

14TH International Congress OF Parkinson's Disease AND Movement Disorders

# Final Program





## **Claiming CME Credit**

To claim CME credit for your participation in the MDS 14th International Congress of Parkinson's Disease and Movement Disorders, International Congress participants must complete and submit an online CME Request Form. This form will be available beginning June 15.

#### Instructions for claiming credit:

- After June 15, visit the MDS Web site.
- Log in after reading the instructions on the page. You will need your International Congress File Number which is located on your name badge or e-mail congress@movementdisorders.org.
- Follow the on-screen instructions to claim CME Credit for the sessions you attended.
- You may print your certificate from your home or office, or save it as a PDF for your records.

#### **Continuing Medical Education**

The *Movement* Disorder Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

#### **Credit Designation**

The *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.

If you need a Non-CME Certificate of Attendance, please tear out the Certificate in the back of this Program and write in your name.

The *Movement* Disorder Society has sought accreditation from the European Accreditation Council for Continuing Medical Education (EACCME) to provide CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS). For more information, visit the Web site: www.uems.net.

EACCME credits are recognized by the American Medical Association towards the Physician's Recognition Award (PRA). To convert EACCME credit to *AMA PRA category 1 credit*, contact the AMA online at www.ama-assn.org.





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## Welcome

Dear Colleagues and Friends,

Welcome to Buenos Aires for the 14th International Congress of Parkinson's Disease and Movement Disorders!

We would like to express our gratitude to the large number of our volunteer committees for designing this International Congress including Congress Local Organizing Committee for their hard work in arranging the Congress social events that we are sure you will enjoy. We would especially like to thank the Congress Scientific Program Committee for their hard work and coordination of this superior Scientific Program. The 2010 Scientific Program will incorporate Therapeutic Plenary Sessions, Plenary and Parallel Sessions, Teaching Courses, Video Sessions, Skills Workshops, Guided Poster Tours and Blue Ribbon Highlights. This year's program features 66 sessions led by over 170 esteemed faculty from around the world.

While in Buenos Aires, we hope you not only allot time in your schedule to participate in our detailed program, visit the exhibit and poster areas and attend the social events in the evenings, but also get a chance to see the sights and sounds of what makes Buenos Aires such a unique destination.

Thank you for your support of The Movement Disorder Society and welcome to our 14th International Congress of Parkinson's Disease and Movement Disorders.

Philip D. Thompson

President, The Movement Disorder Society, 2009-2011

Churchyher Street

Christopher G. Goetz Chair, Congress Scientific Program Committee, Congress Scientific Program Committee, 2009-2011

Oscar Gershanik Co-Chair, 2010



## **Acknowledgements**

The International Congress Oversight Committee of the 14th International Congress of Parkinson's Disease and Movement Disorders wishes to acknowledge and thank the following companies for their support:

#### PLATINUM LEVEL



















#### **GOLD LEVEL**







#### SILVER LEVEL



<sup>\*</sup>These companies are confirmed as of April 15, 2010



#### **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. The spectrum of clinical disorders represented by the Society includes, but is not limited to:

Ataxia
Blepharospasm
Dysphonia
Dystonic disorders
Gait disorders
Huntington's disease
Myoclonus
Parkinson's disease
Restless legs syndrome
Spasticity
Tardive dyskinesia
Tics and Tourette syndrome
Tremor

The *Movement* Disorder Society (MDS) 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. The organization merged in 1988 with the International Medical Society for Motor Disturbances.

# 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 by:

- Providing educational programs for clinicians, scientists and the general public designed to advance scientific and clinical knowledge about Movement Disorders;
- Sponsoring congresses and symposia on Movement Disorders;
- Collaborating with other international organizations and lay groups;
- Publishing journals, videotapes and other collateral materials committed to high scientific standards and peer review.

To promote research into causes, prevention and treatment of movement disorders by:

- Using the Society's influence and resources to enhance support for research;
- Facilitating the dissemination of information about research;
- Encouraging the training of basic and clinical scientists in movement disorders and related disorders.

