

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

Wednesday–Saturday, November 14–17, 2018

Florence, Italy

[nyulmc.org/frescocme](http://nyulmc.org/frescocme)



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

## COURSE DIRECTORS

**Andrew S. Feigin, MD**  
**Steven J. Frucht, MD**

## WORKSHOP PLANNERS

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

## COURSE DESCRIPTION

Join us in Florence, Italy this November for a three and a half day course 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 addition, NYU Langone Faculty at the Fresco Institute and a panel of international experts, including the leaders in the Fresco network in Italy, will present didactic lectures, providing an extensive overview of advances in diagnosis and treatment of Parkinson's disease and related disorders. Participants will walk away with a deeper understanding of brain function and its relevance to diagnosis and treatment of Parkinson's disease and other neurodegenerative disorders.

## EDUCATIONAL OBJECTIVES

After this activity, participants should be able to:

- Understand the mechanisms of plasticity and their relevance in the genesis and treatment of symptoms of Parkinson's disease and neuropsychiatric disorders
- Understand the latest development in the experimental therapeutic of Parkinson's disease
- Understand the use of rehabilitation techniques in neurodegenerative disorders
- Understand the use of relevant technology in the diagnosis and treatment of patients with Parkinson's disease and other movement disorders
- Identify specific neurological problems and complications and determine which patients to treat or refer to other health care specialists for additional or specific treatments
- Use neuroimaging and genetic testing to its full advantage and recognize some of its limitations, as well as benefits in assessing patients with Parkinson's disease and other movement disorders

## 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

## REFUND POLICY

Submit your request for a refund of course fees more than \$75 no later than 7 days before the course start date. No refunds will be issued for cancellations or no-shows after that time. To request a refund, email [cme@nyumc.org](mailto:cme@nyumc.org). A \$75 administrative fee will be deducted.

## COURSE CANCELLATION POLICY

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

## EACCME® ACCREDITATION STATEMENT



The THE FRESKO INTERNATIONAL WORKSHOP ON Synaptic Plasticity and Clinical Advances in Parkinson's Disease, Florence, Italy, 14/11/2018–17/11/2018 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 20 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Please find below the breakdown of ECMEC®s per day:

14.11.2018 — 2,00	16.11.2018 — 6,00
15.11.2018 — 6,00	17.11.2018 — 6,00

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](http://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

Total of 20.3 CME credits: 235505 (5.6 CME), 235506 (5.6 CME), 235507 (5.6 CME) and 238385 (3.5 CME). Accreditation for: Physician, Nurse, Physiotherapist, Occupational Therapist, Speech-Language Therapist and Psychologist.



**E.C.M.**

Commissione Nazionale Formazione Continua

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# AGENDA

## WEDNESDAY, NOVEMBER 14, 2018

**1:00 pm Registration**

**2:00 Welcome**

Paolo Fresco  
Robert I. Grossman, MD  
Kenneth Langone

**2:20 Introduction to the Workshop**

Angelo Quartarone, MD  
M. Felice Ghilardi, MD  
Mark Hallett, MD

### SESSION 1

#### Art and Music: From Perception to Rehabilitation

**2:30 – 6:00 pm**

Chairs: Daniele Volpe, MD  
John Rothwell, PhD

**Neurobiological Bases of Beauty Perception**

Semir Zeki, FMedSci, FRS

**Keeping Brains Plastic (and Young!) with Music**

Gottfried Schlaug, MD, PhD

Coffee Break

**Music-based Interventions in Neurological Rehabilitation**

Daniel S. Scholz, BA

**Dance for Parkinson's: Understanding the Value and Impact of an Artistic, Community-based Approach to Movement**

David Leventhal, BA

**Highlights of the Clinical Research of the Fresco Fellows: Visuo-spatial Alterations in PD AND Art Intervention**

Alberto Cucca, MD

**General Discussion**

Adjourn

**7:30 – 9:30 pm**

**Palazzo Strozzi, Art, and Patients Wellness: Show and Cocktails**

We are accepting poster submissions highlighting your research findings.

