# AGENDA

## TUESDAY, 8 DECEMBER 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
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<tbody>
<tr>
<td>0800</td>
<td>Registration and continental breakfast outside meeting room</td>
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<tr>
<td>0830</td>
<td>Welcome and opening remarks</td>
<td>Troy Seidle, HSI</td>
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<td>0845</td>
<td>Tour de table</td>
<td>All</td>
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<tr>
<td>0900</td>
<td><strong>Keynote lecture:</strong> “Lessons from toxicology: developing a 21st century paradigm for medical research”</td>
<td>Kate Willett, HSI-HSUS</td>
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### SESSION 1 | ALZHEIMER’S DISEASE

*Chair: Troy Seidle*

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<tbody>
<tr>
<td>0930</td>
<td><strong>Keynote lecture:</strong> “Considering a new paradigm for Alzheimer’s disease research”</td>
<td>Gill Langley, HSI</td>
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<tr>
<td>1000</td>
<td>“Human induced pluripotent stem cells as <em>in vitro</em> models for studying the etiology of Alzheimer’s disease”</td>
<td>James Adjaye, Heinrich Heine University</td>
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<tr>
<td>1015</td>
<td>“Computational models in dementia research”</td>
<td>Martin Hofmann-Apitius, University of Bonn</td>
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<tr>
<td>1030</td>
<td>General discussion</td>
<td>All</td>
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<tr>
<td>1100</td>
<td><strong>Break</strong></td>
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### SESSION 2 | AUTISM SPECTRUM DISORDERS

*Chair: Gill Langley*

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1115</td>
<td><strong>Keynote lecture:</strong> “The human model: changing focus on autism research”</td>
<td>Alysson Muotri, University of California San Diego</td>
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<tr>
<td>1145</td>
<td>“Pathways from gene to bedside in autism spectrum disorders research”</td>
<td>Anthony Bailey, University of British</td>
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The use of induced pluripotent stem cells to model neuro-developmental disorders: The MECP2 duplication syndrome as an example

Hilde van Esch, Leuven University

SESSION 3 | CHOLESTATIC LIVER DISEASES
Chair: Kate Willett

Keynote lecture: “A shift in paradigm towards human biology-based systems for cholestatic-liver diseases”
Fozia Noor, Saarland University

“Human hepatocyte spheroids in liver disease research and drug testing”
Magnus Ingelman-Sundberg, Karolinska Institute

“Bridge the gap”
Brigitte Landesmann, EURL-ECVAM

SESSION 4 | ASTHMA AND RESPIRATORY DISEASES
Chair: Troy Seidle

Keynote lecture: “Harnessing opportunities in non-animal asthma research for a 21st-century science”
Ian Adcock, Imperial College London

“Functional genomics in asthma research”
Grzegorz Woszczek, King’s College London

“In sickness and in health: Modeling human airways”
Lindsay Marshall, Aston University

General discussion

Adjourn

Social evening
0830  Continental breakfast outside meeting room

SESSION 5  |  AUTOIMMUNE DISEASE

Chair: Gill Langley

0900  Keynote lecture: “Innovative human-specific investigational approaches to autoimmune disease”
Anja van de Stolpe
Philips Research

0930  “Human Artificial Lymph Node Model (HuALN) for biopharmaceuticals testing and disease modelling in vitro”
Christoph Giese
ProBioGen

0945  “ANCA-associated vasculitis and organ-on-chip” disease models”
Elena Csernok
Klinikum Bad Bramstedt

1000  General discussion

1030  Break

SESSION 6  |  TOWARD A PATHWAYS APPROACH TO HUMAN DISEASE RESEARCH:
EXISTING STRUCTURES & FUNDING FRAMEWORKS

Chair: Emily McIvor

1045  Existing efforts and roadmaps: EU perspective
Emily McIvor, HSI

1100  Existing efforts and roadmaps: North American perspective
Kate Willett, HSI-HSUS

1115  Innovative Medicines Initiative: New technologies in action
Magda Gunn, IMI

1135  Implementing Three Rs through the Directive
Katrin Schutte, DG Environment

1155  General discussion

1215  Break for lunch (buffet)

SESSION 7  |  TOWARD A PATHWAYS APPROACH TO HUMAN DISEASE RESEARCH:
FUTURE STRATEGIES

Co-chairs: Troy Seidle & Gill Langley

1315  Recap of discussion/agreements arising from Sessions 2-5?
Gill Langley, HSI

1330  General discussion

1500  Break

1515  General discussion (continued)

1600  Consensus-building

1700  Close of workshop