For the purposes of favorably affecting the care of patients with movement disorders, the Society will provide expertise, advice and guidance to:

- Regulatory agencies to assist them in the approval process of safe and effective therapeutic interventions;
- The public (media) and patient support groups by informing them of new research and therapeutic advances;
- Governments to assist them in the development of policies that affect support of research and patient care;
- Educational efforts to assist in developing standards of training in the specialty.



## **About MDS**

#### **MDS OFFICERS (2009-2011)**



President Australia



**President-Elect** Philip Thompson, Günther Deuschl, Matthew Stern, Germany



Secretary USA



Secretary-Elect USA



Treasurer Cynthia Comella, Oscar Gershanik, Nir Giladi, Argentina



Treasurer-Elect Israel



Past-President Anthony Lang, Canada

#### MDS INTERNATIONAL **EXECUTIVE COMMITTEE**

Giovanni Abbruzzese, Italy Alim Benabid, France Kailash Bhatia, United Kingdom David John Burn, United Kingdom Ryuji Kaji, Japan Irene Litvan, USA Serge Przedborski, USA Cristina Sampaio, Portugal A. Jon Stoessl, Canada

#### INTERNATIONAL CONGRESS **OVERSIGHT COMMITTEE**

Chair: Andrew Lees, United Kingdom Günther Deuschl, Germany Oscar Gershanik, Argentina Anthony Lang, Canada C. Warren Olanow, USA Philip Thompson, Australia Ad-Hoc: Christopher Goetz, USA

#### **CONGRESS SCIENTIFIC** PROGRAM COMMITTEE

Chair: Christopher Goetz, USA Co-Chair: Oscar Gershanik, Argentina Roger Barker, United Kingdom Kailash Bhatia, United Kingdom David John Burn, United Kingdom Francisco Cardoso, Brazil Ted Dawson, USA Günther Deuschl, Germany Dennis Dickson, USA Giovanni Fabbrini, Italy Susan Fox, Canada Thomas Gasser, Germany Etienne Hirsch, France Christine Klein, Germany Joachim Krauss, Germany Andrew Lees, United Kingdom Irene Litvan, USA Pablo Martinez-Martin, Spain Marcelo Merello, Argentina Per Odin, Germany Henry Paulson, USA Ronald Pfeiffer, USA Serge Przedborski, USA Kapil Sethi, USA Louis Tan, Singapore Daniel Tarsy, USA Philip Thompson, Australia Marie Vidailhet, France



