

Chemical mixtures: challenges for research and risk assessment

CONFERENCE

PROGRAMME

10 & 11
DECEMBER 2013

Maison de la RATP - Espace du Centenaire
189, rue de Bercy
75012 Paris

Under the high patronage
of the French Ministry for Social Affairs and Health,
the French Ministry of Ecology, Sustainable Development
and Energy and the French Ministry for Higher Education
and Research

Chemical mixtures: challenges for research and risk assessment

8:30 *Registration*

9:00 **OPENING**

Marc MORTUREUX, Director General, ANSES, France

9:15 **STATE OF THE ART ON CHEMICAL MIXTURES RESEARCH**

Sibylle ERMLER, PhD – Brunel University, United-Kingdom

10:00 **SESSION 1 – HOW FAR ARE WE IN RESEARCH ON EXPOSURES?**

Moderators: Annette PETERSEN - National Food Institute/DTU, Denmark & Gérard LASFARGUES - ANSES, France

The Exposome: a new concept to support research on causes and prevention

Dr. Christopher P. WILD – International Agency for Research on Cancer (IARC), France

The ACROPOLIS project in summary

Jacob VAN KLAVEREN – National Institute for Public Health and the Environment (RIVM), The Netherlands

11:00 *Coffee break*

11:30 **Identifying mixtures from combined exposure as a first step towards hazard characterization**

Amélie CREPET, PhD – French Agency for Food, Environmental and Occupational Health & Safety (ANSES), France

Development of methodologies to be used for assessing exposure to multiple pesticides

Hermine REICH – European Food Safety Authority (EFSA), Italy

12:30 *Free time for lunch*

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14:00

SESSION 2 – HOW FAR ARE WE IN RESEARCH ON TOXICOLOGY?

Moderators: Dr. Lars NIEMANN - BfR, Germany & Christine NELLEMAN - National Food Institute/DTU, Denmark

Analysis of mixture effects of (tri)azole fungicides in a broad dose range *ex vivo* and *in vitro* with special focus on liver

Tanja HEISE, PhD – BfR, Germany

A concentration addition model to assess activation of the pregnane-X receptor (PXR) by pesticide mixtures found in the French diet

Dr. Roger RAHMANI – Toxalim (Research Centre in Food Toxicology), French National Institute for Agricultural Research (INRA), UMR 1331, France

Mixture effects of endocrine disruptors – severe and predictable

Ulla HASS, professor, PhD – National Food Institute/DTU, Denmark

15:30

Coffee break

15:50

Exposure to pesticide alone or in combination: biomarkers and effects *in vivo* and *in vitro* approaches

Laurence GAMET-PAYRASTRE, PhD – Toxalim (Research Centre in Food Toxicology), UMR 1331 Inra/INP/UPS, France

Mixture effects at relevant human exposure levels?

Professor Anne-Marie VINGAARD – National Food Institute/DTU, Denmark

17:20

CLOSING

Patricia BLANC, Director General, Delegate for major risks, General Directorate for Risk Prevention, representing M. Philippe MARTIN, French minister of Ecology, Sustainable Development and Energy

Chemical mixtures: challenges for research and risk assessment

8:30 *Registration*

8:50 **WELCOME**

Christine Lydia NELLEMAN, National Food Institute/DTU, Denmark

9:00 **MIXTURES RESEARCH AT THE NATIONAL INSTITUTE OF ENVIRONMENT HEALTH SCIENCES**

Cynthia RIDER, PhD – National Institute of Environmental Health Sciences (NIEHS), USA

9:45 **SESSION 3 – RISK ASSESSMENT: CASE STUDIES AND METHODOLOGIES**

Moderators: Professor, Dr. Gilbert SCHÖNFELDER - BfR, Germany & Jean-Nicolas ORMSBY - ANSES, France

Grouping of pesticide active substances for cumulative risk assessment

Nathalie PRINTEMPS – French Agency for Food, Environmental and Occupational Health & Safety (ANSES), France

Cumulative Mixtures Risk Assessment: why simple formulas can work

Richard HERTZBERG, PhD – Emory University, USA

10:50 *Coffee break*

11:15 **Effect directed analysis (EDA) case study applied to endocrine disrupter identification in a river impacted by industrial discharge**

Hélène BUDZINSKI, PhD – University of Bordeaux, France

Cumulative risk assessment of 4 phtalates – A Danish experience

Rikke Doncil HOLMBERG – Environmental Protection Agency (EPA), Denmark

Case study application of the WHO framework for combined exposures

Bette MEEK, PhD – University of Ottawa, Canada

12:45 *Free time for lunch*

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14:15

Mixtures and ways of regulating chemicals in the 20th and 21st centuries

Nathalie JAS, PhD – French National Institute for Agricultural Research (INRA), RiTME, France

14:50

ROUND TABLE: HOW TO ADDRESS CHEMICAL MIXTURES IN RISK ASSESSMENT ? WHAT ARE THE CHALLENGES?

Facilitator: Stefan SCHEUER, Environmental & Energy Policies EU affairs Consultant

Timothy BOWMER, PhD – European Chemicals Agency (ECHA), Finland

Tony MUSU, PhD – European Trade Union Institute (ETUI), Belgium

Bernadette OSSENDORP, PhD – National Institute for Public Health and the Environment (RIVM), Netherlands

Cynthia RIDER, PhD – National Institute of Environmental Health Sciences (NIEHS), USA

Professor Gilbert SCHÖNFELDER – Bundesinstitut für Risikobewertung (BfR), Germany

Lisette VAN VLIET, PhD – Health and Environment Alliance (HEAL), Belgium

Marco VIGHI – DG Sanco scientific committees recommendations on cumulative assessment, Milano University, Italy

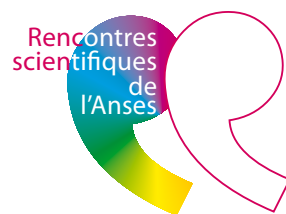
16:40

CLOSING REMARKS

Gérard LASFARGUES, Deputy Director General for Scientific Affairs, ANSES, France

Humans are exposed to multiple substances in their surrounding environment including food, water, air, soil and consumer goods. In the last decades the possible effects of chemical mixtures on humans and on the environment have become a major concern in many countries across the world. This is why scientific experts and risk managers are increasingly addressing this challenge both in supporting research programmes and developing new methodologies to assess risks.

In this context ANSES, National Food Institute/DTU and BfR have decided to convene this conference on the state of the art on chemical mixtures bringing together researchers and scientists from European and cross Atlantic agencies to stimulate international exchange of practices and research knowledge.



ADDRESS

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189, rue de Bercy - 75012 Paris - France