

PROGRAMME DAY 1

Thursday, 11 October 2018

7:45 *Registration*

8:30 **WELCOME**

Rudi Balling, Director, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

Rejko Krüger, PEARL Chair and Head, Clinical and Experimental Neuroscience, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

8:45 **KEYNOTE**

Jules A. Hoffmann, Nobel Prize in Physiology or Medicine 2011, Professor at University of Strasbourg for Advanced Study, Chair of Integrative Biology

“Innate Immunity: From Insects to Humans”

INTRODUCTION: WHAT DO TRANSLATIONAL MEDICINE AND PATIENT'S ASSOCIATIONS EXPECT FROM RESEARCH?

Chair: Rudi Balling, Director, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

9:35 **Ulf Nehrbass**, CEO, Luxembourg Institute of Health

“What does translational medicine expect from research?”

9:55 **Mary Baker**, Former President of the European Brain Council

“Societal and Health Challenges of Europe”

10:15 *Coffee break with poster session and industry exhibition*

SESSION 1: GENETICS IN PARKINSON'S DISEASE - ARE WE READY FOR THE NEXT STEP?

Chair: Enrico Glaab, Principal Investigator in the Biomedical Data Science group, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

10:45 Clinical: **Karl Kiebertz**, Professor of Neurology, University of Rochester

“New approaches for future trials on neuroprotective therapies in PD”

11:15 Translational: **Lena Burbulla**, Research Assistant Professor, Department of Neurology, Feinberg School of Medicine, Northwestern University

“Genetics as an entry point for precision medicine”

11:45 Fundamental: **Thomas Gasser**, Director, Department of Neurodegenerative Diseases and Professor of Neurology, Hertie-Institute for Clinical Brain Research, University of Tübingen

“Progress in genetics research on Parkinson's disease”

12:15 **Sean Sapcariu**, Programme Manager, Luxembourg National Research Fund

“FNR Funding Opportunities”

12:25 *Lunch with poster session and industry exhibition*

SESSION 2 : NEW STRATEGIES TO PREVENT NEURODEGENERATION

Chair: Anne Grünewald, Principal Investigator in the Molecular and Functional Neurobiology, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

- 13:30** Clinical: **Christine von Arnim**, Head of the Clinic for Neurogeriatrics and Neurological Rehabilitation at the University and Rehabilitation Hospital Ulm
"Lessons learned from dementia"
- 14:00** Translational: **Anja Schneider**, Director, Department of Neurodegenerative Diseases and Geriatric Psychiatry, University Clinic Bonn & Group leader at German Center for Neurodegenerative Diseases
"Fluid biomarkers for early detection of neurodegenerative diseases"
- 14:30** Fundamental: **Russell Swerdlow**, Director of Neurodegenerative Disease Programm and Alzheimer's Disease Center, Institute for Reproductive Health and Regenerative Medicine, University of Kansas School of Medicine
"Mitochondrial dysfunction, mtDNA and neurodegeneration"
- 15:00** Young researcher: **Cristina Guardia-Laguarta**, Columbia University Medical Center
"Alpha-synuclein mutations present with different mitochondrial phenotype"
- 15:15** *Coffee break with poster session and industry exhibition*
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SESSION 3: SMART DEVICES AND SENSOR-BASED TECHNOLOGIES

Chair: Reinhard Schneider, Head of Bioinformatics Core facility, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

- 15:45** Clinical: **Jochen Klucken**, Vice Head, Department of Molecular Neurology at the University Hospital Erlangen, Friedrich-Alexander University Erlangen-Nürnberg
"The role of sensor based technologies in future health care concepts"
- 16:15** Translational: **Jens Clausen**, Head of Department Ethics and Lifesciences and their Didactics, University of Education, Freiburg
"Brain-machine interfaces and ethical dimensions of neuroprosthetics"
- 16:45** Fundamental: **Lara Mangravite**, President, Sage Bionetworks
"Smartphone-based monitoring of PD symptoms"
- 17:15** Young researcher: **Peter Banda**, Luxembourg Centre for Systems Biomedicine, University of Luxembourg
"Ada: The Clinical and Translational Data Integration and Exploration Platform for Scalable Analysis and Machine Learning"
- 17:30** *Wrap up*
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- 18:30** *Walking Dinner in Hall des Poches, campus Belval*
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PROGRAMME DAY 2

Friday, 12 October 2018

7:45 *Registration*

8:20 **KEYNOTE**

Caroline M. Tanner, Professor, Neurology, University of California San Francisco & Director, Parkinson's Disease Research Education and Clinical Center, San Francisco Veterans Affairs Health Care System

"Environmental factors in the pathogenesis of Parkinson's Disease"

SESSION 4: IS PARKINSON'S DISEASE READY FOR PRECISION MEDICINE?

