

Venom Week VIII

Program

MON	8:00am-5:00pm: Sessions
18	5:30pm-7:30pm: Opening Reception
TUE	8:00am-5:00pm: Sessions
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WED	8:00am-5:00pm: Sessions
20	6:00pm-9:00pm: Venom Week Dinner
THU	8:00am-12:00pm: Sessions
21	Afternoon: Excursions

July 18-21, 2022 - Skysong Center, Scottsdale, Arizona



MONDAY at a glance

7:00am: Registration Open (Synergy Room)

7:00am-8:00am: Light breakfast (Synergy Room)

12:00pm-1:00pm: Lunch served in Synergy; tables in Exhibitor Suite (Thinkzilla)

5:30pm-7:30pm: Opening reception and poster sessions (1951 @Skysong)

Final agenda and presentations may differ from what appears in this program.

SESSIONS

Morning Sessions:

Session Moderator: Craig Woods DVM, MS, MBA

8:00am-8:55am: DEDICATION TO STEVEN SEIFERT MD
Venom Week VIII will begin with a tribute to Steven Seifert MD, who helped establish the Venom Week symposiums.

8:55am-9:15am: Opening Remarks
Craig Woods DVM, MS, MBA - Arizona State University

9:15am-9:30am: DEVELOPMENT OF AN IN VITRO PROFILING PLATFORM FOR THE MECHANISTIC ASSESSMENT OF CYTOTOXIC ACTIVITIES OF (CROTALID) SNAKE VENOMS
Matyas Bittenbinder MSc – Vrije Universiteit Amsterdam, Netherlands

9:30am-10:00am: HIGH-THROUGHPUT BIOASSAYS APPLIED TO PHYLOGENETIC AND ENVENOMATION STUDIES OF SPIDER AND SNAKE VENOMS
Fernanda Cardoso PhD – University of Queensland, Australia

10:00am-10:15am: BREAK in Thinkzilla

10:15am-10:45am: VENOM COMPLEXITY: TESTING HYPOTHESES OF ADAPTIVE FUNCTION IN ARTHROPODS AND SNAKES
William Hayes PhD – Loma Linda University, CA

10:45am-11:15am: TIMBER RATTLESNAKE (*CROTALUS HORRIDUS*): BIOLOGY AND CONSERVATION IN THE UPPER MISSISSIPPI RIVER VALLEY
Daniel Keyler PharmD, FAAC – University of Minnesota

11:15am-11:45am: THE TRIALS AND TRIBULATIONS OF ANTIVENOM ACQUISITION FOR ASSOCIATION OF ZOOS & AQUARIUMS FACILITIES IN THE 21ST CENTURY
Jeffrey Etting PhD – Jacksonville Zoo and Gardens, Florida

11:45am-12:00pm: Q&A

Afternoon Sessions:

Session Moderator: Michael Schaer DVM, DACVECC, DACVIM

1:00pm-1:30pm: BROAD ELAPID VENOM PROTECTION BY BROADLY NEUTRALIZING ANTIBODY FROM A SNAKEBITE HYPERIMMUNE SUBJECT
Jacob Glanville PhD – Centivax, South San Francisco, CA

1:30pm-2:00pm: Venom Week Group Photo – outside Bldg 3

2:00pm-2:15pm: SNAKEBITES IN CAMEROON: EVALUATION OF SNAKE ANTIVENOM IN AFRICA (ESAA) AND REAL LIFE CONDITIONS
Jean-Philippe Chippaux MD, PhD – Institut de Recherche pour le Développement, France

2:15pm-2:30pm: HIGH THROUGHPUT IDENTIFICATION OF MONOCLONAL ANTIBODIES THAT BIND SPECIFIC VENOM TOXINS FOR THE DEVELOPMENT OF NEW SNAKEBITE TREATMENTS
Julien Slagboom MSc – Vrije Universiteit Amsterdam, Netherlands

2:30pm-2:45pm: IN VIVO NEUTRALIZATION OF MYOTOXICITY INDUCED BY MYOTOXIN II FROM *BOTHROPS ASPER* USING A NOVEL FULLY HUMAN IGG ANTIBODY
Christoffer Sørensen MSc – Technical University of Denmark, Denmark

2:45pm-3:00pm: BREAK in ThinkZilla

3:00pm-3:30pm: RETROSPECTIVE COMPARISON OF THREE ANTIVENOMS FOR THE TREATMENT OF DOGS WITH CROTALID ENVENOMATION
Sarah Carotenuto DVM, DABVP – University of Arizona

