SUNDAY, JUNE 8, 2014

1101 Therapeutic Plenary Session I

**Early/Mid/Late parkinson journey**
8:00 - 10:00

**Chairs:** Sten-Magnus Aquilonius
*Uppsala, Sweden*
Andrew Lees
*London, United Kingdom*

8:00 L-dopa - From idea to treatment: A historical review
Arvid Carlsson
*Gothenburg, Sweden*

8:40 Treatment strategies for early phases of Parkinson's disease
Heinz Reichmann
*Dresden, Germany*

9:20 Treatment strategies for advancing Parkinson's disease
Lars Timmermann
*Cologne, Germany*

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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1102 Therapeutic Plenary Session II

**Treatment of dystonia**
11:00 - 13:00

**Chairs:** Stanley Fahn
*New York, NY, USA*
Hyder Jinnah
*Atlanta, GA, USA*

11:00 Recognizing the many varied clinical manifestations of the dystonias
Hyder Jinnah
*Atlanta, GA, USA*

11:40 Medical treatment and non-surgical management options for the dystonias
Alfredo Berardelli
*Rome, Italy*

12:20 Surgical treatment options for the dystonias
Marwan Hariz
*London, United Kingdom*

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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1103 Therapeutic Plenary Session III

**Treatment of non-motor Parkinson's disease**
14:30 - 16:30

**Chairs:** K. Ray Chaudhuri
*London, United Kingdom*
Susan Fox
*Toronto, ON, Canada*

14:30 The dopaminergic non-motor symptoms and evidence base for treatment
K. Ray Chaudhuri
*London, United Kingdom*

15:10 The non-dopaminergic non-motor symptoms of Parkinson's disease: Management strategies in a nutshell
Susan Fox
*Toronto, ON, Canada*

15:50 Emerging animal models of non-motor symptoms
Peter Jenner
*London, United Kingdom*

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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1104 Therapeutic Plenary Session IV

**Treatment of tremor**
17:00 - 19:00

**Chairs:** Günther Deuschl
*Kiel, Germany*
Louis Tan
*Singapore*

17:00 Medical therapy (including BoNT) of essential tremor: The essentials
Tiago Mestre
*Toronto, ON, Canada*

17:40 Invasive and experimental therapies of tremors: Last resort?
Jens Volkmann
*Würzburg, Germany*

18:20 Rare and unusual tremors: No reason to quit
Marie Vidailhet
*Paris, France*

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

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Welcome Ceremony
19:30 – 21:30

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SPECIAL MEETING THEME:
Emerging and Experimental Therapies

At each annual International Congress, the Congress Scientific Program Committee selects a theme that is highlighted throughout the meeting. This year’s theme, “Emerging and Experimental Therapies” will be showcased in two Plenary Sessions, seven Parallel Sessions, one Skills Workshop, one Teaching Course, and two Video Sessions. International experts will serve as faculty, and the meeting participants can elect to attend any or all of the sessions. These sessions are designated with a "("
### MONDAY, JUNE 9, 2014

#### 2101 Plenary Session V
**Gene therapy for Parkinson’s disease and movement disorders**
8:00 - 10:00

**Chairs:** Jeffrey Kordower  
*Chicago, IL, USA*  
C. Warren Olanow  
*New York, NY, USA*

- **8:00** Basic principles of gene therapy  
  R. Jude Samulski  
  *Chapel Hill, NC, USA*
- **8:40** Tropic factor delivery with gene therapy  
  Jeffrey Kordower  
  *Chicago, IL, USA*
- **9:20** DA/DOPA delivery with gene therapy in Parkinson’s disease  
  Tomas Björklund  
  *Lund, Sweden*

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

#### 2102 Plenary Session VI
**New insights into the pathology, progression and heterogeneity of Parkinson’s disease**
10:30 - 12:30

**Chairs:** Glenda Halliday  
*Randwick, NSW, Australia*  
Matthew Stern  
*Philadelphia, PA, USA*

- **10:30** What do we now know about synuclein's role in Parkinson’s disease pathology?  
  John Trojanowski  
  *Philadelphia, PA, USA*
- **11:10** How does pathology explain clinical phenotype?  
  Virginia Lee  
  *Philadelphia, PA, USA*
- **11:50** Extraneigral pathology and preclinical detection  
  Charles Adler  
  *Scottsdale, AZ, USA*

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

#### 2203 Parallel Session
**Dyskinesias associated with old and new therapies for Parkinson’s disease**
15:30 - 17:30

**Chairs:** M. Angela Cenci  
*Lund, Sweden*  
D. James Surmeier  
*Chicago, IL, USA*

- **15:30** Dyskinesias as a manifestation of maladaptive striatal plasticity  
  M. Angela Cenci  
  *Lund, Sweden*
- **16:10** The serotonin system in human L-dopa-induced and graft-induced dyskinesias: The state of the art  
  Paola Piccini  
  *London, United Kingdom*

**Recommended Audience:** Basic scientists, Clinical academicians, Students/Residents/Trainees

#### 2204 Parallel Session
**Improving clinical translation of cell therapy for movement disorders**
15:30 - 17:30

**Chairs:** Erwan Bezard  
*Bordeaux, France*  
Hakan Widner  
*Lund, Sweden*

- **15:30** Experiences from the Transeuro multicenter clinical transplantation trial with fetal cells in Parkinson's disease  
  Hakan Widner  
  *Lund, Sweden*
- **16:10** Cell transplantation beyond Parkinson's disease: Experiences from the MSA trial  
  Yong Sohn  
  *Seoul, Korea*