Chair: Jens Schwamborn, Principal Investigator in the Developmental & Cellular Biology group, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

9:00 Clinical: **Nobutaka Hattori**, Professor and Chairman, Department of Neurology, Juntendo University

"The translational impact of monogenic Parkinson's disease"

9:30 Translational: **Ronan T. Fleming**, Assistant Professor, Division of Systems Biomedicine and Pharmacology, Leiden Academic Centre for Drug Research, Faculty of Science, Leiden University

"Mechanistic computational modelling of the aetiopathogenesis of Parkinson's disease"

10:00 *Coffee break with poster session and industry exhibition*

10:30 Fundamental: **Olga Corti**, Research Director, French National Institute of Health and Medical Research (Inserm)

"The PINK1/Parkin pathway and its dysfunction in Parkinson's disease"

11:00 Fundamental: **Serge Przedborski**, Vice Chair of Research, Department of Neurology, Columbia University New York

"Is the neuron-centric approach to neurodegeneration a misguided route?"

11:30 Young researcher: **Javier Jarazo**, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

"Modulation of autophagy in Parkinson's disease"

SESSION 5 : COHORTS AS TEST BEDS

Chair: Rejko Krüger, Principal Investigator in the Clinical & Experimental Neuroscience group, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

11:45 Clinical: **Wolfgang Oertel**, Hertie-Senior-Research-Professor, Department of Neurology, Philipps University Marburg

"Are we ready for moving towards clinical trials with disease modifying compounds in Parkinson syndromes?"

12:15 Translational: **Alastair Noyce**, Clinical Senior Lecturer in Preventive Neurology, Queen Mary University of London
"Emerging concepts for web-based assessment of risk cohorts for Parkinson's disease"

12:45 *Lunch with poster session and industry exhibition*

13:45 Fundamental: **Paul Wilmes**, Principal Investigator, Luxembourg Centre for Systems Biomedicine, University of Luxembourg
"Understanding the role of the microbiome in Parkinson's disease"

14:15 Young researcher: **Sarah Becker**, Hertie Institute for Clinical Brain Research and German Center for Neurodegenerative Diseases (DZNE), University of Tübingen
"Non-motor symptoms and activities of daily living impairments in Parkinson's disease"

SESSION 6: MULTIDISCIPLINARY APPROACH TO PARKINSON'S DISEASE CARE

Chair: Michel Mittlebronn, Principal Investigator in the Neuropathology group, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

14:30 Clinical: **Pille Taba**, Professor of Neurology, University of Tartu
"Emerging concepts for integrated management of Parkinson's disease"

14:50 Clinical: **Elke Kalbe**, Head of Department Medical Psychology, University Clinic Cologne
"Cognitive training as an intervention to prevent dementia?"

15:10 Clinical: **Mariella Graziano**, Former President of the Association of Physiotherapists in Parkinson's disease Europe
"What does physiotherapy offer to people with Parkinson's disease?"

15:30 Clinical: **Grit Mallien**, Speechtherapist and practice owner, Doktor Logo
"Strategies to improve voice and speech in Parkinson's disease"

15:50 PANNEL DISCUSSION: EMERGING TOPICS FOR PROVIDING VALUE-BASED RESEARCH AND CARE TO PATIENTS

Moderator: Rejko Krüger, Principal Investigator in the Clinical & Experimental Neuroscience group, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

Elke Kalbe, Head of Department Medical Psychology, University Clinic Cologne

Mariella Graziano, Former President of the Association of Physiotherapists in Parkinson's disease Europe

Grit Mallien, Speechtherapist and practice owner, Doktor Logo

Frank Michler, Co-founder, Jung und Parkinson

Pille Taba, Professor of Neurology, University of Tartu

16:20 *Wrap up and closing*
