**DESCRIPTION**

*Toxicon* has an open access mirror *Toxicon: X*, sharing the same aims and scope, editorial team, submission system and rigorous peer review. **An introductory offer Toxicon: X - full waiver of the Open Access fee.**

*Toxicon*'s "aims and scope" are to publish: articles containing the results of original research on problems related to toxins derived from animals, plants and microorganisms. Papers on novel findings related to the chemical, pharmacological, toxicological, and immunological properties of natural toxins. Molecular biological studies of toxins and other genes from poisonous and venomous organisms that advance understanding of the role or function of toxins clinical observations on poisoning and envenoming where a new therapeutic principle has been proposed or a decidedly superior clinical result has been obtained. Material on the use of toxins as tools in studying biological processes and material on subjects related to venom and antivenom problems. Articles on the translational application of toxins, for example as drugs and insecticides epidemiological studies on envenoming or poisoning, so long as they highlight a previously unrecognised medical problem or provide insight into the prevention or medical treatment of envenoming or poisoning. Retrospective surveys of hospital records, especially those lacking species identification, will not be considered for publication. Properly designed prospective community-based surveys are strongly encouraged. Articles describing well-known activities of venoms, such as antibacterial, anticancer, and analgesic activities of arachnid venoms, without any attempt to define the mechanism of action or purify the active component, will not be considered for publication in *Toxicon*. Review articles on problems related to toxinology.

To encourage the exchange of ideas, sections of the journal may be devoted to Short Communications, Letters to the Editor and activities of the affiliated societies.

*Toxicon* strives to publish articles that are current and of broad interest and importance to the toxinology research community. Emphasis will be placed upon articles that further the understanding and knowledge of toxinology.

**Types of paper**

**Full-Length Research Papers:** Articles containing the results of original research on problems related to toxins derived from animals, plants and microorganisms.
Short Communications: Short communications differ from full manuscripts only in that the research study does not lend itself to an extended presentation. Even though brief, the Short communication should represent a complete, coherent and self-contained study. The quality of Short Communications is expected to be as good as that of full articles, and both full articles and Short communications will be refereed in an identical manner. The form is identical to that for a full article except that the report should not be divided into Introduction, Materials and Methods, Results and Discussion. An abstract of not more than 75 words should be provided. The Short Communication may not be longer than five double-spaced typewritten pages (not including references, tables and figures) and should include not more than two tables or two figures or one of each.

Letters to the Editor: These may be published if judged by the Editor to be of interest to the broad field of toxinology or of special significance to a smaller group of workers in a specialized field of toxinology. They should be headed 'Letter to the Editor' which should be followed by a title for the communication. Names of authors and affiliations should be at the end of the letter.

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Clinical reports: *Toxicon* will publish clinical reports on poisoning or envenoming where a new therapeutic principle has been proposed or a decidedly superior clinical result has been established. Please consult the Clinical Reports Guidelines

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Toxicologists, toxinologists, molecular biologists and chemists.

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Juan Calvete, Biomedical Institute of Valencia, Valencia, Spain
Evolutionary and translational proteomics of snake venoms, "venomics" and "antivenomics", for exploring the evolution, composition, interactions with antivenoms, and biotechnological applications of venoms and toxins
Célia R. Carlini, Pontifical Catholic University of Rio Grande do Sul, Brain Institute & School of Medicine, Porto Alegre, Brazil
Neurotoxins, hemotoxins, microbial toxins, plant toxins, toxic proteins and peptides, protein characterization
Edmond E. Creppy, University of Bordeaux Faculty of Medical Sciences, Bordeaux, France
Frederic Ducancel, Center for Immunology of Viral, Auto-immune, Hematological and Bacterial diseases, Paris-Saclay University Inserm CEA, Fontenay aux Roses, France
Protein toxins
Marc Edery, Communication Molecules and Adaptation of Micro-organisms, Paris, France
Jay Fox, Virginia Commonwealth University Department of Microbiology and Immunology, Richmond, Virginia, United States
Protein chemistry, functional genomics, ms-based comparative and quantitative proteomics, phosphoproteomics

