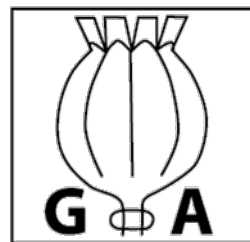


eSymposium

Society for Medicinal Plant and Natural Product Research



**'Plant toxins in botanical drugs,
food and feed - from basic
science to a safe regulatory
framework'**



28th – 29th of September 2022

Supported by



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Phytopharmaka**

Welcome

Dear colleagues,

We all hope that the COVID situation will further stabilize on a more acceptable level allowing more physical encounters. However, due the unclear situation over the last months, the Society for Medicinal Plant and Natural Product Research (GA) together with the chairs of the symposium has decided to hold this year's workshop as an on-line event again. The workshop is aimed at providing a platform for scientific exchange of information between researchers, industry and risk managers, in particular among our members, on exciting new results and views related to the occurrence of **pyrrolizidine alkaloids** in herbal medicine, consumer products, food and feed. The program will cover relevant topics including analytical methods, occurrence, toxicology, risk assessment and regulation.

It is our pleasure to invite you on behalf of the GA and the Workshop's Scientific Program Committee to the **3rd International Workshop on Pyrrolizidine Alkaloids**, entitled '**Plant toxins in botanical drugs, food and feed - from basic science to a safe regulatory framework**' to be held as e-symposium on September 28 and 29, 2022. For the first time, a separate session will be dedicated to alkenylbenzenes, another family of plant constituents currently being under intense discussion.

The speakers will give their presentations on-line providing the participants the opportunity to submit their comments and questions on-line.

Abstracts will be available for all presentations and speakers will be invited to contribute to a consensus paper to be published after the workshop.

Again, we were able to gather a faculty of international scientists renowned for their work on all relevant scientific aspects of pyrrolizidine alkaloid toxicity and risk assessment. We trust that all participants will benefit from attending the workshop and look forward to your registration. Please find all program details and information on registration in the attached files - special benefits are available for GA-members.



Judith M. Rollinger
President of the Society for
Medical Plant and Natural
Product Research



Dieter Schrenk
Co-Chair of the 3rd International
Workshop
on Pyrrolizidine Alkaloids



Jörg Fahrer
Co-Chair of the 3rd
International Workshop
on Pyrrolizidine Alkaloids

Wednesday, September 28th, 2022

13:15 - 13:20 Opening Address

Judith M. Rollinger, Vienna (A)

President of the Society for Medicinal Plant and Natural Product Research

13:20 - 13:30 Welcome and Introduction

Jörg Fahrner and Dieter Schrenk, Kaiserslautern (D)

Session I

Chairs: Stefan Gafner, Burlington (USA) and Michael Heinrich, London (GB)

13:30 - 14:00 Determination of Pyrrolizidine Alkaloids (Pas) in tea and honey with automated SPE clean-up and ultra-performance liquid chromatography/tandem mass spectrometry

Oliver Keuth, Münster (D)

14:00 - 14:30 Novel aspects in PA occurrence: Seasonal variation of levels and transfer from feed to cow's milk

Patrick P.J. Mulder, Wageningen (NL)

14:30 - 15:10 Effects of pesticides on the genotoxicity of pyrrolizidine alkaloids

Ad Peijnenburg, Wageningen (NL)

15:00 - 15:15 Coffee Break

Session II

Chairs: Karen Nieber, Leipzig (D) and Jürgen Reichling, Heidelberg (D)

15:15 - 15:45 Uptake, organ-specific metabolism and characterization of hepatotoxicity of the pyrrolizidine alkaloid senecionine

Stefanie Hessel-Pras, Berlin (D)

15:45 - 16:15 Assessment of the genotoxic potency of PA N-oxides: role of oxygen supply

Stefan Pfuhler, Cincinnatti (USA)

16:15 - 16:45 Relative potency factors (RPFs) of pyrrolizidine alkaloid N-oxides at realistic low dose levels

Frances Widjaja, Wageningen (NL)

Session III

Chairs: Catherine Mahony, Egham (UK) and Olaf Kelber, Darmstadt (D)

16:45 - 17:15 Support for regulatory assessment of percutaneous absorption of retronecine-type PAs through human skin

Catherine Mahony, Egham (GB)

17:15 - 17:45 Control of pyrrolizidine alkaloids impurities - Perspective of a national regulatory authority

Henrik Harms, Bonn (D)

Thursday, September 29th, 2022

Session IV

Chairs: Judith Rollinger, Vienna (A) and Dieter Schrenk, Kaiserslautern (D)

10:30 – 11:00 The key role of the gut-liver axis in PA-induced hepatotoxicity and enterotoxicity

Ge Lin, Hongkong (HK)

11:00 - 11:30 The genotoxicity of pyrrolizidine alkaloids is mediated by CYP3A in metabolically competent TK6 cell lines

Xilin Li, Jefferson (AR, USA)

11:30 - 12:00 Potency ranking of pyrrolizidine alkaloids using a genotoxicity test battery in human liver cells

Jörg Fahrner, Kaiserslautern (D)

12:00 - 14:00 Lunch Break

Session V

Chairs: Jörg Fahrner, Kaiserslautern (D) and Björn Feistel (D)

14:00 - 14:30 Novel approaches in risk assessment of alkenylbenzenes

Ans Punt, Wageningen (NL)

14:30 - 15:00 Alkylbenzenes and medicinal products [working title]

Hartwig Sievers, Vestenbergsgreuth (D)

15:00 - 15:30 Dose-response studies on the genotoxic potential of estragole and its metabolite 1'-hydroxyestragole in human liver cells

Jörg Fahrner, Kaiserslautern (D)

15:30 - 16:00 Summary and Farewell



Organization

Society for Medicinal Plant and Natural Product Research



Gesellschaft für Arzneipflanzen- und Naturstoff-Forschung e.V.

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Food Chemistry and Toxicology, University of
Kaiserslautern
Gottlieb-Daimler-Straße
67663 Kaiserslautern

Online-Registration



Please register online using the QR-Code or the following website address
https://server40.der-moderne-verein.de/webportal/events/veranstaltung?MANDANT_KEY=2396788395bb8fc521d72301e988a184&VER_ID=1010

Fees

	Non GA members	GA members
Regular attendees	€ 60	€ 30
Students	€ 20	€ 10
Company employees	€ 150	€ 90 For GA and KOOP member-companies

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