**Recommended Audience:** Basic scientists, Clinical academicians, Students/Residents/Trainees

#### 2205 Parallel Session
**Gait disturbance in Parkinson’s disease: A postural control or locomotor defect?**
15:30 - 17:30

**Chairs:** Alice Nieuwboer  
*Hewerlee, Belgium*  
Lynn Rochester  
*Newcastle upon Tyne, United Kingdom*

- **15:30** Neural mechanisms of locomotion and posture control  
  Colum MacKinnon  
  *Minneapolis, MN, USA*
- **16:10** Capturing discrete features of gait, postural control and their coupling in Parkinson’s disease  
  Jeffrey Hausdorff  
  *Tel Aviv, Israel*

**Recommended Audience:** Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

#### 2206 Parallel Session
**What’s new in PSP?**
15:30 - 17:30

**Chairs:** Günter Höglinger  
*Munich, Germany*  
Irene Litvan  
*La Jolla, CA, USA*

- **15:30** Etiopathogenesis of PSP: Genetics  
  Günter Höglinger  
  *Munich, Germany*
- **16:10** Etiopathogenesis of PSP: Occupation and environment  
  Irene Litvan  
  *La Jolla, CA, USA*

**Recommended Audience:** Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees
### Monday, June 9, 2014

**2207 Parallel Session**  
Management of multiple system atrophy: An update  
15:30 - 17:30  
Chairs: Carlo Colosimo  
Rome, Italy  
Björn Holmberg  
Gothenburg, Sweden  
15:30 How to diagnose MSA early  
Pietro Cortelli  
Bologna, Italy  
16:10 New developments in the genetics of MSA  
Shoji Tsuji  
Tokyo, Japan  
16:50 Treatment of MSA: State of the art  
François Tison  
Pessac, France  
**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

**2208 Parallel Session**  
Late-breaking clinical and scientific topics relevant to Movement Disorders  
15:30 - 17:30  
Günther Deuschl  
Kiel, Germany  
Hyder Jinnah  
Atlanta, GA, USA  
Timothy Lynch  
Dublin, Ireland  
D. James Surmeier  
Chicago, IL, USA  
Ryosuke Takahashi  
Kyoto, Japan  
**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

**2309 Teaching Course**  
Non-dopaminergic symptomatic medications for the management of Parkinson’s disease  
15:30 - 17:30  
Chairs: Susan Fox  
Toronto, ON, Canada  
Kjell Fuxe  
Stockholm, Sweden  
15:30 Glutamatergic medications  
Paolo Calabresi  
Rome, Italy  
16:10 Monoaminergic medications  
Per Svenningsson  
Stockholm, Sweden  
16:50 Cholinergic medications  
Antonio Pisani  
Rome, Italy  
**Recommended Audience:** Basic scientists, Clinical academicians, Students/Residents/Trainees

**2308 Teaching Course**  
Dystonia: A practical approach to diagnosis, measurement and management  
15:30 - 17:30  
Chairs: Cynthia Comella  
Chicago, IL, USA  
Marina De Koning-Tijssen  
Groningen, Netherlands  
15:30 Diagnosis and pathogenesis of dystonia  
William Dauer  
Ann Arbor, MI, USA  
16:10 How to rate dystonia  
Cynthia Comella  
Chicago, IL, USA  
16:50 Current medical and surgical treatments for dystonia  
Elena Moro  
Grenoble, France  
**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

**2411 Skills Workshop**  
How to avoid stem cell tourism and misuse of cell and gene therapies  
18:00 - 19:30  
In this interactive session, the faculty will review and debate the risks and misuse of stem cell and gene therapies. The participants will learn an approach of how to educate patients about the risks of uncontrolled use of stem cells and gene therapies.  
Michele De Luca  
Modena, Italy  
Ann Marie Janson Lang  
Stockholm, Sweden  
Wolfgang Oertel  
Marburg, Germany  
**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

**2412 Skills Workshop**  
Movement disorders emergencies  
18:00 - 19:30  
In this interactive session, the faculty will discuss methods to improve participants’ ability to recognize true movement disorders emergencies and develop strategies for their management.  
Steven Frucht  
New York, NY, USA  
Jill Ostrem  
Greenbrae, CA, USA  
**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
## MONDAY, JUNE 9, 2014

