

The 2022 Fresco International Workshop on Synaptic Plasticity and Advances in Parkinson's Disease

Tuesday–Friday, June 7–10, 2022

Florence, Italy

nyulmc.org/frescocme



Fresco[®]
Parkinson
Institute



The 2022 Fresco International Workshop on Synaptic Plasticity and Advances in Parkinson's Disease

WORKSHOP DIRECTORS

Angelo Quartarone, MD
M. Felice Ghilardi, MD
Mark Hallett, MD
Monica Norcini, PharmD, PhD

COURSE DIRECTORS

Andrew S. Feigin, MD
Steven J. Frucht, MD
Un Kang, MD
Monica Norcini, PharmD, PhD

MEETING DESCRIPTION

Join us in Florence, Italy for the Fresco meeting in June focusing on synaptic plasticity and Parkinson's disease. In the workshop, international experts will provide an overview of the scientific advances on different aspects of brain plasticity from bench to bedside in health and movement disorders. On the last day, NYU Langone faculty will present didactic lectures, providing an overview of advances in diagnosis and treatment of Parkinson's disease and related disorders. Participants will gain a deeper understanding of brain function and its relevance to diagnosis and treatment of Parkinson's disease, parkinsonisms, and movement disorders.

EDUCATIONAL OBJECTIVES

After this activity, participants should be able to:

- Describe the mechanisms of plasticity and their relevance in the genesis and treatment of symptoms of Parkinson's disease and parkinsonisms
- Evaluate the latest development in the deep brain stimulation treatment of Parkinson's disease and dystonia
- Assess the use of rehabilitation techniques in parkinsonisms
- Integrate the latest technology in the diagnosis and treatment of patients with Parkinson's disease, parkinsonisms, and other movement disorders
- Identify non-motor problems in Parkinson's disease and determine specific treatments
- Utilize different types of testing to their full advantage and identify some of their limitations as well as benefits in assessing patients with Parkinson's disease, parkinsonisms, and other movement disorders
- Describe the role of glia activity in inflammation in neurodegenerative disorders
- Recognize visual and speech changes associated with Parkinson's Disease

TARGET AUDIENCE

Researchers, physicians, and other care providers in the field of neurology, internal medicine, rehabilitation medicine, neurosurgery psychiatry, geriatrics and

other health care professionals working with patients with Parkinson's disease and related disorders as well as neuropsychiatric disorders

MEETING APP

Meeting materials will be distributed electronically via an app. Emails regarding the app will be sent beginning two weeks prior to the meeting. You will be able to download the app and view the meeting materials in advance, as well as on the day of the meeting. The app can also be viewed on a desktop or laptop. The meeting presentations will be available for view/download/print the week of the meeting. The meeting app will remain available for one year after the meeting.

REGISTRATION

nyulmc.org/frescocme

After 12 pm on May 31, 2022 only onsite registration is available, provided the meeting has not reached capacity. Onsite registrants will incur an additional \$20 charge. Registration is non-transferable.

EACCME® ACCREDITATION STATEMENT



The The 2022 Fresco International Workshop on Synaptic Plasticity and Advances in Parkinson's Disease, Florence, Italy, 07/06/2022–

10/06/2022 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 21 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of *AMA PRA Category 1 Credits™*. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

ITALIAN ACCREDITATION STATEMENT

Total of 23 CME credits. Course code: 6633-345821 20 CME . Accreditation for: Physician, Nurse, Physiotherapist, Occupational Therapist, Speech-Language Therapist and Psychologist.



E.C.M.

