



The Movement Disorder Society

LIMPE
LEGA ITALIANA PER LA LOTTA CONTRO
LA MALATTIA DI PARKINSON
LE SINDROMI EXTRAPIRAMIDALI E LE DEMENZE



1st International Conference on
Knowledge Gaps
in **Parkinson's disease**
and other **Movement Disorders**



LIMPE SEMINAR 2010

Taormina, Sicily
February 5-7, 2010 - Hotel Villa Diodoro

WELCOME

Dear Colleagues and Friends,

The Movement Disorder Society and LIMPE (Italian Association for Parkinson's disease and Extrapyrimaldal Disorders) welcome you at the "1st International Conference on Knowledge Gaps in Parkinson's disease and Other Movement Disorders".

The conference will focus on aspects of Parkinson's disease and other movement disorders which are still insufficiently understood or have been recently challenged on genetic, pathogenetic, clinical and/or therapeutic grounds. The 3-day symposium will be led by 26 leading young investigators and senior clinical scientists sharing ideas aimed at advancing the clinical and scientific disciplines within our field. Each topic will close with a summary of the knowledge gaps and with a proposal on how to bridge or minimize them.

"Without Sicily, Italy leaves no image in the soul. Sicily is the key to everything."

(Johann Wolfgang Goethe in Italian Journey, 1786-1788)

Goethe meant for Sicily what this Conference intends to for emerging concepts in Parkinson's disease and other movement disorders: the conduit for established and novel ideas to freely brew in the midst of young and seasoned researchers' 'image and soul'. We shall together assess where we are –the breadth and depth of our gaps— and chart the roadmap where we should go –the bridges we will build. It is our hope that Sicily will be the key to the exciting road ahead.

The Congress Chairperson

Letterio Morgante, Messina, Italy

The Scientific Committee

Alberto Espay, Cincinnati, USA

Alfonso Fasano, Rome, Italy

Francesca Morgante, Messina, Italy

ABOUT LIMPE

LIMPE is the Italian Association for Parkinson's Disease and Extrapyrimal Disorders. It was founded in 1974 as Parkinson's Disease study group to become, over the years, the leading Italian scientific society focusing on Parkinson's Disease, Extrapyrimal Disorders and Dementia.

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ABOUT MDS

The *Movement* Disorder Society (MDS) is an international, professional society of clinicians, scientists, and other healthcare professionals who are interested in Parkinson's disease, related neurodegenerative and neurodevelopmental disorders, hyperkinetic Movement Disorders, and abnormalities in muscle tone and motor control.

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The Movement Disorder Society

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SCIENTIFIC PROGRAM - FRIDAY 5th FEBRUARY 2010

KNOWLEDGE GAPS IN PARKINSON'S DISEASE

14:00 **INTRODUCTION TO THE CONFERENCE**

14:15 **KEY NOTE SPEAKER LECTURE**

Introduction: *Alfredo Berardelli*

A critical reappraisal to the premotor symptoms of Parkinson's disease: potential usefulness in early diagnosis and design of neuroprotective trials

Anthony Lang

Session 1. Knowledge gaps in Etiopathogenesis and Genetics of Parkinson's disease

Chairmen: *Giovanni Corsini, Anna Rita Bentivoglio, Giovanni Cossu*

15.15 Etiopathogenesis of PD - From gene defect to impaired cell function: is there a role of the autophagy-lysosome pathway in PD? **Enza Maria Valente**

15.45 What do new advances in PD genetics tell us about sporadic PD? **Christine Klein**

16.15 Discussion

16.30 COFFEE BREAK

Session 2. Knowledge gaps in Clinical Features

Chairmen: *Alberto Albanese, Paolo Del Dotto*

16.45 Body weight changes in PD: is it a matter of caloric intake vs. expenditure or wider impairment in energy metabolism control? **Ergun Uc**

17.15 Bradykinesia: what are the weaknesses of the current clinical rating and how can we gain more insights with improved measurement? **Alberto Espay**

17.45 Levodopa-induced dyskinesias: what do we know? What is the impact on disease disability? **Francesca Morgante**

18.15 REM sleep behavior disorder: what does its presence tell us about motor and non-motor aspects of PD? **Ron Postuma**

18.45 Discussion

19:00 **CLOSING LECTURE**

Introduction: *Mario Zappia*

Neurobiology of impulse control disorders in Parkinson's disease

Antonio Strafella

19:30 **OPENING CEREMONY**

Prof. Francesco Tomasello, Dean of University of Messina

Prof. Emanuele Scribano, Chairman of Faculty of Medicine, University of Messina

Prof. Giuseppe Vita, Chairman of the Department of Neuroscience, Psychiatry and Anaesthesiological Science, University of Messina

Prof. Ubaldo Bonuccelli, President of LIMPE

Prof. Alfredo Berardelli, Chairman of the European Section of MDS



SCIENTIFIC PROGRAM - SATURDAY 6th FEBRUARY 2010

KNOWLEDGE GAPS IN PARKINSON'S DISEASE

Session 3. Knowledge gaps in Clinical Features - Axial symptoms

Chairmen: *Giovanni Abbruzzese, Angelo Antonini*

- 08.30 Freezing of gait in PD: what do new insights into its pathophysiology teach us about potential targets for treatment? **Alfonso Fasano**
- 09.00 Axial motor control in PD: what is the impact of posture and balance on the overall disease disability? Beyond dopaminergic pathways: is there a role for novel treatments? **Bastian Bloem**
- 09.30 Speech and voice disorder in PD: how recent knowledge on their pathophysiology is being translated into treatment development? **Cynthia Fox**
- 10.00 General Discussion
- 10.15 COFFEE BREAK

