



INTERNATIONAL SOCIETY ON TOXINOLOGY

NEWSLETTER

October 2011

UPCOMING MEETINGS

IST World Congress

Hawaii, July 8-13, 2012, details pending. This Congress will combine with the US Venom Week meeting.

19th Meeting of the French Society of Toxinology (SFET) "Toxins and Ion Transfers"

November 28-29, 2011, Pasteur Institute, Paris. France

2012 Clinical Toxinology Short Course

Women's & Children's Hospital, North Adelaide, Australia; February 13-18, 2012. These courses, with a unique clinical and global focus, have been held regularly since 1997.

Plus see later in this newsletter for other meetings scheduled in the next few months.

FROM THE IST EXECUTIVE

The IST has held two regional meetings this year, both in September, the Asia-Pacific Section Congress in Vladivostok, immediately followed by the European Section Congress in Valencia. Both were successful meetings, though rather different from each other. On behalf of the IST I thank the organisers of each meeting for their hard work, particularly Prof. Eugene Grishin (Russia - Vladivostok Congress) and Prof. Juan Calvete (Spain - Valencia Congress).

At the European IST Congress in Valencia the members present at a specially convened Special Business Meeting of IST were asked to vote on a revised Constitution for our Society. The changes were few and not major, but were required to bring the Constitution into line with modern taxation law. As required by the Constitution, 90 days notice for this Special Business Meeting was given by mail (email) and members were provided with both the existing and proposed revised Constitution. Far more members attended and voted at the meeting than the required minimum for a quorum. There were 48 votes cast for the new revised Constitution, no votes against and no abstentions registered. Therefore the revised Constitution is now the official Constitution for the Society. It is available on the IST website (www.toxinology.org). As a result of this change I will soon be setting up online payment for membership dues.

The next World Congress of the IST will be in Hawaii in July next year. There is a Congress website and all toxinologists are urged to register and attend.

Julian White, Secretary/Treasurer, IST

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MESSAGE FROM THE PRESIDENT (I.S.T)



Dear Friends

We had two regional meetings of the IST back to back A-P I.S.T in Vladivostok, Russia, followed by E-IST in Valencia, Spain. We can consider the Vladivostok meeting as a milestone for IST, since this was the first meeting of the IST in Russia and we were able to see many young and up-

coming toxinologists presenting their work and I am certain there will be more toxinologists from that region who will join the IST.

The Valencia meeting saw a few hundred participants from more than 40 countries. It was a great success both scientifically and socially

Congratulations to both organizers.

There is an active discussion going on among the council members, on how to engage basic and clinical researchers in the Pan African/Arab/Middle Eastern regions and bring them into the fold of IST as a community.

Once the Council has come to some direction, then there will be a wider consultation among general membership on how we could proceed further. Please

send us all your feed back to me or Julian.

It will be ideal if we can have an "Exploratory" meeting in Africa and get the opinion of the stake holders in Africa and region and then proceed with the best way to integrate the African toxinology community into the extended family of the International Society on Toxinology. The question is whether they want to have a society linked to European IST (European-African section ??) or a separate "Pan African/Arab" section with a distinct flavor and character. We like to hear from the community.

Thank you

Gopal

IST President

Email: antgopal@nus.edu.sg

THE FUTURE OF THE IST NEWSLETTER

The IST Newsletter needs input from IST members to make it a more effective communication tool within the Society. The move to electronic format may open up opportunities for new sections. For instance, it might be possible to have annotated bibliographies of recent toxinology publications from other journals, or reports of other meetings with toxinology content. Available toxinology-related jobs and student postings could be listed. There are doubtless many other possibilities members may think of.

So I ask all IST members to consider what they want from the Newsletter and let me know by email. I also want to hear from IST members prepared to contribute regular sections to the Newsletter. To be vibrant and relevant the Newsletter must become more than just a brief report on IST business by myself and our President, but that requires your input.

Julian White

Secretary/Treasurer IST

julian.white@adelaide.edu.au

IST Nomenclature Committee

At the last IST World Congress held in Recife, Brazil in March 2009, a symposium devoted to the topic of toxin nomenclature received significant interest from IST members. The IST Council subsequently decided to form a nomenclature committee to examine the issue of toxin naming standards and recommend possible solutions. The mandate of this committee is to propose a nomenclature system, with interim reports to IST Council and a "final" report to be delivered at the IST World Congress in 2012. If you have any comments or suggestions on toxin nomenclature, could you please send them to a member of the nomenclature committee, which is currently comprised of the following members:

Dr Gerardo Corzo, Mexico (Email: corzo@ibt.unam.mx)
Dr Florence Jungo, Switzerland (Email: Florence.Jungo@isb-sib.ch)
Dr Evanguedes Kalapothakis, Brazil (Email: ekalapo@icb.ufmg.br)
Prof. Glenn King, Australia (Chairman; Email: glenn.king@imb.uq.edu.au)
Prof. Manjunatha Kini, Singapore (Email: dbskinim@nus.edu.sg)
Prof. Graham Nicholson, Australia (Email: graham.nicholson@uts.edu.au)
Prof. Toto Olivera, USA (Email: olivera@biology.utah.edu)
Prof. Jan Tytgat, Belgium (Email: jan.tytgat@pharm.kuleuven.be)

ArachnoServer spider toxin database

ArachnoServer is a manually curated database that provides detailed information about proteinaceous toxins from spiders. Key features of ArachnoServer include a new molecular target ontology designed especially for venom toxins, the most up-to-date taxonomic information available, and a powerful advanced search interface. Toxin information can be browsed through dynamic trees, and each toxin has a dedicated page summarising all available information about its sequence, structure, and biological activity. ArachnoServer currently manages 567 protein sequences, 334 nucleic acid sequences, and 51 protein structures. ArachnoServer is available online at www.arachnoserver.org.

The IST has established a special wiki site for members of this Nomenclature Committee to use to both communicate and develop information and recommendations. Members of the committee will soon receive an email detailing how they may access this site.

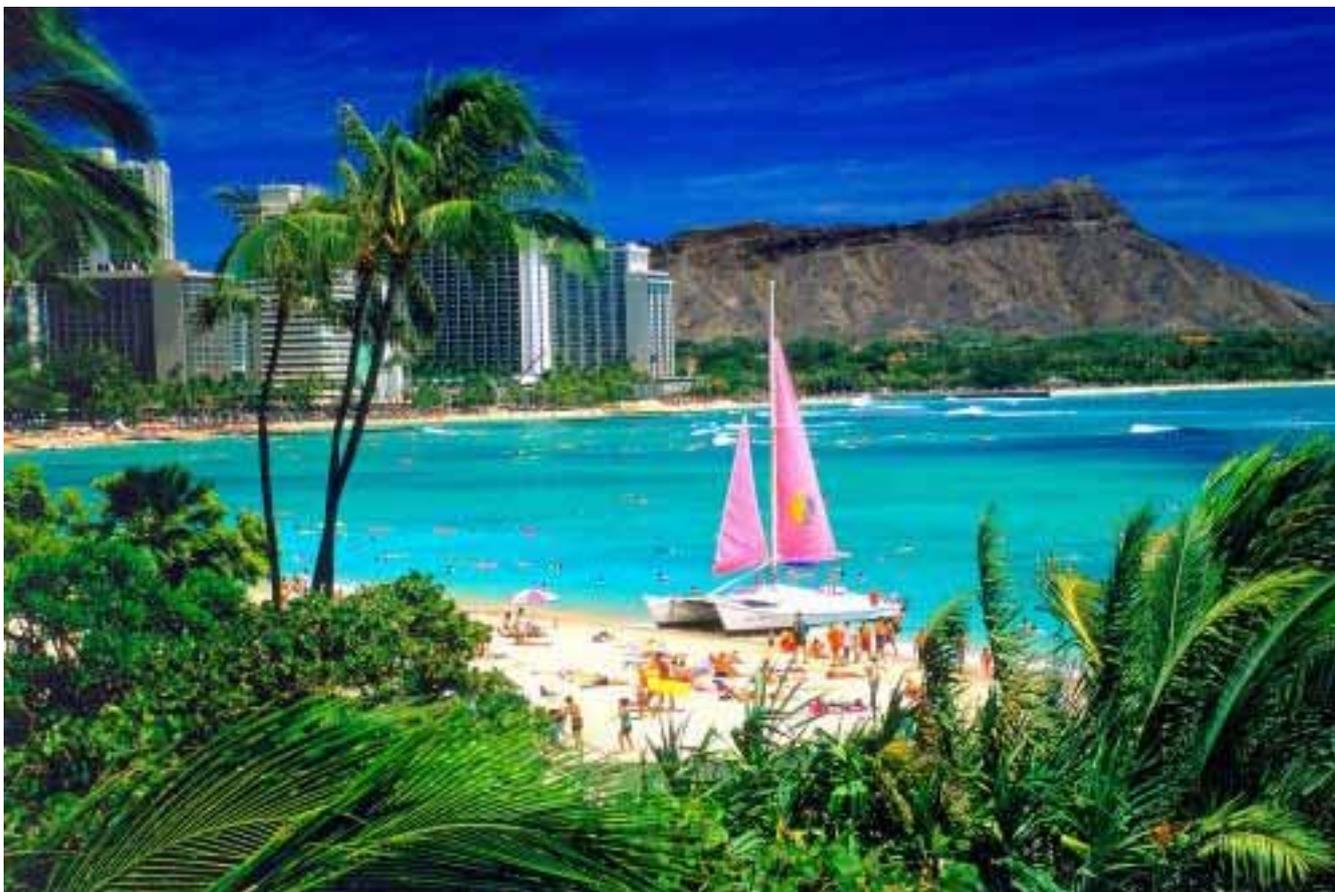
IST Snake Taxonomy Advisory Group

Keeping up with changes in taxonomy for venomous animals is always a challenge for toxinologists, but it is important to do so, if published research is to maintain viability longer term, as taxonomy evolves. To improve dissemination of information on taxonomic changes the IST is trialling an internet-based process for taxonomists to interact through.

