## Wednesday, March 4, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00am-8:00am</td>
<td>Registration + Coffee</td>
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<tr>
<td>8:00am-10:00am</td>
<td>Presentations</td>
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<td>Session Chair: Sanchez</td>
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<tr>
<td>8:00am-8:15am</td>
<td>Welcome and Opening Remarks</td>
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<tr>
<td>8:15am-8:45am</td>
<td>Naja Envenomation: Molecular Mechanisms And Possible Strategies For Controlling</td>
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<td>Denise Tambourgi</td>
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<td>8:45am-9:00am</td>
<td>Identification Of Amino Acid Residues In Cobra Venom Factor Responsible For Convertase Stability By Forming Bonds With Human Factor B</td>
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<td>Brian Hew</td>
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<tr>
<td>9:00am-9:15am</td>
<td>Identifying Toxin-Targets Through Experimental Evolution And Genome-Wide Association Studies</td>
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<td>Micaiah Ward</td>
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<td>9:15am-9:30am</td>
<td>Bioactive Properties Of Crude Venom Isolated From <em>Hypanus sabinus</em></td>
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<td>Craig Doupnik</td>
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<td>9:30am-9:45am</td>
<td>Antimicrobial Activity Of Cationic Peptide VC15 Obtained From The Proteolysis Of Pin2</td>
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<td>Elizabeth Cuevas-Reyes</td>
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<td>9:45am-10:00am</td>
<td>Cross-Reactivity Of Venoms And Antivenoms Determined In Vitro Using Size-Exclusion Chromatography</td>
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<td>Charles Sanny</td>
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<td>10:00am-10:20am</td>
<td>Coffee + Exhibitor Break</td>
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<tr>
<td>10:20am-12:00pm</td>
<td>Presentations</td>
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<tr>
<td>10:20am-10:50am</td>
<td>Snake Venom Cysteine-Rich Secretory Proteins (Svcrisps) From North American Vipers:</td>
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<td>Mechanism Of Action On Blood And Lymphatic Endothelial Cells</td>
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<td>Montamas Suntravat</td>
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<td>10:50am-11:05am</td>
<td><em>Crotalus simus</em> Venom As The Immunogen To Generate Neutralizing Antibodies Against Other Neurotoxic And Non-Neurotoxic Rattlesnake Venoms</td>
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<td>Roberto Ponce Lopez</td>
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<td>11:05am-11:20am</td>
<td>Intraspecific Variation Of <em>Crotalus basiliscus</em> Venom And Neutralization By Birmex Antivenom</td>
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<td>Andrea Colis-Torres</td>
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<td>11:20am-11:35am</td>
<td>Varespladib (LY315920) Effectively Reverses Experimental Neuro-Myotoxic Effects In A Pig Model Of Lethal Envenoming By Taipan (<em>O. scutellatus</em>) And Mojave Rattlesnake (<em>C. scutulatus</em>)</td>
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<td>Matthew Lewin</td>
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<td>11:35am-11:50am</td>
<td>Comparison Of F(Ab′)2 And Fab Antivenoms In Rattlesnake Envenomation: First Year’s Post-Marketing Experience With F(Ab′)2 In New Mexico</td>
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<td>Danielle Mascarenas</td>
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12:00pm-1:00pm       Lunch
1:00pm-3:00pm      Presentations

1:00pm-1:30pm  Antivenom Use In Veterinary Medicine A Thirty-Five Year Personal Journey
               Michael Peterson, DVM, MS

1:30pm-1:45pm  Retrospective Evaluation Of Mururus 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

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

3:20pm-3:50pm  Species-Specific And Geographical Variation In Venome Compostion Of Indian Cobra: Impact
               On Polyantivenom Therapy
               Ashis Mukherjee

3:50pm-4:05pm  Challenges And Prospects Of Snake Antivenom Supply In Sub-Saharan Africa
               Habib Abdulrazaq

4:05pm-4:20pm  Snakebites In The South Of Vietnam
               UyenVy Doan

4:20pm-4:35pm  A survey of snake bites in livestock in Zaria Local Government Nigeria
               Balarabe Jahun

4:35pm-4:50pm  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- Carl-Wilhelm Vogel + Mariana Castro
8:00am-8:15am    Greetings
8:15am-8:45am  Unveiling The Activities Of Pnpp-19, A Toxin-Derived Synthetic Peptide
   Maria Elena de Lima

8:45am-9:00am  A Synthetic Metalloproteinase Inhibitor Derivative From Natural Naphthoquinones
   Paulo A Melo

