

Scientific symposium
"Detecting Parkinson's disease at early stage with MRI:
recent advances and promising approaches"



MAX PLANCK INSTITUTE
 FOR HUMAN COGNITIVE AND BRAIN SCIENCES

12 October 2022

Time	Activity	Speaker
09:00 am – 09:15 am	Welcome	Nikolaus Weiskopf <small>MPI CBS</small>
09:15 am – 13:00 pm	Session 1: Imaging iron in prodromal and early-stage PD <i>Chair: Nikolaus Weiskopf</i>	
09:20 am – 10:05 am	Using STAGE imaging as a means to quantify neuromelanin and iron biomarkers in the study of Parkinson's disease and other movement disorders.	Mark Haacke <small>Wayne State University, Detroit, USA</small>
10:05 am – 10:50 am	Chi-separation, SMWI and Sandwich neuromelanin for Parkinson's disease	Jongho Lee <small>Seoul National University, Seoul, Korea</small>
10:50 am – 11:20 am	Coffee break	
11:20 am – 12:20 pm	Early MRI markers of Parkinson's disease: contribution to physiopathology	Stéphane Lehericy <small>Paris Brain Institute (ICM), Sorbonne-University, Paris, France</small>
12:20 pm – 12:50 pm	Towards nigral histology using MRI	Evgeniya Kirilina <small>MPI CBS</small>
12:50 pm – 02:20 pm	Lunch	
02:20 pm – 04:00 pm	Session 2: Mapping integrity of nigral nuclei: multi-modal, ultra-high resolution, quantitative approaches <i>Chair: Evgeniya Kirilina</i>	
02:25 pm – 02:55 pm	Simultaneous high resolution QSM and MPM at 7 Tesla using highly-segmented multi-contrast 3D-EPI with homogenous universal RF pulses	Yannik Voelzke <small>German Center for Neurodegenerative Diseases, Bonn, Germany</small>
02:55 pm – 03:25 pm	High resolution multi parametric mapping acquisition for <i>in vivo</i> histology by MRI	Kerrin Pine <small>MPI CBS</small>
03:25 pm – 03:55 pm	Unified reconstruction and R2*-mapping of accelerated 7T multi-echo MP2RAGE data using the qRIM	Matthan Caan <small>Amsterdam University Medical Center, Amsterdam, Netherlands</small>
03:55 pm – 04:25 pm	Coffee break	
04:25 pm – 07:00 pm	Session 3: Exploring neuromelanin and other contrasts <i>Chair: Malte Brammerloh</i>	
04:30 pm – 05:15 pm	Imaging the locus coeruleus at 3T versus 7T to detect preclinical Alzheimer's disease	Heidi Irma Louisa Jacobs <small>Massachusetts General Hospital, Harvard Medical School, Boston, USA</small>
05:15 pm – 06:15 pm	Using MRI/MRS to support experimental medicine for Parkinson's disease and related disorders	James Rowe <small>University of Cambridge, Cambridge, UK</small>
06:15 pm – 06:45 pm	Spatial changes in basal ganglia microstructure with age and Parkinson's disease	Aviv Mezer <small>Hebrew University of Jerusalem, Jerusalem, Israel</small>
06:45 pm – 07:00 pm	Closing remarks	Nikolaus Weiskopf <small>MPI CBS</small>