Ponnampalam Gopalakrishnakone, National University Singapore Department of Anatomy, Singapore, Singapore

Robert Harrison, Liverpool School of Tropical Medicine Centre for Snakebite Research & Interventions, Liverpool, United Kingdom

Therapeutic, diagnostic, public health and medical aspects of snakebite

Wayne Hodgson, Monash University Department of Pharmacology, Clayton, Victoria, Australia

Venom, toxin, snake, antivenom, neuromuscular, vascular

Ryan Huxtable, University of Arizona College of Medicine, Tucson, Arizona, United States

Pharmacology and toxicology

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School of Medicine and Public Health Faculty of Health Geoff.Isbister@newcastle.edu.au

Evanguedes Kalapothakis, Universidade Federal de Minas Gerais Departamento de Genetica Evolucao e Ecologia, BELO HORIZONTE, Brazil

Scorpion and spider toxins, molecular biology, transcriptome

William Kem, University of Florida Department of Pharmacology and Therapeutics, Gainesville, Florida, United States

R. Manjunatha Kini, NUS Department of Biological Sciences, Singapore, Singapore

Igor Krizaj, Jožef Stefan Institute, Department of Molecular and Biomedical Sciences, Ljubljana, Slovenia

Toxinochemistry, haematotoxicity, molecular mechanisms, venoms to drugs; Phospholipases A2, their inhibitors and activators; Proteomics and protein structure: structure-function relationships.

Michel Lazdunski, Institute of Molecular and Cellular Pharmacology, Valbonne, France

Richard Lewis, The University of Queensland Institute for Molecular Bioscience, Brisbane, Australia

Acetylcholine receptors, nicotine, N-methyl-D-aspartate (NMDA), ion channels, receptor gated ion channels, transporters

Francis Markland Jr., KECK SCHOOL OF MEDICINE UNV OF SC, Los Angeles, California, United States

Marie-France Martin-Eauchaire, Mediterranean University Hospital Institute for Infectious Diseases, Marseille, France

Dietrich Mebs, Goethe University Frankfurt Institute of General Medicine, Frankfurt, Germany

Toxinochemistry, Natural Toxins

Edward Moczydlowski, Sandia National Laboratories, Albuquerque, New Mexico, United States

Edward Moczydlowski Professor and Chairman Biology 155 Science Center Clarkson University PO Box 5805 Potsdam, NY 13699-5805 Phone: 315-268-6641 E-mail: emoczydl@clarkson.edu

Cesare Montecucco, University of Padova Department of Neuroscience, Padova, Italy

Bacterial and animal neurotoxins, tetanus neurotoxin, botulism neurotoxins, neurotoxic snakes, neuromuscular junction

Graham M. Nicholson, University of Technology Sydney School of Life Sciences, Broadway, New South Wales, Australia

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Peptides, Proteins, Drug design, Structural biology, Marine toxins, Malaria, Biophysics

Baldomero Olivera, The University of Utah School of Biological Sciences, Salt Lake City, Utah, United States

Stephan Pflugmacher, Leibniz Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany

Mark A. Polo, United States Army Medical Research Inst. of Infectious Diseases (USAMRIID), Div. of Integrated Toxicology, Ft. Detrick, Maryland, United States

Lourival Domingos Possani, National Autonomous University of Mexico Biotechnology Institute, Cuernavaca, Mexico

Scorpion venom components: isolation structure and function

Solang M.T. Serrano, Butantan Institute - Laboratory of Applied Toxinology, São Paulo, Brazil

Snake venoms; proteomic analysis of animal toxic secretions; serine proteinases; metalloproteinases

W. Thomas Shier, University of Minnesota Department of Chemistry, Minneapolis, Minnesota, United States

Mycotoxins, particularly aflatoxins, fumonisins and botryodiplodin; mycotoxin biosynthesis; mycotoxins in food safety; mycotoxin mechanisms of action; effects of food processing on mycotoxins; agricultural impacts of mycotoxins.

