



UPCOMING MEETINGS

Pan-American Section IST

Hotel Real International, San Jose, in Costa Rica, April 18-22, 2010. Details available, both on the IST website and on a site for this Congress, at panamist.icp.ucr.ac.cr. The contact person for this meeting is Prof. Gutierrez, JOSE.GUTIERREZ@ucr.ac.cr.

Asia-Pacific Section IST

The next meeting of the Asia-Pacific Section of the IST will be in Vladivostok, Russia, in September 4-8, 2011, at the Conference Hall of the Primorsky Region Administration (details to be posted later). Current contact person is Marina Tretyak. The main topics are; toxin structure & mode of action, proteomics & genomics, drug development, clinical toxicology, toxins miscellaneous. Organising Committee Chairmen are; Prof. Eugene Grishin and Prof. Valentin Stonik..

European Section IST

September 11-15, 2011, Valencia, Spain. For details contact catedrasg@cac.es

IST World Congress

Hawaii, 2012, details pending.

The NP2D (Natural Peptides to Drugs, <http://www.np2d.com>)

congress will take place in Zermatt (Switzerland) from April 11th to 14th, 2010. For further information, contact Dr. Reto Stocklin at reto.stocklin@atheris.ch.

FROM THE IST EXECUTIVE

In the next few weeks toxinologists will have the opportunity to participate in two exciting meetings; the Pan-American Section meeting in Costa Rica and the Natural Peptides To Drugs meeting in Zermatt. The former will again showcase the developments in toxinology in the "New World". The latter will highlight the commercial pharmaceutical prospects for toxinology.

These meetings highlight progress in toxinology, but we also face challenges, not least to weld the toxinology community, through IST, into a cohesive community. Still, too many colleagues working in toxinology remain outside the IST. Every member should be trying to encourage these colleagues to join with us. Our membership is our strength and if it falls, it is our weakness. The IST President similarly views this issue of IST membership as crucial.

We need to understand what attracts members to IST and what makes them either disinclined to join, or let their membership lapse. I worry that too many national toxinology societies are garnering local membership for their organisation, but this is not translating into membership of IST as well. In the past IST has been supportive of national toxinology groups, but it is vital for the global health of toxinology that all these toxinology workers be IST members as well. How can we facilitate that happening. Please let Gopal and I know.

Lastly, as noted in an earlier email to the members, the last few months has been difficult and too busy for me, hence the delay with sending this Newsletter. Please accept my apologies for this.

Julian White, Secretary/Treasurer, IST

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MEMBERSHIP ANNOUNCEMENTS

The IST Membership Database has been updated, a process that will be ongoing. Please let the IST Secretary know if you change any of your contact details (email, phone, address etc). It is hoped that the Membership Database can be made available to all IST members via the IST website, with password protection for access.

Because of file size, the Newsletter may be too big for some member's email accounts and so it may be more practical to post the Newsletter on the IST website and just email members advising it is ready to download, via a link.

Last Newsletter I raised the issue of access to email address-

es by non IST members. Members may prefer to keep email addresses more secure, using the new membership online database, once this is operational, rather than list addresses in the publicly accessible Newsletter. As IST Secretary, I will take direction from the membership on this issue and will not include members email addresses in the Newsletter until and unless it is clear that is what most members want. So far, though, IST members have not told me what they want regarding this matter.

Julian White
Secretary/Treasurer IST

IST STUDENT MEMBERS - THIS IS FOR YOU - ACTION PLEASE!

An announcement for the formation of a Special Interest Group for Student Toxinologists

Students have been an important and valued part of IST since the inception of the Society in 1962. To emphasize the importance of the role of students in the IST, the creation of a Special Interest Group for Student Toxinologists has been proposed.

The aims of the Special Interest Group for Student Toxinologists would include: to increase opportunities for students to network with possible collaborators and employers; to work with the Executive and Council, IST to ensure students are included and supported in future decisions of the IST; and to train students to become contributing members to the IST and other professional societies.

The IST is looking for student members interested in being a part of such a network, and for those students (preferably with experience with other organizations) who would like to be considered for leadership positions. Any students interested in participating in such a network should contact the following by email (please send your email to the Secretary, IST, with cc to the President, IST and to student member Maggie Gentz):

julian.white@adelaide.edu.au
antgopal@nus.edu.sg
m.gentz@uq.edu.au

IST Council 2009-2012

President: P Gopalakrishnakone
Secretary/Treasurer: J White
President Elect: A Harvey
Toxicology Editor: A Harvey
President European Section: J Tytgat
Secretary European Section: I Krizaj
President Pan-American Section: JM Gutierrez
Secretary Pan-American Section: B Lomonte
President Asia-Pacific Section: E Grishin
Secretary Asia-Pacific Section: vacant
General Councillors
Y Cury (Brazil)
L Possani (Mexico)
B Olivera (USA)
D Mebs (Germany)
G Nicholson (Australia)

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

MESSAGE FROM THE PRESIDENT (I.S.T)



Dear Fellow Toxinology Friends,
We are well into 2010, almost 1 year after the last world congress in Brazil when the new council took charge. Membership of IST expects the IST officials to make the necessary changes to the IST so that it will be very relevant to the present times and emerging problems relating to toxinology. Members should be active in discussing these issues by e-mails with officials of IST so that we

get regular feedback and based on the feedback the changes could be done. Therefore I urge all the members to raise issues and discuss it through e-mails and forums rather than to wait for world congress which comes only once in three years.