## **About MDS**

# CONGRESS LOCAL ORGANIZING COMMITTEE

Chair: Oscar Gershanik Tomoko Arakaki

José Bueri Anabel Chade

Silvia García Nélida Garretto

Emilia Gatto

Rolando Giannaula

Gonzalo Gómez Arévalo

Marcelo Merello

Federico Micheli

Maria Cecilia Peralta

Manuel Rodríguez

Diana Simonetti

Guillermo Zeppa

#### **PAST-PRESIDENTS**

2007-2009 Anthony Lang, Canada

2005-2006 Andrew Lees, United Kingdom

2003-2004 C. Warren Olanow, USA

2001-2002 Werner Poewe, Austria

1999-2000 Mark Hallett, USA

1997-1998 Eduardo Tolosa, Spain

1995-1996 Joseph Jankovic, USA

1991-1994 C. David Marsden, United Kingdom

1988-1991 Stanley Fahn, USA

# INTERNATIONAL MEDICAL SOCIETY FOR MOTOR DISTURBANCES PAST-PRESIDENTS

1993-1994 C. Warren Olanow, USA 1991-1992 Bastian Conrad, Germany

1989-1990 Mark Hallett, USA

1987-1988 Mario Manfredi, Italy

1985-1986 C. David Marsden, United Kingdom

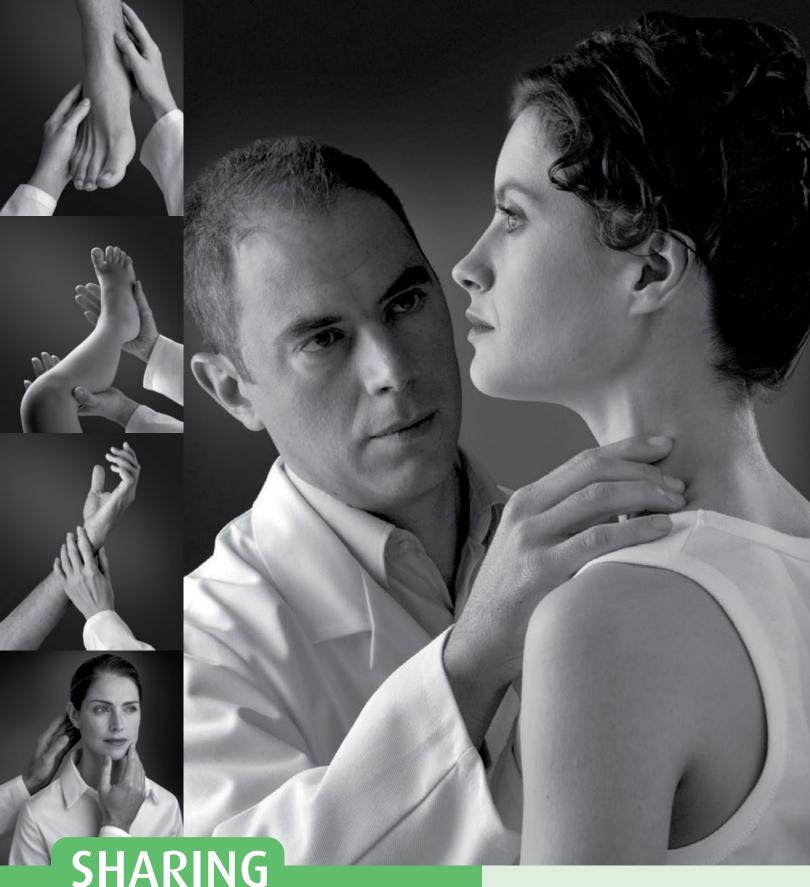
#### MDS INTERNATIONAL SECRETARIAT

The *Movement* Disorder Society 555 East Wells Street, Suite 1100 Milwaukee, WI 53202-3823 USA

Tel: +1 414-276-2145 Fax: +1 414-276-3349

E-mail: congress@movementdisorders.org Web site: www.movementdisorders.org





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#### **MDS Education**

MDS is committed to advancing the field of Movement Disorders by continuing to expand its educational program. This program offers an increasing variety of high caliber continuing medical education and continuing professional development in Movement Disorders including live courses, region-specific education, internet education, support and endorsement opportunities and educational materials for sale. For information on all MDS Educational Courses, please visit the MDS Web site.

#### LIVE COURSES AND PROGRAMS



#### New Therapies for Advanced Parkinson's Disease Fall, 2010

**Duke University, Durham, NC, USA** While mainstay Parkinson's disease therapies, such as levodopa or dopamine agonists, provide

significant initial benefit to patients, there is increasing need for new therapies for this disorder. This course will combine didactic lecture with workshop, case-based presentations to present a comprehensive overview of new therapies in Parkinson's disease. This course is intended for Movement Disorder specialists, general neurologists, primary care physicians and junior investigators.



#### Treatment of Parkinson's disease October 16, 2010 São Paulo, Brazil

This course will address the clinical and surgical treatment of Parkinson's disease. Emphasis will be placed on the management

of patients with early stage illness, treatment of nonmotor symptoms of PD, and management of levodopa complications. This course is intended for Movement Disorder specialists, general neurologists, primary care physicians and junior investigators.

#### VISITING PROFESSOR PROGRAM

This program is intended to provide an excellent educational opportunity in Movement Disorders to regions of the world not adequately served by resources within that region.

#### AMBASSADOR PROGRAM

This program is intended to support the participation of regional experts in the field of Movement Disorders at existing conferences around the world.

# MDS SPONSORSHIP AND ENDORSEMENT FOR MEETINGS

For new and novel meetings, a total amount of \$70,000 USD is available to support scientific meetings, with an additional \$30,000 USD in funding available only for meeting organizers who have Affiliate Member status with the Society. Applications may be submitted online up to six months prior to the meeting date. Applications should include a proposed program, topics, faculty and a tentative budget.