9:00am-9:15am  Rattlesnake Venom Components In The Control Of Experimental Autoimmune
   Encephalomyelitis: Immunomodulatory Properties Potentiated By Silica Sba-15
   Gisele Picolo

9:15am-9:30am  From Candidate Molecules To Clinical Trials: A Journey Through Toxinology
   Rui Seabra Ferreira

9:30am-9:45am  Pnpp-19, A Synthetic Peptide Designed From Phoneutria nigriventer Spider Toxin Is Effective
   For Glaucoma Treatment In Rats
   Carolina Da Silva

9:45am-10:00am  Coffee + Exhibitor Break

10:00am-10:20am  Invited Speaker

10:20am-12:00pm  Presentations

10:20am-10:50am  Inhibition Of Cancer Cell Migration By Disintegrins From The Venom Of Crotalus polystictus
   snake
   Irene Vergara

11:05am-11:20am  Clinical Presentation And Management Of Cytotoxic And Hemotoxic Envenomations At An
   Austere Snakebite Clinic In Kindia, Guinea
   Jordan Benjamin

11:20am-11:35am  A Clinico-Epidemiologic Study Of Determinants Of Limb-Loss Following Snakebite In Nigeria
   Garba Iliyasu

11:35am-12:00pm  Socio-Epidemiological Factors Of Snakebites In A Tertiary Care Hospital In Mid-Western Nepal
   Deb Pandey

12:00pm-1:00pm  Lunch

1:00pm-3:00pm  Presentations

1:00pm-1:30pm  Bites From Non-Front-Fanged Snakes: Medical Significance, Troublesome Terminology And
   Taxing Taxonomy
   Scott Weinstein

1:30pm-1:45pm  Snake Envenomation Clinical Outcome Measures Vary Widely And Are Not Patient-Centered:
   A Systematic Review Of Clinical Studies
   Marcos Adriano Garcia Campos

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
   Joao Ricardo Nickenig Vissoci
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<tr>
<th>Time</th>
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<th>Speaker/Title</th>
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<tr>
<td>2:00pm</td>
<td>What Activities Do Snakebite Envenomation Patients Choose To Assess Dysfunction?</td>
<td><em>Joao Ricardo Nickenig Vissoci</em></td>
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<td>2:15pm</td>
<td>Use Of Sonoclot® To Assess The In Vitro Effect Of <em>Agkistrodon contortrix laticinctus</em> On Coagulation In Canine And Equine Whole Blood</td>
<td><em>Lyndi Gilliam</em></td>
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<td>2:30pm</td>
<td>Challenges And Prospects Of Snake Antivenom Supply In Sub-Saharan Africa</td>
<td><em>Abdulrazaq Habib</em></td>
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<td>2:45pm</td>
<td>Development Of A Database System For Prospective Case Recording And Analysis</td>
<td><em>Julian White</em></td>
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<td>3:00pm</td>
<td>Change For The Better: Venom Ontogeny Corresponds To Dietary Shifts In Southwestern North American Rattlesnakes</td>
<td><em>William Hayes</em></td>
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<td>3:05pm</td>
<td>The Genetic Basis For Sensory Perception In Pitvipers</td>
<td><em>Michael Hogan</em></td>
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<td>3:20pm</td>
<td>Venom Resistance Against Two Grassland Rattlesnakes In An Eastern Colorado Rodent Community</td>
<td><em>Neil Balchan</em></td>
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<td>3:45pm</td>
<td>Evolutionary Drivers Of Venom Variation In The Prairie Rattlesnake (Crotalus viridis viridis)</td>
<td><em>Cara Smith</em></td>
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<td>4:05pm</td>
<td>Bioprospecting The Venoms Of <em>Philodryas baroni</em> And <em>Trimorphodon biscutatus lambda</em>: Cell Type Specific Cytotoxicity, Taxonomic Selectivity, Enzymatic Activity, And Lethality Of Two Rear-Fanged Snakes' Venoms.</td>
<td><em>Tanner Harvey</em></td>
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<td>4:30pm</td>
<td>Burmese Snakebite; The Myanmar Snakebite Project</td>
<td><em>Julian White</em></td>
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<td>6:00pm</td>
<td>NAST Board Meeting</td>
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**Friday, March 6, 2020**