<table>
<thead>
<tr>
<th>Ticket No.</th>
<th>Event Type</th>
<th>Session Title</th>
<th>Time</th>
<th>Description</th>
<th>Faculty</th>
<th>Recommended Audience</th>
</tr>
</thead>
<tbody>
<tr>
<td>2413</td>
<td>Skills Workshop</td>
<td>How to approach and manage patients with movement disorders and disturbances of sleep wakefulness 18:00 - 19:30</td>
<td></td>
<td>In this interactive session, participants will be better able to recognize the mechanisms, the diagnostic workup and management of disturbances of sleep wakefulness in Parkinson’s disease and atypical parkinsonism as well as hyperkinetic movement disorders including drug-related movement disorders during sleep.</td>
<td>Birgit Frauscher Innsbruck, Austria Rosalia Silvestri Messina, Italy</td>
<td>Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees</td>
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<tr>
<td>2515</td>
<td>Video Session</td>
<td>Unusual presentations of common movement disorders 18:00 - 19:30</td>
<td></td>
<td>In this interactive session, the faculty will present videos of unusual presentations of common hyperkinetic and hypokinetic movement disorders and provide an approach of how to localize where the causative lesion is and what the lesion might be (differential diagnosis), and appropriate investigations and treatment will be discussed. Audience participation is strongly encouraged.</td>
<td>Timothy Counihan Galway, Ireland Barry Snow Auckland, New Zealand</td>
<td>Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees</td>
</tr>
<tr>
<td>2414</td>
<td>Skills Workshop</td>
<td>Exercise therapy in movement disorders 18:00 - 19:30</td>
<td></td>
<td>In this interactive session, participants will be better able to understand how to select the most appropriate type of exercise for their patient depending upon their needs and understand key features relating to compliance. The faculty will identify different types of exercise, the rationale and benefits of each type and key features that impact maintaining an active lifestyle. Participants will learn how to apply those principles in their clinical practice.</td>
<td>Terry Ellis Boston, MA, USA Margaret Mak Hong Kong</td>
<td>Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees</td>
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<tr>
<td>2516</td>
<td>Video Session</td>
<td>Drug-induced movement disorders 18:00 - 19:30</td>
<td></td>
<td>In this interactive session, participants will be better able to recognize the phenomenology of drug-induced movement disorders and identify the different forms of acute, subacute, and tardive or chronic syndromes induced by drugs.</td>
<td>Mohit Bhatt Mumbai, India Stewart Factor Atlanta, GA, USA</td>
<td>Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees</td>
</tr>
<tr>
<td>2517</td>
<td>Video Session</td>
<td>Update on spastic paraplegias and spastic ataxias 18:00 - 19:30</td>
<td></td>
<td>In this interactive session, the faculty will review the clinical and genetic aspects of hereditary spastic paraplegia and the spastic ataxias.</td>
<td>Alexandra Durr Paris, France Bart Van De Warrenburg Nijmegen, Netherlands</td>
<td>Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees</td>
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<tr>
<td>2518</td>
<td>Video Session</td>
<td>Ataxia: Familial and sporadic 18:00 - 19:30</td>
<td></td>
<td>In this interactive session, the faculty will present videos of both genetic and sporadic ataxias and discuss the clues to recognize and differentiate between the different causes of ataxia.</td>
<td>Mathieu Anheim Strasbourg, France Alessandro Filla Naples, Italy</td>
<td>Clinical academicians, Practitioners, Students/Residents/Trainees</td>
</tr>
</tbody>
</table>
TUESDAY, JUNE 10, 2014

3101  Plenary Session VII  
Cell therapy for Parkinson's disease
8:00 - 10:00
Chairs: Anders Björklund
Lund, Sweden
Olle Lindvall
Lund, Sweden
8:00 Lessons learned from open-label cell transplantation studies
Roger Barker
Cambridge, United Kingdom
8:40 Reflections on sham-controlled clinical trials using fetal cell: Fifteen years later
Stanley Fahn
New York, NY, USA
9:20 Prospects of using stem cell-derived cells for clinical transplantation
Olle Lindvall
Lund, Sweden

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3102  Plenary Session VIII
Key learnings from recent movement disorders clinical trials
11:00 - 12:30
Chairs: Joaquim Ferreira
Lisbon, Portugal
Christopher Goetz
Chicago, IL, USA
11:00 Recent clinical trials on Parkinson's disease
Christopher Goetz
Chicago, IL, USA
11:30 Recent clinical trials on other movement disorders
Werner Poewe
Innsbruck, Austria
12:00 What to expect from ongoing clinical trials: Current challenges and methodological issues
Joaquim Ferreira
Lisbon, Portugal

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3203  Parallel Session  
Continuous dopaminergic stimulation (CDS)-based therapies for Parkinson’s disease
15:30 - 17:30
Chairs: Erik Danielsen
Risskov, Denmark
Tove Henriksen
Copenhagen, Denmark
15:30 CDS in Parkinson’s disease: When do we need to start?
Santiago Perez Lloret
Buenos Aires, Argentina
16:10 New ways of delivering oral and non-infusional CDS
Per Odin
Bremerhaven, Germany
16:50 Dopaminergic infusion therapies
Dag Nyholm
Uppsala, Sweden

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3204  Parallel Session
Development and maintenance of the nigrostriatal dopamine pathway: Novel insights and therapeutic targets
15:30 - 17:30
Chairs: Ernest Arenas
Stockholm, Sweden
Thomas Perlmann
Stockholm, Sweden
15:30 Genetic factors governing the neuronal dopaminergic phenotype
Ernest Arenas
Stockholm, Sweden
16:10 Nurr-1 role in the development and maintenance of dopamine neurons and Parkinson’s disease treatment
Anders Björklund
Lund, Sweden
16:50 The role of trophic factors in the maintenance of nigrostriatal neurons and Parkinson's disease treatment
Mark Tuszynski
La Jolla, CA, USA

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

3205  Parallel Session
Management of the gastrointestinal system in movement disorders
15:30 - 17:30
Chairs: Nicholas Miller
Newcastle upon Tyne, United Kingdom
Robert Rodnitzky
Iowa City, IA, USA
15:30 Diagnosis and management of dysphagia in Parkinson's disease
Nicholas Miller
Newcastle upon Tyne, United Kingdom
16:10 Contribution of diet to motor fluctuations in Parkinson's disease and strategies for management
Alison Leake
Surrey, United Kingdom
16:50 Medical management of gastrointestinal disturbance and motor fluctuations in Parkinson's disease
Sarah Marrinan
Newcastle upon Tyne, United Kingdom

