

Program

TUESDAY, April 1st, 2025

18:00 - 21:00 **Come together (registered participants)** (*Officers' Mess*)

WEDNESDAY, April 2nd, 2025

08:00 - 08:20 **Congress Opening**

08:00 - 08:05 Colonel (MC) Prof. Dr. D. Steinritz (Munich, Germany)
Commander Bundeswehr Institute of Pharmacology and Toxicology

08:05 - 08:10 Colonel (Promotable) Prof. Dr. K. Kehe (Munich, Germany)
Director, Military Medical Science and Medical Service Capability Development, (and Deputy Commander, Bundeswehr Medical Academy, Munich)

08:15 - 08:20 Prof. Dr. K.-H. Renner (Munich, Germany)
Vice President for Teaching and Stakeholder Relations of the University of the Bundeswehr Munich

08:20 - 09:20 **Session 1 (Current Political Situation)**

Chair: Colonel Prof. Dr. D. Steinritz (DEU), Prof. Dr. N. Tewari-Singh (USA)

08:20 - 08:50 Dr. L. Pograjc (Slovenia) (T1)
Republic of Slovenia, Ministry of Defence, NATO STO HFM

Political Situation as Leverage for Military Medical Scientific Research in the Alliance

08:50 - 09:20 Dr. P. Sripadi (The Hague, Netherlands) (T2)
Organisation for the Prohibition of Chemical Weapons (OPCW)

Developments at the OPCW Centre for Chemistry and Technology

09:20 - 09:50 **Coffee Break (Group Picture)**

Program

09:50 - 11:50 **Session 2 (Innovative approaches in nerve agent poisoning)**

Chair: Dr. M. Siegert (DEU), Prof. Dr. T. Gudermann (DEU)

09:50 - 10:20 Prof. Dr. S. Kubik (Kaiserslautern, Germany) (T3)
Department of Chemistry, RPTU Kaiserslautern-Landau
Differences between V-Agents and Novichoks from the Perspective of Antidote Development

10:20 - 10:50 Dr. J. Mikler (Ralston, Canada) (T4)
Defence Research and Development Canada- Suffield Research Centre
Antimuscarinics as respiratory stimulants in the treatment of nerve agent induced apnea

10:50 - 11:20 Dr. N. Amend (Munich, Germany) (T6)
Bundeswehr Institute of Pharmacology and Toxicology
Organ-on-a-chip technology – chances and challenges for toxicokinetic analysis of organophosphorus compounds

11:20 - 13:15 **Lunch**

13:15 - 14:15 **Session 3 (Analytical challenges and New approaches to ongoing challenges I)**

Chair: Prof. Dr. H. John (DEU), Prof. Dr. K. Wanner (DEU)

13:15 - 13:45 Prof. Dr. G. Skopp (Munich, Germany) (T7)
Forensisch Toxikologisches Centrum GmbH (FTC)
Challenges and pitfalls in postmortem toxicology

13:45 - 14:15 Prof. Dr. F. Arduini (Rom, Italy) (T8)
University of Rome „Tor Vergata“
Paper-based electrochemical biosensors for medical chemical defence

14:15 - 14:30 **Session 4 (Poster Award Competition)**
Chair: Prof. Dr. L. Veress (USA), Prof. Dr. Z. Kovarik (HR), Prof. Dr. S. Kubik (DEU)

- 14:15 - 14:20 F. Springer (Munich, Germany)
Identification of potential drug candidates interacting at the nAChR as a new treatment option for nerve agent poisoning
- 14:20 - 14:25 L. Pettersson (Munich, Germany)
Identification of senolytics in human fibroblasts for improving sulfur mustard-induced wound healing disorders
- 14:25 - 14:30 M. Charni-Natan (Ness-Ziona, Israel)
Comprehensive analysis of alterations in protein profile (proteomics) of lungs tissue following whole-body exposure to sulfur mustard using an advanced bioinformatics approach

14:30 - 15:00 **Coffee Break**

15:00 - 16:00 **Session 5 (Opioids)**
Chair: Captain A. Schwab (DEU), Prof. Dr. F. Arduini (ITA)

- 15:00 - 15:30 Dr. L. Yip (Atlanta, USA) (T9)
*Rocky Mountain Poison and Drug Safety/Department of Medicine/
Section of Medical Toxicology/Denver Health*
Opioids – Naloxone PK – Implications
- 15:30 - 16:00 Prof. Dr. T. Gudermann (Munich, Germany) (T10)
Walther-Straub-Institute of Pharmacology and Toxicology, LMU Munich
Dissecting Cafentanil’s pharmacodynamics points to alternative strategies against Carfentanil intoxications

18:00 - 21:00 **Conference Dinner (Ticket required)**

Conference Dinner
For this year’s Conference Dinner we will meet at the “Restaurant & Gasthof Neuwirt” within the “Hotel am Schlosspark Ismaning”. Whilst enjoying delicious German culinary specialties, we will have time to exchange, connect and slowly let the first day of the conference come to an end. To highlight the festive atmosphere, we have the opportunity to enjoy a musical accompaniment by the “Heeresmusikkorps” from Ulm. Also, the poster award ceremony will take place at the conference dinner.