3:30pm-4:00pm: VETERINARY ANTIVENOMS & VENOM DIAGNOSTICS: PROJECTED MARKET SIZE AND DEVELOPMENT COSTS IN THE US
Craig Woods DVM, MS, MBA – Arizona State University



4:00pm-4:45pm: PANEL DISCUSSION: TURNING TOXINS INTO TREATMENTS
Panelists: Glenn King PhD, Ray Norton PhD, Jeroen Kool PhD, Stephen Munk PhD
Moderator: Craig Woods DVM, MS, MBA

4:45pm-5:00pm: Q&A

POST-SESSION EVENTS

***5:30pm-7:30pm: Opening Reception and Posters**
1951 @Skysong - Refreshments / Hor d'Oeuvres

*This program segment is not accredited for CME

JULY

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TUESDAY at a glance

7:00am: Registration Open (Synergy Room)

7:00am-8:00am: Breakfast at SkySong Elements Hotel (vouchers available)

12:00pm-1:00pm: Lunch served in Synergy; tables in Exhibitor Suite (Thinkzilla)

Evening: On your own; NAST Board of Directors meeting

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SESSIONS

Morning Sessions:

Session Moderator: William Hayes PhD

8:00am-8:15am: Opening Remarks
William Hayes PhD

8:15am-8:45am: ORGANOIDS FROM VENOM GLAND OF THE WESTERN DIAMONDBACK- A NEW TOOL TO STUDY SNAKE ENVENOMATION
Karin Allenspach Dr.med.vet, PhD, DECVIM – College of Veterinary Medicine, Iowa State University

8:45am-9:15am: DEVELOPMENT OF AN ORALLY-ACTIVE SPIDER-VENOM PEPTIDE FOR TREATMENT OF CHRONIC VISCERAL PAIN
Glenn King PhD – School of Chemistry and Molecular Biosciences, University of Queensland, Australia

9:15am-9:45am: VENOM-DERIVED INHIBITORS OF MICROGLIAL KV1.3 POTASSIUM CHANNELS AS THERAPEUTIC LEADS FOR AUTOIMMUNE AND NEUROINFLAMMATORY DISEASES
Ray Norton PhD – Institute of Pharmaceutical Sciences, Monash University, Australia

9:45am-10:00am: USE OF PLA2-RICH PSEUDECHIS PAPUANUS VENOM TO ATTENUATE SURGICAL BRAIN INJURY
Zachary Travis MPH – Loma Linda University School of Medicine, CA

10:00am-10:30am: BREAK

10:30am-11:00am: SNAKE DRUGS AND ROCK & ROLL
Jerry Harrison – Ophirex, CA

11:00am-11:30am: UPDATE ON SPLA2 INHIBITION FOR THE TREATMENT OF SNAKEBITE ENVENOMING
Matthew Lewin MD, PhD – Ophirex, CA

11:30am-12:00pm: WHEN IT REALLY IS A SPIDER BITE
Sean Bush MD – WakeMed Health, NC

Afternoon Sessions:

Session Moderator: Elda Sanchez PhD

1:00pm-1:30pm: USING COMMUNITY HEALTH CENTERS & GEOSPATIAL-AI TO IMPACT SNAKEBITE IN THE BRAZILIAN AMAZON
Charles Gerardo MD, MHS – School of Medicine, Duke University

1:30pm-1:45pm: BARRIERS TO SNAKEBITE ENVENOMATION TREATMENT IN THE BRAZILIAN AMAZON FROM THE HEALTH PROFESSIONALS' PERSPECTIVE
Anna Tupetz PT, DPT, MScGH – School of Medicine, Duke University

1:45pm-2:00pm: DEVELOPMENT AND VALIDATION OF A CULTURALLY-RELEVANT CLINICAL PRACTICE GUIDELINE FOR SNAKEBITE ENVENOMING IN THE BRAZIL
Eleanor Strand BS – Duke University Medical Center

2:00pm-2:15pm: A MICROSIMULATION MODEL TO ESTIMATE THE DALYS, DEATHS, AND COSTS OF SNAKEBITE ENVENOMATION IN BRAZIL'S AMAZONAS STATE
Armand Zimmerman MSc – Duke Global Health Institute

2:15pm-2:45pm: CLINICAL IMPLICATIONS OF VENOMIC VARIATIONS IN COLORADO AND BEYOND
Nicklaus Brandehoff MD – Aesclepius Snakebite Foundation

2:45pm-3:00pm: BREAK in ThinkZilla

3:00pm-3:30pm: ELAPID ENVENOMATION IN DOGS AND CATS – THE AUSTRALIAN EXPERIENCE
Claire Sharp BVMS, MS – Murdoch University, Australia

