



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA



UNIVERSITÀ DEGLI STUDI  
DI NAPOLI FEDERICO II

## 1<sup>ST</sup> MEETING ON “NATURAL TOXINS” IN HONOUR OF CESARE MONTECUCCO

September 6-7, 2018  
AULA MAGNA, Vallisneri Building  
Via Ugo Bassi 58/B, Padova



Thousands of living organisms, ranging from bacteria to fungi, insects, vertebrates, and plants, produce toxins of different chemical nature. These toxins are collectively called natural toxins to distinguish them from the toxins and poisons synthesized by humans.

The natural toxins act via different mechanisms; however, all of them result from their co-evolution with their target or the physiological function they affect. Therefore, the study of their structures and mechanisms of action has multiple values: a) to identify their presence in food or other biological products, b) to shed light on the pathogenesis of the possible diseases caused by these toxins, and, at the same time, c) to shed light on the physiological process that they alter; d) to identify antidotes/drugs/antibodies/vaccines and/or therapeutic protocols designed to prevent or neutralize the action of natural toxins.

### SCIENTIFIC COMMITTEE

Chiara Dall’Asta, Carmela Dell’Aversano, Corrado L. Galli, Carlo A. Locatelli, Antonella Penna, Ornella Rossetto, Silvio Sosa, Emanuela Testai, Aurelia Tubaro

### ORGANIZING COMMITTEE

Ornella Rossetto, Marco Pirazzini, Michela Rigoni (Università di Padova)  
Silvio Sosa, Marco Pelin, Laura Fusco (Università di Trieste)

### DEADLINE FOR ABSTRACT SUBMISSIONE

30 June 2018



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Conseil national de  
recherches Canada



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**September 6, 2018**  
**AULA MAGNA, Vallisneri building, Via Ugo Bassi 58/B, Padova**

**PRELIMINARY PROGRAMME**

**September 6, 2018 – Aula Magna Vallisneri Building, Via Ugo Bassi 58/B, Padova**

14.00 Introduction: Corrado L. Galli – SITOX President  
Aurelia Tubaro

**MYCOTOXINS**

**Chairpersons: Chiara Dall’Asta, Patrizia Hrelia**

14.15-15.00

**Opening Lecture on Mycotoxins:** Antonio MORETTI: TBD

15.00-15.20 Chiara Dall’Asta – Mycotoxins in food: new integrated approaches for the analysis and the mechanism of action

15.20-15.40 Luca Dellafiora – Computational toxicodynamics & *in vitro* toxicology: application and perspectives in the risk assessment on mycotoxins

15.40-16.00 Oral presentation

16.00-16.20 General Discussion

*Coffee Break: 16.20-16.50*

**MARINE & FRESHWATER TOXINS**

**Chairpersons: Emanuela Testai, Carmela Dell’Aversano**

16.50-17.10

**Plenary Lecture: Tetrodotoxins in Europe – what is going on?** – Andrew D. TURNER

17.10-17.30 Emanuela Testai – Human health risk associated with cyanotoxin exposure

17.30-17.50 Carmela Dell’Aversano – LC-HRMS studies on palytoxins in algae, seafood and aerosols. What’s next?

17.50-18.10 Marco Pelin – Dermotoxicity of palytoxins, an emerging problem for human health

18.10-18.30 General Discussion

18.30-19.30 Natural Toxins Working Group Meeting

September 7, 2018 – Aula Magna Vallisneri Building, Via Ugo Bassi 58/B, Padova

### MISCELLANEOUS TOXINS

**Chairpersons: Aurelia Tubaro**

- 9.00-9.25 Christopher Miles - Structures and chemistry of the azaspiracids, and their consequences for azaspiracid toxicity
- 9.25-9.45 Aurelia Tubaro – Emerging marine toxins in temperate waters
- 9.45-10.05 Antonella Penna – Molecular tools and approaches for the monitoring of harmful algal blooms
- 10.05-10.15 Susanna Vichi – Are cyanotoxins in food an emerging risk? The results of an EFSA Project
- 10.15-10.25 Oral Presentation
- 10.25-10.40 General Discussion

*Coffee Break: 10.40-11.00*

### PROTEIN TOXINS

**Chairpersons: Cesare Montecucco, Carlo A. Locatelli**

- 11.00-11.20 Ornella Rossetto – Many novel botulinum neurotoxins and botulinum-like toxins
- 11.20-11.40 Luca Bano – Non-neurotoxic clostridial toxins causing animal diseases
- 11.40-12.00 Davide Lonati – Molecular and toxicological study of *Viper* venoms neurotoxicity
- 12.00-12.10 Giulia Zanetti – Inhibitors of botulinum neurotoxins
- 12.10-12.10 Mauro Dalla Serra – Pore-forming toxins
- 12.10-12.20 General Discussion
- 12.20-12.35 Concluding Remarks (C. L. Galli and C. Montecucco)

