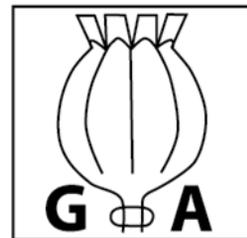


# eSymposium

Society for Medicinal Plant and Natural Product Research



## Novel insights into Pyrrolizidine Alkaloid Toxicity and Implications for Risk Assessment



29<sup>th</sup> – 30<sup>th</sup> of September 2020

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# Welcome

**Dear colleagues,**

The COVID situation has clearly shown that novel models for meetings, discussions and dissemination of results are essential. Thus, the Society for Medicinal Plant and Natural Product Research (GA) decided to offer e-symposia on a regular base for a continuous exchange of information between researchers, industry and stakeholders, and in particular our members on exciting natural product topics.

It is our pleasure to invite you on behalf of the GA and the Workshop's Scientific Program Committee to the **1<sup>st</sup> GA e-Symposium** and at the same time the **2<sup>nd</sup> International Workshop on Pyrrolizidine Alkaloids**: 'Novel insights into pyrrolizidine alkaloid toxicity and implications for risk assessment: Occurrence – genotoxicity – toxicokinetics – risk assessment' to be held on September 29<sup>th</sup> and 30<sup>th</sup> 2020.

The speakers will give their presentations on-line and the participants will be able to follow the lectures and submit their comments and questions.

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

Again, we were able to gather a faculty of distinguished international scientists renowned for their work on all 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 2<sup>nd</sup> International Workshop  
on Pyrrolizidine Alkaloids

## Tuesday, September 29<sup>th</sup>, 2020

### **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:** Catherine Mahony, Egham (GB) and Michael Heinrich, London (GB)

### **13:30 – 14:00 PA levels in food: Current situation and perspectives**

Patrick P.J. Mulder, Wageningen (NL)

### **14:00 – 14:30 Metabolism and kinetics as key determinants in PA toxicity**

Ivonne Rietjens, Wageningen (NL)

### **14:30 – 15:00 Identification and quantification of PA metabolites: consequences for risk assessment**

Anja These, Berlin (D)

### **15:00 – 15:30 Application of cutting edge research tools to PA risk assessment**

Catherine Mahony, Egham (GB)

### **15:30 – 16:00 Coffee break**

## Session II

**Chair:** Anna-Rita Bilia, Florence (I) and Ivonne Rietjens, Wageningen (NL)

### **16:00 – 16:30 Experiences with the Code of Practice designed for PA management**

Barbara Steinhoff, Bonn (D)

### **16:30 – 17:00 Regulatory perspectives of PA contamination in herbal medicinal products**

Jacqueline Wiesner, Bonn (D)

### **17:00 – 17:30 Risk assessment of PA occurrence in phytomedicine: A European perspective**

Heidi Foth, Halle (D)

**Wednesday, September 30<sup>th</sup>, 2020**

## **Session III**

**Chairs:** Olaf Kelber, Darmstadt (D) and Stefan Gafner, Austin (USA)

**13:30 - 14:00 Pyrrolizidine alkaloid secondary pyrrolic metabolites construct multiple activation pathways leading to DNA adduct formation and potential liver tumor initiation**

Peter Fu, Jefferson (AR, USA)

**14:00 – 14:30 Dose-response of alkylation-induced genotoxicity – implications for PA**

Jörg Fahrner, Kaiserslautern (D)

**14:30 – 15:00 Mechanism and potential toxic impact of pyrrolizidine alkaloid N-oxides**

Ge Lin, Hongkong (HK)

**15:00 – 15:30 New aspects impacting genotoxic potency of PA's and PA N-oxides**

Stefan Pfuhler, Cincinnati (OH, USA)

**15:30 – 16:00** Coffee Break

## **Session IV**

**Chairs:** Tankred Wegener, Weinheim (D) and Robert Fürst, Frankfurt (D)

**16:00 – 16:30 Bioassay-directed analysis approach for the identification of relevant pyrrolizidine alkaloids**

Ad Peijnenburg, Wageningen (NL)

**16:30 – 17:00 Health risks of 1,2-unsaturated PAs in foods**

Benjamin Sachse, Berlin (D)

**17:00 – 17:30 Developments in mixture risk assessment in Europe**

Jacob van Klaveren, Utrecht (NL)

**17:30 – 18:00 The bad ones and the not so bad ones? How to assess the carcinogenic risk from PA exposure?**

Dieter Schrenk, Kaiserslautern (D)

**18:00 – 18:15 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://www.conference-service.com/PA-2020/access.html>

## Fees

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

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