With the whole world concerned about global warming, climate change and preserving the biodiversity, I.S.T. also has a responsibility in utilizing the “natural” resources from where “natural toxins are derived and preserve them, rather than exploiting them.

Various committees and working groups have been established, such as “Nomenclature Committee” “Global Snake Bite Initiative (GSI)”, “Clinical Toxinology Network”, etc. The chairpersons of these groups should provide us with brief reports in the newsletter and this will be greatly appreciated by membership

I also urge the IST council members to promote I.S.T. activities in the region such as National Meetings and also to recruit new members and to organize student activities. Council members are also encouraged to write brief reports to the newsletter on their achievements and their vision to the region. We must also recognize council members who have contributed a lot to IST, such as “Certificate of Appreciation” or “Patron of IST” or by any other form. Please let me have your suggestions on this. This will encourage council members to take a very active role in IST matters and membership drive

All of us together can reenergize I.S.T. and make it to the next level in 2010.

Together we can achieve.

P.Gopalakrishnakone.

antgopal@nus.edu.sg

Email: antgopal@nus.edu.sg

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 Global Snakebite Initiative

Background

This important project is the first major undertaking resulting from the *Global Issues in Clinical Toxinology Conference*, held in Melbourne, Australia, November 2008. At this meeting, attended by stakeholders from all continents (except Antarctica), a steering committee was formed to move towards solutions for envenomed patients worldwide. It was considered by this meeting, attended by some senior IST members, that this process would best be promoted by close association with the IST, as a project under the IST banner. At the Asia-Pacific Section Congress in Vietnam in December 2008, a proposal was made by Prof. David Warrell, seconded by Prof. P Gopalakrishnakone (IST President), that "The Global Snakebite Initiative be formally endorsed as an official initiative of the IST." This was passed unanimously and confirmed unanimously at the IST World Congress in Recife, Brazil, March 2009. This important initiative is now officially a project of the IST. The Steering Committee, which contains a number of IST members, will produce a work plan and timeline to present to all IST members. A new website to promote the Initiative has been launched at www.snakebiteinitiative.org and it is to be hoped that this will progress to a major resource for the Initiative.

Global Snakebite Statistics

Recent research by Kasturiaratne et al, published in PLoS, has redefined global estimates of snakebite epidemiology. However, this is, to some extent, a "work in progress". One of the authors, Prof. Janaka de Silva (Sri Lanka) has kindly made available some of the data tables on which the study conclusions were based, with a "challenge" to IST members (and others) to provide more definitive data for each listed country. These tables will be listed on a separate page structure for the IST website (www.toxinology.org). All interested members are urged to peruse this information and contact Prof. de Silva if they have additional data that might be used to update the tables. This work may be considered as one section of the Global Snakebite Initiative.

An Update

Work on developing a Global Snakebite Initiative website (www.snakebiteinitiative.org) is continuing, and new content on the snakebite situation in India, Nepal and Nigeria will be com-

ing online before the 31st December, thanks to contributions from Drs Vijay Pillay (India), Sanjib Sharma (Nepal) and Abdul Habib (Nigeria). The website is likely to receive a large increase in traffic in January, with the publication of a position paper on snakebite, and the role of the GSI, due out in the *The Lancet* in the first weeks of the new year. Another paper is currently in press at *Toxicon*, and as soon as these two important publications are in print, we will provide links to the Journals from the GSI website. Anyone who is willing to take on a position as a country information contributor to the website is encouraged to contact David Williams (toxinologist@hotmail.com) who is currently coordinating the site content.

Emergency physician Dr Simon Jensen is interested in collating information on the present situation regarding first aid for snakebite, and the treatment of the local effects of snakebite, particularly by vipers and some cobra species. The aim of these two exercises is to enable a collaborative review of the current best practice in different countries and regions, so that GSI members can prepare a white paper on each topic for discussion at upcoming IST conferences, with the aim of producing practice guidelines for various regions of the world that can be made available freely through the website. Simon is eager to hear from anyone who would be interested and willing to collaborate with him to move this process forward. If you are able to make a contribution, please contact Simon by email (simondjensen@hotmail.com).

Finally, progress is being made in relation to determining how best to formally register the GSI as a charity NGO, so that funding for projects can be sought, and donations properly administered. A report will be submitted to GSI Committee members in February 2010, and hopefully there will be enough members present at the Pan-American IST meeting in Costa Rica next April, for this issue to be discussed and a resolution adopted that can then be presented to the IST Executive Committee for endorsement and approval.

David Williams on behalf of GSI

The Clinical Toxinology Initiative

The issue of specialist-level training for medical doctors, in the field of clinical toxinology, and credentialing of such training, was canvassed at the Global Issues in Clinical Toxinology Conference and again, through presentations, at the Asia-Pacific Section Congress in Vietnam. As a result a proposal was put by Prof. Julian White, seconded by Prof. Dietrich Mebs, that "The Asia-Pacific Section of the IST supports the development of a clinical toxinology initiative by the IST." This was passed unanimously and confirmed unanimously at the IST World Congress in Recife, Brazil, March 2009. This important initiative is now officially a project of the IST. A Steering Committee will be established and a report to IST members. The IST will now work towards establishing clinical toxinology as an accredited and recognised medical specialty.

As part of this process, Prof. White has had initial informal discussions with some "key players" in the medical toxicology field, in North America, Europe and Australia. While very early in the whole process, these discussions have been positive and encouraging. Similar positivity was evident in discussions with WHO personnel, although again these were informal and the WHO has not yet been approached to support this initiative.