The first stage is a small invited group of experts on snake taxonomy, who can interact through a special wiki site and develop updates and recommendations for dissemination to all IST members through the main IST website or the Newsletter. This group is in its formative stages at present and our experiences with this will be used to guide establishment of similar groups in the future to cover other areas of taxonomy, such as scorpions, spiders, marine organisms etc.

Once this early stage has allowed us to develop a viable structure and processes the IST will invite members to submit names of taxonomists in each major taxa who could then be approached re involvement in this initiative. Until then I ask that members do not send me names or indicate their own interest in this area, but rather allow me to work with this initial trial group to iron out details of how to make the process deliver results.

Julian White, Secretary IST



NEXT IST WORLD CONGRESS - HAWAII 2012

A local Hawaii organising executive has been formed to plan the next IST World Congress. All IST members should work together to support Dr. Carl-Wilhelm Vogel, Dr. Angel Yanagihara and Dr. Marilyn Dunlap and their colleagues in ensuring Hawaii hosts a successful Congress in 2012. In an exciting development, this Congress will combine with US Venom Week. Venom Week, organised by Dr. Steve Seifert, University of New Mexico, attracts a clinician and herpetologist audience, predominantly from the US, but with increasing attendees from other nations. Combining the IST Congress with Venom Week will produce an even more vibrant and well attended meeting, to the benefit of all. The Congress will be held at the Hilton Hawaiian Village, Honolulu, Hawaii, July 8th to 13th, 2012. We will be striving to ensure the Congress is affordable, including less expensive accommodation for student members. Because Hawaii is part of the US, members from some countries not covered by the US Visa-waiver program will need to organise visas well in advance.

A Congress website is available at www.istworldcongress17-venomweek2012.org and abstract submission and registration on-line will soon be available at this site.

Organising an IST World Congress is not easy and requires a great deal of effort by local IST members. This work, on behalf of all of us, deserves to be valued by the membership and we should all see what we can do to assist the local organisers. It is particularly important to gain an idea of likely attendance to allow budget planning. Early registration will be both financially beneficial (a lower rate) and greatly assist the local organisers in planning and being able to offer attendees the best experience possible. An International Scientific Organising Committee is being established for the Congress, representing the diverse interests, backgrounds and national origins of our IST family. The membership of this committee will be announced shortly.

Prof. Carl Vogel may be contacted on CVogel@cc.hawaii.edu and Prof. Steve Seifert on SSeifert@salud.unm.edu.

17TH WORLD CONGRESS OF THE INTERNATIONAL SOCIETY ON TOXINOLOGY

ANIMAL, PLANT AND MICROBIAL TOXINS

& VENOM WEEK 2012

4TH INTERNATIONAL SCIENTIFIC
SYMPOSIUM ON ALL THINGS
VENOMOUS



www.istworldcongress17-venomweek2012.org

JULY 8-13, 2012
HONOLULU, HAWAII
HILTON HAWAIIAN VILLAGE



Venom Week Symposiums





The conference hotel is the famed
Hilton Hawaiian Village

The regular meeting "Group code" is AIK and the room reservation listing should include the codes:

"2012 IST WORLD CONGR 2012"

and

"IST WORLD CONGRESS & VENO 72 HR CXL"

The hotel also has special rates for AAA membership, Seniors, Government/military and Travel agents and you can determine and use the best rate for you.

Meeting rates are for the dates 7/5/12 - 7/16/12 and rates and availability pre- and post-meeting dates may be different or show as unavailable when searched. The hotel should be contacted directly for more complicated booking arrangements.

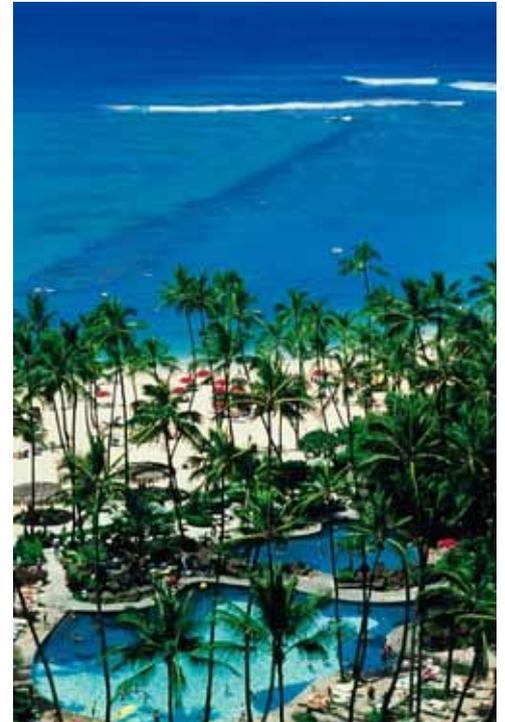
A limited number of rooms are available at further reduced rates for students (with verification of student status) and, space permitting, those with special financial need. Please send queries to: catwood@salud.unm.edu

If you qualify, and rooms are still available at that rate, you will be given a special code to use in booking your room.

Reservations can be made directly on the hotel website:

<http://www.hiltonhawaiianvillage.com/>

or by calling: 1-808-949-4321





Société Française pour l'Etude des Toxines

19th Meeting of the French Society of Toxinology (SFET)

"Toxins and Ion Transfers"

November 28-29, 2011, Pasteur Institute, Paris, France

Monday, November 28

8h30 - 9h00: Coffee

9h00 - 9h10: Welcome. Denis SERVENT (SFET President)

9h10 - 12h40 **Chairman : Marie-France Martin-Eauclaire, Christian Legros**
Session Toxins and Ion Channels

9h10 - 9h40: Frank Bosmans (Porter Neuroscience Research Center, National Institutes of Health, Bethesda and Johns Hopkins Medical School – Physiology Department, Baltimore, USA)
Function and pharmacology of sodium channel voltage sensors

9h40 - 10h00 : Marie-France Martin-Eauclaire (ToxCiM, Dept. Signalisation Neuronale, Centre de Recherches en Neurobiologie-Neurophysiologie de Marseille, France)
*Overview of the small K_v channels blockers from *Androctonus* venoms*

10h00 - 10h20 : Sylvie Diochot (Institut de Pharmacologie Moléculaire et Cellulaire, Université de Nice-Sophia-Antipolis, France)
Analgesic properties of APETx2, a sea anemone peptide inhibiting ASIC3, in inflammatory and post-operative pain models

10h20 - 10h40 : Jordi Molgo (Institut de Neurobiologie Alfred Fessard, CNRS, Gif sur Yvette, France)
Pinnatoxins: an emergent family of marine phycotoxins targeting nicotinic acetylcholine receptors with high affinity

10h40 - 11h10 : Coffee break & posters

11h10- 11h40: Stefan Heinemann (Center for Molecular Biomedicine, University of Jena, Germany)
Modulation of voltage-gated sodium channels with peptide toxins

11h40 - 12h00: Jan Siemens (Max-Delbrück Center for Molecular Medicine, Berlin, Germany)
A bivalent tarantula toxin produces inflammatory pain by targeting the outer pore domain of the capsaicin receptor TRPV1

12h00 - 12h20 : Bruno Laped (Laboratoire Récepteurs et Canaux Ioniques Membranaires, Université d'Angers, France)
Neurotoxic action of the repellent DEET occurs through positive and negative allosteric modulation of muscarinic acetylcholine receptors

12h30-15h00 : Lunch, Poster session

NEW MEETING LISTING

15h00 – 18h00 **Chairmen: Daniel Ladant, Cesare Montecucco**
Session Pore-Forming Toxins I

15h00 – 15h30 : Vittorio Ricci (Department of Physiology, University of Pavia, Italy)
VacA from Helicobacter pylori: journey and action mechanism in epithelial cells

15h30 – 15h50: Joachim Rasso (Institut für Physiologische Chemie, Bochum, Germany)
Targeting of Helicobacter pylori VacA to mitochondria

15h50 : 16h20 : Michel Popoff (Unité des Bactéries anaérobies et Toxines, Institut Pasteur, Paris, France)
Clostridium perfringens epsilon toxin; a fascinating pore-forming toxin

16h20 – 16h40: Ajit K. Basak (Department of Biological Sciences, Birkbeck College, London, UK)
Structural Studies Reveal Novel Relationships between Clostridium perfringens Pore-forming Toxins

16h40 – 17h00: Roland Benz (Rudolf-Virchow-Center, University of Würzburg, Germany)
Influences of His-tag in the Uptake of Different Effectors Promoted by Anthrax Protective Antigen and C2II: A Possible Selective Translocation System Revealed

17h00- 17h20 : Gilles Prevost (Physiopathologie et Médecine Translationnelle, Université Louis Pasteur, Strasbourg, France)
General and particular inhibitions of the staphylococcal leucotoxin functions

17h30 - 19h00: General Assembly of the SFET (Salle 014-015, rdc bâtiment Lwoff)

Tuesday, November 29

8h30 - 9h00: Coffee

9h00 – 11h00 **Chairmen: Michel Popoff, Vittorio Ricci**
Session Pore-Forming Toxins II

9h00 – 9h30: Rod Tweten (University of Oklahoma Sciences Center, Oklahoma City, USA)
The Cholesterol-Dependent Cytolysins: Molecular Mechanism to Vaccine Development

9h30 – 9h50 : Alexandre Chenal (Unité de Biochimie des Interactions Macromoléculaires, Institut Pasteur, Paris, France)
Diphtheria toxin: coupling of pore-forming and translocation activities

9h50 – 10h10: Cesare Montecucco (Dipartimento di Scienze Biomediche, Università di Padova, Italy)
Tetanus and botulinum neurotoxins need to have two feet on the membrane to enter neurons

10h10 – 10h40: Philippe Sansonetti (Unité de pathogénie Microbienne Moléculaire, Institut Pasteur, Paris, France)
Antimicrobial peptides at mucosal surface: complex ensuring of a bacterial exclusion zone

