

Tentative Program

AI & Technological Innovation

September 5 (Mon.)

Place: Room D (2F)

Session Time: 13:30-14:40

OP-M-D-1

13:30-13:40

Implantation Accuracy of Novel Polyimide Stereotactic Electroencephalographic Depth Electrodes - a Human Cadaveric Study

Presenter: Michael C. Park (United States)

Co-Authors: Michael C. Park, Jamie J. Van Gompel, Robert A. McGovern, Richard Marsh, Farida Akberali, Camilo A. Diaz-Botia, Aura Kullmann

OP-M-D-2

13:40-13:50

Sub-Second Fluctuations of Extracellular Dopamine and Serotonin Levels Encode Learning Signals that Influence Behavioral Control and Conscious Phenomenal Experience in Humans

Presenter: Kenneth Kishida (United States)

Co-Authors: Kenneth Kishida, Adrian Laxton, Stephen Tatter

OP-M-D-3

13:50-14:00

Probabilistic Mapping Reveals Optimal Stimulation Site in Essential Tremor

Presenter: Sabry Barlatey (Switzerland)

Co-Authors: Sabry Barlatey, Andreas Nowacki, Bassam Al-Fatly, Till Dembek, Maarten Bot, Alexander L. Green, Dorothee Kübler, M. Lenard Lachenmayer, Ines Debove, Alba Segura-Amil, Andreas Horn, Veerle Visser-Vandewalle, Rick Schuurman, Michael Barbe, Tipu Z. Aziz, And

OP-M-D-4

14:00-14:10

Tractography-Based Thalamic Segmentation and White Matter Connectivity Predicts Symptom Improvement after Deep Brain Stimulation for Spasmodic Dysphonia

Presenter: Michael Hart (United Kingdom)

Co-Authors: Michael Hart, Christopher Honey

OP-M-D-5

14:10-14:20

Machine Learning-Driven Individualized MR-Guided Focused Ultrasound Thalamotomies

Presenter: Alexandre Boutet (Canada)

Co-Authors: Alexandre Boutet, Jurgen Germann, Alfonso Fasano, Michael L. Schwartz, Andres M. Lozano

OP-M-D-6

14:20-14:30

Analysis and Comparison of Gait Impairments in Patients with Parkinson's Disease and Normal Pressure Hydrocephalus Using Wearable Sensors and Machine Learning Algorithms

Presenter: Stefano Magni (Luxembourg)

Co-Authors: Stefano Magni, Rene Peter Bremm, Sylvie Lecossois, Beatriz Garcia Santa Cruz, Laurent Mombaerts, Andreas Husch, Jorge Goncalves, Frank Hertel

OP-M-D-7

14:30-14:40

Seven Years of 7-Tesla in Deep Brain Stimulation for Parkinson's Disease: Pinpointing the Dorsal STN

Presenter: Maarten Bot (Netherlands)

Co-Authors: Maarten Bot, Niels Rijks, Lisa Verlaat, Naomi Kremer, Varvara Mathiopoulou, Francisca Ferreira, Mark Robers, Rob de Bie, Pepijn van den Munckhof, P. Richard Schuurman