One likely outcome of developing clinical toxinology under the banner of the IST will be an increase in clinician membership and resurgence of clinical papers and posters at IST meetings, alongside the more basic and applied toxin research. The latter will not be in any way devalued by development of IST involvement in clinical toxinology. It is intended these two aspects of toxinology will grow in partnership.

It should also be recognised that the IST membership has been active in clinical toxinology training for many years, most notably the long-standing French course run through the Paris Museum of Natural History (now in its 30th year - congratulations to Max Goyffon), the International Clinical Toxinology Short Course (held in Adelaide since 1997), and the Brazilian course. The latter hosted discussions on clinical toxinology training at the IST World Congress in Brazil, March 2009, thanks to the efforts of Profs. Baravierra and Haddad.

The International Clinical Toxinology Short Course was held in Adelaide, Australia, March 2-7, 2010 and was successful, with participants rating the Course highly. Dates for the next Course, likely in 2012, have not yet been determined. The faculty for this course has been expanded and this will provide a nucleus of committed individuals to start active development of a full clinical toxinology course, likely spanning multiple institutions and continents.

We would like to hear from clinicians with an active involvement treating clinical toxinology cases who are interested in becoming part of the process of developing and staging a global full course. If you fit this picture, please contact Prof. White at julian.white@adelaide.edu.au.

What we will likely require is a series of hospitals, each with a significant number of toxinology cases likely over a short time period, and with resources to host clinical toxinology trainees. This will provide trainees with direct exposure to and experience with treating actual toxinology cases and in a relevant local setting. It is envisaged that trainees will be fully qualified doctors, probably with higher-level qualifications in a specialty such as emergency medicine, intensive care medicine, or tropical medicine.

In parallel with this we need to develop close working relationships with key medical craft groups in individual countries, as these will be the local certifying bodies for the training scheme. Again, IST members who might fit this profile are invited to contact Prof. White.

We should not expect this process to deliver a solution quickly. It will take considerable time to set up both training facilities in selected locations, and the requisite national craft-group agreements. However, if set up appropriately, the scheme should be independent of any one key person and so have a likely long term future and viability.

Julian White



NEXT IST WORLD CONGRESS - HAWAII 2012

A local Hawaii organising executive has been formed to develop a plan for 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 can host a successful Congress in 2012. The IST Council are working with our Hawaiian colleagues to determine the best time in 2012 to hold the Congress; July and September are months being considered. We would welcome feedback from members on this. We will be striving to ensure the Congress is affordable, including less expensive accommodation for student members. Several possible venues and hotels are being examined in an effort to deliver a great Congress at a good price. 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. More on this as plans develop.

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. Therefore, once plans are further advanced, we will ask all members to indicate if they definitely intend to attend the meeting, or will definitely not be coming. Once a Scientific Organising Committee is established for the Congress, input from members on possible meeting content will be sought.

For the present, members should communicate re the Congress via the Secretary IST (julian.white@adelaide.edu.au) and President (antgopal@nus.edu.sg).

10th

Meeting of the
Pan American Section of the
 International Society on Toxinology

Hotel Real Intercontinental
 San José, Costa Rica
 April 18th – 22nd, 2010



HOME

ORGANIZERS

GENERAL INFORMATION

SCIENTIFIC PROGRAM

SOCIAL PROGRAM

ABOUT COSTA RICA

ABSTRACT SUBMISSION

REGISTRATION

ACCOMMODATION

SPONSORS

Welcome / Bem-vindos / Bienvenidos



You are most welcome to join the 10th Meeting of the Pan American Section of the International Society on Toxinology (IST) in San José, Costa Rica.

This meeting will allow both basic and clinical researchers to exchange their knowledge and expertise on toxins derived from animals, plants and microorganisms.

Contributions on the molecular, biochemical, pharmacological, toxicological and immunological properties of toxins are welcomed.

The meeting will take place from April 18th to April 22nd, 2010, at the [Hotel Real Intercontinental](#), in San José, Costa Rica, at the heart of Central America.

Costa Rica is well known for its beautiful landscapes, cool volcanoes, warm beaches and amazing biodiversity.

This meeting will provide you with an excellent opportunity for scientific and social interaction. Don't miss it...

We look forward to welcoming you in San José!

With warmest regards,
 Organizing Committee

Message from
 Dr. P. Gopalakrishnakone
 President of The IST

ICP
 Instituto
 Clodomiro
 Picado



ICT
 Instituto
 Costarricense
 de Turismo

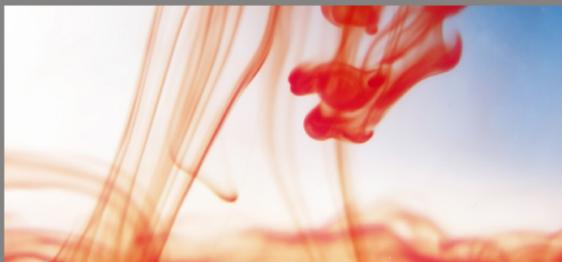


Photo
 Gallery



VLCIST2011

VALENCIA INTERNATIONAL SOCIETY ON TOXINOLOGY 2011



17th EUROPEAN CONGRESS of the Society of Toxinology

Museo de las Ciencias Príncipe Felipe, Valencia (Spain),
September 11-15, 2011

The topic of the congress is: "Animal, plant and microbial toxins-From basic to translational venomics. Besides discussing the latest developments in this discipline, the major objective of the meeting is to facilitate contacts between groups of basic and clinical research, molecular biology and proteomics technologies, which may help creating synergies to develop new strategies to alleviate the serious problems caused by envenoming by animal, plant and microbe toxins.

