GRAND CHALLENGES IN PARKINSON’S DISEASE

WHERE AND HOW DOES PARKINSON’S START?

September 23–25, 2020

WELCOME TO GRAND CHALLENGES IN PARKINSON’S DISEASE 2020

Thank you for joining us for Grand Challenges in Parkinson’s Disease: When and How Does Parkinson’s Start? This year’s virtual program will utilize Zoom for talks and Slack for the poster session. Please check your email each day for the appropriate links.

Attendees also are welcome to attend Rallying to the Challenge, a parallel meeting designed for and by people with Parkinson’s.

For questions, please email Event Organizer Kim Cousineau at kim.cousineau@vai.org.

WEDNESDAY, SEPTEMBER 23, 2020

11:00 a.m.  Lena Brundin, M.D., Ph.D. — Van Andel Institute
            Welcome remarks

SESSION 1: ENVIRONMENTAL TRIGGERS AND PRODROMAL PARKINSON’S DISEASE
SESSION CHAIR: Hong-yuan Chu, Ph.D. — Van Andel Institute

11:10 a.m.  Honglei Chen, M.D., Ph.D. — Michigan State University
            Studying environmental risk factors for prodromal PD — face the challenges

11:40 a.m.  Richard Smeyne, Ph.D. — Thomas Jefferson University
            Is Parkinson’s disease an immune disorder?

12:10 p.m.  Discussion

SESSION 2: INFLAMMATION AND PRODROMAL PARKINSON’S DISEASE
SESSION CHAIR: Lena Brundin, M.D., Ph.D. — Van Andel Institute

12:25 p.m.  David Standaert, M.D., Ph.D. — University of Alabama at Birmingham
            Innate and adaptive immunity in Parkinson’s disease

12:55 p.m.  Diana Matheoud, M.D., Ph.D. — University of Montreal
            The role of mitochondrial antigen presentation in Parkinson’s disease

1:25 p.m.   Ronald Tjalkens, Ph.D. — Colorado State University
            Infection with western equine encephalitis virus as a model for Parkinson’s disease

1:55 p.m.   Discussion

JAY VAN ANDEL AWARD KEYNOTE ADDRESS

2:10 p.m.   Patrik Brundin, M.D., Ph.D. — Van Andel Institute
            Introduction of Jay Van Andel Award honorees

2:15 p.m.   Jay Van Andel Award for Outstanding Achievement in Parkinson’s Disease Research lecture
            Daniela Berg, M.D. — Christian-Albrechts-University of Kiel
            Approaching prodromal Parkinson’s disease

2:45 p.m.   Jay Van Andel Award for Outstanding Achievement in Parkinson’s Disease Research lecture
            Ron Postuma, M.D., M.Sc. — McGill University
            Prodromal PD: Sleep as a window

3:15 p.m.   Discussion
THURSDAY, SEPTEMBER 24, 2020
SESSION 3: NEURAL CIRCUIT DYSFUNCTION AND PRODROMAL PARKINSON’S DISEASE
SESSION CHAIR: Hong-yuan Chu, Ph.D. — Van Andel Institute
11:00 a.m. Daniel W. Wesson, Ph.D. — University of Florida
Interrogating olfactory circuitry to gain mechanistic insights into Parkinson’s disease
11:30 a.m. Josh Goldberg, Ph.D. — The Hebrew University of Jerusalem
A neuroprotective response to a-synuclein causes dysautonomia in models of prodromal Parkinson’s disease
12:00 p.m. Discussion

SESSION 4: FLUID AND TISSUE MARKERS OF PRODROMAL PARKINSON’S DISEASE
SESSION CHAIR: Lena Brundin, M.D., Ph.D. — Van Andel Institute
12:15 p.m. Alice Chen-Plotkin, M.D. — Perelman School of Medicine at University of Pennsylvania
How we move toward a molecular definition of Parkinson’s disease
12:45 p.m. Brit Mollenhauer, M.D. — University Medical Center Goettingen
Biomarkers in manifest and prodromal Parkinson’s
1:15 p.m. Roy Freeman, M.D. — Harvard Medical School
Cutaneous deposition of alpha-synuclein in Parkinson’s disease and the synucleinopathies
1:45 p.m. Perdita Barran, D.Phil. — University of Manchester
Diagnosis of Parkinson’s disease from sebum — insights to lipid dysregulation that are more than skin deep
2:15 p.m. Discussion
2:30 p.m. Poster session

FRIDAY, SEPTEMBER 25, 2020
SESSION 5: IMAGING MARKERS OF PRODROMAL PARKINSON’S DISEASE
SESSION CHAIR: Patrik Brundin, M.D., Ph.D. — Van Andel Institute
11:00 a.m. Per Borghammer, M.D., Ph.D., D.Msc. — Aarhus University Hospital
Brain-first and body-first Parkinson’s disease — visualized by multi-modal imaging studies
11:30 a.m. Xuemei Huang, M.D., Ph.D. — Penn State University
From clinical observations to the studies of motor synergy: the implication in early detection of Parkinson’s disease
12:00 p.m. Michele Hu, MBBS, FRCPI, Ph.D. — University of Oxford
Developing a polymodal imaging biomarker for prodromal Parkinson’s
12:25 p.m. Discussion
12:40 p.m. Concluding remarks and presentation of the Tom Isaacs Award
Symposium attendees are asked to join Rallying to Challenge for the award presentation