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
**Movement Disorders Grand Rounds**
15:30 - 17:30

In this interactive session, volunteer patients with a known complex movement disorder will be in attendance. The patients, their history and clinical findings (including videotape of the movement disorder) will be presented by the Registrar/Resident/Fellow to one of the four movement disorder "experts." The expert will review the history with the patient and highlight and demonstrate the neurological signs to the audience, who can ask questions of the patient and the expert. The expert's job is to generate a differential diagnosis and management plan which can be critiqued by his/her fellow experts, the audience and the chairs. The session will show how a movement disorders expert takes a clinical history and performs a movement disorders examination of a patient to generate a diagnosis and a management plan. The faculty will discuss and debate the differential diagnosis. Audience participation and critique is encouraged. The final diagnosis and learning point will be presented after the expert and audience discussion is finished.

**Chairs:** Martin Paucar Arce
Stockholm, Sweden
Per Svenningsson
Stockholm, Sweden

**Experts:** Bastiaan Bloem
Nijmegen, Netherlands
Beom Jeon
Seoul, Korea
Claudia Trenkwalder
Kassel, Germany
David Burn
Newcastle upon Tyne, United Kingdom

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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**An update on Huntington’s disease: From pathophysiology to new treatments**
15:30 - 17:30

**Chairs:** Joaquim Ferreira
Lisbon, Portugal
Sarah Tabrizi
London, United Kingdom

15:30 Understanding the neurodegenerative processes in Huntington’s disease to develop novel therapeutics
Ignacio Munoz-Sanjuan
Los Angeles, CA, USA

16:10 Biomarkers and outcomes for clinical trials in Huntington’s disease
Sarah Tabrizi
London, United Kingdom

16:50 Update on disease modifying and symptomatic treatments
Bernhard Landwehrmeyer
Ulm, Germany

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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**Update on protein pathology and protein propagation in neurodegenerative diseases**
15:30 - 17:30

**Chairs:** Espen Dietrichs
Oslo, Norway
Glenda Halliday
Randwick, NSW, Australia

15:30 Proteinopathies causing movement disorders and their clinical relevance
Glenda Halliday
Randwick, NSW, Australia

16:10 Do proteinopathies spread in the brain?
Miquel Vila
Barcelona, Spain

16:50 The latest in targeting treatments to proteinopathies
Eliezer Masliah
La Jolla, CA, USA

**Recommended Audience:** Basic scientists, Clinical academicians, Students/Residents/Trainees
### TUESDAY, JUNE 10, 2014

<table>
<thead>
<tr>
<th>Workshop Type</th>
<th>Title</th>
<th>Time</th>
<th>Details</th>
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</thead>
</table>
| **3411 Skills Workshop** | **How to design clinical trials in hypo/hyperkinetic movement disorders (focus on Parkinson’s disease and Huntington’s disease)**  | 18:00 - 19:30 | In this interactive session, participants will be better able to recognize clinical trial design options, outcome measurements and reasons for trial failure in Parkinson’s disease and Huntington’s disease.  
Karl Kieburtz  
Rochester, NY, USA  
Cristina Sampaio  
Princeton, NJ, USA  
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees |
| **3414 Skills Workshop** | **Treatments of Tourette syndrome**  
**18:00 - 19:30**  
*In this interactive session, participants will be able to describe the clinical features of Tourette syndrome, and describe medical and DBS treatment for Tourette syndrome.  
Davide Martino  
London, United Kingdom  
Tamara Pringsheim  
Calgary, AB, Canada*  
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees | **3515 Video Session** | **Examples of video-documented outcomes of cell and gene therapy**  
**18:00 - 19:30**  
*In this interactive session, the faculty will highlight the benefits and risks of gene therapy and cell therapies in neurodegenerative disorders and movement disorders. Audience participation is encouraged.  
Peter LeWitt  
West Bloomfield, MI, USA  
Niall Quinn  
London, United Kingdom*  
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees |
| **3412 Skills Workshop** | **Update on bladder and sexual dysfunction in parkinsonian disorders**  
**18:00 - 19:30**  
*In this interactive session, participants will learn how to investigate and treat bladder and sexual dysfunction in patients with parkinsonian disorders.  
Karl-Erik Andersson  
Winston-Salem, NC, USA  
Gila Bronner  
Ramat-Gan, Israel*  
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees | **3516 Video Session** | **Diagnosis and treatment of psychogenic movement disorders**  
**18:00 - 19:30**  
*In this interactive session, based on video presentations, participants will learn to identify and uncover clinical and behavioral features of movement disorders that suggest a psychogenic origin.  
Kailash Bhatia  
London, United Kingdom  
Alberto Espay  
Cincinnati, OH, USA*  
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees |
| **3413 Skills Workshop** | **Tips and tricks for botulinum neurotoxin treatment**  
**18:00 - 19:30**  
*In this interactive session, the faculty will highlight the different therapeutic botulinum toxin preparations. Also, meaningful clinical outcomes hinged on the balance of efficacy and side effect profiles will be discussed.  
A. Peter Moore  
Liverpool, United Kingdom  
Raymond Rosales  
Manila, Philippines*  
Recommended Audience: Clinical academicians, Practitioners, Students/Residents/Trainees | **3517 Video Session** | **Wilson’s disease and other “heavy metal” basal ganglia disorders**  
**18:00 - 19:30**  
*In this interactive session, participants will be better able to diagnose, understand and treat Wilson’s disease and manganese related basal ganglia disorders. They will be able to recognize the “red flags” that suggest heavy metal basal ganglia disorders. Audience participation is encouraged.  
Ronald Pfeiffer  
Memphis, TN, USA  
Pille Taba  
Tartu, Estonia*  
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees |
| **3518 Video Session** | **Ten golden tips on how to better diagnose unusual movement disorders**  
**18:00 - 19:30**  
*In this interactive session, participants will be better able to understand the diagnostic work-up of patients presenting with an unusual movement disorder, and recognize a series of “tips and tricks” used by experts in movement disorders in their own clinical work-up of patients with unusual movement disorders.  
Marina De Koning-Tijssen  
Groningen, Netherlands  
Daniel Healy  
Dublin, Ireland*  
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees | **3519 Video Session** | **Ten golden tips on how to better diagnose unusual movement disorders**  
**18:00 - 19:30**  
*In this interactive session, participants will be better able to understand the diagnostic work-up of patients presenting with an unusual movement disorder, and recognize a series of “tips and tricks” used by experts in movement disorders in their own clinical work-up of patients with unusual movement disorders.  
Marina De Koning-Tijssen  
Groningen, Netherlands  
Daniel Healy  
Dublin, Ireland*  
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees |
**WEDNESDAY, JUNE 11, 2014**

