

EHDN2021 Remote Meeting, Sep. 9 – 11

Meeting Hosts: Anne Rosser and Jean-Marc Burgunder

THURSDAY, SEPTEMBER 9th, 2021

14:00 - 14:30 WELCOME AND INTRODUCTION + EHDN Business

Anne Rosser, Astri Arnesen

14:30 - 15:00 KEYNOTE SESSION I: From fruitfly biorhythm genetics to Huntington's

Charalambos P. Kyriacou

15:00 - 16:00 PLENARY SESSION I: Genetic modifiers of HD: DNA damage and somatic expansion of repeats

Chaired by Lesley Jones and Davina Hensman

1. Gene editing for expanded CAG/CTG repeat disorders: making a long story short (20 min)

Vincent Dion

2. Using histone deacetylase 3 inhibition to rein in HD expansion mutations (20 min)

Bob Lahue

3. Dissecting Genetic Modifiers of HD: Towards Understanding Mechanism (20 min)

Vanessa Wheeler

16:00 - 16:30 BREAK

16.30 - 16.35 Announcement: HDYO donation

Matthew Ellison

16:35 - 17:35 PLENARY SESSION II: Cognition

Chaired by Jaime Kulisevsky and Saul Martinez-Horta

1. Session presentation (5 min)

Saul Martinez-Horta

2. Visual system integrity in Huntington's disease (20 min)

Michael Orth

3. Hippocampal-dependent memory in Huntington's disease (20 min)

Julie Stout

4. Q&A (10 min)

5. Closing remarks (5 min)

Jaime Kulisevsky

17:35 - 18:35 SHORT COMMUNICATIONS I

Chaired by: Esther Cubo and Lauren Byrne

1. Research Participation: The View of Persons at Risk and Persons with Premanifest HD

Filipa Júlio

2. Huntington's Disease Burden of Illness (HDBOI): Study Methodology, Sample Representativeness and Fieldwork Risk Mitigation Strategy During the COVID-19 Pandemic

Idaira Rodríguez

3. Comparison of models for estimating Age at motor onset in HD

Peter Holmans

4. Skill-Based Dysphagia Training as an Intervention for Individuals with HD

Emma Burnip

5. Introducing JOIN-HD: The Juvenile Onset Initiative for Huntington's Disease

Rebecca Mason

18:35 - 18:50 ROUND-UP and Goodbye for the day

Hosts Anne Rosser and Jean-Marc Burgunder with Sandrine Humbert and Bernhard Landwehrmeyer

18:50-19:00 BREAK

19:00 - 20:00 POSTER SESSION: meet the poster presenter

FRIDAY, SEPTEMBER 10th, 2021

13:00-14:00 POSTER SESSION: meet the poster presenter

14:00 - 14:05 Announcement: MDS/EHDN teaching course

Michael Orth

14:05 - 15:35 PLENARY SESSION III: Cognition*

**This Session involves content created by Industry (in agreement with the EHDN Program Committee). Different Pharma industries have the opportunity to present their current trials, results and upcoming projects.*

15:35 - 15:45 BREAK

15:45 - 16:30 PANEL DISCUSSION

With the Speakers from Plenary Session III

16:30 - 16:45 BREAK

16:45 - 17:45 PARALLEL SESSIONS

Neuro-Development

Chaired by: Sandrine Humbert and Silvia Gines

- 1. Huntington's disease alters cortical development in mouse and human (20 min)**
Monia Barnat
- 2. Pediatric onset Huntington disease: neuro developmental delay or early neurodegeneration? (20 min)**
Ferdinando Squitieri
- 3. Specific developmental alterations of striatal subpopulations in Huntington's disease (20 min)**
Josep Canals

Multidisciplinary care

Chaired by: Marleen van Walsem and Ruth Veenhuizen

- 1. Introduction (5 min):** Multidisciplinary care and treatment: focus on care in advanced stages: challenges and approaches for managing
- 2. Challenges and practise-based approaches in professional advanced care (15 min)**
Marleen van Walsem
- 3. Patients with Huntington's disease living in a nursing home: characteristics, functioning, and gender differences (15 min)**
Ruth Veenhuizen
- 4. Passivities of daily living (15 min)**
Manon van Kampen
- 5. Discussion (10 min)**

