

# 34<sup>th</sup> Annual Meeting of the German Society for Minerals and Trace Elements (GMS)



*Gesellschaft für Mineralstoffe  
und Spurenelemente e.V.*

in Jena

**7<sup>th</sup> to 9<sup>th</sup> June 2018**

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

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Preliminary Program

Friedrich Schiller University Jena

Rosensäle, Fürstengraben 27

07743 Jena, Germany



**FRIEDRICH-SCHILLER-  
UNIVERSITÄT  
JENA**





## ORGANISATION AND PROGRAM COMMITTEE

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### **Local Committee**

#### **Anna Kipp**

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### **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 7<sup>th</sup>

13:00 Registration &amp; 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**, Carmen Alt (RECIPE, Leipzig)**Spurenelementanalyse in einem akkreditierten Routinelabor**, Matthias Leiterer (Thüringer Landesanstalt für Landwirtschaft, Jena)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 8<sup>th</sup>

8:00 Registration &amp; 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	<b>T7. Iodine in the food chain</b> Friedrich Schöne (Jena, Germany)
14:30 – 15:00	<b>T8. Trace Minerals in Livestock Nutrition – Objectives and Trade-Offs</b> Daniel Brugger (Technical University Munich, Germany)
15:00 – 15:20	<b>T9. To be chosen from abstracts</b>
15:20 – 15:40	<b>T10. To be chosen from abstracts</b>
15:40 – 16:00	Coffee Break
16:00 – 17:00	<b>GMS Business Meeting</b>
17:00 – 18:30	<b>Walk through the City center or the Botanical Garden</b>
18:30 – 20:30	<b>Poster Session</b> with Drinks & Dinner

Saturday, June 9<sup>th</sup>

### BIOMARKERS OF THE TRACE ELEMENT STATUS

Chair: Dirk Schaumlöffel

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

### MOLECULAR BIOLOGY OF TRACE ELEMENTS

Chair: Kostja Renko

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