

The 2024 Fresco International Workshop on Synaptic Plasticity and Advances in Parkinson's Disease

Thursday–Saturday, September 19–21, 2024

Milazzo, Italy

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Parkinson
Institute**

**NYU Langone
Health**

**CENTRO NEUROLESI
BONINO PULEJO**
IRCCS MESSINA



Endorsed by the International Association of Parkinsonism and Related Disorders, the International Parkinson and Movement Disorder Society, the Parkinson's Foundation, the Società Italiana Parkinson e Disordini del Movimento/LIMPE-DISMOV ETS, the Società Italiana di Neurofisiologia Clinica, the Società Italiana di Psicofisiologia e Neuroscienze Cognitive, the Italian Society for Neuroscience, the Società Italiana di Neurologia and the European Academy of Neurology.



The 2024 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

MEETING DESCRIPTION

Join us in Sicily for the seventh edition of a Fresco Symposium focused on synaptic plasticity and Parkinson and related diseases. With the increase of life expectancy, neurodegenerative diseases will see a significant upward trend with an increasing pressure on social and health care systems. 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 neurodegenerative disorders. Moreover, in the first day, didactic lectures and study groups will provide an overview of advances in the multidisciplinary care of Parkinson's disease and related disorders.

For almost fifteen years, the symposium has been a resourceful venue to meet scientists and clinicians from different backgrounds, to start fruitful discussion and collaborations with the goals to understand neural mechanisms, to treat symptoms and to improve quality of life of these patients.

The symposium will take place in Milazzo, a magical place where, starting from neolithic societies, the most diverse populations came, developed and disappeared, leaving magnificent signs of their presence. In this special frame, social events will merge the beauty of this place and its monuments with the science of the meeting.

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.

ITALIAN ACCREDITATION STATEMENT

Total of 20 CME credits.
course code 6633-406993 for 4 CME and
course code 6633-408096 for 16 CME.
Accreditation for: Physician, Nurse, Physiotherapist, Occupational Therapist, Speech-Language Therapist and Psychologist.



E.C.M.
Commissione Nazionale Formazione Continua



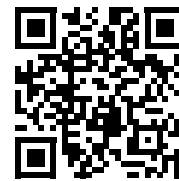
EDUCATIONAL OBJECTIVES

After this activity, participants should be able to:

- Treat motor and non-motor symptoms of Parkinson's disease with an interdisciplinary approach.
- Understand how plasticity is impaired in Huntington disease opening the way to novel treatments.
- Implement current medical, surgical, and genetic treatment of Huntington disease.
- Utilize multidisciplinary rehabilitation to impact the life of patients with Huntington disease.
- Describe how energy is used by the brain to promote plasticity and how energy-related mechanisms are altered in neurodegenerative diseases.
- Understand the basis for the use of GLP1 receptor agonists and IGF-2 as new therapies for neurodegenerative diseases.
- Understand how the immune system and plasticity are altered in neurodegenerative diseases and dystonia.
- Identify and treat motor problems in cognitive and psychiatric disorders and understand their relevance to life quality.
- Selecting novel and different approaches to rewire the brain and spinal cord circuits that are altered by neurological diseases and traumas.

REGISTRATION

<https://rb.gy/naqntf>



After 12 pm on September 12, 2024 only onsite registration is available, provided the meeting has not reached capacity. Onsite registrants will incur an additional €20 charge.
Registration is non-transferable.

Advances in Parkinson's Disease

COURSE DIRECTORS

M. Felice Ghilardi, MD
Angelo Quartarone, MD
Daniele Volpe, MD

COURSE DESCRIPTION

This course will focus on rehabilitation in PD based on scientific and clinical experience with a multidisciplinary team in a collaborative approach.

A team of expert clinicians and researchers representing a diverse group of professionals will lead course attendees through the progression of the disease, best rehabilitation practices and applicable clinical skills. Focus will be on the treatment of motor and non-motor symptoms and how rehabilitation and an interdisciplinary team can improve the life of patients and caregivers.

Throughout the course, participants will learn in a classroom, collaborate with faculty and discuss clinical cases and best clinical practices for treating PD population.

THURSDAY, SEPTEMBER 19

Interdisciplinary Care in the Rehabilitation of Parkinson's Disease

8:00 am **Registration**

8:15 am **Introduction to the Course**

8:30 am **Parkinson's disease:
a complex disease**

Alessandro Di Rocco

8:50 am **Physio-pathological bases of
Rehabilitation in PD**

Angelo Quartarone

9:10 am **Multidisciplinary Rehabilitation in
PD: not if, but when and how**

Davide Ferrazzoli

10:00 am **Interdisciplinary care in PD: how to
lead a productive team meeting**

Daniele Volpe

Coffee Break

10:30 am **Interdisciplinary team meetings
on clinical cases with tutorials**

Alessandro Di Rocco
Angelo Quartarone
Daniele Volpe

12:00 am **Adjourn**

Fresco International Workshop

THURSDAY, SEPTEMBER 19

- 1:00 pm Registration
- 1:30 pm Welcome Remarks and Introduction to the Workshop

SESSION I: Huntington and plasticity

Moderators: Peter Schmidt
Mario Zappia
Alessandro Di Rocco

- 2:00 pm Corticostriatal synaptic plasticity alterations in a transgenic mouse model of Huntington's Disease.
Veronica Ghiglieri

Medical, Surgical, and Genetic Treatment of Huntington Disease.