***3:30pm-4:00pm:** PROSPECTIVE ANALYSIS OF 95 PIT VIPER ENVENOMATIONS IN NORTHCENTRAL FLORIDA
Michael Schaer DVM, DACVIM, DACVECC – Professor Emeritus, College of Veterinary Medicine, University of Florida

***4:00pm-4:45pm:** PANEL DISCUSSION: THERAPEUTICS AND DIAGNOSTICS - WHAT'S NEW, WHAT'S NEEDED AND WHAT'S NEXT
Panelists: Matthew Lewin MD, PhD, Sean Bush MD, Nicklaus Brandehoff MD, Spencer Greene MD, MS, Jonas Jürgensen, MSc, Raegan Wells DVM, MS
Moderator: Michael Schaer DVM



***4:45pm-5:00pm:** Q&A

POST-SESSION EVENTS

Evening on your own

*North American Society of Toxinology; Board of Directors meeting

*These program segments are not accredited for CME

JULY

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WEDNESDAY at a glance**7:00am:** Registration Open (Synergy Room)**7:00am-8:00am:** Breakfast at SkySong Elements Hotel (vouchers available)**12:00pm-1:00pm:** Lunch served in Synergy; tables in Exhibitor Suite (ThinkZilla)**6:00pm-9:00pm:** Closing Dinner (buses depart at 5:45 & 6:00pm from SkySong Elements)*Final agenda and presentations may differ from what appears in this program.***SESSIONS****Morning Sessions:****Session Moderator:** Carl-Wilhelm E. Vogel MD, PhD**8:00am-8:15am:** Opening Remarks
Michael Schaer DVM, DACVECC, DACVIM**8:15am-8:45am:** THE EVILS OF QUANTIFICATION IN VENOMICS
Juan Calvete PhD – Biomedical Institute of Valencia, Spain**8:45am-9:15am:** SNAKE VENOM - OMICS: FROM BIOMARKER DISCOVERY TO NEXT GENERATION THERAPEUTICS
Jacob Galan PhD – Texas A&M University-Kingsville**9:15am-9:45am:** HIGH THROUGHPUT VENOMICS
Jeroen Kool PhD – Amsterdam Institute of Molecular and Life Sciences (AIMMS), Vrije Universiteit Amsterdam**9:45am-10:00am:** Q&A**10:00am-10:15am:** BREAK in ThinkZilla**10:15am-10:45am:** BEFORE, DURING, AND AFTER: RECRUITMENT OF PHOSPHOLIPASE D TOXINS INTO BROWN SPIDER VENOM
Matthew Cordes PhD – University of Arizona**10:45am-11:15am:** NEW INSIGHTS INTO THE PROTEOMIC PROFILING OF EXTRACELLULAR VESICLES FOR THE IDENTIFICATION OF EARLY MEDIATORS IN MICE INDUCED BY CYSTEINE-RICH SECRETORY PROTEIN FROM CROTALUS SCUTULATUS VENOM
Montamas Suntravat PhD – Texas A&M University-Kingsville**11:15am-11:30am:** EVALUATION OF THE MODULATORY EFFECT OF NORTH AMERICAN VIPER VENOMS ON THE INNATE IMMUNE RESPONSE USING AN EXPERIMENTAL MODEL OF MONOCYTE-DERIVED MACROPHAGES
Emelyn Salazar PhD – Texas A&M University – Kingsville**11:30am-11:45am:** CYTOTOXIC PROPERTIES OF NORTH AMERICAN SCORPION VENOM
Ann Wertheimer PhD – VIPER Institute, BIO5, University of Arizona**11:45am-12:00pm:** Q&A**Afternoon Sessions:****Session Moderator:** Craig Woods DVM, MS, MBA**1:00pm-1:30pm:** THE NORTH AMERICAN SNAKEBITE REGISTRY
Michelle Ruha MD – University of Arizona & Banner Hospital**1:30pm-1:45pm:** THE EPIDEMIOLOGY, CLINICAL FEATURES, AND MANAGEMENT OF MOJAVE RATTLESNAKE ENVENOMATIONS REPORTED TO THE NORTH AMERICAN SNAKEBITE REGISTRY
Spencer Greene MD, MS – HCA Houston Healthcare-Kingwood**1:45pm-2:00pm:** ANNUAL AND SEASONAL VARIATION IN ANTIVENOM USAGE IN AGKISTRODON ENVENOMATIONS IN TEXAS
Spencer Greene MD, MS - HCA Houston Healthcare-Kingwood**2:00pm-2:30pm:** 22 YEARS OF RATTLESNAKE BITES FROM THE ARIZONA POISON & DRUG INFORMATION CENTER
Farshad Shirazi MD, PhD – AZ Poison & Drug Information Center**2:30pm-2:45pm:** Q&A**2:45pm-3:00pm:** BREAK in ThinkZilla**3:00pm-3:15pm:** PLATELET AGGREGATION AND ERYTHROCYTE MORPHOLOGICAL CHANGES IN THREE NORTH AMERICAN PIT VIPERS
Samuel Francis MD – Duke University Hospital**3:15pm-3:30pm:** A SNAKE VENOM SERINE PROTEASE (SVSP) IN THE MOHAVE RATTLESNAKE VENOM TARGETS BIOLOGICAL SYSTEMS BEYOND HEMOSTASIS
Fabiola Oyervides – Texas A&M University – Kingsville**3:30pm-3:45pm:** THE NATIONAL NATURAL TOXINS RESEARCH CENTER: A RESOURCE FOR NEW BIOTECHNOLOGY EXPLORATION AND DEVELOPMENT
Elda Sanchez PhD – NNTRC Director, Department of Chemistry Professor, Texas A&M University – Kingsville**3:45pm-4:15pm:** A CASE FOR THE DEVELOPMENT OF A FIELD-BASED AUTO-INJECTOR DEVICE FOR THE TREATMENT OF SNAKEBITE ENVENOMATION
Marshall Werner PhD – Grand Valley State University, MI**4:15pm-4:45pm:** CLINICAL TRIAL AND ELISA EFFICACY TESTING RESULTS FOR A NOVEL EQUINE F[AB']₂ ANTIVENOM IN VETERINARY MEDICINE
Gena Broussard DVM – Consulting Veterinarian, MT Venom LLC, CA**4:45pm-5:00pm:** Q&A**POST-SESSION EVENTS*****6:00pm-9:00pm Closing Banquet**

