

Wednesday, 16 January 2013

10:30–11:00 am

Welcome

Professor Dr. Dr. Andreas Hensel, Federal Institute for Risk Assessment (BfR)

Definitions of Bioavailability

Moderation: Dr. Monika Lahrssen-Wiederholt, BfR

11:00–11:20 am

Why are we talking about bioavailability?

James Moynagh, EU Commission, (requested)

11:20–11:40 am

Definition from a human nutrition point of view

PD Dr. Karlis Briviba, Max-Rubner-Institut

11:40–12:00 am

Definition from an animal nutrition point of view

Professor Dr. Klaus Männer, FU Berlin

12:00–12:20 pm

Definition from a pharmacological/medical point of view

Professor Dr. Andrea Hartwig, Karlsruhe Institute of Technology

12:20–1:00 pm **Discussion**

1:00–2:00 pm *Lunch break*

Trace Elements in Animal Nutrition

Moderation: Professor Dr. Gerhard Flachowsky, Friedrich Loeffler Institute

2:00–2:20 pm

What are trace elements used for in animal nutrition?

Professor Dr. Josef Kamphues, TiHo Hannover

2:20–2:40 pm

Sources of input of trace elements along the food chain

Professor Dr. Hans Schenkel, State Institute for Agricultural Chemistry

2:40–3:20 pm **Discussion**

3:20–3:50 pm *Coffee break*

Assessment and Analysis of Trace Elements

Moderation: Professor Dr. Wilhelm Windisch, TU Munich

3:50–4:10 pm

Criteria for the assessment of trace elements as a feed additive

PD Dr. Helmut Schafft, BfR

4:10–4:30 pm

What demands are placed on a method of determination?

Dr. Matthias Leiterer, Thuringian State Institute for Agriculture

4:30–4:50 pm

Possibilities for determining the bond types of trace elements

Professor Dr. Bernhard Michalke, Helmholtz Centre Munich

4:50–5:30 pm **Discussion**

End of the first day

Thursday, 17 January 2013

08:30–08:40 am

Synopsis of the first day

Dr. Markus Spolders, BfR

Methodical Approaches for Measuring Bioavailability

Moderation: Professor Dr. Josef Kamphues, TiHo Hannover, (requested)

08:40–09:00 am

Presentation of various measuring concepts in animal nutrition

Professor Dr. Wilhelm Windisch, TU Munich

09:00–09:20 am

Demands on measuring concepts from the point of view of biostatistics

Professor Dr. Hans-Peter Piepho, University of Hohenheim

09:20–10:00 am **Discussion**

10:00–10:30 am *Coffee break*

Experiences from the Food Sector

Moderation: Professor Dr. Dr. Alfonso Lampen, BfR

10:30–10:50 am

Consideration of bioavailability when deriving RDA

Professor Dr. Helmut Hesecker, University of Paderborn

10:50–11:10 am

Differences in bioavailability – example selenium

Professor Dr. Regina Brigelius-Flohé, DIfE Potsdam-Rehbruecke

11:10–11:30 am

Modelling the bioavailability of trace elements

Dr. Jorge Numata, BfR

11:30 am–12:15 pm **Discussion**

Moderation: Professor Dr. Hans Schenkel, State Institute for Agricultural Chemistry

12:15–1:00 pm **Final discussion**

1:00–1:15 pm

Conclusions and final remarks

Professor Dr. Dr. Andreas Hensel, BfR

BfR-Symposium “The Role of Bioavailability in Risk Assessment using the Example of Trace Elements”

The purpose of this internationally aligned event is to illuminate the role of the bioavailability of substances within the scope of assessment methods. To begin with, the interdisciplinary definition of bioavailability will be presented from the point of view of human and animal nutrition on the one hand and pharmacology on the other. Using the example of the administering of trace elements in different bonding forms, their possible uses and related analytical challenges will be marked out initially. The currently used methodical approaches for measuring bioavailability will be presented from the point of view of human and animal nutrition. A report on the status of the modelling of bioavailability will be delivered at the end of the event.

The goal of this kick-off event is to present the questions that remain open with regard to the definition and use of the term bioavailability. Answers and possible solutions will be sought and prepared in further expert workshops to be held in the course of the year 2013.

Organiser:

Federal Institute for Risk Assessment
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<http://www.bfr.bund.de>

Venue:

Auditorium of the Federal Institute for Risk Assessment
Diedersdorfer Weg 1, 12277 Berlin (Marienfelde)



Registration:

The event is open to the public free of charge. Please register by **14 January 2013** using the online form under the menu item “Events” at: www.bfr.bund.de/cm/Bioverfuegbarkeit.html

Or write to us giving your name and address and the catchword
“**BIOVERFÜGBARKEIT**” to:
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Safety of Foods and Feeds

“The Role of Bioavailability in Risk Assessment Using the Example of Trace Elements”



16 – 17 January 2013

BUNDESINSTITUT FÜR RISIKOBEWERTUNG