Local Organizing Committee Secretariat

Juan J. Calvete, IBV(jcalvete@ibv.csic.es)
Libia Sanz, IBV
Paula Juárez, IBV
Vicente Felipo, CIPF
Enrique Pérez-Paya, IBV, CIPF
Marc Martí-Renom, CIPF
Ana Conesa, CIPF
Andrés Moya, UV
Ismael Mingarro, UV

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Scientific Committee

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ERT 62 "Ingénierie des protéines" Université de la Méditerranée - Ambrilla Biopharma Inc., France

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**9th IST ASIA PACIFIC MEETING
ON ANIMAL, PLANT
AND MICROBIAL TOXINS
September 4–8, 2011 Vladivostok, Russia**



Address: Professor EUGENE GRISHIN

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16/10 Miklukho-Maklaya Street, 117997 GSP Moscow, Russia

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Prof. Julian White, MD, FACTM
Secretary Treasurer, International Society on Toxinology
Toxinology Dept.
Women's & Children's Hospital
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Email: julian.white@adelaide.edu.au

March 1, 2010

Dear Professor White,

Thank you very much for accepting my invitation to join the International Scientific Committee of the **9th IST Asia Pacific Meeting on Animal, Plant and Microbial Toxins** which will be held in Vladivostok, Russia on September 4–8, 2011.

I am pleased to inform you that the International Scientific Committee is set up and includes (in alphabetical order):

Jou-Fang Deng *Taiwan*
Nobuhiro Fusetani *Japan*
Antony Gomes *India*
P. Gopalakrishnakone *Singapore*
Songping Liang *China*
Chau Van Minh *Vietnam*
Tadeusz F. Molinski *USA*
Anthony T. Tu *USA*
Jan Tytgat *Belgium*
Julian White *Australia*

Do not hesitate to contact me if you have any suggestions re the Congress Program. Thank you in advance for your effective collaboration.

Sincerely yours,

EUGENE GRISHIN
Program Committee Co-Chairman
President, IST Asia Pacific Section

Phone: +7(495) 330-5892

E-mail: grev@mx.ibch.ru, AP-IST@ibch.ru, ap.ist.2011@gmail.com

1st National Conference on Animal, Microbial, Plant Toxins & Snakebite Management
“BIO-TOXINS IN HEALTH & DISEASE”
11-12 December, 2010
Jointly Organized by
Indian Institute of Chemical Biology & KPC Medical College & Hospital, Kolkata, India



Organizing Secretary:
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Kolkata – 700 032, India

Jt. Organizing Secretary:
Prof. Sandip Bandyopadhyay
KPC Medical College,
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Kolkata – 700 032, India

AN INVITATION

With great pleasure, we invite you all to the 1st National Conference on Animal, Microbial, Plant Toxins & Snakebite Management to be held in Kolkata on 11-12 December, 2010. This conference aims to provide a common platform for all researchers (clinicians and non clinicians) working on different aspects of natural toxins of animal, microbial and plant, snakebite management and environmental issues related to natural toxins, to discuss their research findings. The conference will consist of plenary sessions, oration, invited lectures, oral and poster presentation.

OBJECTIVES

To create awareness and understanding of issues related to natural toxins (animal, microbial, plant) and snakebite management.

- ❖ To identify scientists working on natural toxins
- ❖ To establish research state of art on natural toxins
- ❖ Snakebite management current status, problems and future
- ❖ Application of toxins in medicine and biotechnology
- ❖ Environmental issues related to natural toxins

SCIENTIFIC AREAS TO BE COVERED

- ❖ Animal Toxins
- ❖ Microbial Toxins
- ❖ Plant Toxins
- ❖ Toxin Miscellaneous
- ❖ Snakebite Management
- ❖ Antivenom/Antidotes
- ❖ Environmental Issues & Natural Toxins

Your involvement would be a great help to attract scientists and audience for this event. Thank you in advance for your participation and see you at KPC & IICB, Kolkata.

Please contact Organizing Committee

Dr. Aparna Gomes
Organizing Secretary
AMPTOX2010
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Phone : +91-98311 85589 & +91-94331 39031

Watch out Conference Website (Coming very soon)

TOXICOLOGY MEETINGS 2010



EAPCCT

European Association of Poisons Centres and Clinical Toxicologists

XXX International Congress of the European Association of Poisons Centres and Clinical Toxicologists

11-14 May 2010, Bordeaux, France, at the [Bordeaux Convention Centre](#)

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1. **General Information:** [Congress Brochure](#) (pdf 125 kb)
[Provisional programme](#) (pdf 100 kb)
[Precongress Lectures](#) (pdf 10 kb)
[Plenary Lectures](#) (pdf 10 kb)



The organisation of this Congress is supported by Prof. Régis Bédry, Bordeaux.
 The City of Bordeaux will generously offer a welcome reception at the City Hall.

2. **Submitting Abstracts:** The on-line abstract submission is closed.

[Guidance on how to format and submit abstracts](#) (pdf 65 kb).

[Criteria for scientific review of abstracts submitted to EAPCCT Congresses](#) (pdf, 28 kb)

Members of the *Central European and Accession Countries Committee* are ready to help scientists who are not used to presenting data and structuring an abstract. If you think that a review of your abstract before final submission might help you, please feel free to send your abstract as soon as possible, and before the 20th of October, to [Vincent Danel](#), chairman of the committee.

Members of the committee will respond as quickly as possible so that you will be able to submit your abstract in time.

Please note that this pre-review process is not a guarantee of acceptance of your abstract by the Scientific Committee.