Andy Feigin

Multidisciplinary rehabilitation and care of Huntington Disease.

Lori Quinn

Coffee Break

Round Table with Patients

- 5:30 pm Adjourn
- 6:30 pm Cocktail at the Castle

FRIDAY, SEPTEMBER 20

- 8:30 am CME Sign-In

SESSION II: Energy and plasticity in Neurodegenerative diseases

Moderators: Alessandro Padovani
Sheela Vyas
Paolo Calabresi

- 9:00 am Glycogen and Lactate: From Body Energy Reserve to Brain Plasticity.
Pierre Magistretti

The astrocyte-neuron lactate shuttle: relevance for brain function, dysfunction and rescue.

Anne-Karine Bouzier-Sore

Metabolic interactions and plasticity in neurodegenerative diseases.

Gilles Bonvento

Coffee Break

GLP1 receptor as a therapeutic target for clinical trials in PD and AD: effects on energy and synaptic plasticity.

Dilan Athauda

Practice-related changes of EEG oscillatory activity in humans: Markers for energy consumption in PD?

M. Felice Ghilardi

Panel Discussion

Microsymposium

- 12:45 pm Lunch and Poster Session

SESSION III: Immune system and plasticity in neurodegenerative disease and dystonia

Moderators: Matilde Inglese
Michela Deleidi
Souhel Najjar

- 2:30 pm Immune aging, dysmetabolism, and inflammation: protagonists in neurodegeneration?

Michela Deleidi

A possible role for the immune system in dystonia?

Buz Jinnah

Parkinson disease: current views on immunity.

David Sulzer

Coffee Break

The impact of neurovascular, blood-brain barrier, and glymphatic dysfunction in neurodegenerative disorders

Jeffrey Ilif

AGENDA

IGF-2 in cognitive enhancement and the development of novel treatments for neurodegenerative disease.

Cristina Alberini

Panel Discussion

Microsymposium

6:00 pm Adjourn

SATURDAY, SEPTEMBER 21

8:30 am CME Sign-In

**SESSION IV:
Motor problems in cognitive and psychiatric disorders and their relevance to life quality**

Moderators: Elena Moro
Alberto Albanese
Giancarlo Comi

9:00 am Catatonia Revisited: looking back and moving forward.
Christian Wolf

Origin, onset and evolution of paratonia in normal aging, cognitive disorders and PD.

Lucio Marinelli

Tics and plasticity.

Alexander Munchau

Coffee Break

Early motor dysfunction in Alzheimer's disease: plasticity and interventions.

Giacomo Koch

Panel Discussion

Microsymposium

12:45 pm Lunch and Poster Session

**SESSION V:
Rewiring the lesioned brain**

Moderators: John Rothwell
Hartwig Siebner
Letizia Leocani

2:15 pm Spinal cord lesions: a model for regeneration.

Jack Martin

Shaping plasticity to enhance recovery after stroke.

Vincenzo Di Lazzaro

Is it possible to rewire abnormal circuits in dystonia by targeting neurotransmitter systems?

Antonio Pisani

Coffee Break

The importance of genetics in rewiring the lesioned brain in PD.

Alessio Di Fonzo

Can DBS rewire the brain? Plasticity, Learning and Habituation in movement disorders.

Ioannis Isaias

Panel Discussion

Microsymposium

Summary, final remarks and conclusions

Mark Hallett

6:15 pm Adjourn

MEETING FEES	Early Registration (Ending on June 30, 2024)	Regular
Young Investigators, Physicians, Researchers <40 years old	€250	€350
Investigators, Physicians, Researchers >40 years old	€350	€450
PT, SLT, OT, Students	€200	€300
"Interdisciplinary Care in PD" only	€50	€50

REGISTRATION INFORMATION

Fresco Parkinson Institute Italia
Phone: +39 055 598999
Email: info@frescoparkinsoninstitute.it
Registration: <https://rb.gy/naqntf>

REFUND POLICY

Submit your request for a refund of meeting fees no later than September 6. No refunds will be issued for cancellations or no-shows after that time. To request a refund, email info@frescoparkinsoninstitute.it. A €100 administrative fee will be deducted.

MEETING CANCELLATION POLICY

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

LOCATION

EOLIAN MILAZZO HOTEL
Salita Cappuccini, 21/23
98057 Milazzo (Messina)
Sicily

HOTEL AND TRAVEL INFORMATION

ADM Congressi S.r.L.
Via E. Boner, 76
98121 – Messina
Phone: +39 090 9010503
Mobile: +39 335 7786891
info@admcongressi.it



HOW TO REACH MILAZZO

The nearest airport to reach Milazzo is Catania Airport.
There are shuttle buses between Catania Airport and Milazzo.
For the shuttle bus schedule see:
<https://giuntabus.com>

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: **INFO@frescoparkinsoninstitute.it**
Poster Dimensions: 24" x 36" (60 x 90 cm).
Deadline for submission: July 26, 2024
The best abstract will be selected also for oral presentation discussion.