Please submit your abstract including title, authors, and presenters with a maximum of 250 words to [FI-NRP@nyumc.org](mailto:FI-NRP@nyumc.org).

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

Deadline for submission: Monday, October 15, 2018

The best posters will be selected for discussion.

## THURSDAY, NOVEMBER 15, 2018

### SESSION 2

#### Genetics, Epigenetics, and Neuroplasticity

**9:30 am – 12:30 pm**

Chairs: Alessio Di Fonzo, MD, PhD  
Barbara Picconi, BSc

**Linking Genes to Neurorehabilitation**

Jeffrey A. Kleim, PhD

**Plasticity, Genetics, and Epigenetics in L-DOPA-induced Dyskinesia**

David G. Standaert, MD, PhD

**Plasticity, Genetics and Epigenetics in Dystonia: New Frontiers for Therapy?**

Antonio Pisani, MD, PhD

Coffee Break

**From Genes to the Environment and Back: The Case of Aggressive Behavior**

Silvia Pellegrini, PhD

**Highlights of the Clinical Research of the Fresco Fellows: GBA Mutation in PD and Therapeutic Implications**

Giulietta Riboldi, MD

**Highlights from the Posters**

**Discussion**

**12:30 pm Lunch and Poster Session**

### SESSION 3

#### Inflammation, Autoimmunity, and Plasticity

**2:10 – 6:00 pm**

Chairs: M. Angela Cenci Nilsson, MD, PhD  
Paolo Calabresi, MD

**Immune Aging, Dysmetabolism, and Inflammation in Neurological Diseases**

Michela Deleidi, MD, PhD

**Alpha-synuclein and Plasticity**

Veronica Ghiglieri, PhD

**T-cells, Alpha-synuclein, and Parkinson's Disease**

David Sulzer, PhD

Coffee Break

**Neuroprotection and Neurorestoration as Experimental Therapeutics for PD**

M. Angela Cenci Nilsson, MD, PhD

**Highlights from the Posters**

**General Discussion**

**6:00 pm Choir of the Club Alpino Italiano, Bologna**

**6:30 pm Guided Visit of the Museum Istituto degli Innocenti**

# AGENDA

## FRIDAY, NOVEMBER 16, 2018

### SESSION 4

#### New Approaches to Measure Functional and Structural Connectivity

9:00 am – 12:30 pm

Chairs: Matilde Inglese, MD, PhD  
Hartwig Roman Siebner, MD, DMSci

#### TMS-EEG: Present and Future of the Technique

Hartwig Roman Siebner, MD, DMSci

#### Imaging for the Evaluation of Structural Plasticity: Cellular Mechanisms

Henrik Lundell, PhD

#### New Methods for the Analysis of Connectivity

Carlo V. Cannistraci, PhD

Coffee Break

#### Myelin and Plasticity

Douglas Fields, PhD

#### Highlights of the Clinical Research of the Fresco Fellows: Differential modulation of striatal projection neurons following dopamine loss and replacement

Marta Maltese, PhD

#### Highlights from the Posters

#### General Discussion

12:30 pm Lunch and Poster Session

### SESSION 5

#### Psychiatry and Plasticity

2:10 – 6:00 pm

Chairs: Mark S. George, MD  
Sarah H. Lisanby, MD

#### Depression and Plasticity: New Frontiers for Treatments

Sarah H. Lisanby, MD

#### Anxiety, Stress, and Plasticity

Jelena Radulovic, MD, PhD

#### Subthalamic Stimulation and Neuropsychiatric Symptoms in Parkinson's Disease

Elena Moro, MD, PhD

Coffee Break

#### Safety and Efficacy of Non-invasive Brain Stimulation in the Treatment of Psychiatric Disorders: Present and Future

Mark S. George, MD

#### Highlights of the Clinical Research of the Fresco Fellows: Leptin Regulation of the Nigrostriatal Dopamine Pathway

Maria Mancini, PhD

#### Highlights from the Posters

#### Meeting Highlights and Concluding Remarks

Mark Hallett, MD

Adjourn

## SATURDAY, NOVEMBER 17, 2018

#### Advances in Parkinson's Disease Course: I. Clinical and Basic Research at Fresco NYU Langone Health

8:00 am – 9:35 am

Chairs: Richard Tsien, PhD  
Andrew S. Feigin, MD  
Steven J. Frucht, MD

#### Introduction to the Fresco Institute and the Fresco Network: Preparing and Nurturing the New Generation of Movement Disorder Experts