[The Young Investigator Award](#)

3. **Posters:** The format of the posters will be **portrait**.
Size of poster boards: 170cm (height) x 100cm (width).

4. **Registration for the Congress:** Participants wishing to register for the meeting can use the [Registration Form](#) (*.doc 90 kb, also as [printable file](#) pdf, 25 kb), but [Online registration](#) is available here and is preferred.

- 5. Accommodation:** There are a number of hotels of all categories in the close proximity of the Conventions Centre ([Map](#)). ACCOR hotel rooms at special rates can be booked here via [online booking](#). Note: Please choose first time of arrival and length of stay before you search for the hotels. The room rates include breakfast.
- 6. Deadline Dates:**
- | | |
|---|-------------------|
| Receipt of abstracts | November 18, 2009 |
| Registration at special rates | February 19, 2010 |
| Reserving of accommodation at special rates | . |
| Deadline for presenters to register | . |
- 7. For information:** EAPCCT General Secretary
Ms Alison M. Good
NPIS (Edinburgh), Scottish Poisons Information Bureau, Royal Infirmary
51 Little France Crescent
EDINBURGH EH16 4SA
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2010 North American Congress of Clinical Toxicology Denver, CO - October 7-12, 2010

2010 NACCT General Information

Abstracts now being submitted [Click to Learn More](#)

The American Academy of Clinical Toxicology and the American Association of Poison Control Centers is pleased to announce that the North American Congress of Clinical Toxicology 2010 and associated pre-meeting functions will be held at the Hyatt Regency at Colorado Convention Center, CO - October 7-12.

This annual conference allows an opportunity for physicians, nurses, pharmacists, and scientists from around the world to participate in the sharing of knowledge on a wide variety of issues in clinical toxicology.

In addition, there will be multiple original research papers presented, a number of symposia, as well as other traditional and novel continuing education sessions.

Abstracts

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Registration and Housing

[Hyatt Regency at Colorado Convention Center, CO](#)
[Room Reservations](#)

LES ANIMAUX VENIMEUX ET VÉNÉNEUX



**Systematique,
biologie,
toxicologie**

Année 2009 - 2010

MODULE I - Responsables : Max GOYFFON et Michel THIREAU
Venimologie générale - Vertébrés terrestres
Lundi 18 janvier - Vendredi 22 janvier 2010

Lundi 18 janvier 2010

09h00 - 09h15 : **Accueil**

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

C. ROLLARD, Muséum

11h00 - 12h15 : **Toxicité aiguë des venins et neutralisation par les antivenins**

J.-P. CHIFFPAUX, IRD, Paris

14h00 - 15h15 : **Venins : génomique, protéomique et bio-informatique**

R. STÖCKLIN, Atheris, Genève

15h30 - 17h30 : **Les amphibiens**

J. LESQUIRE, Muséum

Mardi 19 janvier 2010

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

J.-P. GASC, Muséum

11h00 - 12h00 : **Visite du vivarium de la ménagerie ou films sur les serpents**

14h00 - 15h00 : **Visite du vivarium de la ménagerie ou films sur les serpents**

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

N. VIDAL, Muséum

Mercredi 20 janvier 2010

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**

J.-L. BERTHIER, Muséum

Jedi 21 janvier 2010

09h00 - 10h30 : **Composition générale et mode d'action des venins de serpents Elapidae**

D. SERVENT, CEA

10h45 - 12h15 : **Immunothérapie des envenimations ophidiennes**

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

14h00 - 16h30 : **Épidémiologie et clinique des envenimations ophidiennes**

J.-P. CHIFFPAUX, IRD, Paris

Vendredi 22 janvier 2010

09h00 - 10h15 : **Inhibiteurs naturels des PLA₂. Résistance naturelle aux venins**

G. FAURE, Institut Pasteur, Paris

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

F. DUCANCEL, CEA

14h15 - 15h30 : **Anticorps recombinants neutralisants**

P. BILLIARD, Muséum et Tours

15h45 - 17h00 : **Synthèse et conclusion**

J.-P. CHIFFPAUX, IRD, Paris

Renseignements, inscriptions et coordination :

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Tél : 01 40 79 48 85

Max GOYFFON MNHN Département RDDM
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MODULE II - Responsables : Christine ROLLARD et Max GOYFFON
Arthropodes terrestres - Parasites
Lundi 15 mars - Vendredi 19 mars 2010

Lundi 15 mars 2010

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**

J. WEULERSSE, Muséum

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

M. GOYFFON, Muséum

Mardi 16 mars 2010

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

P. BOURDEAU, ENV, Nantes

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

P. BOURDEAU, ENV, Nantes

15h45 - 17h15 : **Composition et activités biologiques de la salive des diptères**

V. CHOUVET, Institut Pasteur, Paris

Mercredi 17 mars 2010

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

J.-J. GEOFFROY, CNRS et Muséum

14h00 - 16h15 : **Les acariens : biologie et fonction venimeuse**

R. CHERMETTE, ENV, Maisons-Alfort

16h30 - 17h30 : **Les acariens : systématique**

Y. COINEAU, Muséum

Jedi 18 mars 2010

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 19 mars 2010

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 17 mai - Vendredi 21 mai 2010