## LIST OF CHAIRPERSONS AND SPEAKERS

Luca Bano - Istituto Zooprofilattico Sperimentale delle Venezie (Italy)  
Mauro Dalla Serra – National Research Council, Trento (Italy)  
Chiara Dall’Asta – University of Parma (Italy)  
Carmela Dell’Aversano – University of Naples Federico II (Italy)  
Luca Dellafiora – University of Parma (Italy)  
Corrado L. Galli – University of Milan (Italy)  
Patrizia Hrelia – University of Bologna  
Carlo A. Locatelli - Centro Antiveleni di Pavia (Italy)  
Davide Lonati – Centro Antiveleni di Pavia (Italy)  
Christopher Miles – National Research Council (Canada)  
Cesare Montecucco – University of Padua (Italy)  
Antonio Moretti – The Institute of Sciences of Food Production (ISPA – CNR), Bari (Italy)  
Marco Pelin - University of Trieste (Italy)  
Antonella Penna – University of Urbino Carlo Bo (Italy)  
Ornella Rossetto – University of Padua (Italy)  
Emanuela Testai – Istituto Superiore di Sanità (Italy)  
Aurelia Tubaro – University of Trieste (Italy)  
Andrew D. Turner - Centre for Environment Fisheries and Aquaculture Science (UK)  
Susanna Vichi – Istituto Superiore di Sanità (Italy)  
Giulia Zanetti – University of Padua (Italy)



## **GENERAL INFORMATION**

The meeting is RESERVED TO SITOX MEMBERS. Anyone wishing to attend the conference, who is not a SITOX member, must fill in the registration form to become a member of the Society and send it to SITOX Secretariat ([sitox@segr.it](mailto:sitox@segr.it)) by e-mail. Once accepted as a member, pay the registration fee (€ 50,00) by July 15, 2018.

REGISTRATION to the Meeting is mandatory and must be done ASAP and in any case by July 15, 2018 by e-mail where it must be indicated: name and surname, institution of affiliation, telephone number and email address.

Those wishing to present an oral communication or a poster must send an e-mail to the Scientific Secretariat (Dr. Marco Pelin - [mpelin@units.it](mailto:mpelin@units.it)) with an ABSTRACT of their presentation. The abstract must be written in English in Word format in an A4 sheet. The text of the abstract should be made with the font Calibri dimension 11, the title in bold font size 14 Calibri. The name of the author who will present the poster should be underlined. The affiliations must be written in full.

No more than one presentation per person will be accepted.

In the letter of transmission of the abstract to the Scientific Secretariat, it will be necessary to specify the name and surname of the presenting author, date of birth, qualification and affiliation. The Organizing Committee will communicate the session in which the presentation will be scheduled.

Language of the Meeting: English and Italian.



**REGISTRATION FORM**  
**1<sup>ST</sup> MEETING ON “NATURAL TOXINS” IN HONOUR OF CESARE MONTECUCCO**

*NAME SURNAME*

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*AFFILIATION*

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*ADDRESS*

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*TELEPHONE/MOBILE*

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*E-MAIL*

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*SITOX MEMBER*

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The Italian Society of Toxicology declares that the personal data of the Member are treated in compliance with the D. Lgs. 196/2003 and the European regulations, following the specific indications for the privacy information present on the web site of the Society (<https://www.sitox.org/informativa-sul-trattamento-dei-dati-personali/>) that the Member, with the subscription of the present contract, declares to have read, understood and accepted.

Date \_\_\_\_\_

Signature \_\_\_\_\_



# SOCIETÀ ITALIANA DI TOSSICOLOGIA

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ATTACH A CURRICULUM VITAE (MAX 2 PAGES) INCLUDING A PUBLICATION LIST (MAX 5)

SIGNATURE OF PRESENTING MEMBERS (fill in with the name in block letters next to the signature)

1)NAME \_\_\_\_\_ SURNAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_

2)NAME \_\_\_\_\_ SURNAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_

Date and signature of the applicant

Date \_\_\_\_\_ Signature \_\_\_\_\_

To be sent by post, fax o e-mail to: Segreteria SITOX – Via Giovanni Pascoli, 3 – 20129 MILANO- Tel: 02-29520311 – Fax 02-700590939 – e-mail: [sitox@comm2000.it](mailto:sitox@comm2000.it); [sitox.soci@segr.it](mailto:sitox.soci@segr.it)

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Date \_\_\_\_\_ Signature \_\_\_\_\_