### 4101 Plenary Session IX

**Presidential Lectures**

**8:00 - 10:00**

**Chairs:** Matthew Stern  
*Philadelphia, PA, USA*

Oscar Gershanik  
*Buenos Aires, Argentina*

8:00  
**Stanley Fahn Lecture**  
*Houston, TX, USA*

8:30  
**Junior Award Lecture: Clinical Science**  
*To be announced*

9:00  
**Junior Award Lecture: Basic Science**  
*To be announced*

9:30  
**C. David Marsden Lecture**  
*Lund, Sweden*

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (non-physician), Practitioners, Students/Residents/Trainees

### 4102 Plenary Session X

**Advances in movement disorders in children and adolescents**

**10:30 - 12:00**

**Chairs:** Russell Dale  
*Sydney, NSW, Australia*

Victor Fung  
*Westmead, NSW, Australia*

10:30  
**Solving the riddle of encephalitis lethargica: Autoimmune movement disorders**  
*Russell Dale  
Sydney, NSW, Australia*

11:00  
**Diagnosis and management of disorders of catecholamine synthesis and transport**  
*Manju Kurian  
London, United Kingdom*

11:30  
**Advances in the pathophysiology and management of Tourette syndrome**  
*Alexander Münchau  
Hamburg, Germany*

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### 4203 Parallel Session

**New developments in Deep Brain Stimulation (DBS)**

**15:00 - 17:00**

**Chairs:** Karen Østergaard  
*Hojbjerg, Denmark*

Stig Rehncrona  
*Lund, Sweden*

15:00  
**DBS in Parkinson’s disease: How early to start?**  
*Günther Deuschl  
Kiel, Germany*

15:40  
**New targets and new indications for DBS in movement disorders**  
*Joachim Krauss  
Hannover, Germany*

16:20  
**Adverse effects and long term safety**  
*Michael Okun  
Gainesville, FL, USA*

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### 4204 Parallel Session

**Gene silencing for movement disorders**

**15:00 - 17:00**

**Chairs:** Jan Aasly  
*Trondheim, Norway*

Asa Petersen  
*Lund, Sweden*

15:00  
**Dampening the toxic gain of function of autosomal dominant genes**  
*Michael Hayden  
Vancouver, BC, Canada*

15:40  
**Gene silencing in Huntington’s disease**  
*Nicole Deglon  
Lausanne, Switzerland*

16:20  
**Gene silencing for other neurodegenerative diseases**  
*Henry Paulson  
Ann Arbor, MI, USA*

Recommended Audience: Basic scientists, Clinical academicians, Students/Residents/Trainees

### 4205 Parallel Session

**Pedunculopontine area stimulation for treating movement disorders**

**15:00 - 17:00**

**Chairs:** Per Almqvist  
*Stockholm, Sweden*

Pierre Pollak  
*Geneva, Switzerland*

15:00  
**PPN: Location, structure and function**  
*Juan Mena-Segovia  
Oxford, United Kingdom*

15:40  
**Are there clinical benefits?**  
*Pierre Pollak  
Geneva, Switzerland*

16:20  
**Are there alternative targets for treating gait and balance?**  
*Tipu Aziz  
Oxford, United Kingdom*

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### 4206 Parallel Session

**Redefining Parkinson’s disease: Update on work of the task force**

**15:00 - 17:00**

**Chairs:** Daniela Berg  
*Tübingen, Germany*

Matthew Stern  
*Philadelphia, PA, USA*

15:00  
**Update on new MDS clinical diagnostic criteria for Parkinson’s disease**  
*Ron Postuma  
Montreal, QC, Canada*

