

# Molecular, Imaging, and Digital Biomarkers in Parkinson's Disease and Related Disorders


## PROGRAM



### Organizers



 <https://bpd2026.neuro-hr.org>

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**24.-26. September 2026.**  
**Hotel Sheraton**  
**Zagreb, CROATIA**

## DAY 1 – THURSDAY | Molecular Mechanisms and Neuroimmunology

Time	Session / Talk
08:45 – 09:30	Registration & Morning Coffee
09:30 – 09:45	Welcome & Opening Remarks – Organizing Committee
<b>SESSION 1 – Molecular Drivers of Parkinson’s Disease</b>	
09:45 – 10:15	Tiago Outeiro – Alpha-synuclein biology and mechanisms of neurodegeneration
10:15 – 10:45	Fran Borovecki – Genetics and molecular pathways in Parkinson’s disease
10:45 – 11:15	Selected Abstracts – Oral Presentations
11:15 – 11:45	Coffee Break
<b>SESSION 2 – Neuroimmune Mechanisms in PD</b>	
11:45 – 12:15	Antonela Blažeković – Single-cell immune landscape in Parkinson’s disease
12:15 – 12:45	TBD– Microglia and neuroinflammatory pathways in Parkinson’s disease
12:45 – 13:15	Selected Abstracts – Oral Presentations
13:15 – 14:30	Lunch Break and Poster Session
<b>SESSION 3 – Genetic and Cellular Models of Neurodegeneration</b>	
14:30 – 15:00	Dinko Mitrečić – Cellular mechanisms of neurodegeneration revealed by neural stem cell models
15:00 – 15:30	Davor Lessel – Rare genetic disorders as models for understanding neurodegenerative mechanisms
15:30 – 16:00	Selected Abstracts – Oral Presentations
16:00 – 16:30	Coffee Break
16:30 – 17:15	Round Table - From molecular mechanisms to biomarkers: how close are we to disease-modifying therapies in PD?
19:30	Conference Gala Dinner

## DAY 2 – FRIDAY | Biomarkers and Clinical Heterogeneity

Time	Session / Talk
09:00 – 09:30	Morning Coffee & Networking
<b>SESSION 4 – Biomarkers in Parkinson’s Disease</b>	
09:30 – 10:00	Angelo Antonini – Protein aggregation biomarkers: alpha-synuclein seeding assays and beyond
10:00 – 10:30	Goran Šimić – Fluid biomarkers for early detection of Parkinson’s disease
10:30 – 11:00	Selected Abstracts – Oral Presentations
11:00 – 11:30	Coffee Break
<b>SESSION 5 – Clinical Phenotypes and Disease Progression</b>	
11:30 – 12:00	Milica Kramberger – Cognitive impairment in Parkinson’s disease
12:00 – 12:30	Iva Stankovic – Clinical heterogeneity in Parkinson’s disease
12:30 – 13:00	Selected Abstracts – Oral Presentations
13:00 – 14:15	Lunch Break and Poster Session
<b>SESSION 6 – Neuroimaging in Parkinson’s Disease</b>	
14:15 – 14:45	Ivan Blažeković – Imaging biomarkers for early diagnosis and disease progression in Parkinson’s disease
14:45 – 15:15	Irena Rektorova – Multimodal neuroimaging in Parkinson’s disease: MRI, PET and connectomics
15:15 – 15:45	Selected Abstracts – Oral Presentations
15:45 – 16:15	Coffee Break
16:15 – 17:15	Round Table – Future directions in Parkinson’s disease research
19:30	Invited Speakers Dinner

## DAY 3 – SATURDAY | AI, Computational Approaches and Multimodal Biomarkers

Time	Session / Talk
09:00 – 09:30	Morning Coffee & Networking
SESSION 7 – Digital Biomarkers and AI	
09:30 – 10:00	Tomislav Šmuc – Machine learning for multimodal biomarker discovery in neurodegeneration
10:00 – 10:30	Anja Barešić – AI approaches for diagnosis and patient stratification in neurodegenerative diseases
10:30 – 11:00	Selected Abstracts – Oral Presentations
11:00 – 11:30	Coffee Break
SESSION 8 – Integrating AI, Molecular, Imaging and Digital Biomarkers	
11:30 – 12:00	Cristian Falup-Pecurariu – AI and digital biomarkers in PD
12:00 – 12:30	Alan van Gool – From biomarker discovery to clinical application in neurodegenerative diseases
12:30 – 13:00	Panel Discussion
13:00	Best Young Investigator Award & Closing Remarks