

34th Annual Meeting of the German Society for Minerals and Trace Elements (GMS)



*Gesellschaft für Mineralstoffe
und Spurenelemente e.V.*

in Jena

7th to 9th June 2018

„Health benefits and risks –
from single essential elements to
molecular interactions“

Preliminary Program

Friedrich Schiller University Jena

Rosensäle, Fürstengraben 27

07743 Jena, Germany



**FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA**





ORGANISATION AND PROGRAM COMMITTEE

Local Committee

Anna Kipp

Friedrich Schiller University Jena, Germany
Email: anna.kipp@uni-jena.de

Kristina Loßow

Friedrich Schiller University Jena, Germany
Email: Kristina.lossow@uni-jena.de

Program Committee

Bernhard Michalke

Helmholtz Center Munich, Germany

Tanja Schwerdtle

University of Potsdam, Germany

York Schmitt

Consultant in transfusion medicine, Darmstadt, Germany

Esther Humann-Ziehank

Consultant in Veterinary Laboratory Diagnostics, Burgdorf, Germany

Kostja Renko

Charité Berlin, Germany

Lutz Schomburg

Charité Berlin, Germany

Dirk Schaumlöffel

Université de Pau et des Pays de l'Adour/CNRS, France

Daniel Brugger

Technical University Munich, Germany

Talks

For invited speakers: 20 min talk and 10 min discussion

For talks chosen from abstracts: 12 min talk and 8 min discussion

PROGRAM

Thursday, June 7th

13:00 Registration & Coffee (Rosensäle, Fürstengraben 27)

13:15– 16:00 GMS-Workshops

Trace elements – specific aspects in livestock and veterinary medicine

Esther Humann-Ziehank and Daniel Brugger

Reference Materials for the Analysis in Bodyfluids

To be announced

16:00 – 18:00 **GMS Board Meeting**

18:30 Öffentlicher Abendvortrag (Public Talk in German)

„Der Mensch lebt nicht vom Brot allein: Die Rolle von Spurenelementen für die Biochemie des Menschen am Beispiel von Selen und Jod.“

Ulrich Schweizer (University of Bonn, Germany)

Friday, June 8th

8:00 Registration & Coffee

8:45 – 9:00 Opening

TRACE ELEMENTS IN HUMANS – *TraceAge* session

Chair: Tanja Schwerdtle

9:00 – 9:30 **T1. Distinct patterns of adaptation of selenoproteins in humans and other vertebrates**

Sergi Castellano (University College London, UK)

9:30 – 10:00 **T2. Micronutrients and autoimmune thyroid disease**

Margaret Rayman (University of Surrey, UK)

10:00 – 10:30 **T3. Body iron status and risk of type 2 diabetes**

Matthias Schulze (German Institute of human Nutrition, Potsdam-Rehbrücke)

10:30 – 11:00 Coffee Break

TRACE ELEMENTS IN HEALTH AND DISEASE

Chair: Lutz Schomburg

11:00 – 11:30 **T4. Copper and brain cells: uptake, toxicity and metabolism**

Ralf Dringen (University of Bremen, Germany)

11:30 – 11:50 **T5. To be chosen from abstracts**11:50 – 12:10 **T6. To be chosen from abstracts**12:10 – 13:00 **Short Presentations of posters (2 min each)**

13:00 – 14:00 Lunch



TRACE ELEMENTS AND NUTRITION

Chair: Esther Humann-Ziehanke

14:00 – 14:30	T7. Iodine in the food chain Friedrich Schöne (Jena, Germany)
14:30 – 15:00	T8. Trace Minerals in Livestock Nutrition – Objectives and Trade-Offs Daniel Brugger (Technical University Munich, Germany)
15:00 – 15:20	T9. To be chosen from abstracts
15:20 – 15:40	T10. To be chosen from abstracts
15:40 – 16:00	Coffee Break
16:00 – 17:00	GMS Business Meeting
17:00 – 18:30	Walk through the City center or the Botanical Garden
18:30 – 20:30	Poster Session with Drinks & Dinner

Saturday, June 9th

BIOMARKERS OF THE TRACE ELEMENT STATUS

Chair: Dirk Schaumlöffel

9:00 – 9:30	T11. Biomonitoring: Exposure-or functional biomarker for Mn, Se, I and analytical aspects Bernhard Michalke (Helmholtz Center Munich, Germany)
9:30 – 9:50	T12. Exploring the far side of the moon: function, regulation and detection of the human selenoproteome Laurent Chavatte (International Center for Infectiology Research, Lyon, France)
9:50 – 10:10	T13. To be chosen from abstracts
10:10 – 10:30	T14. To be chosen from abstracts
10:30 – 11:00	Coffee Break

MOLECULAR BIOLOGY OF TRACE ELEMENTS

Chair: Kostja Renko

11:00 – 11:30	T15. FOXO transcription factors: connecting micronutrients and fuel metabolism? Lars-Oliver Klotz (Friedrich Schiller University Jena, Germany)
11:30 – 11:50	T16. To be chosen from abstracts
11:50 – 12:10	T17. To be chosen from abstracts
12:10 – 12:30	Poster Prices & Farewell