10h40 – 11h00: Gregor Anderluh (Department of Biology, University of Ljubljana, Slovenia)
How pore forming toxins recognise sphingomyelin

11h00 - 11h30 : Coffee break & posters

11h30 – 16h20 **Chairmen: Richard Lewis, Pierre Escoubas**
Session Toxins as Tools and Therapeutics

11h30 - 12h00 : **Ines Ibanez-Tallon** (Department of Neuroscience, Max Delbrück Center for Molecular Medicine, Berlin, Germany)

From ion channels to behavior: in vivo dissection of circuits controlling pain and addiction

12h00 - 12h 20 : **Michel Partiseti** (Sanofi-Aventis, Vitry sur Seine, France)

Moving away from small molecules in ion channel discovery: opportunities and challenges

12h20 - 12h40 : **Holger Barth** (University of Ulm Medical Center, Ulm, Germany)

*Tailored β -cyclodextrin blocks membrane translocation of binary exotoxins from *Clostridium botulinum* and *Clostridium perfringens* and protects mammalian cells from intoxication*

12h45-14h30 : **Lunch, Poster session.**

14h30 - 15h00 : **Richard Lewis** (Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia)

Ion channel toxins for drug discovery and development

15h00- 15h20 : **Nicolas Gilles** (Laboratoire de Toxinologie Moléculaire et Biotechnologie, CEA/iBiTecS, Saclay, France)

G protein-coupled receptors, an unexploited family of animal toxin targets: Exploration of green mamba venom for novel ligands of adrenoceptors

15h20 - 15h40 : **Pierre Escoubas** (VenomeTech, Nice, France)

Development of a parallel refolding platform for disulfide-linked peptides

15h40 - 16h00 : **Marion Tarhe** (UMR-6264, Laboratoire Chimie Provence, Marseille, France)

KITOXAN[®], a Venom Fraction Library to Accelerate the Identification of Anti-angiogenic Peptides

16h00 - 16h20 : **Naziba Marrakchi** (Laboratory of Venoms Toxins, Pasteur Institute of Tunis, Tunisia)

Anti-tumoral snake venoms peptides

16h20 - 17h40 **Chairwoman : Pascale Marchot**
Session Miscellaneous

16h20 - 16h40 : **Marie-Laure Pinel** (Faculté de Pharmacie, Université de Rennes, France)

*Dual function for an overlapping RNA pair expressed by *S. aureus*: One encodes a membrane polypeptide and the other is a down regulator*

16h40 - 17h00 : **Frédéric Ducancel** (Laboratoire d'Ingénierie des Anticorps pour la Santé, CEA/iBiTecS, Saclay, France)

Interaction of engineered sarafotoxins with endothelin receptors

17h00 - 17h20 : **Emmanuel Jover** (INCI - UPR-CNRS 3212, Neurotransmission et sécrétion neuroendocrine, Strasbourg, France)

*Neurotoxicity *Staphylococcus aureus* Leucotoxins: interaction with the Store Operated Calcium Entry Complex in central and sensory neurons*

17h20 - 17h40 : **Guillaume Blanchet** (Laboratoire de Toxinologie Moléculaire et Biotechnologie, CEA/iBiTecS, Saclay, France)

Aminergic toxins: When Green mamba produces GPCR tools

17h45 : **Closure. Denis SERVENT (SFET President)**



University of Adelaide
Faculty of Health Sciences



CLINICAL TOXINOLOGY SHORT COURSE



2012



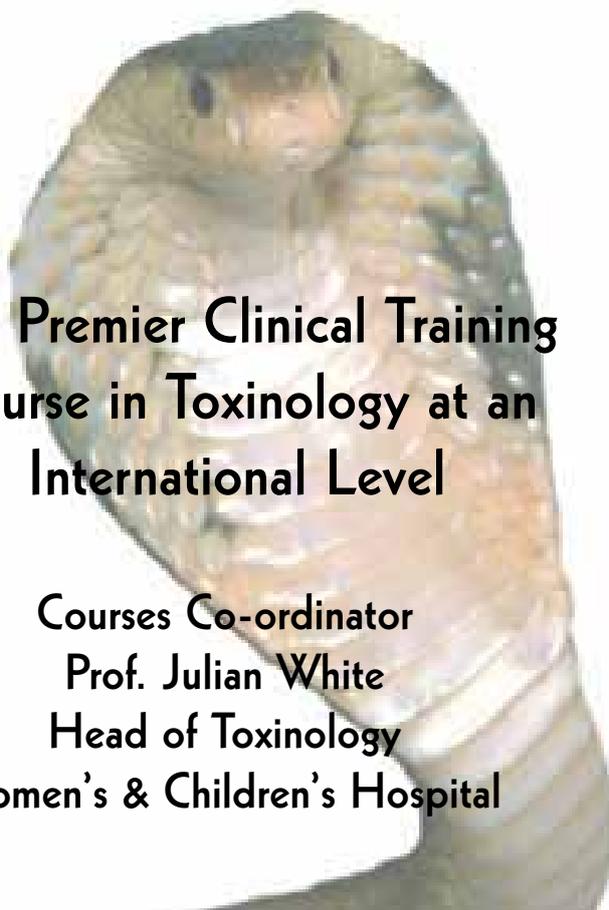
Women's & Children's Hospital
Adelaide, Australia
February 12th to 18th, 2012

NEW MEETING LISTING

The Premier Clinical Training
Course in Toxinology at an
International Level



Courses Co-ordinator
Prof. Julian White
Head of Toxinology
Women's & Children's Hospital



IMPORTANT COURSE INFORMATION**COURSE RELATED QUESTIONS:****Who is this course designed for?**

Primarily for doctors requiring detailed and practical information on snakebite, spiderbite, scorpion stings, marine envenoming, poisonous plants & mushrooms and related topics with a global and Australian perspective. It is particularly relevant for those working in emergency medicine, toxicology, intensive care, or in rural practice. Throughout there will be an emphasis on practical clinical issues and development of clinically relevant skills. It will also be of interest to poisons information pharmacists and graduate nurses in emergency medicine. You should be fluent in English, as no language translation will be available.

When and where are the courses held?

The courses runs over 6-7 days; Sunday February 12th to Saturday February 18th, 2012. The venue is the Women's and Children's Hospital, North Adelaide, SA, Australia

What does the course cover?

Please refer to details overleaf. (Detailed sheets on course content will be available on the web at <http://www.toxinology.com>)

Is the course accredited in any way?

The course is a University of Adelaide postgraduate training course. We are seeking formal accreditation of continuing education points with relevant colleges and possible incorporation within some college specialist training schemes.

How many people can attend the course?

The maximum course capacity is 50 registrants, to ensure a chance for interactions with faculty. Previous courses filled early, so early registration is advisable.

How much does the course cost and what does this cover?

The course costs are shown on the Enrolment Form overleaf; the fee covers the full course, course notes, field trip, morning and afternoon teas and light lunches. It does not cover the course dinner or accommodation.

Are there any course notes or reading material available prior to the course?

We produce course notes for registrants prior to the course, which will include recommended textbooks and reading list. You are still strongly advised to take notes during all sessions. (The 2010 Course Handbook was over 500 pages.)

What sort of practical clinical sessions are included?

The programme includes a number of interactive sessions discussing "clinical evolving problems" (CEPs) to develop registrant's understanding of clinical skills in toxinology and test those skills in a group setting. These are all based on real patients contributed by faculty members, drawn from their own clinical experience.

Is there any formal evaluation of my performance on the course?

Yes! Faculty will be evaluating all registrants on their interactions, especially during the clinical evolving problem sessions. On the Saturday there will be a written examination.

SOME PRACTICAL ISSUES:**Is there any accommodation available?**

Yes, plenty! We are not able to provide accommodation; you must organise this, but it should be easy. There are a number of hotels/motels close to the hospital in North Adelaide, as well as many more in the nearby city centre, a short walk away. Check www.southaustralia.com for details. Also many shops and places to eat. March is also festival time in Adelaide.

How do I get to the hospital?

The Women's and Children's Hospital is situated on the northern fringe of the city centre (CBD), with several bus routes immediately adjacent and taxi fare from the city centre would generally be only a few dollars. Adelaide's airport is several km from the city centre, but there are buses and taxis readily available. If coming by rail, the main station is on the northern margin of the city centre, so only about 15 minutes walk from the hospital.

What is Adelaide's weather in February like?

Variable! It will still be summer, so maximums vary from 20C to 35C+ (can be very hot), mostly dry, but occasional rain.

Is there a course dinner?

Yes, date, venue and cost to be confirmed (about \$90 each, excluding drinks).

HOW TO ENROL:**Enquiries:**

Please contact the Course Coordinator, Prof. Julian White (fax + +618-8161 8024; email julian.white@adelaide.edu.au; internet www.toxinology.com) for course details and enrolment forms or use the form on this brochure.

To enrol in the course:

Fill out the enrolment form fully and return to the address below, together with a minimum deposit of Aus\$400. The full course fee must be paid by January 1st, 2012, which is our deadline for course enrolment. Late enrolments may not be accepted (but try us anyway!).

Prof. Julian White, Toxinology Dept.

Women's & Children's Hospital

King William Road

North Adelaide SA 5006 AUSTRALIA

Payment details: Payment by credit card OR cheque or money order, in Australian \$, made payable to: "Toxinology Course WCH" (see over)

Cancellation: If the course is cancelled your fee will be refunded in full. If you decide to cancel your enrolment after January 1st, your course fee will not be refunded.



PROVISIONAL COURSE PROGRAMME OUTLINE

(It is expected this program will change & may extend to 7 days)

Day 1 (0800 - 1800)

Registration, Introduction, Overviews of Natural Toxins (venoms/poisons, epidemiology, clinical effects, first aid, treatment), Antivenoms, Introduction to snakes, Australian/PNG snakes, Clinical Evolving Problems (CEPs).