17:45 - 18:45 SHORT COMMUNICATIONS II

Chaired by: Ahmad Aziz and Maria Björkqvist

1. Fronto-Striatal Circuits for Cognitive Flexibility in far from Onset Huntington's Disease: Evidence from the Young Adult Study

Christelle Langley

2. Mutation-Related Apparent Myelin, not Axon Density, Drives White Matter Pathology in Premanifest Huntington's Disease: Evidence from in Vivo Ultra-Strong Gradient MRI

Chiara Casella

3. A Different Depression: Antidepressant Efficacy and Cognitive Mechanisms of Mood Disorder in Huntington's Disease

Duncan McLauchlan

4. Clinical Translation of Stem Cell Therapies for Huntington's Disease (HD)

Anne Rosser

5. Triheptanoin is Associated with Clinical Stability and Decreased Caudate Atrophy in HD

Fanny Mochel

18:45 - 19:00 ROUND-UP and Goodbye for the day

Hosts Anne Rosser and Jean-Marc Burgunder with Ahmad Aziz and Dina de Sousa

19:00 - 20:00 POSTER SESSION: meet the poster presenter

SATURDAY, SEPTEMBER 11th, 2021

13:00 - 14:00 POSTER SESSION: meet the poster presenter

14:00 - 15:00 SHORT COMMUNICATIONS III

Chaired by: Kathrin Reetz and Jean-Marc Burgunder

1. FAN1 Controls CAG Repeat Expansion in Huntington's Disease by Dual Functions, MLH1 Retention and Nuclease Activity

Joseph Hamilton

2. Striatal Procedural Memory-Induced Transcriptome and Epigenome are Severely Impaired in Huntington's Disease Mice

Rafael Alcalá-Vida

3. A New In Vivo and In Vitro Single-Cell Atlas of Developing Medium Spiny Neurons to Guide Future Improvements for Huntington Disease Cell-Replacement Therapies and Disease Modelling

Vittoria Bocchi

4. Huntingtin-Mediated Axonal Transport Requires Arginine Methylation by PRMT6

Alice Migazzi

5. The 'Hold me Tight' Relationship Program for Couples Facing Huntington's Disease

Lucienne van der Meer

15:00 - 16:00 PARALLEL SESSIONS

Digital Technologies to Advance Assessment and Care in HD

Chaired by Alzbeta Mühlbäck and Monica Busse

1. Introduction to the session: Landscape View of the Field (10 min)

Monica Busse

2. IDEA-FAST (15 min)

Ralf Reilmann

3. eHealth Platform for HD overview (10 min)

Pearl van Lonkhuizen

4. DOMINO-HD overview (15 min)

Philippa Morgan-Jones

5. Panel Discussion: Ethical & practical challenges (10min)

All speakers and chairs

Sleep, circadian rhythm and metabolism in HD

Chaired by: Patrick Weydt and Asa Petersen

1. Introduction to the topic by the chairs

2. Sleep and metabolism in Huntington disease (15 min)

Roger Barker

3. Clock genes and circadian rhythm (15 min)

Charalambos P. Kyriacou

4. Targeting cholesterol metabolism as a therapy for Huntington disease (15 min)

Sandrine Betuing

5. Summary and practical tips (15 min)

16:00 - 16:15 BREAK

16:15 - 17:45 PLENARY SESSION IV*

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17:45 - 18:00 BREAK

18:00 - 18:45 KEYNOTE SESSION II: Outlook

Chaired by: Dina de Sousa and Giorgos Papantoniou

New staging system in HD extending the window of testing and treatment

Cristina Sampaio (30 min)

Q&A (15 min)

18:45 - 19:40 ROUND-UP and Goodbye for the day

Chaired by: Anne Rosser and Jean-Marc Burgunder

Historical perspective (30 min) with Q&A (15 min)

Tom Bird

Goodbye (10 min)

Hosts Anne Rosser and Jean-Marc Burgunder with Tom Bird, Astri Arnesen and Matthew Ellison