Lundi 17 mai 2010

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

S. BAGHDIGLIAN, Montpellier

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

C. MATTEI, DGA

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

M. GUILLAUME, Muséum

Mardi 18 mai 2010

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

P. FAUREAU, Atheris, Genève

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

J. MOUTOU, CNRS, Gif-Sur-Yvette

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

B. LASSUS, IFREMER, Nantes

16h00 - 17h00 : **Les annélides**

T. MEZIANE, Muséum

Mercredi 19 mai 2010

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

F. GOUDY-PERRIÈRE, UFR Pharmacie, Châtenay-Malabry

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

F. GOUDY-PERRIÈRE, UFR Pharmacie, Châtenay-Malabry

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

J.-L. D'HONDT, Muséum

Jedi 20 mai 2010

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, ENV, Nantes

Vendredi 21 mai 2010

09h00 - 09h45 : **Intoxications par consommation de chair 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



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IRD
Institut de recherche
pour le développement

From: Xuan Kiem <kiemtrinhxuan211@yahoo.com>
Subject: **Re: items for next IST newsletter**
Date: 9 February 2010 1:30:29 AM
To: Julian White <toxinoz@gmail.com>

Dear Professor Julian White,

I am glad to inform you that:

The 10th Congress of APAMT will be organized from
November 24 to 26, 2010 in Hanoi, Vietnam.

You are warmest wellcome!

The website of the Congress will be finished at the end of February.

Looking forward to receive your reply.

Sincerely yours,

Trinh Xuan Kiem

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PLEASE NOTE: All articles published in the IST Newsletter represent the views of their authors and do not represent the official views of the IST. They are not peer reviewed and the IST does not warrant the accuracy of these articles.

IST Article 02-2010 – Viper Day / Summer Position

Viper Day

As the only Viper Resource Center in the United States, the Natural Toxins Research Center (NTRC) at Texas A&M University-Kingsville (TAMUK) has a mission to provide global research, training and resources that will lead to the discovery of medically important toxins found in snake venoms. Part of the task of providing training for venom researchers is the recruitment of students from high school through Ph.D candidacy, and introducing them to the world of venom research through special events and intern programs.

For the past 11 years, the NTRC has invited area high school students and teachers to visit its facilities on the campus of TAMUK for Viper Day. Viper Day is the NTRC's annual outreach program to introduce venom and biomedical research to soon-to-graduate high school students. This program is used to encourage the pursuit of degrees and careers in the sciences. This year, eight scholarships were awarded at Viper Day 2010, held on Friday, January 22, with eight high schools in attendance, totaling 400 students taking part in the event.

This year's Viper Day Keynote Speaker was Celia Garcia-Prieto, Ph.D., and an alumna of the NTRC. She is now a Postdoctoral Fellow at M.D. Anderson Cancer Center. She gave an overview of her path from college student to Ph.D., and gave the students an overview of her work at M.D. Anderson, explaining the mechanisms of cancer treatments. The keynote speaker is always a former NTRC student who has moved forward into a rewarding career. Many have become biomedical researchers, physicians, and dentists, and have been very successful in their careers.

The NTRC Researchers were on-hand to explain their research projects, and a week prior the Viper Day, the schools were all sent copies of these research abstracts, so they could be reviewed in the classrooms. The students then use this knowledge in a trivia game put together along the lines of television's, "Who Wants to be a Millionaire." One student from each high school was randomly picked to play for a chance to win up to \$100.00 by answering questions drawn from the research abstracts. Scholarships were awarded to encourage attendees to attend college and to seek careers in the sciences.

During the afternoon, all 400 students were led on tours of the NTRC lab facilities. The NTRC researchers took rotations of students to show them their workspace and to explain the goals of their research and what they hope to find with the tests and assays they run each day. Visitors were encouraged to ask questions of the researchers, and heard overviews on how the NTRC characterizes, tests, clones and stores venom and venom products. For some students, this was the first time they had been into a functioning research environment.

Before heading home, the visitors were taken through the newly constructed NTRC Serpentarium, where the curator and technicians were on-hand to answer any questions about animal husbandry and the types of snakes and their place in biomedical research.

The NTRC's Viper Day program has proven to be a popular event for high school science teachers of South Texas, and some schools travel over an hour to attend. Due to the annual response to Viper Day invitations, plans are being explored to expand the attendance capacity for future years. This year's attendees were invited to apply for the 2010 Summer Research Program, set to start in June.

Summer Research Program for Students

The 2010 Summer Research Program will be the second year the NTRC has hired students from both high school and universities in the United States, and one teacher or college professor, into the NTRC facilities and train them in the characterization and purification of snake venoms. Applications for the students and teaching positions are being accepted until May 24, 2010. This program is part of the American Recovery and Reinvestment Act of 2009 passed by the United States Congress and all students and faculty must be USA citizens or be permanent residents.

The NTRC trains the students in every aspect of its venom research, from planning and performing assays and keeping publication-ready lab journals, to explaining their activities at weekly presentations, complete with slideshows of their results. Dr. John C. Perez works with them each day with lectures to explain the rationale behind the math and procedures used in the labs. The main idea of this program is that students learn best when able to work in a mentoring relationship with an experienced researcher. Being able to apply their knowledge in a practical laboratory setting takes learning out of the classroom and shows students the day-to-day duties of a research scientist. In last year's Summer Program, the students were placed into four groups, and each group was given a different research assignment, such as purification of venoms with instrumentation, tissue culture assays for testing the effects of toxins, other activity assays for screening useful molecules that have important biomedical applications, and cloning of medically important toxins. NTRC mentors worked with the student through each stage of their training and research. In order to best benefit the students, a visiting scientist position was included in the American Recovery and Reinvestment Act of 2009, to add to the number of mentors available during the Summer Program. For anyone wishing to apply, the application may be found at <http://www.ntrc.tamuk.edu/summerapplication.html>, and sent via email to kanmd00@tamuk.edu, or by fax to (361) 593-3798.