15:40  
**Update for diagnosing Parkinson’s disease earlier: New criteria for prodromal Parkinson’s disease**  
*Daniela Berg  
Tübingen, Germany*

16:20  
**Does genetics influence diagnostic criteria for Parkinson’s disease?**  
*Thomas Gasser  
Tübingen, Germany*

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
### Parallel Session 4207

**Historical aspects of movement disorders**  
**Chair:** Sten-Magnus Aquilonius  
**Time:** 15:00 - 17:00

Contributions of Scandinavian neuroscientists to the field of movement disorders  
Sten-Magnus Aquilonius  
Uppsala, Sweden

History of concepts of dystonia  
Emmanuel Broussolle  
Lyon, France

Chorea: Emergence from olla podrida to movement disorder  
Francisco Cardoso  
Belo Horizonte, Brazil

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### Teaching Course 4309

**Gait in parkinsonian syndromes and other movement disorders**  
**Chair:** Nir Giladi  
**Time:** 15:00 - 17:00

Pathophysiology of gait in parkinsonian syndromes and other movement disorders  
Nir Giladi  
Tel Aviv, Israel

Evaluation of gait disorders: Clinical observation and gait analysis  
Evzen Ruzicka  
Prague, Czech Republic

Practical approach to management  
Lynn Rochester  
Newcastle upon Tyne, United Kingdom

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### Parallel Session 4208

**Corticobasal syndrome: Clinical, neuroanatomical and genetic perspectives**  
**Chair:** Melissa Armstrong  
**Time:** 15:00 - 17:00

Clinical pathological correlations in CBD  
Helen Ling  
London, United Kingdom

Genotype/Phenotype in CBS  
Adam Boxer  
Palo Alto, CA, USA

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### Teaching Course 4310

**Uncommon treatable movement disorders not to be missed**  
**Chair:** Alberto Albanese  
**Time:** 15:00 - 17:00

Uncommon treatable hypokinetic disorders  
Eng-King Tan  
Singapore

Uncommon treatable hyperkinetic disorders  
Alberto Albanese  
Milan, Italy

Unusual reversible iatrogenic disorders  
Madhuri Behari  
New Delhi, India

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### Skills Workshop 4411

**Lessons I learned from my patients**  
**Time:** 17:30 - 19:00

In this interactive session, the audience and speakers discuss the approach to movement disorder cases where the diagnosis is not immediately apparent but emerges with reassessment of clinical features and regular follow-up.  
Carlo Colosimo  
Rome, Italy

Timothy Lynch  
Dublin, Ireland

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### Skills Workshop 4412

**MDS-UPDRS**  
**Time:** 17:30 - 19:00

This interactive session will be dedicated to description, use and clinical application of the MDS-UPDRS scale.  
Mayela Rodriguez Violante  
Mexico City, Mexico

Anette Schrag  
London, United Kingdom

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### Skills Workshop 4413

**Palliative care for parkinsonian syndromes**  
**Time:** 17:30 - 19:00

In this interactive session, participants will be better able to understand how to identify and evaluate palliative care needs in parkinsonian syndromes and dementia. The faculty will outline key principles of palliative care management in parkinsonian syndromes and the roles of team members. Participants will learn how to apply those principles to identify and address needs including optimal timing of intervention.  
Julie Carter  
Portland, OR, USA

Janis Miyasaki  
Toronto, ON, Canada

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
### WEDNESDAY, JUNE 11, 2014

<table>
<thead>
<tr>
<th>4414</th>
<th>Skills Workshop</th>
<th>TICKET</th>
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<tr>
<td><strong>Treatment of psychiatric and cognitive symptoms in Parkinson’s disease</strong>&lt;br&gt;17:30 - 19:00&lt;br&gt;In this interactive session, participants will improve their skills in detection, bedside evaluation and management of cognitive deterioration, hallucinations, apathy, depression and anxiety.&lt;br&gt;Paolo Barone&lt;br&gt;Naples, Italy&lt;br&gt;Klaus Seppi&lt;br&gt;Innsbruck, Austria</td>
<td><strong>Invasive therapies for Parkinson’s disease:</strong>&lt;br&gt;A video-based presentation&lt;br&gt;17:30 - 19:00&lt;br&gt;In this interactive session, faculty will make video presentations of patients with advanced Parkinson’s disease, as basis for a discussion on indications, contraindications for and choice of advanced therapy (apomorphine pump, LCIG pump and Deep Brain Stimulation).&lt;br&gt;Angelo Antonini&lt;br&gt;Venice, Italy&lt;br&gt;Paul Krack&lt;br&gt;Grenoble, France</td>
<td><strong>Movement disorders in pediatrics/adolescents</strong>&lt;br&gt;17:30 - 19:00&lt;br&gt;In this interactive session, the faculty will present a series of videos to highlight the broad spectrum of movement disorders commonly seen in the young. There will be discussions on a practical clinical approach and management of these cases.&lt;br&gt;Padraic Grattan-Smith&lt;br&gt;Matraville, NSW, Australia&lt;br&gt;Emmanuel Roze&lt;br&gt;Paris, France</td>
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**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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<th>4516</th>
<th>Video Session</th>
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<tr>
<td><strong>Unusual movement disorders</strong>&lt;br&gt;17:30 - 19:00&lt;br&gt;In this interactive session, faculty will focus on video presentations of uncommon movement disorders that may be inherited, acquired, or idiopathic.&lt;br&gt;Victor Fung&lt;br&gt;Westmead, NSW, Australia&lt;br&gt;Mandar Jog&lt;br&gt;London, ON, Canada</td>
<td><strong>Eye movements in movement disorders</strong>&lt;br&gt;17:30 - 19:00&lt;br&gt;In this interactive session, faculty will discuss the approach to oculo-motor diagnosis and show examples of eye movement abnormalities in movement disorders.&lt;br&gt;Tim Anderson&lt;br&gt;Christchurch, New Zealand&lt;br&gt;Janet Rucker&lt;br&gt;New York, NY, USA</td>
<td><strong>MDS Video Challenge</strong>&lt;br&gt;19:00 – 22:00</td>
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</table>

