

FRIDAY, MARCH 3, 2023

SESSION 4 *Update on MRI imaging in Parkinsonism*

13:00 - 15:20 Chairman: *Alessandro Tessitore* (Naples, Italy)

Neuromelanin and iron imaging in Parkinsonism
Stéphane Lehericy (Paris, France)

The role of MRI in atypical Parkinsonism: diagnosis, prognosis, and progression markers
Andrea Quattrone (Catanzaro, Italy)

The role of MRI in normal pressure hydrocephalus: diagnosis and prognosis
Roberto Ceravolo (Pisa, Italy)

Question and Answer

Evaluation and Closing Remarks
Antonio P. Strafella, Alessandro Tessitore

GENERAL INFORMATION

CME Credits

The Course provides nr. 6 credits for physicians (specialists in Neurology, Neurosurgery, Neuroradiology, Physical Medicine and Rehabilitation, Radiology, Nuclear Medicine, Geriatrics and Psychiatry) and Psychologists.

Certification of credits is subject to verification of learning and participation in the entire training programme.

Registration fees

Under 35 Delegates: € 100,00 (+VAT 22%)

MDS or LIMPE-DISMOV Members in good standing with the membership dues: € 150,00 (+VAT 22%)

NON Members: € 200,00 (+VAT 22%)

The registration fee includes: course participation, course materials, coffee breaks, lunch.

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International Parkinson and
Movement Disorder Society

NAPLES March 2-3, 2023

Grand Hotel Oriente

**NEUROIMAGING IN PARKINSONISM:
FROM DIAGNOSIS TO THERAPEUTICAL APPROACHES**

Course Directors:

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Congress Venue:
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THURSDAY, MARCH 2, 202313:00 **Course materials pick-up and onsite registration**13:50 **Welcome**
Antonio P. Strafella (Toronto, Canada)
Alessandro Tessitore (Naples, Italy)**SESSION 1 Imaging Parkinson's disease dopamine and beyond**14:00 - 16:10 Chairman: *Gioacchino Tedeschi* (Naples, Italy)**Dopamine: from bradykinesia to impulsivity**
Angelo Antonini (Padua, Italy)**Serotonin: from dyskinesias to mood disorder**
Nicola Pavese (Newcastle, UK)**Cholinergic system changes - emerging therapeutic approaches**
Per Borghammer (Aarhus, Denmark)**Question and Answer****16:10 Coffee Break****SESSION 2 Imaging proteinopathies**16:30 - 19:00 Chairman: *Roberto Cilia* (Milan, Italy)**Imaging neuroinflammation, amyloid and synaptic density in Parkinsonism**
Antonio P. Strafella (Toronto, Canada)**Tau PET ligands in Parkinsonism**
Thilo van Eimeren (Cologne, Germany)**The utility of FDG-PET in the differential diagnosis of Parkinsonism**
Maria Rodríguez-Oroz (Pamplona, Spain)**Question and Answer****Closing Remarks**
*Antonio P. Strafella, Alessandro Tessitore***FRIDAY, MARCH 3, 2023****SESSION 3 Ultra-High Field, connectivity, and therapeutical targets**08:30 - 10:40 Chairman: *Fabrizio Esposito* (Naples, Italy)**Functional MRI and clinical heterogeneity in Parkinson's disease**
Irena Rektorova (Brno, Czech Republic)**New imaging approaches in deep brain stimulation**
Jonathan C. Lau (London, Canada)**Imaging signatures of MRgFUS Vim thalamotomy in Parkinson's disease**
Carmen Gasca-Salas (Madrid, Spain)**Question and Answer****10:40 Coffee Break****Poster Session**11:00 Chairmen: *Roberta Biundo* (Padua, Italy) - *Rosa De Micco* (Naples, Italy)**Patterns of covariant cholinergic transmission and severity of Freezing of Gait in Parkinson's Disease: Results from an observational 18F-FEOBV PET study**
*V.S. Hvingelby, M. Højholt Terkelsen, N. Okkels, J. Horsager, P. Borghammer, E.L. Johnsen, A. Nørgaard Glud, A.L. Knudsen, P. Møller, E.H. Danielsen, K. Meier, Y. Tai, E. Moro, A.S. Møller Andersen, T. Henriksen, J.C. Hedemann Sørensen, N. Pavese***Incidental evidence of hypointensity in brain grey nuclei on routine MR imaging: when to suspect a neurodegenerative disorder?**
*M. Morelli, A. Quattrone, G. Arabia, B. Vescio, M.G. Vaccaro, A. Mechelli, F. Rocca, A. Gambardella, A. Quattrone***Artificial intelligence on cortical morphometrics to distinguishes idiopathic normalpressure hydrocephalus from progressive supranuclear palsy**
*M.G. Bianco, C. Calomino, A. Sarica, F. Aracri, J. Buonocore, A. Quattrone***Associations between sex hormones, clinical features and multimodal biomarkers in male patients with Parkinson's Disease**
*R. Bovenzi, G.M. Sancesario, M. Conti, P. Grillo, J. Bissacco, S. Minosse, M. Pierantozzi, A. Stefani, N.B. Mercuri, F. Di Giuliano, T. Schirinzi***Assessing the swallow tail sign in clinical practice**
*E. Natera-Villalba, M.A. Ruiz Yanzi, J.A. Pineda-Pardo, M. Matarazzo***Topographical characteristics of optimal focused ultrasound unilateral thalamotomy for tremor-dominant Parkinson's disease**
*E. Natera Villalba, J.A. Pineda-Pardo, M. del Álamo, M. Matarazzo, R. Rodríguez-Rojas, R. Raimundo, R. Martínez-Fernández, J.A. Obeso***Potential of neural networks multivariate fractal dimension approach in predicting Parkinson's disease cognitive decline**
*E. Fiorenzato, A. Antonini, L. Weis, R. Biundo, F. Ferreri, S. Moaveninejad, C. Porcaro***Neuroimaging correlates of postural instability in Progressive Supranuclear Palsy: a Voxel-based morphometry study**
*C. Calomino, A. Sarica, M.G. Bianco, J. Buonocore, F. Aracri, A. Quattrone***Orthostatic Hypotension in Parkinson's Disease: Is there a role for Locus Coeruleus Magnetic Resonance Imaging?**
*G. Palermo, G. Bellini, A. Galgani, F. Lombardo, N. Martini, R. Morganti, D. Paoli, S. De Cori, G. Siciliano, F.S. Giorgi, R. Ceravolo***Hypothalamic involvement in premotor and motor stages of parkinsonism**
*J. Pasquini, M. Firbank, L. Best, V. Foster, G. Petrides, R. Ceravolo, K.N. Anderson, D.J. Brooks, N. Pavese***Regional brain volume and cognitive alterations in Huntington's Disease Patients**
*M. Garon, L. Weis, L. Lerjefors, F. Pistonesi, V. Cianci, G. Bonato, D. Cecchin, M. Carecchio, R. Biundo, A. Antonini***¹²³I-ioflupane SPECT imaging in differential diagnostic between CANVAS and MSA-C**
*N. Cuomo, M. Barghigiani, G. De Michele, A. Tessa, T. Fico, G. Natale, F. Saccà, C. Pane, A. De Rosa, S. Pappatà, G. De Michele, F.M. Santorelli, A. Filla***Normal pressure hydrocephalus or progressive supranuclear palsy? A case report**
*G. Belluscio, F. Valentino, E. Caverzasi, A. Picchicchio, C. Pacchetti***Gait disorder in the elderly with patognomonic neuroradiological findings**
*P. Sanginario, G. Di Lazzaro, M. Petracca, A.T. Cimmino, P. Chiurazzi, P. Calabresi, A.R. Bentivoglio***12:00 Lunch**