Day 2 (0815 - 1730)

Venomous snakes (regional accounts of species & clinical effects, treatment), snake practical, CEPs. Course Dinner (to be confirmed)

Day 3 (0900 - 1800)

Poisonous plants, CEPs, Botanical Gardens field trip. Poisonous mushrooms, CEPs.

Day 4 (0800 - 1800)

Arthropods; spiders, scorpions, ticks, insects, practical & CEPs. Start of marine, with overview and jellyfish, CEPs.

Day 5 (0815 - 1700)

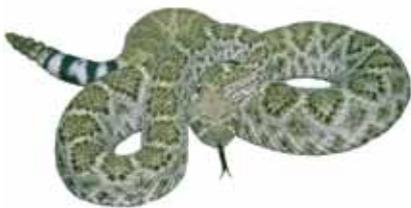
Marine continued, fish, sea snakes, shellfish etc poisoning, MCQ Exam, safe snake handling practical, Course summary and conclusion.

Day 6 (0915 - 1530 approx.)

Bus trip to Venom Supplies, Barossa Valley (major wine region) to see wide variety of venomous snakes from around the World. Time permitting, visit a winery. [This field trip is optional attendance, but is highly recommended and included in the Course fees]

CEP sessions will be conducted in the main lecture theatre with the entire group and attending faculty. For this Course we have shifted teaching emphasis by reducing lecture components and increasing CEP components, incorporating information exchange into the CEPs. If possible we will make Course written material available from our website prior to the Course, to allow Course registrants to commence learning prior to arrival in Adelaide.

For Australian doctors, all major Australian fauna is covered, with emphasis on Australian clinical issues, particularly in the venomous snake section, the Australian experience being used as a model for management principles globally. However, the scope of the Course is truly international, not parochial.

**COURSE FACULTY**

Faculty for the Course are drawn from experts in the field, with an emphasis on clinicians with practical experience treating cases. While each Course has a slightly different list of faculty, the following are some of the planned 2012 faculty, including several "new" faces. The exact make up of 2012 faculty may change.

Prof. Julian White - clinical toxicologist, Head of Toxinology, Women's & Children's Hospital, Adelaide, Course Convenor, internationally known expert on toxinology.

Prof. Rick Dart - toxicologist, Director, Rocky Mountain Poisons Centre, expert on snakebite

Dr. Hans Persson - toxicologist, Director, Swedish National Poisons Centre, expert on snakebite, poisonings by mushrooms & plants

Prof. Bart Currie - tropical medicine physician, Menzies School of Health Research, Darwin, expert on snakebite & marine envenoming

Prof. Geoff Isbister - toxicologist & toxicologist, University of Newcastle, leading clinical toxinology researcher

Dr. Mark Little - emergency physician & toxicologist, Brisbane, expert on marine envenoming

Dr. Rob Dowsett - emergency physician & toxicologist, Sydney, marine poisoning

Prof. Jamie Seymour - marine biologist, James Cook University, Cairns, leading marine venomous animal biologist

Dr. Mark Hutchinson - herpetologist, South Australian Museum, expert on reptile taxonomy

Dr. Phil Aplin - emergency physician, Flinders Medical Centre, Adelaide, expert on poisonous plants

Dr. Trevor Christensen - botanist, Botanic Gardens, Adelaide, expert on poisonous plants

Dr. Jean-Philippe Chippaux - clinician, ORSTOM, France, many years experience with African snakebite

Prof. Janaka de Silva - clinician, Sri Lanka, experience treating snakebite & plant poisoning in Sri Lanka

Dr. Michael Eddleston - clinician/toxicologist, UK, expert on plant poisoning

Dr. Aniruddha (Joy) Ghose - clinician, Bangladesh, experience with snakebite

Dr. Hui Wen Fan - clinician, Butantan Institute, Brazil, experienced with treating many types of envenoming in South America



ENROLMENT FORM

Clinical Toxinology Short Course 2012

NAME:

Last name: First name:

PREFERRED TITLE: (Prof, Dr, Mr, Ms, Mrs etc)**QUALIFICATIONS:****ADDRESS:**

Institution:

Street:

City: State:

Country: Postcode:

Are you fluent in English? Yes / No

Telephone:

Fax No:

Mobile phone:

Email:

I wish to attend the Clinical Toxinology Short Course 2012.

Course Fees includes full course, course notes, field trip, morning & afternoon teas and light lunches, but do not include the Course Dinner (approx. Aus\$90.00 - to be confirmed). The Course runs from about 8.00/9.00am till 5.30/6.00pm daily.

Course fee is Aus\$2,000.00 (plus Aus\$200.00 GST if registrant is from Australia; may be claimable as tax refund). Payment can be by credit card or cheque.

Course venue: Women's and Children's Hospital, North Adelaide

Accommodation: This is the responsibility of course participants. A number of hotels/motels are close to the hospital and a few of these are listed in the information sheet for the course.

To confirm a booking for the Course your deposit (minimum Aus\$400.00) must be enclosed with this enrolment form. Cancellation must be made at least ten (10) weeks prior to commencement of the course to ensure refund of your deposit. Refunds will NOT be available for non-attendance without adequate notification. Full payment by Jan. 1st 2012.

Payment by credit card: Please debit my VISA Mastercard for Aus\$ (fax form to +61-8-81618024)

Card number:

Expiry date: Name on card:

Signed: Date: Card CVV*:

OR -Payment by cheque: Deposit enclosed:

Please make cheque payable to: "Toxinology Course WCH"

* Card CVV = 3 digit security number on back of card

LES ANIMAUX VENIMEUX ET VÉNÉNEUX



**Systematique,
biologie,
toxicologie**

Année 2010 - 2011

1981-2011: 30 ans

MODULE I - Responsables : Jean-Philippe CHIPPALUX et Michel THIREAU
Venimologie générale - Vertébrés terrestres
Lundi 24 janvier - Vendredi 28 janvier 2011

Lundi 24 janvier 2011

09h00 - 09h15 : **Accueil**

09h15 - 10h45 : **La fonction venimeuse**

C. ROLLARD, Muséum

11h00 - 12h15 : **Toxicité aiguë des venins. Serums antivenimeux**

J.-P. CHIPPALUX, IRD, Cotonou

14h00 - 15h30 : **Venins : génomique, protéomique et bio-informatique**

R. STOCKLIN, Atheris, Genève

15h45 - 17h45 : **Les amphibiens venimeux**

J. LESQUIRE, Muséum

Mardi 25 janvier 2011

09h00 - 10h45 : **Les serpents : anatomie de l'appareil venimeux**

J.-P. GASC, Muséum

11h00 - 12h00 : **Visite du vivarium de la ménagerie ou des collections**

(1/2 groupe)

14h00 - 15h00 : **Visite du vivarium de la ménagerie ou des collections**

(1/2 groupe)

15h30 - 17h00 : **Les serpents : systématique moléculaire**

N. VIDAL, Muséum

Mercredi 26 janvier 2011

09h00 - 11h30 : **Biologie - Comportements des serpents**

X. BONNET, CNRS, Villiers-en-Bois

14h00 - 16h15 : **Composition et mode d'action des venins de serpents Viperidae**

F. DORANDEU, CRSSA, Grenoble

16h30 - 17h30 : **Les mammifères venimeux et les oiseaux vénéneux**

P. BOUSSES, Muséum

Judi 27 janvier 2011

09h00 - 12h00 : **Épidémiologie et clinique des envenimations ophidiennes**

J.-P. CHIPPALUX, IRD, Cotonou

14h00 - 15h30 : **Immunothérapie des envenimations ophidiennes**

M. SORIKINE, clinique du Val d'Yerres, Yerres

15h45 - 17h15 : **Composition générale et mode d'action des venins de serpents Elapidae**

D. SERVENT, CEA

Vendredi 28 janvier 2011

09h00 - 10h15 : **Anticorps recombinants neutralisants**

P. BILLAUD, Muséum et UFR pharmacie, Paris-Sud

10h30 - 12h15 : **Les Atractaspidae : biologie et venins**

F. DUCANCEL, CEA

14h00 - 15h15 : **Inhibiteurs naturels des PLA₂. Résistance naturelle aux venins**

G. FAURE, Institut Pasteur, Paris

15h30 - 17h00 : **Synthèse et conclusion**

J.-P. CHIPPALUX, IRD, Cotonou

MODULE II - Responsables : Christine ROLLARD et Max GOYFFON

Arthropodes terrestres - Parasites

Lundi 14 mars - Vendredi 18 mars 2011

Lundi 14 mars 2011

09h00 - 09h15 : **Accueil**

09h30 - 10h30 : **Présentation des arthropodes**

C. ROLLARD, Muséum

10h45 - 12h15 : **Venins d'arthropodes et spectrométrie de masse**

C. GUETTE, Angers

14h00 - 16h30 : **Les insectes hyménoptères**

C. VILLEMANT et J. WEULERSSE, Muséum

16h45 - 17h30 : **Les venins d'hyménoptères**

M. GOYFFON, Muséum

Mardi 15 mars 2011

09h00 - 12h15 : **Les insectes piqueurs autres que les hyménoptères**

P. BOURDEAU, Oniris, Nantes

14h00 - 15h30 : **Les protistes. Les vers parasites. Effets venimeux**

P. BOURDEAU, Oniris, Nantes

15h45 - 17h45 : **Composition et activités biologiques de la salive des diptères**

V. CHOUVET, Institut Pasteur, Paris

Mercredi 16 mars 2011

09h00 - 12h30 : **Les myriapodes : systématique, biologie et fonction venimeuse**

J.-J. GEOFFROY, CNRS et Muséum

14h00 - 16h15 : **Les acariens : systématique, biologie et fonction venimeuse (I)**

R. CHERMETTE, ENV, Maisons-Alfort

16h30 - 17h30 : **Les acariens : systématique, biologie et fonction venimeuse (II)**