SCORPIONS OF THE WORLD

A NEW GUIDE FROM NAP EDITIONS

Publication time June 2010

All information: [www. napeditons.com](http://www.napeditions.com)

Authors: Roland Stockmann and Eric Ythier

A comprehensive insight into scorpion biology.

The book features the biology of scorpions (their anatomy and major biological functions, ecology, radiation resistance). It also goes into the venomology and medical importance of species across the world (venoms and treatment of envenomation, scorpion control). The myths and legends surrounding scorpions also appear, and useful advice is given for people wishing to rear these animals in captivity.

Over 350 species of scorpions described and illustrated by biogeographical area.

Descriptions with essential information to enable non-specialists to recognise easily each species illustrated, with notes on toxicity, habitat, habits and distribution.

The guide presents the taxonomy and diversity of scorpions and provides a taxonomic key for families and a description of genera, plus a complete list of currently known species and their distribution.

Over 400 photos of live scorpions

Precise description of each species with details on the animals' biology, along with distribution maps.

Line drawings help clarify decisive anatomical characters.

Over 500 pages

Format 13 x 20 cm

Bound volume, hardback

**Contact: NAP EDITIONS – 3 chemin des Hauts Graviers – 91370 Verrières –
France**

Tel: (+33) 1 60 13 59 52

The authors:

Roland Stockmann is Honorary Lecturer of the Université-Pierre-et-Marie-Curie (Paris VI). For many years he was also correspondent of the Muséum National d'Histoire Naturelle in Paris.

Eric Ythier, an entomologist and ecotoxicologist, has worked in the plant protection industry for many years. He is currently in charge of the Department of Ecotoxicology and Public Health in a private scientific research organization.



1961 West Brichta Dr.
Tucson, AZ 85745, USA
Tel: 1 520 884-9345
Fax: 1 520 884-9345
ponerine@dakotacom.net

Southwest Venoms

CATALOGUE OF INSECT VENOMS (2009-2010)

Prices in U.S. dollars. All venoms are pure venoms (not venom sac or apparatus homogenates) collected according to the methods of Schmidt (1986. *In: Venoms of the Hymenoptera* [T. Piek, ed.], pp. 425-508. Academic Press: London.).

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.

Natural Toxins

Research Center
(NTRC)

TEXAS A&M UNIVERSITY
KINGSVILLE

VENOM QUALITY GUARANTEE

Authenticity of Species • Purity of Venom
Maximum Biological Activity • Our Venom is Never Pooled

Snake venoms contain important molecules which are valuable for researching the treatments of strokes, heart attacks, and cancer.

The Natural Toxins Research Center (NTRC) at Texas A&M University-Kingsville is dedicated to providing high quality snake products for biomedical research. We are committed to the procurement and distribution of venoms, venom fractions and tissue for biomedical research. Venoms from the same species can be different, and therefore extracted venoms are never pooled. Each vial contains venom from a single snake, and venoms of the same species are never mixed. The vials are labeled with the snakes' scientific and common names, ID tag number and sex. The ID tag number can be traced back to the NTRC Internet Database (ntrc.tamuk.edu/cgi-bin/serpentarium/snake.query) for additional information about each snake.

Southern Copperhead - <i>Agkistrodon contortrix contortrix</i>	\$75.00/1g	.....	\$50.63/500mg		
Broad-Banded Copperhead - <i>Agkistrodon contortrix laticinctus</i> ..	\$100.00/1g	.....	\$67.50/500mg		
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>Mircrurus tener tener</i>	\$2000.00/1g				
Florida Coral Snake - <i>Mircrurus fulvius</i>	\$1800.00/1g				
Southern Pacific Rattlesnake - <i>Crotalus oreganus helleri</i>	\$400.00/1g	.....	\$270.00/500mg	\$72.90/100mg	\$49.21/50mg
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
Prairie Rattlesnake - <i>Crotalus viridis viridis</i>	\$70.00/1g	.....	\$47.25/500mg		
Red Spitting Cobra - <i>Naja pallida</i>	\$100.00/1g	.....	\$67.50/500mg		
Desert Massasauga - <i>Sistrurus catenatus edwardsii</i>	\$1000.00/1g	.....	\$675.00/500mg	\$182.25/100mg	\$123.02/50mg
Western Massasauga - <i>Sistrurus catenatus tergeminus</i>	\$1000.00/1g	.....	\$675.00/500mg	\$182.25/100mg	\$123.02/50mg
Bushmaster - <i>Lachesis muta muta</i>	\$2000.00/1g	.....	\$1350.00/500mg	\$364.50/100mg	\$246.04/50mg

(A) - neurotoxic venom
(B) - non-neurotoxic venom
*Subject to availability

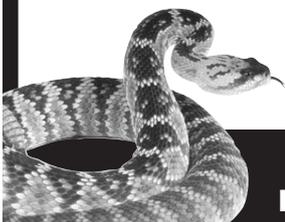
Venom is collected under stringent laboratory conditions using disposable labwear for each extraction. Venom is collected in new, non-reusable plastic cups with parafilm coverings. Snakes are allowed to bite into the parafilm diaphragm and the venom glands are not massaged. Immediately following collection, each venom sample is clarified by centrifugation at 500 x g for 5 minutes to remove cellular debris and frozen at -90° C until lyophilized.