Steven L. Galetta, MD

#### Individualizing Therapy for PD Patients—Addressing Unmet Needs

Steven J. Frucht, MD

#### Novel Symptomatic Interventions

Andrew S. Feigin, MD

#### At-Home Non-Invasive Brain Stimulation in PD

Milton C. Biagioni, MD

#### Translating Basic Science into Meaningful Therapies for PD

Richard Tsien, PhD

#### General Discussion

Coffee Break



International Parkinson and  
Movement Disorder Society

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and Movement Disorder Society

# AGENDA

## Advances in Parkinson's Disease Course: II. Clinical and Basic Research of the Fresco Network

10:15 am – 12:30 pm

Chairs: M. Felice Ghilardi, MD  
Pete Schmidt, PhD  
Sandro Sorbi, MD

### Disease Modifying Therapies

Alessandro Di Rocco, MD

### Physiological Mechanisms of Action Observation and Emotions in Parkinson's Disease: Clinical Applications

Giovanni F. Abbruzzese, MD

### Imaging issues in the management of Parkinsonian syndromes

Ubaldo Bonuccelli, MD

### Alpha-synuclein: From Synaptic Function to Clinical Translation

Paolo Calabresi, MD

### Dissecting the Genetic Architecture of Parkinson's Disease

Alessio Di Fonzo, MD, PhD

### The Interplay Between Motor and Cognitive Aspects in Parkinson's Disease Rehabilitation

Giuseppe Frazzitta, MD

### Adaptive Deep Brain Stimulation: Retuning Parkinson's Disease

Ioannis Isaias, MD, PhD

### Early Markers in Prodromal PD

Angelo Quartarone, MD

### 3D-Posturography on Land and Under Water Before and After Hydrotherapy in Parkinson's Disease

Daniele Volpe, MD

### General Discussion and Conclusions

12:45 – 2:00 pm Lunch

—and—

## Movement Disorders Olympics for Young Neurologists

Steven J. Frucht, MD  
Andrew S. Feigin, MD  
Mark Hallett, MD

Adjourn

## COURSE FEES

	Early Registration (Ends 9/8/18 at 11:59 pm EST)	Regular
Young Investigators, Physicians, Researchers <40 years old	\$235 (€200)	\$295 (€250)
Investigators, Physicians, Researchers >40 years old	\$350 (€300)	\$410 (€350)
First Day (11/14): 1 Scientific Session plus Palazzo Strozzi Event		\$130 (€110)
Second Day (11/15): 2 Scientific Sessions		\$175 (€150)
Third Day (11/16): 2 Scientific Sessions		\$175 (€150)
Fourth Day (11/17): 2 Scientific Sessions		\$130 (€110)

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

## LOCATION

Istituto degli Innocenti  
Piazza della Santissima Annunziata, 12  
50122 Firenze

## REGISTRATION

[nyulmc.org/frescocme](http://nyulmc.org/frescocme)

After 12 pm on November 8, 2018 only onsite registration is available, provided the course has not reached capacity. Onsite registrants will incur an additional \$20 charge. Registration is non-transferable.

### Italian Registration

For Italian participants, please visit  
<http://www.fondazioneanthea.it/fresco> to register.

\* Please note: This does not apply to members of  
The Fresco Network.

## CONTACT INFORMATION

NYU School of Medicine  
Phone: 212-263-5295  
Fax: 212-263-5293  
Email: [cme@nyumc.org](mailto:cme@nyumc.org)

### Italian Contact Information

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Phone: 0971/53593  
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Website: <http://www.fondazioneanthea.it/fresco/>

## PROVIDED BY

NYU School of Medicine

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November 14–17, 2008

[nyulmc.org/frescocome](http://nyulmc.org/frescocome)



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