Commissione Nazionale Formazione Continua



AGENDA

TUESDAY, JUNE 7, 2022

1:00 pm Registration

1:45 pm Welcome Remarks

Paolo Fresco
Robert I. Grossman, MD
Kenneth Langone

2:00 pm Introduction to the Workshop

M. Felice Ghilardi, MD
Angelo Quartarone, MD

2:10 pm Opening Panel—COVID-19 and Possible Link with Parkinson's Disease and Parkinsonism: From Bench to Bedside

David Sulzer, PhD
K Ray Chaudhuri, MD
Peter Schmidt, PhD
Elena Moro MD, PhD

SESSION I:

From Emotion to Motion

Moderators: Veronica Ghiglieri, PhD
Peter Schmidt, PhD
Hartwig R. Siebner, MD, DMSci

3:00 pm From Emotion to Motion: Cortical and Subcortical Contributions

Edmund T. Rolls, MA, DPhil, DSc, Hon DSc

Chronic Stress: From Neuronal Plasticity to Neurodegeneration

Sheela Vyas, MD

Coffee Break

Stress, Sex, and Plasticity

Debra Bangasser, PhD

Functional Movement Disorders: Maladaptive Plasticity in the Limbic-Motor Circuitry

Mark Hallett, MD

Panel Discussion

6:30 pm Adjourn

7:00 pm Social Event: Cocktail & PD Art Exhibition

Galleria Moretti, Piazza degli Ottaviani, 19

WEDNESDAY, JUNE 8, 2022

8:30 am CME Sign-In

SESSION II:

Cerebellum: New Perspectives in Movement Disorders

Moderators: Matilde Inglese, MD, PhD
Marco Molinari, MD, PhD
Ulf Ziemann, PhD

9:00 am A New Anatomical Perspective on the Connections Between Basal Ganglia and Cerebellum: Functional Implications

Angelo Quartarone, MD

Cognition, Emotion, Autonomic Function and Cerebellum

Jeremy D. Schmahmann, MD

Cerebellum Contribution to Pathophysiology of Movement Disorders

Hyder A. Jinnah, MD

Coffee Break

Cerebellum and Plasticity: A Target for Non-Invasive Stimulation

John Rothwell, PhD

Cerebellum and Plasticity: A Target for Invasive Stimulation

Andres Lozano, MD, PhD

Panel Discussion

12:30 pm Lunch and Poster Session

SESSION III:

Parkinsonisms and Plasticity

Moderators: Paolo Calabresi, MD
Massimo Cincotta, MD
Giacomo Koch, MD, PhD

2:30 pm Rehabilitation in Parkinsonisms

Robert Iansek, PhD, FRACP

Tau and the Cytoskeleton:

Relevance to Synaptic Damage, Plasticity, and Neurodegenerative Diseases

Francesca Bartolini, PhD

Tau and Plasticity

Michael Rowan, PhD

Clinical Spectrum of Parkinsonisms: New Frontiers

Alessandro Di Rocco, MD

Coffee Break

Cortical Plasticity in Corticobasal Syndrome, PSP, MSA, and Lewy Body

Antonio Suppa, MD, PhD

Panel Discussion

6:00 pm Round Table: What Patients Want from Research

7:00 pm Adjourn

7:00 pm Piano Concert by Giovanni Nesi

AGENDA

THURSDAY, JUNE 9, 2022

8:30 am CME Sign-In

SESSION IV: Plasticity and Non-Motor Symptoms in Parkinson's Disease

Moderators: Vincenzo Di Lazzaro, MD
Simone Rossi, MD, PhD
Mario Zappia, PhD

9:00 am **Fatigue in PD:
A Plasticity-Related Disorder?**

K Ray Chaudhuri, MD

**Vision and Plasticity
in Parkinson's Disease**

M. Felice Ghilardi, MD

**Pain as Maladaptive Plasticity
in Parkinson's Disease**

Michele Tinazzi, MD, PhD

Coffee Break

**Dyskinesia in PD: An Ultimate
Disorder of Sleep**

Salvatore Galati, MD, PhD

**Macrobioma and Parkinson's
Disease: Cause, Effect,
or Mere Association?**

Gonzalo Torres, PhD

Panel Discussion

12:30 pm Lunch and Poster Session

SESSION V: Does DBS Modulate Plasticity in Parkinson's Disease and Dystonia?