Showcase Room at the Yard

Bus Schedule from SkySong Elements:

Depart: 5:45pm & 6:00pm: Return: 8:45pm & 9:00pm

*This program segment is not accredited for CME

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THURSDAY at a glance

7:00am: Registration Open (Synergy Room)

7:00am-8:00am: Breakfast at SkySong Elements Hotel (vouchers available)

After 12pm: Afternoon outings (see below)

Final agenda and presentations may differ from what appears in this program.

SESSIONS

Morning Sessions:

Session Moderator: Sean Bush MD

8:00am-8:15am: Opening Remarks
Sean Bush MD – WakeMed Health

8:15am-9:15am: THE RIGHT TOOLS FOR THE TRADE:
HIGH-THROUGHPUT METHODS FOR VENOM RESEARCH
Bryan Fry PhD – University of Queensland, Australia

9:15am-9:30am: Q&A

9:30am-9:45am: LASER THERAPY AS A REDUCER OF
LOCAL COMPLICATIONS: A CASE REPORT
Jacqueline Sachett – Amazonas State University, Brazil

9:45am-10:00am: BREAK in Thinkzilla

10:00am-10:15am: EFFICACY OF LOW INTENSITY LASER
THERAPY IN THE REDUCTION OF LOCAL
MANIFESTATIONS OF BOTHROPS ATROX
ENVENOMATIONS: A PILOT RANDOMIZED CLINICAL
TRIAL Jacqueline Sachett – Amazonas State University, Brazil

10:15am-10:30am: RECRUITING BASIC HEALTH UNITS TO
INCREASE HEALTH COVERAGE FOR ANTIVENOM
AGAINST SNAKEBITE IN THE AMAZON REGION: AN
OPTIMIZED MODEL USING SPATIAL ANALYSIS
João R.N. Vissoci PhD – Duke University School of Medicine

10:30am-11:00am: BREAK

***11:00am-11:25am:** REVIEW OF SNAKEBITE
DIAGNOSTICS
Jonas Jurgensen MSc – VenomAid Diagnostics, Denmark

11:25am-12:00pm: Closing Remarks

POST-SESSION EVENTS

After Venom Week Adjourns:

*Afternoon: Phoenix Herpetological Sanctuary (PHS)

PHS is pleased to have Venom Week attendees come for a free tour of their facility in north Scottsdale on the afternoon of July 21, 2022. PHS started in 2001 and is currently the largest reptile sanctuary in the United States. PHS has 1200 reptiles, including 22 crocodylian species and over 200 venomous snakes from all over the world. PHS also maintains the largest antivenom bank in the western United States.

*At Dusk: Evening Herping Adventure

Sean Bush MD will be headed out at dusk to go herping in the Phoenix area.

*These program segments are not accredited for CME