Session 4. Knowledge gaps in the pharmacological treatment of Parkinson's disease

Chairmen: *Giovanni Fabbrini, Letterio Morgante, Fabrizio Stocchi*

- 10.30 Promise and challenges of aiming at continuous dopaminergic stimulation: is continuous delivery of dopaminergic drugs truly providing tonic stimulation to brain dopamine receptors? **Regina Katzenschlager**
- 11.00 Neuroprotection in PD: are current treatment trial designs pursuing our therapeutic 'Holy Grail' fundamentally flawed? If so, how can we bridge the gap? **Gennarina Arabia**
- 11.30 General Discussion

Session 5. Knowledge gaps in the surgical treatment of Parkinson's disease

Chairmen: *Leonardo Lopiano, Paolo Stanzione*

- 11:45 Deep brain stimulation: how much do we understand its mechanism of action? **Neil Mahant**
- 12:15 Deep brain stimulation: the earlier, the better? The challenges in the design of definitive studies. **Jan Herzog**
- 12:45 Discussion
- 13.00 **MORNING LECTURE**
Introduction: *Alfredo Berardelli*
- Promise and perils of established and novel targets of DBS therapy for PD
Guenther Deuschl
- 13.30 **LUNCH**

KNOWLEDGE GAPS IN OTHER MOVEMENT DISORDERS

Session 1. Tremor

Chairmen: *Roberto Marconi, Paolo Martinelli*

- 15.00 Essential Tremor: more than a tremor disorder. What do other motor and non motor features tell us? **Jan Raethjen**
- 15.30 Benign tremulous PD, dystonic tremor in SWEDDS and other atypical tremors. How can we recognize them? Why does it matter? **Mark Edwards**
- 16.00 General Discussion

Session 2. Hyperkinetic Movement Disorders

Chairmen: *Gianni Defazio, Roberto Eleopra*

- 16.15 Myoclonus: what are the pitfalls in its recognition and treatment? **Roberto Vetrugno**
- 16.45 Psychogenic movement disorders: what are the pitfalls in its diagnosis and management? Where are we heading? **Davide Martino**
- 17.15 Tourette's syndrome therapeutics: how much are we moving beyond neuroleptics? **Andrea Cavanna**
- 17.45 General Discussion

18.00 CLOSING LECTURE

Introduction: *Gaetano Di Chiara*

Non motor symptoms as hallmark of disease progression in Parkinsonisms
Paolo Barone

- 18.30 **Announcement of best submission award for the “Research Ideas to Bridge Knowledge Gaps in Movement Disorders” contest**



SCIENTIFIC PROGRAM - SUNDAY 7th FEBRUARY 2010

KNOWLEDGE GAPS IN OTHER MOVEMENT DISORDERS

9.00 **MORNING LECTURE**

Introduction: *Stefano Ruggieri*

Ataxias: how are we diagnosing and treating them? Where are we going?
Massimo Pandolfo

Session 3. Dystonia and Huntington's disease

Chairmen: *Michele Tinazzi, Paolo Girlanda*

9.30 Dystonia - Beyond DYT1 gene: the time for new genes has come
Enza Maria Valente

10.00 Huntington's disease: what are the most promising targets for disease modification?
Marta Valenza

10.30 General Discussion

10.45 COFFEE BREAK

KNOWLEDGE GAPS IN ATYPICAL PARKINSONISMS

Chairmen: *Carlo Colosimo, PierFranco Spano*

11.00 Four-repeat tauopathies: how much are their phenotypes and pathology overlapping?
David Williams

11.40 Tauopathies and Synucleinopathies: what are the data supporting pathological and clinical convergence and divergence? **Irene Litvan**

12.30 General Discussion

12.45 **Closure of the conference and final remarks**

Summary of key gaps discussed and next research steps - **Scientific Organizing Committee**



CONGRESS CHAIRPERSON

Letterio Morgante, Messina, Italy

SCIENTIFIC COMMITTEE

Alberto Espay, Cincinnati, USA

Alfonso Fasano, Rome, Italy

Francesca Morgante, Messina, Italy

LOCAL ORGANIZING COMMITTEE

Antonio Epifanio, Messina, Italy

Francesca Morgante, Messina, Italy

Letterio Morgante, Messina, Italy

GENERAL INFORMATION

CONGRESS VENUE

Hotel Villa Diodoro

Via Luigi Pirandello, 95/A, 98039 Taormina (ME)

Tel: +39 0942 23312; Website: www.hotelvilladiodoro.com

LANGUAGE

English is the official language of the Congress.

ECM ACCREDITATION

The Italian Ministry of Health assigned 9 ECM credits.

CONFERENCE REGISTRATION

Fees for all Congress Participants include: attendance to all scientific sessions, material of the Congress, entrance to the exhibition area, lunches and coffee breaks, social dinner on Feb 6th.

CONGRESS SECRETARIAT

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THEMES AND TOPICS

- Parkinson's disease knowledge gaps on:
 - Genetics
 - Motor symptoms and complications
 - Non motor symptoms and premotor phase
 - Gait, Balance and Speech disorder
 - Medical and Surgical treatment
- Ataxia
- Dystonia
- Huntington's disease
- Myoclonus
- Psychogenic movement disorders
- Tauopathies and Synucleinopathies
- Tremor disorders
- Tourette's syndrome

CONGRESS CHAIRPERSON:

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INTERNATIONAL SCIENTIFIC COMMITTEE:

Alberto Espay, USA

Alfonso Fasano, Italy

Francesca Morgante, Italy

KEYNOTE SPEAKER:

Anthony Lang, Canada

Finding the Gaps, Suggesting the Bridges

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