Moderators: Giancarlo Comi, MD
Ioannis Isaias, MD, PhD
Elena Moro, MD, PhD

2:30 pm **The Past, the Present,
and the Future of DBS**

Elena Moro, MD, PhD

**Subcortical Deep Brain
Stimulation Modulates Cortical
Excitability and Plasticity**

Robert Chen, MBBChir, MSc, FRCPC

**Motor Cortical Plasticity
and Pathological Oscillatory
Activity in Dystonia**

Diane Ruge, PhD

Coffee Break

**Towards Adaptive DBS:
Retuning Gait Freezing
in Parkinson's Disease**

Ioannis Isaias, MD, PhD

**The Present and the Future
of FUS for Movement Disorders**

Alfonso Fasano, MD, PhD

Panel Discussion

Final Remarks and Conclusion

Mark Hallett, MD

6:00 pm Adjourn

FRIDAY, JUNE 10, 2022

8:00 am Welcome and Course Introduction

Steven L. Galetta, MD

SESSION I: Non-Motor Symptoms of Parkinson's Disease

Moderator: Andrew S. Feigin, MD

8:10 am **Visual Perception Mechanisms**

Biyu J. He, PhD

**Rehabilitative Potential of Artistic
Experience in Patient with PD**

Marygrace Berberian, MD

Speech and DBS

Federica Avantageggiato, MD

Panel Discussion

Coffee Break

SESSION II: Genetic and Inflammation

Moderator: Un Kang, MD

9:35 am **Astrocytes in
Neurodegenerative Disorders**

Shane A. Liddel, PhD

**Glial Targeted Therapy in
Huntington's Disease:
The SIGNAL Trial**

Andrew S. Feigin, MD

**Inflammation and Genetics
in Parkinson's Disease**

Giulietta M. Riboldi, MD, PhD

**Modeling Genetic Parkinson's
Disease in Patient-Derived
Cell Systems**

Emanuele Frattini, MD

Panel Discussion

AGENDA

SESSION III: Basic Mechanism of Plasticity and Clinical Applications

Moderator: Richard Tsien, PhD

11:00 am Keynote Speaker: Speech and Motor Learning

Michael A. Long, PhD

Dopamine Modulates the size of Striatal Projection Neuron Ensembles

Marta Maltese, PhD

Enhancement of Axonal Dopamine Release by Leptin

Maria Mancini, PhD

GABA Co-Transmission from Dopaminergic Neurons as a Potential Candidate for Striatal Modulation

Riccardo Melani, PhD

Exercise Enhances DA Release and BDNF Levels in Mouse Striatum

Guendalina Bastioli, PhD

Panel Discussion

1:00 pm Adjourn

MEETING FEES

	Early Registration (Ending on April 7, 2022)	Regular
Young Investigators, Physicians, Researchers <40 years old	\$235	\$295
Investigators, Physicians, Researchers >40 years old	\$350	\$410

Please note: This meeting is eligible for NYU Grossman School of Medicine Alumni discount.

REFUND POLICY

Submit your request for a refund of meeting fees more than \$75 no later than 7 days before the meeting start date. No refunds will be issued for cancellations or no-shows after that time.

To request a refund, email cme@nyulangone.org. A \$75 administrative fee will be deducted.

MEETING CANCELLATION POLICY

If a meeting is cancelled due to inclement weather, insufficient enrollment, or any other reason, NYU Grossman School of Medicine will refund registration fees in full. NYU Grossman School of Medicine will provide at least two weeks' advance notice if cancelling due to insufficient enrollment and as soon as possible in all other circumstances. NYU Grossman School of Medicine is not responsible for any airfare, hotel, or other non-cancellable costs incurred by the registrant.

LOCATION

Istituto degli Innocenti
Piazza della Santissima Annunziata, 12
50122 Firenze

CONTACT INFORMATION

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ITALIAN CONTACT INFORMATION

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PROVIDED BY

NYU Grossman School of Medicine

ABSTRACT SUBMISSION

We are accepting abstract submissions for poster presentation highlighting your research findings possible on the topic of the five sessions.

Please submit your abstract with a maximum of 250 words excluding title, authors, and presenters to: **FI-NRP@nyulangone.org** and **monica.norcini@nyulangone.org**.

Poster Dimensions: 24" x 36" (61 x 91 cm).

Deadline for submission: May 10, 2022

The best abstract will be selected also for oral presentation discussion.

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