

<p style="text-align: center;">European Commission Scientific Conference Non-animal approaches - the way forward</p>
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6 – 7 December 2016

The Egg, Brussels

Conference Programme

Purpose of the conference is to engage in a dialogue with the scientific community on how to exploit the advances in science for the development of scientifically valid non-animal approaches and advance towards the ultimate goal of phasing out animal testing. The question of the validity and the role of animal models and non-animal approaches in all areas of research and testing will be addressed throughout the conference.

The Conference features moderated panel discussions, involving the audience. It will also be possible to follow the conference via web-stream and to comment via Twitter (#NonAnimalScience).

Each session will start with short introductory presentations. The discussion panels comprise the speakers and additional panel members.

Moderators: Rick Thompson and Aminda Leigh

Tuesday 6 December 2016

8:15 Registration and Welcome Coffee

9:00 Opening address **Karmenu Vella** (Commissioner for the Environment, Maritime Affairs and Fisheries)

9:15 – 11:00 **Session 1 – Animal Testing Today**

- **Malcolm Macleod** (University of Edinburgh, UK) - The value of animal research at present and in the future

- **Jarrod Bailey** (Cruelty Free International, UK) - An analysis of the use of animal models in predicting human toxicology and drug safety

- **Andrew Knight** (University of Winchester, UK) - Animal use and alternatives within life and health sciences education; systematic reviews and human clinical utility of invasive animal research

- **Georg Kollias** (University of Athens, EL) - Contribution of disease modelling to human health: the pan-European INFRAFRONTIER Research Infrastructure, a public resource for mammalian models in biomedical research

Additional panel members:

Roger le Grand (CEA Paris, FR) / Elliott Lilley (RSPCA London, UK) / Richard Frackowiak, (Université de Lausanne, CH)

11:00 – 11:30 Coffee break

11:30 – 13:15 **Session 2 - Biomedical research: strengths & limitations of non-animal alternatives**

- **Jan G. Hengstler** (Leibniz-Institut TU Dortmund, DE) – In silico systems of the liver and possibilities of two-photon based imaging

- **Stefan Platz** (AstraZeneca, DE) - Personalized human genome sequencing

- **Frank Staal** (University of Leiden, NL) - 3Rs in use of laboratory animals for testing and developing regenerative medicine

- **Gerhard Weinbauer** (Covance, DE) - 3Rs in biomedical research – a CRO perspective

Additional panel members:

Thomas Hartung (CAAT Europe)

Cees Smit (European Patient Forum, NL)

Nadia Rosenthal (Imperial College London, UK)

13:15 – 14:15 Buffet lunch / Viewing of posters and exhibition / SEURAT 2016 book launch

14:15 - 16:00 **Session 3 – Regulatory testing: strengths & limitations of non-animal alternatives**

- **Maurice Whelan** (Joint Research Centre) - Validation as a step towards regulatory acceptance and uptake of alternative approaches

- **Warren Casey** (NTP Interagency Center for the Evaluation of Alternative Toxicological Methods, US)
- Developing an Implementation Plan for Toxicity Testing in the 21st Century: Obstacles, Challenges, and Opportunities

- **Robert Kavlock** (EPA, US) – Accelerating the Pace of Chemical Risk Assessments

- **Jan-Willem van der Laan** (Medicines Evaluation Board/ EMA, NL) – 3Rs in Safety Testing of Human and Veterinary Pharmaceuticals

Additional panel members:

Derek Knight (ECHA, FI)

Gianni Dal Negro (EPAA / GSK, IT)

Martin Paparella (MS CA, AT)

Susanne Keitel (EDQM, FR)

Klaus Cussler (PEI, EMA Veterinary side, DE)

16:00 - 16:30 Coffee break

16:30 – 18:30 **Session 4 - Reporting on European Commission actions 1 – 3¹**

16:30 – 16:55 - **Introduction to actions 1 – 3**

- **Action 3** Directive 2010/63/EU implementation and alignment of sector legislation (Susanna Louhimies, DG Environment)

16:55 – 17:20 - **Action 1** Report on Knowledge sharing and recommendations (Tracey Holley, Joint Research Centre)

17:20 – 18:00 **Panel discussion on Knowledge Sharing**

How can Action 1 learnings and recommendations be put in practice?

Panel members:

Amalia-Irina Vlad (DG CONNECT), Elke Anklam (Joint Research Centre), Sylvia Pelgrom (Charles River laboratories), Adrian Smith (Norecopa), Jan van der Valk (3Rs center NL/ ETPLAS), Elliott Lilley (RSPCA), Katrin Schütte (DG ENV)

18:00 – 18:30 - **Action 2** - EU research into new alternative approaches
(Ruxandra Draghia-Akli, DG Research)

18:30 – 20:00 **Networking event / Celebration ECVAM 25 years**

¹ Follow-up actions of the Commission detailed in the [written response](#) to the European Citizens Initiative Stop Vivisection from 3 June 2015.

Wednesday 7 December 2016

8:15 Registration and Welcome Coffee

9:00 **Opening address of Day 2 by Julie Girling, MEP**

9:15 – 10:45 **Session 5 – Responsible Research**

- **Ulrich Dirnagl** (Charité Berlin, DE / BioMed Alliance) – Increasing value and decreasing waste in experimental research

- **Vicky Robinson** (NC3Rs, UK) - Design, analysis and reporting of animal research as part of the NC3R strategy & reproducibility of research

- **Thomas Korff** (University of Heidelberg, DE) - How scientific journals influence implementation of the 3Rs in life sciences

- **Ian Hrynzkiewicz** (Springer Nature, UK) – The role of publishers in improving research quality and reducing waste through open research

Additional panel members:

Louiza Kalokairinou (EU Commission, DG Research)

Lindsay Marshall (HSI, UK)

Beth Thompson (Wellcome Trust, UK)

Merel Ritskes-Hoitinga (University of Nijmegen, NL)

10:45 – 11:15 Coffee break

11:15 – 12:00 **Session 6 – The Future: the way forward / part 1**

- **Mark Viant** (University of Birmingham, UK) - How metabolomics can help lead to animal-free chemical risk assessment

- **Reyk Horland** (Tissuse Berlin, DE) - Multi-Organ-Chip developments: Towards a paradigm shift in drug development

- **Xavier Gidrol** (CEA Grenoble, FR) – 3D-human organoids in oncology

12:00 – 13:00 Buffet lunch and networking opportunity / Viewing of posters and exhibition

13:00 – 14:30 **Session 6 – The Future: the way forward / part 2**

- **Tony Lahoutte** (European Society of Molecular Imaging, BE) – Use of (non-invasive) imaging techniques in improving science and reducing animal use and suffering in basic research

- **Christine Mummery** (University of Leiden, NL) - The 3Rs: are Human Stem Cells and Organs on Chip alternatives? Towards precision medicine in future healthcare

- **Marco Viceconti** (University of Sheffield, UK) - The potential of the Virtual Physiological Human

Additional panel members:

Philippe Detilleux (Sanofi, FR)

Nick Meade (Patients Network for Medical Research and Health / Genetic Alliance, UK)

14:30 - 15:30 **Concluding remarks** (Daniel Calleja Crespo, DG Environment and moderators)