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
THURSDAY, JUNE 12, 2014

5101 Plenary Session XI

Neurodegeneration with brain iron accumulation discoveries and controversies
8:00 - 9:30
Chairs: Kailash Bhatia
London, United Kingdom
Susan Hayflick
Portland, OR, USA
8:00 Neurodegeneration with brain iron accumulation diseases: Presentation in infancy and childhood
Susan Hayflick
Portland, OR, USA
8:30 Neurodegeneration with brain iron accumulation diseases: Presentation in adolescence and adulthood
Susanne Schneider
Kiel, Germany
9:00 The role of iron in neurodegeneration: Insights from disorders of neuronal brain iron accumulation and other diseases
Kay Double
Sydney, NSW, Australia

5102 Controversies in Movement Disorders

10:00 - 11:00
Chairs: Bastiaan Bloem
Nijmegen, Netherlands
Eduardo Tolosa
Barcelona, Spain
10:00 Levodopa from the get go? (YES)
Andrew Lees
London, United Kingdom
10:15 Levodopa from the get go? (NO)
Olivier Rascol
Toulouse, France
10:30 Are psychogenic movement disorders organic? (YES)
Mark Edwards
London, United Kingdom
10:45 Are psychogenic movement disorders organic? (NO)
Anthony Lang
Toronto, ON, Canada

5103 Blue Ribbon Highlights

11:00 - 12:00
Chairs: Alfredo Berardelli
Rome, Italy
Mark Hallett
Bethesda, MD, USA
D. James Surmeier
Chicago, IL, USA
Oscar Gershanik
Buenos Aires, Argentina

5104 Parallel Session

Development of new treatments for targeting abnormal aggregation of alpha-synuclein
15:00 - 17:00
Chairs: Wassilios Meissner
Bordeaux, France
Brit Mollenhauer
Kassel, Germany
15:00 Results from preclinical proof of concept studies
Patrik Brundin
Grand Rapids, MI, USA
15:40 Which biomarkers may be useful as objective outcome measures for clinical trials?
Takahiko Tokuda
Kyoto, Japan
16:20 Multiple system atrophy as a model for clinical proof of concept studies
Wassilios Meissner
Bordeaux, France

5105 Parallel Session

Restless legs syndrome (RLS)
15:00 - 17:00
Chairs: Lena Leissner
Orebro, Sweden
Claudia Trenkwalder
Kassel, Germany
15:00 Latest developments concerning RLS genetics and pathophysiology
Juliane Winkelmann
Palo Alto, CA, USA
15:40 New diagnostic criteria and treatment algorithm for RLS
Diego Garcia-Borreguero
Madrid, Spain
16:20 What to do when RLS treatment becomes complicated (including pregnancy, secondary RLS and treatment complications)
Birgit Högl
Innsbruck, Austria

5106 Parallel Session

Geographical and socioeconomic disparities in movement disorders care
15:00 - 17:00
Chairs: Sven Palhagen
Enskede Gård, Sweden
Raymond Rosales
Manila, Philippines
15:00 An African perspective
Roberto Gilla
Milan, Italy
15:40 An Asian perspective
Roland Dominic Jamora
Manila, Philippines
16:20 An American perspective
Nabila Dahodwala
Philadelphia, PA, USA

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
### Parallel Session 5207
**Title:** Neuroinflammation and “two-face” microglia in neurodegenerative disorders  
**Time:** 15:00 - 17:00  
**Chairs:** Etienne Hirsch, Paris, France  
Ryosuke Takahashi, Kyoto, Japan

15:00 Immunology of neurodegeneration  
Tony Wyss-Coray, Palo Alto, CA, USA

15:40 Neuroinflammation in Parkinson’s disease  
Etienne Hirsch, Paris, France

16:20 Brain imaging of microglial activation in neurodegeneration  
Makoto Higuchi, Chiba, Japan

**Recommended Audience:** Basic scientists, Clinical academicians, Students/Residents/Trainees

### Parallel Session 5209
**Title:** Windows of the mind: Neuroimaging neuropsychiatric symptoms in Parkinson’s disease  
**Time:** 15:00 - 17:00  
**Chairs:** Simon Lewis, Sydney, NSW, Australia  
Antonio Strafella, Toronto, ON, Canada

15:00 From synapse to the neural networks of impulse control  
Antonio Strafella, Toronto, ON, Canada

15:40 From hypothesis to understanding hallucinations  
Simon Lewis, Sydney, NSW, Australia

16:20 Imaging of depression and apathy  
Stephane Thobois, Neuilly-sur-Seine, France

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### Parallel Session 5208
**Title:** Basal ganglia pathways in health and disease  
**Time:** 15:00 - 17:00  
**Chairs:** Andrea Kühn, Berlin, Germany  
José Obeso, Pamplona, Spain

