Fred Aleguas**

10:20am-10:50am Complex Interactions Of Biotic And Abiotic Factors Shape Venom Phenotypes In The Western Rattlesnakes  
*Stephen Mackessy, Ph.D.*

10:50am-11:05am Attenuation Of Surgically-Induced Brain Injury Through Whole And Fractionated Venom Protein Preconditioning  
*Zachary Travis, B.Sc.*

11:05am-11:20am Preclinical Screening Of Some Commercially Available Antivenom In Nigeria  
*Bashir Chedi*

**11:20am-12:00pm**

**Venom Week Closing**