Monday, 15 November 2021

12:30-1:00 pm Registration

Presenter: Jan-Martin Wiarda

1:00-1:15 pm

Welcome and introduction

Professor Dr Dr Andreas Hensel, President of the German Federal Institute for Risk Assessment (BfR). Berlin, Germany

Session I: Recent advances in the application of NAM

Chair: Dr Tewes Tralau, BfR

1:15-1:20 pm

Introduction Session I

1:20-2:20 pm

Recent advances in the field

Professor Dr Thomas Hartung, Johns Hopkins Bloomberg School of Public Health (JHSPH), Baltimore, USA

2:20-3:00 pm

Human organ-on-a-chip models

Professor Dr Adrian Roth, Roche, Basel, Switzerland

3:00-3:30 pm Coffee break

3:30-4:10 pm

Predictions on chronic endpoints,

e.g. carcinogenicity

Professor Dr Stefano Monti, Boston University, Boston, USA

4:10-4:50 pm

High-throughput screening

Dr Anton Simeonov, National Center for Advancing Translational Sciences (NCATS), National Institutes of Health (NIH), Bethesda, USA

4:50-5:30 pm

NAM-derived data in regulatory environments: Templates, AOPs and ontologies

Dr Clemens Wittwehr, Joint Research Centre (JRC), Ispra, Italy

Challenges in Public Health Protection in the 21st Century: New Methods, Omics and Novel Concepts in Toxicology

The upcoming symposium aims to provide an update on major developments in the field of new emerging methods and concepts in toxicology. As a platform for researchers and representatives from academia, industry, and regulatory authorities, the symposium highlights methodological progress (e.g. *in vitro*, *in silico*, omics methods) as well as current and future applications for regulatory risk as sessment. Its broader intention is to share and advance ideas on future possibilities and applications in the field.

Venue:

Langenbeck-Virchow-Haus Luisenstraße 58/59 10117 Berlin Germany Directions

Registration:

Registration free of charge Please register online by 08.11.2021 on the website of the BfR Academy

Contact:

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Organisers:

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UFZ – Helmholtz Centre for Environmental Research Permoserstraße 15 04318 Leipzig Germany www.ufz.de

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Challenges in Public
Health Protection in the
21st Century:
New Methods, Omics and
Novel Concepts in
Toxicology

15-17 November 2021, Berlin







Bundesinstitut für Risikobewertung

Tuesday, 16 November 2021

Presenter: Jan-Martin Wiarda

Session IIa: Use of omics techniques in experimental toxicology

Chairs: Professor Dr Albert Braeuning, BfR
Dr Stefan Scholz, Helmholtz Centre for
Environmental Research (UFZ)

8:30-8:35 am

Introduction Session II

8:35-9:05 am

Scientific confidence in NAMs

Dr Nicole Kleinstreuer, NTP Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM), National Institute of Environmental Health Sciences (NIEHS), Durham, USA

9:05-9:35 am

Integration of multi-(meta)omics in cellular and microbiome toxicity

Professor Dr Martin von Bergen, UFZ

9:35-10:05 am

High-throughput transcriptomics

Dr Joshua Harrill, Center for Computational Toxicology and Exposure, United States Environmental Protection Agency (US EPA), Durham, USA

10:05-10:35 am Coffee break

10:35-11:05 am

Toxico-epigenomics

Professor Dr Joern Walter, Saarland University, Saarbruecken. Germany

11:05-11:35 am

Transcriptomics

Professor Dr Roland Grafstroem, Karolinska Institute, Solna, Sweden

11:35 am - 12:05 pm

Microbiome

Dr Sandrine Ellero-Simatos, TOXALIM Research Centre in Food Toxicology, Toulouse, France

12:05-1:00 pm Lunch break

Session IIb: Use of omics techniques in regulatory toxicology

Chair: Dr Philip Marx-Stoelting, BfR

1:00-1:30 pm

Use of omics for AOP validation and application: liver toxicity as a case study

Professor Dr Mathieu Vinken, Vrije Universiteit Brussel (VUB). Brussel. Belgium

1:30-2:00 pm

EU-ToxRisk, omics data for read-across

Professor Dr Bob van de Water, Leiden University, Leiden. The Netherlands

2:00-2:30 pm

Metabolomics as a tool for read-across

Professor Dr Bennard van Ravenzwaay, BASF, Ludwigshafen am Rhein, Germany

2:30-3:00 pm Coffee break

3:00-3:30 pm

Improved transcriptome assessment

Dr Wibke Busch, UFZ

3:30-4:00 pm

Targeted proteomics

Dr Öliver Poetz, Natural and Medical Science Institute (NMI), University of Tuebingen, Tuebingen, Germany

Wednesday, 17 November 2021

Presenter: Jan-Martin Wiarda

Session III: Current applications – a regulatory authority perspective

Chair: Dr Matthias Herzler, BfR

8:30-8:40 am

Introduction Session III

8:40-9:40 am

Short position talks

European Chemicals Agency (ECHA)

Dr Tomasz Sobanski

European Food Safety Authority (EFSA)

Professor Dr George Kass

The French Agency for Food, Environmental and

Occupational Health & Safety (ANSES)

Dr Pascal Sanders

National Institute for Public Health and the

Environment (RIVM)

Dr Mirjam Luijten

National Food Institute / Technical University

of Denmark (DTU)

Professor Dr Anne Marie Vinggaard

Scientific Committee on Consumer Safety (SCCS)

Professor Dr Vera Rogiers

9:40-10:40 am

Panel discussion

ECHA, EFSA, ANSES, RIVM, DTU, SCCS, BfR

10:40-10:55 am Coffee break

10:55-11:35 am

Position talk

Food Safety Commission of Japan (FSCJ)

Dr Toru Kawanishi

11:35 am - 12:15 pm

Position talk

United States Food and Drug Administration (US FDA)

Dr Weida Tona

United States Environmental Protection Agency (US EPA)

Dr Russell Thomas

12:15-12:25 pm

Concluding remarks and closure

Professor Dr Dr Andreas Hensel, BfR