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GRAND CHALLENGES IN PARKINSON'S DISEASE

NON-MOTOR SYMPTOMS | VAN ANDEL RESEARCH INSTITUTE

September 26-27, 2018



www.grandchallengesinpd.org

Wednesday, September 26, 2018

7:45 a.m. Continental breakfast

WELCOME AND JAY VAN ANDEL AWARD ADDRESS

- 8:30 a.m. Peter A. Jones, Ph.D., D.Sc. (hon) – Van Andel Research Institute
Welcome and opening remarks
- 8:35 a.m. Viviane Labrie, Ph.D. – Van Andel Research Institute
Introduction of honoree K. Ray Chaudhuri, M.D., FRCP, D.Sc.
- 8:40 a.m. K. Ray Chaudhuri, M.D., FRCP, D.Sc. – King's College Hospital and King's College London
Jay Van Andel Award for Outstanding Achievement in Parkinson's Disease Research
From motor Parkinson's to non-motor Parkinson's: Measurement, subtypes, personalized medicine and the future
- 9:40 a.m. Discussion
- 9:55 a.m. Break

REM SLEEP DISTURBANCES AND FATIGUE IN PARKINSON'S DISEASE

SESSION CHAIR: Patrik Brundin, M.D., Ph.D. – Van Andel Research Institute

- 10:10 a.m. Ron Postuma, M.D., M.Sc. – Montreal General Hospital
Observing prodromal disease: RBD as a window
- 10:40 a.m. Michele Hu, MBBS, FRCP, Ph.D. – University of Oxford
How common are non-motor symptoms in prodromal and early motor Parkinson's disease?
- 11:10 a.m. Abstract selected talk
Jeffrey Boertien, M.Sc., M.D. – University Medical Center Groningen
Dutch Parkinson Cohort (DUPARC)
- 11:25 a.m. Discussion
- 11:40 a.m. Lunch

THE GUT AS A SITE OF ORIGIN FOR PARKINSON'S DISEASE

SESSION CHAIR: Kathleen Shannon, M.D. – University of Wisconsin School of Medicine and Public Health

- 1:00 p.m. Filip Scheperjans, Ph.D., M.D. – Helsinki University Hospital
Gut microbiota in Parkinson's disease
- 1:30 p.m. Ayse Ulusoy, Ph.D. – German Center for Neurodegenerative Diseases (DZNE)
The role of dorsal motor nucleus of the vagus nerve in long distance alpha-synuclein transfer
- 2:00 p.m. Per Borghammer, M.D., Ph.D., D.MSc. – Aarhus University Hospital
In vivo staging of pathology in prodromal Parkinson's disease — using multi-modality PET-MRI
- 2:30 p.m. Discussion
- 2:45 p.m. Break

HYPOSMIA: EARLY OLFACTORY CHANGES INVOLVED IN PARKINSON'S DISEASE

SESSION CHAIR: Pascal Derkinderen, M.D., Ph.D. – Nantes University

- 3:00 p.m. Hong-Lei Chen, M.D., Ph.D. – Michigan State University
The changing landscape of Parkinson's etiologic research
- 3:30 p.m. Heinz Reichmann, M.D. – University of Dresden
How to explain hyposmia in Parkinson's disease
- 4:00 p.m. Abstract selected talk
Bryan Killinger, Ph.D. – Van Andel Research Institute
The veriform appendix contributes to the development of Parkinson's disease
- 4:15 p.m. Discussion

4:45 p.m. Poster session

6:30 p.m. Dinner
Please note, attendees must have signed up during registration

Thursday, September 27, 2018

7:45 a.m. Continental breakfast

GENOMIC CONTRIBUTIONS TO NON-MOTOR SYMPTOMS

SESSION CHAIR: Gerry Coetzee, Ph.D. – Van Andel Research Institute

- 8:30 a.m. Ziv Gan-Or, M.D., Ph.D. – Montreal Neurological Institute and Hospital, McGill University
The genetics of REM sleep behavior disorder
- 9:00 a.m. Rita J. Louro Guerreiro, M.Sc., Ph.D. – University College London
Genomic contributions to cognitive decline in Parkinson's disease and related disorders
- 9:30 a.m. Abstract selected talk
Luis M. Oliveira, Ph.D. – The Michael J. Fox Foundation for Parkinson's Research
MJFF strategy for research funding in non-motor symptoms in PD
- 9:45 a.m. Discussion
- 10:00 a.m. Break

INTERPLAY OF INFLAMMATION AND NON-MOTOR SYMPTOMS

SESSION CHAIR: Jeffrey H. Kordower, Ph.D. – Rush University Medical Center and Van Andel Research Institute

- 10:15 a.m. Sarkis Mazmanian, Ph.D. – California Institute of Technology (Caltech)
The gut microbiome impacts motor and non-motor symptoms in a PD mouse model
- 10:45 a.m. Kathleen Shannon, M.D. – University of Wisconsin School of Medicine and Public Health
Digging beneath the surface: The importance of non-motor Parkinson's disease
- 11:15 a.m. Abstract selected talk
Aaron Massey, B.S. – University of Colorado, Denver
Role of alpha-synuclein in immune modulation during West Nile virus infection
- 11:30 a.m. Discussion
- 11:45 a.m. Break
- 1:10 p.m. Tom Isaacs Award presentation
- 1:15 p.m. Report from *Rallying to the Challenge*

PERIPHERAL BIOMARKERS

SESSION CHAIR: Viviane Labrie, Ph.D. – Van Andel Research Institute

- 1:45 p.m. Lana Chahine, Ph.D. – University of Pittsburgh
Peripheral tissue alpha-synuclein in Parkinson's disease: Results of the systemic synuclein sampling study
- 2:15 p.m. Pascal Derkinderen, M.D., Ph.D. – Nantes University
Alpha-synuclein in GI biopsies as a biomarker for PD, is there still any hope?
- 2:45 p.m. Discussion

COGNITION, PSYCHOSIS AND DEPRESSION

SESSION CHAIR: Lena Brundin, M.D., Ph.D. – Van Andel Research Institute

- 3:00 p.m. Jennifer Goldman, M.D., M.S. – Rush University Medical Center
Neuropsychiatric issues in Parkinson's disease: where are we now?
- 3:30 p.m. Nicolaas Bohnen, M.D., Ph.D. – University of Michigan
Regional cortical cholinergic vulnerability, amyloidopathy, brain network hubs and cognition in PD
- 4:00 p.m. Discussion
- 4:15 p.m. Viviane Labrie, Ph.D. – Van Andel Research Institute
Closing remarks