Kaarina Sivonen, University of Helsinki Department of Food and Environmental Sciences, HELSINKI, Finland

Toru Tamiya, Sophia University Faculty of Science and Technology Graduate School of Science and Technology Department of Chemistry, Chiyoda-Ku, Japan

Aurelia Tubaro, University of Trieste Department of Life Sciences

Jan Tytgat, KU Leuven Toxicology and Pharmacology, Leuven, Belgium

David Warrell, Nuffield Department of Clinical Medicine, Oxford, United Kingdom
Clinical toxinology, snakebite envenoming, venomous bites and stings, scorpions, spiders, hymenoptera, clinical trials of antivenoms

**Julian White**, Women's and Children's Hospital Adelaide Department of Toxinology, North Adelaide, South Australia, Australia

Clinical toxinology; snakebite; arthropod envenoming; mushroom poisoning; toxinology training; antivenom production and use

**Yun Zhang**, Kunming Institute of Zoology Chinese Academy of Sciences, Kunming, China

Toxins from various bio-resources

**Russolina Zingali**, Federal University of Rio de Janeiro Institute of Medical Biochemistry, RIO DE JANEIRO, Brazil

Toxinology, Hemostasis, Proteomics

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Clinical toxinology; snakebite; arthropod envenoming; mushroom poisoning; toxinology training; antivenom production and use
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INTRODUCTION
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Official Journal of The International Society on Toxinology (http://www.toxinology.org/), Toxicon's "aims and scope" are laid down in the journal as:

To publish:
• articles containing the results of original research on problems related to toxins derived from animals, plants and microorganisms
• papers on novel findings related to the chemical, pharmacological, toxicological, and immunological properties of natural toxins
• molecular biological studies of toxin and other genes from poisonous and venomous organisms that advance understanding of the role or function of toxins
• clinical observations on poisoning and envenoming where a new therapeutic principle has been proposed or a decidedly superior clinical result has been obtained. Toxicon will not accept single-case reports unless they describe new, previously unreported, clinical features; envenomings or poisonings by rare animals, plants, fungi or microorganisms for which there is little or no clinical information in the literature; or treatment that employs a new therapeutic principle for which effectiveness is convincingly demonstrated. Such case reports must include: (1) expert species identification; (2) meticulous clinical documentation of symptoms, signs, laboratory data, treatment and clinical outcomes; (3) originality (adding to knowledge of the clinical phenotype); (4) where feasible, photographic documentation of clinical signs.
• material on the use of toxins as tools in studying biological processes and material on subjects related to venom-antivenom problems
• articles on the translational application of toxins, for example as drugs and insecticides
• epidemiological studies on envenoming or poisoning, so long as they highlight a previously unrecognised medical problem or provide insight into the prevention or medical treatment of envenoming or poisoning. Retrospective surveys of hospital records, especially those lacking species identification, will not be considered for publication. Properly designed prospective community-based surveys are strongly encouraged.
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• review articles on problems related to toxicology.

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**Correspondence:** These may be published if judged by the Editor to be of interest to the broad field of toxinology or of special significance to a smaller group of workers in a specialized field of toxinology. They should be headed `Correspondence` which should be followed by a title for the communication. Names of authors and affiliations should be at the end of the letter.

**Reviews and Short Reviews:** Articles of interest to toxinologists which are published in journals other than *Toxicon* may be abstracted in the Reviews section of *Toxicon*. Readers who feel that a particular article or book should be abstracted in this section are encouraged to bring their opinions to the attention of one of the Review Editors. Mini-Reviews and proposals for mini-Reviews are welcome.

**Case reports:** *Toxicon* will publish clinical reports on poisoning where a new therapeutic principle has been proposed or a decidedly superior clinical result has been established. Please observe the following: [Case Reports Guidelines.](#)

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