R. CHERMETTE, ENV, Maisons-Alfort

Judi 17 mars 2011

09h00 - 12h30 : **Les araignées : systématique, biologie, répartition, espèces dangereuses**

M.-L. CÉLÉRIER et C. ROLLARD, Muséum

14h00 - 15h15 : **Venins d'araignées et canaux ioniques**

S. DIOCHOT, CNRS, Sophia Antipolis

15h30 - 17h45 : **Les scorpions : systématique, biologie, répartition**

R. STOCKMANN, Paris

Vendredi 18 mars 2011

09h00 - 12h00 : **Les venins de scorpions**

C. LEGROS, Angers

14h00 - 16h15 : **Aranéisme - Scorpionisme**

M. GOYFFON, Muséum

MODULE III - Responsables : Christine ROLLARD et Nadia AMÉZIANE

Faune marine - Écosystèmes marins

Lundi 16 mai - Vendredi 20 mai 2011

Lundi 16 mai 2011

09h00 - 10h30 : **Panorama de la faune venimeuse et vénéneuse de la mer Méditerranée**

S. BAGHDIGUIAN, Montpellier

10h45 - 12h00 : **L'électrophysiologie comme méthode d'étude des biotoxines d'origine marine**

C. MATTEI, Angers

14h00 - 17h00 : **Les cnidaires**

M. GUILLAUME, Muséum

Mardi 17 mai 2011

09h00 - 10h30 : **Les mollusques**

P. FAVREAU, Atheris, Genève

10h45 - 12h30 : **Venins de cônes : diversité de leurs peptides et cibles moléculaires**

J. MOICO, CNRS, Gif-Sur-Yvette

14h00 - 15h45 : **Les mollusques bivalves toxiques**

P. LASSUS, IFREMER, Nantes

16h00 - 17h00 : **Les annélides**

T. MEZIANE, Muséum

Mercredi 18 mai 2011

09h00 - 12h00 : **Les poissons venimeux**

F. GOUDEY-PERRIÈRE, UFR pharmacie, Châtenay-Malabry

14h00 - 15h30 : **Les poissons venimeux (suite)**

F. GOUDEY-PERRIÈRE, UFR pharmacie, Châtenay-Malabry

15h45 - 17h00 : **Les bryozoaires**

N. AMÉZIANE et J.-L. D'HONDT, Muséum

Judi 19 mai 2011

09h00 - 11h00 : **Les éponges et les ascidies**

M.-L. BOURGUET-KONDRACKI, Muséum

11h15 - 12h45 : **Les échinodermes**

N. AMÉZIANE, Muséum

14h00 - 17h00 : **Ichtyotoxines. Toxines ciguatériques et ciguatera**

P. BOURDEAU, Oniris, Nantes

Vendredi 20 mai 2011

09h00 - 09h45 : **Intoxications par consommation de tortues marines**

J. LESQUIRE, Muséum

10h00 - 12h00 : **Les serpents marins (cours suivi d'un film)**

I. INEICH, Muséum

14h00 - 16h00 : **Les serpents marins (suite)**

I. INEICH, Muséum



Renseignements, inscriptions et coordination :

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CONSTITUTION AND BY-LAWS OF THE INTERNATIONAL SOCIETY ON TOXINOLOGY

ARTICLE I

NAME

Section 1. **Name.** The name of this organization shall be the INTERNATIONAL SOCIETY ON TOXINOLOGY.

ARTICLE II

OBJECT

The object of the Society is to advance knowledge on the properties of poisons, toxins and antitoxins derived from animals, plants and microorganisms, and to bring together those scholars interested in these substances through a common Society.

ARTICLE III

NOT FOR PROFIT CLAUSE

The assets and income of the organisation shall be applied solely in furtherance of its above-mentioned objects and no portion shall be distributed directly or indirectly to the members of the organisation except as bona fide compensation for services rendered or expenses incurred on behalf of the organisation.

ARTICLE IV

MEMBERS

- Section 1.* The Society shall consist of Members and Associate Members and Student Members.
- Section 2.* Persons who have conducted and published meritorious original investigations in toxinology shall be eligible for membership to the Society.
- Section 3.* Persons who do not qualify for membership but are working or interested in the field of toxinology shall be eligible for associate membership.
- Section 4.* Persons who are registered students studying an aspect of toxinology shall be eligible for student membership.
- Section 5.* *A.* Nominations for membership shall be made by a Member of the Society on forms provided by the Secretary. The Member proposing a candidate must upon request submit to Council a letter in support of the candidate.
B. Applications for associate membership shall be submitted by the applicant on forms provided by the Secretary. Nomination by a Member of the Society is not required.
- Section 6.* The Secretary will, on request of a Council Member, circulate details of all such applications to all Council Members. After consideration these Council Members may effect election and the Secretary will then inform the Member of such election. The Secretary may be delegated by Council to determine, on Council's behalf, if an application can be approved and effect election. A list of all members, including associate and student members, will be made available to all Members of the Society, not less than once a year.
- Section 7.* Failure of a Member or Associate Member to pay the annual assessment for two successive years constitutes forfeiture of membership. The Member may be reinstated by majority vote of the Executive Council upon payment of the full amount of the assessment due.

Section 8. **Dues.** Each Member and Associate Member shall pay annual dues as be prescribed by the Council, and as approved by the membership at the general meeting.

ARTICLE V ANNUAL MEETING

There shall be a regular, formal “annual” meeting of the Society which, whenever possible, shall include a meeting of the Council. The meeting shall be scheduled to occur once each year, except where Council decides that for practical reasons given the international membership of the Society, a meeting must be delayed beyond one year, but such a delayed meeting must be held within two years of the previous meeting. The meeting will be held at a time and place prescribed in the ByLaws, or by notice mailed to each Member at least 90 days before the date of the meeting; the notice shall state the time, place, and agenda for the meeting. The Council has the right to postpone or cancel the annual meeting for one year if deemed necessary.

ARTICLE VI COUNCIL

Section 1. The Council shall consist of the elected officers, the immediate past president, the current presidents and secretaries of the Regional Sections, the editor and assistant editors of *Toxicon*, and six Members elected from the membership. The six individuals elected by the membership shall include at least one Member from each Region of the Society. The President shall act as Chairman of the Council.

Section 2. The Council shall meet at least once each year at a time and place designated by the President and shall recommend the dues of the membership. The meeting may be at a physical place, or virtual place such as through a teleconference or similar electronic meeting system. The Council is authorized to accept any donations of cash or property, voluntarily made to further the purpose of the Society. Greater than one half of the members of the Council shall constitute a quorum for all purposes.

Section 3. The members of the Council, excluding the officers, shall serve for a term of three years and shall not be eligible for re-election for the two years immediately following their term of office. The Council is empowered to appoint Members to fill any vacancy that may occur.

Section 4. The Council is empowered to co-opt any member, including an associate or student member, to serve on Council for a specific purpose, up to a maximum of 3 such co-opted members, but co-opted members shall not have voting rights on Council.

ARTICLE VII ELECTED OFFICERS

Section 1. **Number.** The officers of the Society shall be a President, a President-Elect, and a Secretary-Treasurer.

Section 2. **Election.** The officers of the Society shall be elected by a majority vote of the Members in a ballot by electronic or other distribution means, and will serve for a term of three years. Their term of office will begin immediately after the first World Congress (International Congress) following their election.

The President-Elect shall assume the office of the President at the end of the former regular term of office or at any time the office of the President becomes vacant. The President may succeed himself as President for the following term to a maximum of two consecutive terms. The Secretary-Treasurer may be re-elected for further terms as agreed by Council.

*Section 3. **Vacancies.*** Any vacant office of the Society, other than that of the President, may be filled by a Member elected at the next Society meeting. During the intervals between the meetings of the Society, the Council may elect an officer to fill a vacancy, and the officer so elected shall serve until the next meeting of the Society.

ARTICLE VIII COMMITTEES

*Section 1. **Nomination Committee.*** The Nomination Committee appointed by the President shall consist of three Members of the Society, including one member of the Council who is not an officer, and shall serve for a term of three years. The Nomination Committee shall present their recommendations for officers and members of the Council of the Society to the President. Any three Members of the Society may file a nominating petition with the President recommending other nominees. Such petitions shall be filed not less than 30 days before the “annual” meeting at which elections are to be held.

*Section 2. **Credentials Committee.*** Council is empowered to create and dissolve, as it determines, a Credentials Committee to undertake assessment of applications for Membership on behalf of the Secretary and Council. The Committee shall be elected by the Council and shall serve for a term of three years.

*Section 3. **Other Committees.*** Other Committees of the Society may be constituted for the promotion of the objectives of the Society, and shall consist of a limited number of Members, with their number, jurisdiction, and tenure determined by Council.

ARTICLE IX AMENDMENT OF CONSTITUTION

This Constitution may be amended at any meeting of the Society by the affirmative vote of a majority of the Members present in person or represented by proxy provided that notice of the proposed amendment is given to the membership at least 90 days before the meeting at which the amendment is offered.

ARTICLE X ADOPTION AND AMENDMENT OF BY-LAWS

By-Laws may be adopted, amended, or rescinded at any meeting of the Society by the affirmative vote of a majority of the Members present or represented by proxy provided that notice of the proposed actions is given to the membership at least 90 days before the meeting where such action is to be considered.

ARTICLE XI

THE EFFECTIVE DATE OF THE CONSTITUTION This Constitution will be deemed to be effective from the date of most recent revision. The most recent revision was approved on September 15th, 2011, in accordance with the rules and articles of this Constitution and the Society.

ARTICLE XII DISSOLUTION CLAUSE

In the event of the Society being dissolved, the amount that remains after such dissolution and the satisfaction of all debts and liabilities shall be transferred to another organisation with similar purposes and which has rules prohibiting the distribution of its assets and income to its members.