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<th>Session</th>
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<td>8:00am</td>
<td>Presentations</td>
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<td>8:00am</td>
<td>Greetings</td>
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<td>8:00am</td>
<td>Venom Absorption After Snakebite</td>
<td><em>Dayanira Paniaguam</em></td>
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<td>8:15am</td>
<td>Unpredicted Late-, New-Onset Thrombocytopenia And Hypofibrinogenemia In Fab</td>
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<td>8:45am</td>
<td>Antivenom-Treated Rattlesnake Envenomation</td>
<td><em>Steven Seifert</em></td>
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Continuous Infusion As An Alternative Administration Strategy Of Ovine Fab Antivenom: Initial Experience In 41 Cases  
*Eric Lavonas*

Stocking Antivenoms In Urgent Care Clinics And Free-Standing Emergency Departments  
*Jeremy Lund*

Ketamine For Pain Control Of Snake Envenomation In Guinea: A Case Series  
*Niclaus Brandehoff*

Suspected *Crotalus adamanteus* Envenomation With Elevated Compartment Pressures Requiring Fasciotomy  
*Tamas Peredy*

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

**10:20am-12:00pm**  
Presentations

- Human Dimensions In Rattlesnake Conservation  
  *Anthony Daly-Crews*

- Heat Seeking Missles In Captivity: Husbandry Of *Bothrops*  
  *James Harrison*

- Paraspecific Neutralization Of Snake Venoms: What Snake Keepers Should Know About Their Antivenoms  
  *Elda Sanchez*

- Come Hither, King: Attempting To Target Train King Cobras  
  *Kristen Wiley*

- When Theory And Reality Diverge: A Monocled Cobra Envenomation In The United States  
  *Ben Abo*

**12:00pm-1:00pm**  
Lunch

**1:00pm-3:00pm**  
Presentations

- A Spider-Venom Peptide For Preventing Ischemic Injuries Of Thje Heart: Application To Heart Transplant And Myocardial Infarction  
  *Glenn King*

  *Thalita Rocha*

- Antimicrobial Peptide Diversity In The Giant Desert Hairy Scorpion (*Hadrurus arizonensis*)  
  *Gunnar Nystrom*

- Vinegaroon Exposures Reported To A U.S. Poison Center  
  *Susan Smolinske*

- A Sting Operation: Risk Assessment And Venom Expenditure By Scorpions In Defensive Contexts  
  *Lindsay Marston*

- Substrate Specificity Of Recluse Spider Phospholipase D Toxins
Matthew Cordes
Sphingomyelinase D-Crotamine Recombinant Fusion Protein As Immunogen For The Production Of Antibodies Against Crotamine
Roberto Ponce Lopez

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

How The Brown Recluse Got Its Bite: What An Insecticidal Toxin With Nasty Mammalian Consequences Can Tell Us About The Evolution Of Venom Phenotypes
Greta Binford

Risk Assessment And The Effects Of Habitat Complexity On The Defensive Behaviors Of The Southern Striped Scorpion, Vaejovis carolinianus
David Nelsen

Snake, Spider, Scorpion, Insect, And Marine Exposures And Envenomations In Pregnancy In The National Poison Data System, 2009 – 2018
Maria Ramirez-Cruz

Recurrent Venom Effects Following North American Crotalidae Envenomations: A Systematic Review
Eric Lavonas

A Breath Of Fresh Air: Capnography, Innovation, ASF Approach To Treatment And Training
Ben Abo

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
8:00am-8:15am Greetings
8:15am-8:45am The Evolutionary Origins And Functional Diversification Of Rattlesnake Venom Toxins
Noah Dowell

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  
**Coffee + Exhibitor Break**

10:00am-10:20am  
**Presentations**

10:00am-10:50am  
Complex Interactions Of Biotic And Abiotic Factors Shape Venom Phenotypes In The Western Rattlesnakes  
*Stephen Mackessy*

10:50am-11:05am  
Biochemical Characterisation Of A Fibrinogenase From *Naja nigricollis* Venom  
*Hadiza Lawal Abdullahi*

11:05am-11:20am  
Attenuation Of Surgically-Induced Brain Injury Through Whole And Fractionated Venom Protein Preconditioning  
*Zachary Travis*

11:20am-11:35am  
Preclinical Screening Of Some Commercially Available Antivenom In Nigeria  
*Bashir Chedi*

11:35am-12:00pm  
Knowledge, Attitude And Practices Of Snakebite Care And Management Amongst Health Care Workers In Nigeria  
*Hamza Muhammad*

**11:50am-12:00pm**  
**Venom Week Closing**