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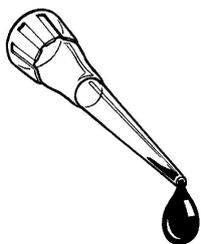
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Lyophilised Venoms

Snakes

Scientific name	Price(US\$)/200mg	Price(US\$)/gm
<i>Acanthophis antarcticus</i>	\$170	\$745
<i>Acanthophis praelongus</i>	\$210	\$845
<i>Agkistrodon billineatus</i>	\$50	\$200
<i>Austrelaps superbus</i>	\$400	\$1,600
<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
<i>Notechis ater humphreysi</i>	\$350	\$1,600
<i>Notechis ater niger</i>	\$350	\$1,600
<i>Notechis ater serventyi</i>	\$350	\$1,600
<i>Notechis scutatus</i>	\$300	\$1,445
<i>Ophiophagus hannah</i>	\$200	\$850
<i>Oxyuranus microlepidotus</i>	\$300	\$1,300
<i>Oxyuranus scutellatus</i>	\$260	\$1,250
<i>Oxyuranus scutellatus canni</i>	\$400	\$1,500
<i>Pseudechis australis</i>	\$110	\$520
<i>Pseudechis butleri</i>	\$160	\$700
<i>Pseudechis colletti</i>	\$110	\$500
<i>Pseudechis guttatus</i>	\$110	\$500
<i>Pseudechis porphyriacus</i>	\$140	\$650
<i>Pseudechis papuanus</i>	\$288	\$1,380
<i>Pseudonaja affinis</i>	\$800	\$3,900
<i>Pseudonaja aspidorhyncha</i>	\$800	\$3,990
<i>Pseudonaja inframacula</i>	\$800	\$3,990
<i>Pseudonaja nuchalis</i>	\$800	\$3,990
<i>Pseudonaja textilis</i>	\$760	\$3,700
<i>Tropidechis carinatus</i>	\$300	\$1,500

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Latrodectus hasseltii \$500/50 sac contents.

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(6-10gm) \$116/gm
(60gm and over) \$95/gm

Amphibian Venoms

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Naja melanoleuca	\$205.00
Naja nigricollis (Tanzania)	\$205.00
Naja nigricollis (Ghana)	\$205.00
Naja h. annulifera	\$125.00
Naja kaouthia	\$205.00
Naja naja (Pakistan)	\$250.00
Ophiophagus hannah	\$150.00
Micrurus f. fulvius	\$2100.00
Bitis arietans	\$150.00
Bitis g. gabonica	\$150.00
Bitis g. rhinoceros	\$150.00
Crotalus adamanteus	\$150.00
Crotalus atrox	\$150.00
Crotalus h. atricaudatus	\$150.00
Crotalus h. horridus	\$150.00
Crotalus s.scutulatus	\$450.00
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Sistrurus m. barbouri	\$450.00
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Agkistrodon c. laticinctus	\$190.00
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<i>Agkistrodon contortrix phaeogaster</i>	\$70.00
<i>Agkistrodon contortrix pictigaster</i>	\$70.00
<i>Agkistrodon piscivorus leucostoma</i>	\$45.00
<i>Agkistrodon piscivorus piscivorus</i>	\$45.00
<i>Bothrops asper</i>	\$100.00
<i>Bothrops atrox</i>	\$100.00
<i>Bothrops moojeni</i>	\$100.00
<i>Crotalus adamanteus</i>	\$60.00
<i>Crotalus atrox</i>	\$70.00
<i>Crotalus basiliscus basiliscus</i>	\$200.00
<i>Crotalus cerastes</i>	\$100.00
<i>Crotalus durissus cumanensis</i>	\$300.00
<i>Crotalus durissus durissus</i> (fmr. <i>C. d. dryinas</i>)	\$200.00
<i>Crotalus durissus terrificus</i>	\$175.00
<i>Crotalus horridus</i>	\$100.00
<i>Crotalus horridus</i> (type A neurotoxin)	\$100.00
<i>Crotalus molossus</i> (Texas origin)	\$70.00
<i>Crotalus scutulatus scutulatus</i>	\$250.00
<i>Crotalus viridis viridis</i>	\$70.00
<i>Protobothrops flavoviridis</i>	\$200.00
<i>Trimeresurus borneoensis</i>	\$200.00

Elapidae

<i>Dendroaspis angusticeps</i>	\$350.00
<i>Dendroaspis jamesoni kaimosae</i>	\$400.00
<i>Dendroaspis polylepis</i>	\$400.00
<i>Micrurus tenere</i>	\$1000.00
<i>Naja kaouthia</i>	\$100.00
<i>Naja kaouthia</i> (Suphan province)	\$100.00
<i>Naja melanoleuca</i>	\$80.00
<i>Naja naja</i> (India)	\$85.00
<i>Naja naja</i> (Pakistan)	\$80.00
<i>Naja nigricollis nigricollis</i>	\$80.00

<i>Naja nivea</i>	\$100.00
<i>Naja pallida</i>	\$100.00
<i>Naja siamensis</i>	\$60.00
<i>Ophiophagus hannah</i>	\$95.00
<i>Pseudechis colletti</i>	\$320.00

Viperidae

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<i>Bitis gabonica rhinoceros</i>	\$130.00
<i>Daboia (Vipera) russelli</i>	\$200.00
<i>Daboia (Vipera) siamensis</i>	\$200.00
<i>Echis carinatus</i>	\$350.00
<i>Echis pyramidium</i>	\$350.00

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<i>Heloderma horridum</i>	\$600.00
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- All venoms are collected in a sterile manner and frozen at -70C before lyophilization.
- Other venoms are available upon request in small quantities; please contact us for more information on other venoms
- CITES papers available on all CITES listed species. Extra costs apply for permits and inspection fees.
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