BY-LAWS-ARTICLE I

MEMBERS AND MEETINGS OF MEMBERS

- Section 1.* **General meeting.** The general meeting shall be held at a time and place approved by the Society during a previous general meeting, regularly at the World Congresses. If a time or place for the meeting has not been prescribed, it will be determined by the Council. The Council shall have power to change the time or place of a meeting when circumstances so require.
- Section 2.* **Special meetings.** Special meetings of the Society may be called at any time by the President at the request of the Council, or on receipt of a written request of not less than one-third of the Members.
- Section 3.* **Notice of meetings.** Notice of the time, place, and purpose or purposes of meetings of the Society shall be given to the Members by electronic or other distribution means at least 90 days before the meeting.
- Section 4.* **Quorum.** At any general or special meeting of the Society, fifteen members must be present or represented by proxy to constitute a quorum. A meeting may be adjourned by vote of a majority of the members present.
- Section 5.* **Voting.** At every meeting of the Society each Member shall be entitled to one vote in person or represented by proxy. The proxy shall be duly appointed by instrument in writing subscribed by the Member appointing the same and bearing date not more than 11 months prior to the meeting, unless said instrument provided for a longer period.
- Section 6.* **Business of the general meeting.** The business of the general meeting of the Society shall be:
- (a) to elect officers and members of the Council as prescribed by the Constitution;
 - (b) to determine the time and place for the next general meeting;
 - (c) to fix the annual dues;
 - (d) to consider the annual financial statement and balance sheet presented by the Council and to arrange for any action therewith as seems appropriate;
 - (e) to consider reports of the Council and Committees, and motions relating to the adoption of such reports, either in whole or in part, and to arrange for such action to be taken thereon, if appropriate and
 - (f) to consider any resolutions that can properly be considered to affect the purpose of the Society and its membership.

BY-LAWS-ARTICLE II

COUNCIL

- Section 1.* **Meetings.** The Council shall meet at each general meeting for the purpose of transaction of business, and if a majority of the Council be present, no prior notice of such meeting need be given. Special meetings may be held at the call of the President, or upon the written request of four members of the Council, and shall be called by the Secretary/Treasurer.

- Section 2.* **Notice of meetings.** Notice of all meetings of the Council shall be given by electronic or other distribution means at least 15 days before the meeting.
- Section 3.* **Chairman.** At all meetings of the Council the President, or in his absence the President-Elect, shall preside.
- Section 4.* **Quorum.** At all meetings of the Council the act of a majority of those Members present shall be the act of the Council. In the absence of a quorum of the Council at a regular meeting of the Society and when it becomes apparent that decisions vital to the Society are necessary, the Editorial Board of *Toxicon*, in coordination with the Council Members, shall make the necessary decisions.

BY-LAWS-ARTICLE III ANNUAL AND FINANCIAL REPORTS

The Council shall submit annually to the Society for adoption and approval a report on the general state and proceedings of the Society for the past year, a balance sheet and financial statement for the past year.

BY-LAWS-ARTICLE IV CUSTODY OF PAPERS, ADDRESSES AND REPORTS

All papers, addresses and reports read before the Society, or accepted by the Society, shall be lodged with the President and become the property of the Society. Publications of these reports in the official Journal of the Society, or in any other way, may be urged by the direction of the Council or appropriate Committee.

BY-LAWS-ARTICLE V OFFICERS OF THE SOCIETY

- Section 1.* **Duties.** The officers of the Society shall perform the duties usually performed by such officers, together with such duties as shall be prescribed by the Constitution of ByLaws or by the Society or Council.
- Section 2.* **The President.** The President shall preside at all meetings of the Society and meetings of the Council. The President shall be an *ex officio* member of all committees, except the Nomination Committee. The President shall have general charge and supervision of the business and affairs of the Society.
- Section 3.* **The President-Elect.** At the request of the President, or in the event of his absence or disability, the President-Elect at any time and from time to time may perform any or all duties of the President.
- Section 4.* **The Secretary-Treasurer** shall: 1) attend to the giving of all notices of the Society; 2) have custody of the seal of the Society and all of its funds and securities, subject to such regulations as may be imposed by the Council; 3) make such payments in behalf of the Society, subject to the control of the Council; 4) enter regularly into the books of the Society full and accurate account of all money received and paid, or obligations incurred in behalf of the Society, and shall exhibit such books at all reasonable times to any Member of the Society on written request to the office of the Society; 5) provide a report on the financial situation of the Society at each general meeting; 6) may be required to give bond for the faithful performance of his duties should the Council advise.

BY-LAWS-ARTICLE VI LIABILITY OF COUNCIL MEMBERS AND OFFICERS

Each Council member or officer, or former Council member or officer of the Society, shall be indemnified by the Society against expenses actually and necessarily incurred by him in connection with the defense of any action, suit or proceeding in which he is made a party by reason of his being or having been a Council member or an officer of the Society, except in relation to matters as to which he shall be adjudged in such action, suit or proceeding to be liable for negligence or misconduct in the performance of his duties as such Council member or officer.

BY-LAWS-ARTICLE VII

CONTRACTS

The Council, except as provided in the By-Laws may authorize any officer or officers, agent or agents, to enter into any contract or execute and deliver any instrument in the name of and on behalf of the Society, and such authority may be general or confined to specific instances; and unless so authorized by the Council, no officer, agent or employee shall have power or authority to bind the Society by any contract or engagement or to pledge its credit or render it liable pecuniarily for any purpose or amount.

BY-LAWS-ARTICLE VIII

FISCAL YEAR

The fiscal year of the Society shall begin on the first day of January in each year and shall end on the thirty-first day of the following December.

BY-LAWS-ARTICLE IX

PUBLICATIONS

The official journal of the Society will be *Toxicon*. The Editors shall be elected by the Council for an indefinite period. The Newsletters will be edited by the Secretary-Treasurer of the Society in order to inform the membership on current Society affairs.

BY-LAWS-ARTICLE X

REDI AWARD

In recognition of distinguished work in the field of toxinology the 1ST confers the Redi Award every third year at successive international meetings. The Redi Award consists of an illuminated manuscript describing the merits of the awardee, a framed form of the award and a financial contribution to help cover expenses associated with attendance at the meeting.

The recipient is selected by the Redi Award Committee (R.A.C.) which consists of the editor of *Toxicon* (chairman), past and present officers of the Society and former Redi awardees. It is the duty of the chairman to request that members of the Committee propose nominations one year in advance of the next presentation. A list of all persons previously nominated and those being currently proposed is then sent to all members of the R.A.C., who then select three names, noting their first, second and third choices.

The chairman will award 3 points for 1st place votes, 2 points for 2nd place and 1 point for third place. The awardee is chosen on the basis of the largest number of points, but must receive 25% of the total points counted.

If no candidate reaches this level there shall be a second ballot between the three highest candidates. (Or: If 2 or more candidates receive approximately the same number of votes, a second ballot will be circulated. In the event two or more candidates receive the same number of votes in the final ballot, or a difference of less than three, the award will be shared equally.)

BY-LAWS-ARTICLE XI
REGIONAL SECTIONS

To promote the aims of the Society and to encourage local participation in the discipline of toxinology Regional Sections may be established. These must be approved by the Council. At Regional meetings a president, a secretary (and if necessary up to three additional members as officers) may be selected. They will serve a term of 5 years, but can be re-elected. The officers of a Regional Section will be responsible for organizing symposia in those years in which there is no World Congress of the Society.

Regional Sections may not collect fees or other monies for the Section. All financial affairs will be the responsibilities of the Secretary/Treasurer of the Society. Exceptions due to special circumstances should be discussed with the Council.

Members of 1ST are automatically members of a Regional Section in their specific region, provided their financial obligations to the Society are current.



Prof. Findlay Russell in his office at the University of Arizona, Tucson, in October 1983.

NOTICE RE DEATH OF FINDLAY RUSSELL

Several IST members who knew Findlay well are working on an obituary to appear in *Toxicon* and or the IST Newsletter. As that is not yet available, the following has been included in this Newsletter, given the great importance of Findlay to the IST and especially the establishment of our Society.

OBITUARY FROM ARIZONA DAILY STAR, August 24th, 2011

Kindly provided by Dr. Leslie Boyer

Findlay Ewing Russell died peacefully on a hot Sunday afternoon, August 21, 2011, days short of his 92nd birthday, in Phoenix, Arizona. Born in San Francisco in 1919 to devoted parents, William and Mary Jane Russell, Findlay spent a lifetime fulfilling his passions. Although his health suffered in his later years, he still felt he wasn't yet ready to leave this earth. He wanted to do more in his fields of study and only his declining strength prevented him from doing so. Dr. Russell leaves behind an extraordinary legacy in science, particularly in the fields of toxicology and toxinology. If he could, he would continue to explore and expand the knowledge and work in this field which began in the 1950s at Caltech and continued at USC where he served as the Director of the Laboratory of Neurological Research in Los Angeles. Findlay received his medical degree from Loma Linda University in 1952 and worked as a physician and neurosurgeon until war wounds restricted his dexterity. He had served as an army medic in World War II in the Okinawa Campaign where he received a Purple Heart and two Bronze Stars. Findlay was the first president and founding member of the International Society of Toxinology (*Toxicon*) and continued throughout his life to support the study of toxins and venomous animals. He is recognized as one of the pioneering scientists to progress polyvalent cro-talid antivenom for the use of snakebite envenomation. Findlay served as a professor of neurology, physiology and biology at USC for over 30 years. He was the author of numerous scientific articles, books and holds several patents in the field of medicine. Several species of arachnids are named after him. In addition to his medical degree, he held a PhD in English and was awarded an honorary degree in law from the University of Santa Barbara. Dr. Russell was a Fulbright scholar and was a visiting professor to numerous colleges and universities throughout the world, including Cambridge (England), Stefan Institute (Yugoslavia), University of Argentina (Buenos Aires) and the University of Cairo (Egypt). In 1974 Findlay was awarded the Skylab Achievement award for his work with NASA. In addition, Fin consulted for the World Health Organization, Doctors Without Borders and National Science foundation. Findlay received numerous awards and distinguished acknowledgments from his peers, most recently he was awarded the Loma Linda University Alumnus of the Year (2011) in California and the Findlay E. Russell Distinguished Citizen Award from the College of Pharmacology at the University of Arizona. For the last 15 years he worked at the School of Pharmacology at the University of Arizona where he leaves many colleagues and friends. Findlay was a renowned speaker who displayed a sharp wit. He was well respected by his peers and enjoyed robust discussions with his colleagues. He was also well known for his pranks. Fin shared a passion for steam engines, vintage cars, fishing and camping. He built his own home in his beloved Portal, Arizona where he spent much time enjoying the natural beauty of the high desert and collecting tarantulas, scorpions, spiders and rattlesnakes. Portal was his private retreat. Dr. Russell was a remarkable scientist and a proud father. He leaves five children, Christa Russell Cessaro (Robert), Sharon Russell Boyle (Chuck), Robin Russell (Paul Horne), Connie Lane (Larry) and Mark Russell (Dana). In addition he leaves ten grandchildren and one great-grandson. His younger sister, Patricia lives in Lincoln, California. His family is proud of his many accomplishments and believe that his greatest gift to the world was his work: To be able to live one's dream is a great and wonderful thing. Findlay E. Russell did this in his long and distinguished life. A private memorial will be held at a later time. Condolences can be sent to the Russell family, 25611 N. Moon Blossom Ln., Phoenix, AZ 85083. Remembrances can be made in his name to the Portal Fire and Rescue Station, Box 16331, Portal, Arizona, 85632.