"Endorsed Meetings" are meetings that are sanctioned by MDS and should be open to the general community of neurologists, neuroscientists, and others with an interest in Movement Disorders. MDS will promote Endorsed Meetings in the Society's publications, including the *Movement* Disorders journal, the newsletter *Moving Along* and on the MDS Web site.

#### INTERNET EDUCATION MEMBERS ONLY

#### www.movementdisorders.org/education

In alignment with our educational mission, The *Movement* Disorder Society is pleased to provide online activities for MDS Members. These activities are helping to expand the outreach of our educational offerings.

#### Now Available: 12th International Congress Teaching Course Webcasts

Review the Teaching Course Webcasts of the 12th International Congress of Parkinson's Disease and Movement Disorders, which took place in June 2008 in Chicago, IL, USA.

#### Webcasts include:

- Dysautonomia in Parkinson's Disease:
   Spectrum, Evaluation and Treatment
- Neuropsychiatry in Parkinson's Disease: Beyond Dementia
- Tics and Stereotypies
- Vascular and Post-hypoxic Movement Disorders
- PSP and CBD
- Impulse Control Disorders



#### **MDS Education**

#### **SLIDE SETS**

This resource enables learners to become familiar with the differential diagnosis and clinical features that define various common involuntary movements as well as the course of treatment and complications of movement disorders. Slide sets are presented in PowerPoint format.

#### Slide sets include:

- Ataxia
- Chorea
- The Diagnosis and Management of Dystonia
- Myoclonus: Diagnosis and Treatment
- Parkinsonism
- Restless legs syndrome
- Tics and Tourette Syndrome

#### VIDEO LIBRARY

The Video Library consists of video supplements of rare and unusual movement disorders from the *Movement* Disorders journal since 1986. It is searchable by keyword, author, volume and issue, or a combination of these fields.

#### **CASE OF THE MONTH**

Case of the Month (COM) is the MDS interactive online feature that presents unique and challenging movement disorder cases. MDS Members are invited to answer questions after analyzing video and case history and are provided with the expert's analysis. \*MDS is currently accepting submissions for Case of the Month. Case of the Month provides an opportunity for members to share interesting cases for educational purposes, in a forum dedicated to Movement Disorder experts.

#### **QUICK OPINION PLEASE**

This activity is an online forum for discussion featuring one challenging case every month. Members are encouraged to view the case and express their opinions and suggestions. Selected cases are submitted by members and the "challenge" can be diagnostic, therapeutic or both.

# INTERNET EDUCATION AVAILABLE TO THE PUBLIC

#### **Online Journal CME**

Created from articles in the journal *Movement* Disorders, Online Journal CME requires participants to read selected articles and correctly answer CME questions to earn a maximum of 1.00 *AMA PRA Category 1 Credits* <sup>TM</sup> per activity. Activities are completed online and submitted to MDS Education Department for review. Each activity is available to the public at a cost of \$25.00 USD per activity. *This is of no cost to MDS Members*.

# Edward I. Rudman Parkinson's Disease Patient and Caregiver Symposium:

#### Non-motor Aspects of Parkinson's Disease Webcast

This webcast was created from the Edward I. Rudman Parkinson's Disease Patient and Caregiver Symposium: Non-Motor Aspects of Parkinson's Disease which took place on October 31, 2009 at The Conference Center at Harvard Medical. Topics covered are important non-motor aspects of Parkinson's disease such as depression, anxiety, sleep disorders, autonomic disturbances and cognitive deficits which often impact the quality of life of patients with Parkinson's disease as much as or even more than motor symptoms.

# AUDIOVISUALS AVAILABLE FOR ONLINE PURCHASE

14th International Congress – Teaching Course Webcasts MDS is pleased to offer the opportunity to order a DVD of all eight Teaching Courses from the 14th International Congress in Buenos Aires, Argentina. Each DVD includes slides, audio and video of all eight teaching courses and the accompanying syllabi. Teaching Course titles include:

- Neuroimaging techniques and applications
- Differential diagnosis of parkinsonism
- Genetics of movement disorders
- Music and movement disorders
- Pediatric movement disorders
- Neuropharmacology of Parkinson's disease
- Update on tremor

Order forms are included in the 14th International Congress registration bags, at the MDS Booth and as inserts in the Teaching Course syllabi.