15:00 Distinct pathways of information flow within the basal ganglia  
Atsushi Nambu, Okazaki, Japan

15:40 Functional significance of the direct and indirect pathways in the basal ganglia  
Erwan Bezard, Bordeaux, France

16:20 Clinical relevance of basal ganglia pathways  
Maria Rodriguez-Oroz, Pamplona, Spain

**Recommended Audience:** Basic scientists, Clinical academicians, Students/Residents/Trainees

### Teaching Course 5310
**Title:** How to assess patients in clinical trials with experimental therapies for Parkinson’s disease  
**Time:** 15:00 - 17:00  
**Chairs:** Karl Kieburtz, Rochester, NY, USA  
Olle Lindvall, Lund, Sweden

15:00 Recruitment strategies and patient selection  
Alfonso Pasano, Toronto, ON, Canada

15:40 Biochemical and imaging markers  
Kenneth Marek, New Haven, CT, USA

16:20 Design and critical appraisal of clinical trials  
Bernard Ravina, Cambridge, MA, USA

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners

### Teaching Course 5309
**Title:** Autoimmune movement disorders  
**Time:** 15:00 - 17:00  
**Chairs:** Sarosh Irani, Oxford, United Kingdom  
Thomas Kimber, Adelaide, SA, Australia

15:00 Autoimmune hyper and hypokinetic movement disorders  
Thomas Kimber, Adelaide, SA, Australia

15:40 Stiff-man syndromes  
Hans-Michael Meinck, Heidelberg, Germany

16:20 Autoimmune syndromes of myoclonus and epilepsy  
Sarosh Irani, Oxford, United Kingdom

**Recommended Audience:** Clinical academicians, Practitioners, Students/Residents/Trainees
ABOUT MDS
The International Parkinson and Movement Disorder Society (MDS) is a 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. The spectrum of clinical disorders represented by the Society includes, but is not limited to:

- Ataxia
- Chorea
- Dystonia
- Gait disorders
- Huntington’s disease
- Myoclonus and startle
- Parkinson’s disease and parkinsonism
- Restless legs syndrome
- Stiff person syndrome
- Tics and Tourette syndrome
- Tremor and essential tremor

In recent years, there has been tremendous growth in new diagnostic information, pharmacological and neurosurgical treatments for Movement Disorders, as well as a greater understanding of impaired motor control function. MDS offers you and your patients an essential link to this knowledge.

The Movement Disorder Society was founded in 1985 on the initiative of Professors Stanley Fahn and C. David Marsden, whose leadership and vision guided the expansion of clinical expertise and research in this field. This not-for-profit organization merged in 1992 with the International Medical Society for Motor Disturbances. Publication of the journal Movement Disorders began in 1986, and the first International Congress was held in 1990.

In 2013, The Movement Disorder Society officially changed its name to the International Parkinson and Movement Disorder Society, in order to recognize the growing importance of Parkinson’s disease care and research within the field of Movement Disorders.

PURPOSE, MISSION AND GOALS

Purpose:
The objective and mission of the Society shall be to advance the neurological sciences pertaining to Movement Disorders; to improve the diagnosis and treatment of patients; to operate exclusively for scientific, scholarly and educational purposes; to encourage research; to provide forums, such as medical journals, scientific symposia and International Congresses, for sharing ideas and for advancing the related clinical and scientific disciplines; to encourage interest and participation in the activities of the Society among healthcare and allied professionals and scientists; and to collaborate with other related professional and lay organizations.

Mission and Goals:
- To disseminate knowledge about Movement Disorders
- To promote research into causes, prevention and treatment of Movement Disorders
- For the purposes of favorably affecting the care of patients with Movement Disorders, the Society will provide expertise, advice and guidance

CONTINUING MEDICAL EDUCATION INFORMATION

Purpose:
The purpose of the MDS International Congress is to offer a forum for clinical and basic discussion on a variety of Movement Disorder topics, including presentations of current research and available treatments.

Target Audience:
The target audience includes clinicians, researchers, post-doctoral fellows, medical residents, medical students and other healthcare professionals with an interest in the current research and approaches for the diagnosis and treatment of movement disorders.

Learning Objectives:
Through state-of-the-art lectures, hot topic reviews, controversy debates, Teaching Courses, Skills Workshops and Video Sessions, participants will be better able to:

1. Describe the pathophysiology and neurobiology of Parkinson’s disease and other movement disorders
2. Discuss the diagnostic approaches and tools available for Parkinson’s disease and other movement disorders
3. Discuss the pharmacological and non-pharmacological treatment options available for Parkinson’s disease and other movement disorders

Accreditation Statement:
The International Parkinson and Movement Disorder Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The International Parkinson and Movement Disorder Society designates this educational activity for a maximum of 35 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.
18th INTERNATIONAL CONGRESS OF PARKINSON’S DISEASE AND MOVEMENT DISORDERS

IMPORTANT DATES

JANUARY 2014
Preliminary Program Available

JANUARY 6, 2014
Abstract Submission Deadline

APRIL 11, 2014
Early Registration Deadline

MAY 9, 2014
Final Pre-Registration Deadline

JUNE 8-12, 2014
18th International Congress of Parkinson’s Disease and Movement Disorders

STOCKHOLM
sweden
JUNE 8-12, 2014