NEW BOOK ON COLUBRID SNAKES

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 - 2.1 Basic Considerations Regarding Gland Structure and Function
 - 2.2 Overview of Hypotheses for the Evolution of Venom-Delivery Systems
 - 2.3 Theories Considering the Evolution of Canalculated Fangs and Enlarged Grooved Teeth
 - 2.4 Duvernoy’s Glands and Venom Glands: A Question of Semantics?
3. A Summary of the Toxinology of Duvernoy’s Secretions: A Brief Overview of the History of Colubrid Oral Secretion Research
4. Medically Significant Bites by “Colubrid” Snakes
 - 4.1 Typical Features of Documented Cases and Evidence-Based Risk
 - 4.1.1 Epidemiology of Bites from “Colubrid” Snakes
 - 4.1.2 Circumstances Associated with Species Capable of Inflicting Life-Threatening Envenoming
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 - 4.2.2 Genus *Philodryas* spp.: Background and General Features of Documented Bites
 - 4.2.3 Genus *Thamnophis* spp.: Background and General Features of Documented Bites
 - 4.2.4 Genus *Heterodon* spp.: Background and General Features of Documented Bites
 - 4.2.5 Genera *Hemorrhoids* spp., *Platyceps* spp., *Hierophis* spp., and *Coluber* spp.: Background and
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 - 4.3 Life-Threatening and Fatal Cases: “Venomous Colubrids” and Assessment of Evidence-Based Risk General Features of Documented Bites
 - 4.3.1 *Dispholidus typus*, *Thelotornis capensis*, and *Thelotornis kirtlandii*: Background and General Features of Documented Bites
 - 4.3.2 *Rhabdophis subminiatus* and *Rhabdophis tigrinus*: Background and General Features of Documented Bites
 - 4.3.3 Comparison of Major Features of Hazard Level 1 Colubrids (Figure 4.3) (*Dispholidus typus*, *Thelotornis capensis*, *Thelotornis kirtlandii*, *Rhabdophis tigrinus*, and *Rhabdophis subminiatus*)
 - 4.3.4 Proven Guilty Without a Trial: Three Additional Unsupported Reports of Fatal Outcomes after Bites by *Tachymenis peruviana*, *Oligodon arnensis*, and *Xenodon severus*
 - 4.4 Aberrant Cases and Representative Cases Without Clear Etiology: A Critical Assessment of Risk
 - 4.4.1 *Boiga irregularis*
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 - 4.4.5 *Platyceps (Coluber) najadum*: A Fatal Case of Progressive Neuropathy from a Colubrid Bite?
 - 4.4.6 *Hierophis (Coluber) viridiflavus*: A Case of Neurotoxic Colubrine Bite or a More Common Etiology?
 - 4.4.7 “Venomous” Bites by Nonvenomous Lizards?
 - 4.5 Pitfalls Noted in Documented Cases: Differentiating Perceived Versus Evidence-based Risk
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 - 4.6 Recommendations for Management of Medically Significant “Colubrid” Bites
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5. Summary and Conclusions

Appendix A: Representative Unverified Cases of Medically Significant “Colubrid” Bites Posted on the Internet

Appendix B: Representative Lethal Potency Ranges and Yields of Duvernoy’s Secretions and Venoms from Selected Non-Front-Fanged Colubroid Snakes

Appendix C: Strategies of Management of Gram-Negative Septicemia: Are There Lessons to Be Learned for Managing Venom-Induced Coagulopathies?

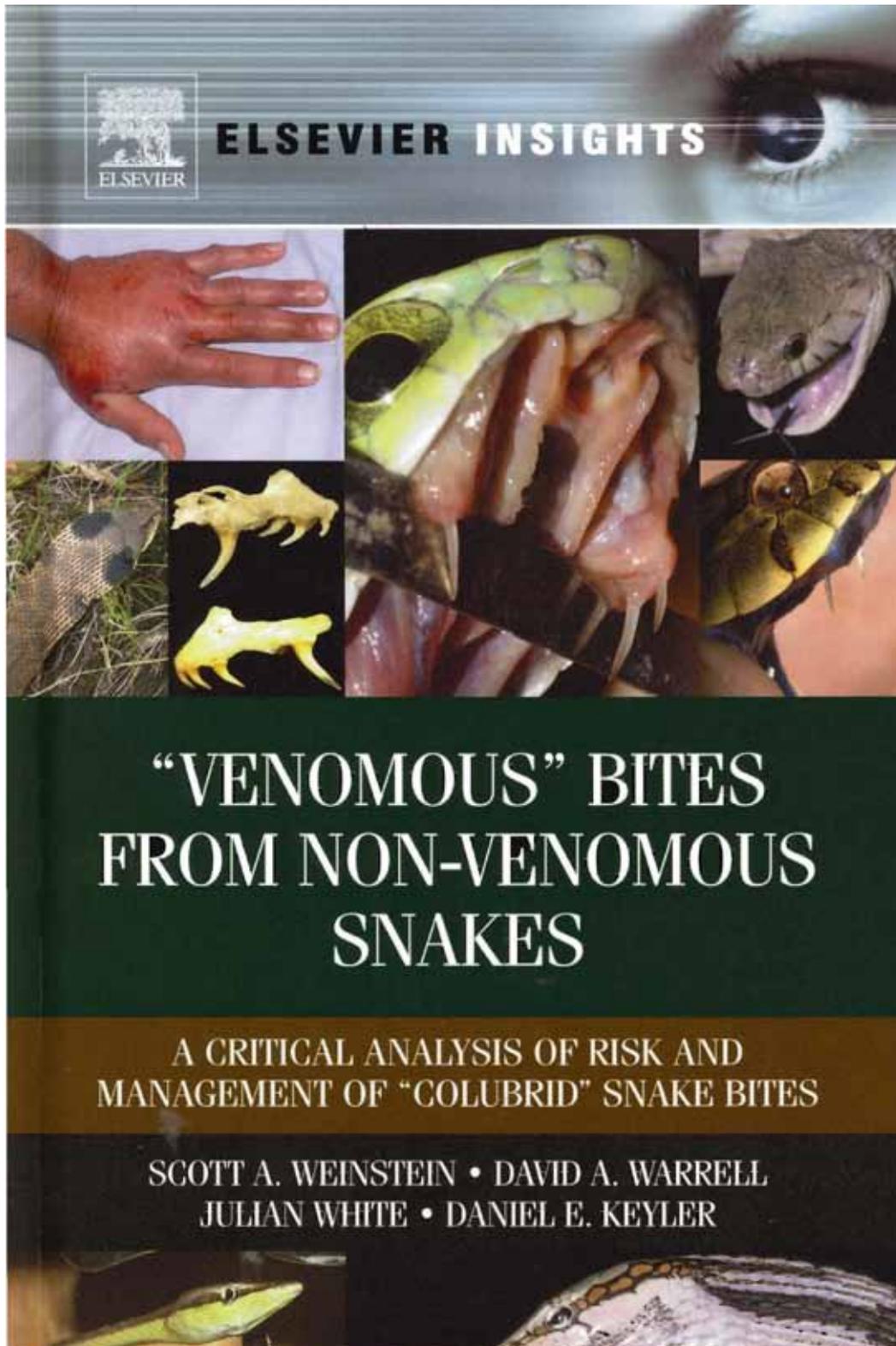
Appendix D: Legal Considerations Regarding Private Ownership of Venomous Snakes (Including Hazard Level 1 “Colubrids”): An Opinionated Essay