The webcast recording of the Teaching Course, "Update on dystonia," will be available on the MDS Web site at no cost; supported by an unrestricted educational grant from Ipsen.









#### **Asian and Oceanian Section Education**

# AOS EDUCATIONAL COURSE SPONSORSHIP PROGRAM

The MDS-AOS recognizes that some regions do not have access to trained Movement Disorder specialists and are restricted by size and/or resources from establishing a training program. This program is designed to address the needs of those regions by supporting a one- to two-day course devoted to Movement Disorders education that may be stand-alone or conjoined with a local meeting. MDS-AOS funds regional and international experts to speak at the course.

#### 3RD AOPMC 2011 - TAIPEI, TAIWAN

# http://www.movementdisorders.org/regional\_sections/aos/aopmc/aopmc\_taipei.php

The 3rd Asian and Oceanian Parkinson's Disease and Movement Disorders Congress (AOPMC), organized by MDS-AOS and Taiwan Movement Disorder Society, will be held in Taipei, Taiwan from March 25-27, 2011. The target participants of the 3rd AOPMC meeting will include doctors, researchers, and healthcare professionals. Among these participants will be many opinion leaders and key Movement Disorders specialists from this region and other parts of the world.

The congress will include plenary sessions, educational courses, video sessions, workshops and poster displays. It will cover the entire spectrum of Parkinson's disease and Movement Disorders, from basic science to clinical practice.

For more information, please review the AOPMC brochure included in your registration bag, or contact the 3rd AOPMC Secretariat at: aopmc2011taiwan@come2meet.com or Kate Breckenridge at: cbreckenridge@movementdisorders.org.

# EDUCATIONAL EXCHANGE TRAINING PROGRAM SITES

Within the Asian and Oceanian region there are academic centers that specialize in training physicians in the diagnosis and treatment of Movement Disorders. The AOS is collaborating with Members and educational partners to compile a database of training centers, including an overview of each program and relevant contact information.

### **European Section Education**

# ES FUND FOR UNDER RESOURCED COUNTRIES

MDS Members may apply for funding to host one-to two-day courses on Movement Disorders that can operate independently or alongside local meetings. As part of this program, MDS-ES funds regional and international speakers to be part of the courses. Past courses have been held in Romania and Estonia. **Upcoming courses:** Movement Disorders Teaching Course, Skopje, Macedonia, October 22, 2010; and Movement Disorders and Sleep, Braşov, Romania, November 26-27, 2010.

#### EUROPEAN FEDERATION OF NEUROLOGICAL SOCIETIES (EFNS)

The strong collaboration between MDS and EFNS includes programming at the annual EFNS Congresses, EFNS Eastern European Teaching Courses, and the EFNS Academy for Young Neurologists. In April 2010, MDS organized faculty to participate in an EFNS Teaching Course in Odessa, Ukraine and in May 2010 organized faculty for the EFNS Academy for Young Neurologists in Staré Splavy, Czech Republic. **Upcoming education:** 14th EFNS International Congress, Geneva, Switzerland, September 25-28, 2010; Teaching Course, Lviv, Ukraine, June 16-18, 2011; and 15th EFNS International Congress, Budapest, Hungary, September 10-13, 2011.

# DE NOVO PARKINSON'S DISEASE: DIAGNOSIS AND TREATMENT WEBCAST

This webcast was created from the De Novo Parkinson's Disease: Diagnosis and Treatment course, which took place on April 24, 2010 at the Faculty of Medicine at the University of Lisbon in Lisbon, Portugal. Topics covered the natural history of Parkinson's disease, differences between Parkinson's disease, essential tremor and atypical parkinsonism, how and when to determine treatment for early Parkinson's disease, and management of non-motor problems in early-stage Parkinson's disease. This webcast is available on the MDS Web site.

# MDS EUROPEAN SUMMER SCHOOL FOR YOUNG NEUROLOGISTS

The MDS European Summer School for Young Neurologists will be held July 9-11, 2010 in Nijmegen, The Netherlands. This Summer School provides young neurologists (under the age of 40) throughout Europe, North Africa and the Middle East an opportunity for a unique, hands-on Summer School experience. Applications for this Summer School have now closed, but please contact Hope Wallace at: hwallace@movementdisorders.org regarding future Summer and Winter Schools, or any European Section programming.