Busses will leave from the Bundeswehr Medical Academy at **16:30** at the flagpole parking lot to the hotels. Hotel guests attending the conference dinner will then be picked up at **17:45** at the pick-up point at the hotels. Participants accommodated at the Bundeswehr Medical Academy will be picked up at **17:30** at the flagpole parking lot. We kindly ask all attendees to be at the pick-up points on time. Busses will depart from the conference dinner at approximately **21:30** and will head to the hotels and subsequently to the Bundeswehr Medical Academy.

Venue
Restaurant & Gasthof Neuwirt Ismaning within the “Hotel am Schlosspark Ismaning”
Schloßstraße 7, 85737 Ismaning

THURSDAY, April 3rd, 2025

08:30 - 10:30 **Session 6 (New targets in organophosphate poisoning)**
Chair: Lieutenant Colonel Dr. S. Rothmiller (DEU), Dr. M. Timperley (GBR)

- 08:30 - 09:00 Prof. Dr. H. Gohlke (Düsseldorf, Germany) (T11)
Heinrich-Heine-Universität Düsseldorf
Integrative retro- and prospective computational studies to identify modulators of the desensitized state of nAChR
- 09:00 - 09:30 Dr. Ch. M. Timperley (Porton Down, United Kingdom) (T12)
Defence Science and Technology Laboratory
The identification of bispyridinium antinicotinics able to treat nerve agent intoxication
- 09:30 - 10:00 F. Springer (Munich, Germany) (T13)
Bundeswehr Institute of Pharmacology and Toxicology
New investigation techniques to understand the influence of allosteric modulators at the orthosteric binding sites of the nAChR in context of new treatment options for nerve agent poisoning
- 10:00 - 10:30 Prof. Dr. Z. Kovarik (Zagreb, Croatia) (T14)
Institute for Medical Research and Occupational Health
Recent Advances in the Development of Reactivators of Inhibited Cholinesterases, and Treatment of Nerve Agent Poisoning

10:30 - 11:00 **Coffee Break**

11:00 - 12:00 **Session 7 (Analytical challenges and New approaches to ongoing challenges II)**
Chair: Major (MC) Dr. M. Kern (DEU), Prof. Dr. H. Gohlke (DEU)

- 11:00 - 11:30 Prof. Dr. N. Tewari-Singh (East Lansing, USA) (T15)
Department of Pharmacology and Toxicology, Michigan State University
Approaches for effective medical countermeasures against important continuing chemical threat challenges
- 11:30 - 12:00 Prof. Dr. H. John (Munich, Germany) (T16)
Bundeswehr Institute of Pharmacology and Toxicology
High abundant biomacromolecules in blood: valuable targets for the verification of blister agent exposure

12:00 - 13:15 **Lunch**

13:15 - 15:15 **Session 8 (Innovative approaches in the treatment of poisoning by blister agents)**
Chair: Captain F. Springer (DEU), Prof. Dr. K. Musilek (CZ)

- 13:15 - 13:45 Prof. Dr. L. Veress (Denver, USA) (T17)
Department of Pediatrics, Center for Advanced Drug Development
Patient Injury Phenotypes and Treatment Options for the Effects of Sulfur Mustard Exposure
- 13:45 - 14:15 Prof. Dr. K. Lu (Chicago, USA) (T18)
Northwestern University Feinberg School of Medicine
Repairing the skin and eyes from mustard induced injury through regenerative inflammation
- 14:15 - 14:45 Dr. S. Rothmiller (Munich, Germany) (T19)
Bundeswehr Institute of Pharmacology and Toxicology
Identification of the first drug candidates in sulfur mustard-induced senescence
- 14:45 - 15:15 B. Steinhäuser (Berlin, Germany) (T20)
German Federal Institute for Risk Assessment
National Poison Registry – a new chance to improve toxicovigilance in Germany

15:15 - 15:30 **Congress Closing**