Appendix E: List of Osteological Specimens Examined at AMNH

Additional Recommended Reading

A Call for Cases

Bibliography





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Prod. No.	VENOM	(LD ₅₀ mg/kg, mice)	VENOM PRICE			
			1 mg	5 mg	25 mg	100 mg
SOCIAL WASPS		(LD ₅₀)				
Yellowjackets -- <i>Vespula</i>						
W-10	<i>V. pensylvanica</i>	(6.4)	50	225	1000	*
W-19	other species**		*			
Hornets -- <i>Vespa</i>						
W-20	<i>V. mandarinia</i>	(4.1)	50	225	1000	*
W-21	<i>V. tropica</i>	(2.8)	50	225	1000	*
W-29	others **		*			
Paper wasps -- <i>Polistes</i>						
W-30	<i>P. comanchus navajoe</i>	(5)	40	180	800	*
W-31	<i>P. flavus</i>	(3.8)	40	180	800	*
W-32	<i>P. canadensis</i>	(2.5)	50	225	*	
W-33	<i>P. erythrocephalis</i>	(1.5)	50	225	*	
W-39	<i>Polistes</i> sp. as available**		30	135	600	2100
New World Polybiine wasps						
W-40	<i>Brachygastra mellifica</i>	(1.5)	60	270	1200	*
W-50	<i>Synoeca septentrionalis</i>	(2.7)	60	270	1200	*
W-60	<i>Parachartergus fraternus</i>	(5)	70	300	1400	*
W-70	<i>Polybia sericea</i>	(6)	80	350	*	
W-71	<i>P. simillima</i>	(4.1)	80	350	*	
W-72	<i>P. occidentalis</i>	(5)	100	*		
W-80	<i>Agelaia myrmecophila</i>	(5.6)	140	*		
Old World Polybiine wasps						
W-90	<i>Belonogaster juncea colonialis</i>	(3)	80	350	*	
SOCIAL BEES						
Honey bees -- <i>Apis</i>						
B-10	<i>A. mellifera</i>	(2.8)	20	90	400	1400
B-11	<i>A. mellifera</i> Africanized bees	(2.8)	20	90	400	1400
B-12	<i>A. mellifera</i> queens		40	180	800	2800
B-13	<i>A. dorsata</i>	(2.8)	50	225	1000	3500
B-14	<i>A. cerana</i>	(3.1)	55	245	*	
B-19	others (<i>A. florea</i> , etc.)**		*			
Bumble bees -- <i>Bombus</i>						
B-20	<i>B. sonorus</i>	(12)	50	225	1000	*
B-21	<i>B. impatiens</i>	(12)	50	225	*	
B-29	other species**		30	*		

Prod. No.	VENOM	(LD ₅₀ mg/kg, mice)	VENOM PRICE			
			1 mg	5 mg	25 mg	100 mg
ANTS -- FORMICIDAE		(LD ₅₀)				
Pogonomyrmex -- harvester ants						
A-10	<i>P. barbatus</i>	(0.6)	50	225	1000	3500
A-11	<i>P. maricopa</i>	(0.12)	60	270	1200	4200
A-12	<i>P. occidentalis</i>	(0.5)	70	315	1400	*
A-13	<i>P. rugosus</i>	(0.7)	50	225	1000	3500
A-15	<i>P. desertorum</i>	(0.7)	160	*		
A-19	<i>Pogonomyrmex</i> sp. as available		45	200	900	3200
Myrmecia -- bull ants						
A-20	<i>M. gulosa</i>	(0.18)	60	270	1200	4200
A-21	<i>M. tarsata</i>	(0.18)	60	270	1200	*
A-22	<i>M. browni</i>	(0.18)	70	315	*	
A-23	<i>M. rufinodis</i>	(0.35)	70	315	*	
A-24	<i>M. simillima</i>	(0.21)	70	315	*	
A-25	<i>M. pilosula</i>	(5.7)	100	*		
A-30	<i>Pachycondyla (Neoponera) villosa</i>	(7.5)	60	270	*	
A-31	<i>P. (Neoponera.) apicalis</i>	(> 16)	70	*		
A-32	<i>P. crassinoda</i>	(2.8)	80	*		
A-33	<i>P. (Megaponera) foetens</i> (Metabele ant)	(130)	70	315	*	
A-34	<i>P. (Paltothyreus) tarsatus</i> (stink ant)	(64)	50	225	1000	3500
A-35	<i>P. (Bothroponera) strigulosa</i>	(9)	70	*		
A-36	<i>Termitopone commutata</i>	(10)	70	315	1400	*
A-40	<i>Platythyrea lamellosa</i>	(11)	70	315	*	
A-50	<i>Diacamma</i> sp.**	(35)	100	450	*	
A-60	<i>Dinoponera gigantea</i>	(11)	60	270	1200	4200
A-70	<i>Paraponera clavata</i> (bullet ant)	(6.0)	60	270	1200	4200
A-80	<i>Ectatomma tuberculatum</i>	(1)	60	270	*	
A-81	<i>E. quadridens</i>	(17)	60	270	*	
A-90	<i>Odontomachus</i> sp.**	(33)	60	275	*	
A-110	<i>Tetraoponera</i> sp.**	(.35)	140	600	*	
A-120	<i>Streblognathus aethiopicus</i>	(8.0)	80	360	*	
SOLITARY WASPS AND BEES						
Spider wasps -- Pompilidae						
SW-10	<i>Pepsis</i> sp.**	(65)	60	270	1200	4200
Mutillid wasps -- Mutillidae						
SW-20	<i>Dasymutilla</i> sp.**	(71)	70	315	1400	*
SW-39	Other wasps (Scoliidae, Tiphiidae, Sphecidae, Eumenidae, etc.)**		*			
Carpenter bees -- <i>Xylocopa</i>						
SB-10	<i>X. californica</i>	(21)	50	225	1000	*
SB-11	<i>X. veripuncta</i>	(33)	55	245	*	
SB-20	<i>Proxycopa rufa</i>	(11)	100	450	*	
SB-39	Other bees**		*			

*Inquire for prices and availability.

**Available species provided; exact determinations usually included.

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Northern Copperhead - <i>Agkistrodon contortrix mokasen</i>	\$50 ⁰⁰ /1g	\$33 ⁷⁵ /500mg		
Trans-Pecos Copperhead - <i>Agkistrodon contortrix pictigaster</i>	\$75 ⁰⁰ /1g	\$50 ⁶³ /500mg		
Florida Cottonmouth - <i>Agkistrodon piscivorus conanti</i>	\$60 ⁰⁰ /1g	\$40 ⁵⁰ /500mg		
Western Cottonmouth - <i>Agkistrodon piscivorus leucostoma</i>	\$56 ⁰⁰ /1g	\$37 ⁸⁰ /500mg		
Eastern Diamondback Rattlesnake - <i>Crotalus adamanteus</i>	\$50 ⁰⁰ /1g	\$33 ⁷⁵ /500mg		
Western Diamondback Rattlesnake - <i>Crotalus atrox</i>	\$45 ⁰⁰ /1g	\$30 ³⁸ /500mg		
Sonoran Sidewinder - <i>Crotalus cerastes cercobombus</i>	\$125 ⁰⁰ /1g	\$84 ³⁸ /500mg		
Timber Rattlesnake - <i>Crotalus horridus</i>	\$70 ⁰⁰ /1g	\$47 ²⁵ /500mg		
Mottled Rock Rattlesnake - <i>Crotalus lepidus lepidus</i>	\$125 ⁰⁰ /1g	\$84 ³⁸ /500mg		
Blacktail Rattlesnake - <i>Crotalus molossus molossus</i>	\$400 ⁰⁰ /1g	\$270 ⁰⁰ /500mg	\$72 ⁹⁰ /100mg	\$49 ²¹ /50mg
Great Basin Rattlesnake - <i>Crotalus oreganus lutosus</i>	\$125 ⁰⁰ /1g	\$84 ³⁸ /500mg		
Grand Canyon Rattlesnake - <i>Crotalus oreganus abyssus</i>	\$250 ⁰⁰ /1g	\$168 ⁷⁵ /500mg	\$45 ⁵⁶ /100mg	\$30 ⁷⁵ /50mg
Texas Coral Snake - <i>Micrurus tener tener</i>	\$2000 ⁰⁰ /1g			
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Northern Pacific Rattlesnake - <i>Crotalus oreganus oreganus</i>	\$400 ⁰⁰ /1g	\$270 ⁰⁰ /500mg	\$72 ⁹⁰ /100mg	\$49 ²¹ /50mg
Mohave Rattlesnake - <i>Crotalus scutulatus scutulatus</i> (A).....	\$250 ⁰⁰ /1g	\$168 ⁷⁵ /500mg	\$45 ⁵⁶ /100mg	\$30 ⁷⁵ /50mg
Mohave Rattlesnake - <i>Crotalus scutulatus scutulatus</i> (B).....	\$1000 ⁰⁰ /1g	\$675 ⁰⁰ /500mg	\$182 ²⁵ /100mg	\$123 ⁰² /50mg
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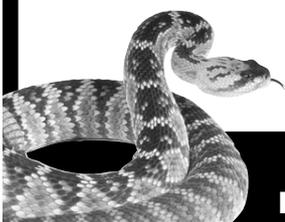
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<i>Austrelaps labialis</i>	\$700	\$3,000
<i>Bitis arietans</i>	\$70	\$300
<i>Bitis rhinoceros</i>	\$75	\$340
<i>Bitis nasicornis</i>	\$75	\$340
<i>Bothriechis schlegelii</i>	\$200	\$850
<i>Crotalus adamanteus</i>	\$100	\$450
<i>Crotalus unicolor</i>	\$200	\$900
<i>Crotalus vegrandis</i>	\$160	\$700
<i>Hoplocephalus stephensii</i>	\$220	\$900
<i>Hoplocephalus bitorquatus</i>	\$220	\$900
<i>Naja kaouthia</i>	\$60	\$250
<i>Naja melanoleuca</i>	\$50	\$200
<i>Naja mossambica</i>	\$60	\$250
<i>Naja siamensis</i>	\$60	\$250
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<i>Agkistrodon contortrix phaeogaster</i>	\$70.00
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- CITES papers available on all CITES listed species. Extra costs apply for permits and inspection fees.
- Locale information available for most species.
- Payment may be made by check, money order, wire transfer, PayPal, MC, Visa, and Discover. All prices are listed per gram in US dollars. Shipping and packing charges are extra.
- Discounts on standing orders and orders of 10g or more.
- KRZ makes every effort to stay current regarding nomenclature and taxonomy. Our listing reflects current trends, with former names in parentheses. If you have questions, please feel free to contact us.
- Scale clippings for DNA analysis available at an extra charge. Please contact us for more information.

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