# Innovating what matters most

Medtronic was just named one of the **"50 most innovative companies"** by MIT Technology Review for our leadership in the development and introduction of Deep Brain Stimulation (DBS) Therapy. More than **75,000 patients** worldwide have Medtronic DBS therapy.

Every day we continue to innovate—thinking beyond and collaborating with you to discover new indications and to conquer the most pressing patient needs. In collaboration with you, Medtronic DBS Therapy helps patients **achieve daily victories**. After all, that's what matters most.

Medtronic is proud to be a gold level sponsor of the 14th International Congress of Parkinson's Disease and Movement Disorders.



Activa® Parkinson's Control Therapy, Tremor Control Therapy, and Dystonia Therapy: Product technical manual must be reviewed prior to use for detailed disclosure.

Indications: Parkinson's Control Therapy: Bilateral stimulation of the internal globus pallidus (GPi) or the subthalamic nucleus (STN) using Medtronic® Activa® Parkinson's Control Therapy is indicated for adjunctive therapy in reducing some of the symptoms of advanced, levodopa-responsive Parkinson's disease that are not adequately controlled with medication.

**Tremor Control Therapy:** Unilateral thalamic stimulation by the Medtronic® Activa® Tremor Control System is indicated for the suppression of tremor in the upper extremity. The system is intended for use in patients who are diagnosed with Essential Tremor or Parkinsonian tremor not adequately controlled by medications and where the tremor constitutes a significant functional disability. The safety or effectiveness of this therapy has not been established for bilateral stimulation.

**Dystonia Therapy:** Unilateral or bilateral stimulation of the internal globus pallidus (GPi) or the subthalamic nucleus (STN) by the Medtronic Activa System is indicated as an aid in the management of chronic, intractable (drug refractory) primary dystonia, including generalized and segmental dystonia, hemidystonia, and cervical dystonia (torticollis), for individuals 7 years of age and older

**Contraindications:** Contraindications include patients who will be exposed to MRI using a full body radio-frequency (RF) coil or a head transmit coil that extends over the chest area, patients who are unable to properly operate the neurostimulator, or for Parkinson's disease and Essential Tremor, patients for whom test stimulation is unsuccessful. Also, diathermy (e.g., shortwave diathermy, microwave diathermy or therapeutic ultrasound diathermy) is contraindicated because diathermy's energy can be transferred through the implanted system (or any of the separate implanted components), which can cause tissue damage and can result in severe injury or death. Diathermy can damage parts of the neurostimulation system.

Warnings/ Precautions/Adverse Events: There is a potential risk of tissue damage using stimulation parameter settings of high amplitudes and wide pulse widths. Extreme care should be used with lead implantation in patients with a heightened risk of intracranial hemorrhage. Do not place the lead-extension connector in the soft tissues of the neck. Placement in this location has been associated with an increased incidence of lead fracture. Theft detectors and security screening devices may cause stimulation to switch ON or OFF, and may cause some patients to experience a momentary increase in perceived stimulation. Although some MRI procedures can be performed safely with an implanted Activa System, clinicians should carefully weigh the decision to use MRI in patients with an implanted Activa System. MRI can cause induced voltages in the neurostimulator and/or lead possibly causing uncomfortable, jolting, or shocking levels of stimulation. MRI image quality may be reduced for patients who require the neurostimulator to control tremor, because the tremor may return when the neurostimulator is turned off.

Severe burns could result if the neurostimulator case is ruptured or pierced. The Activa System may be affected by or adversely affect medical equipment such as cardiac pacemakers or therapies, cardioverter/ defibrillators, external defibrillators, ultrasonic equipment, electrocautery, or radiation therapy. Safety and effectiveness has not been established for patients with neurological disease other than Parkinson's disease or Essential Tremor, previous surgical ablation procedures, dementia, coagulopathies, or moderate to severe depression; or for patients who are pregnant, under 18 years, over 75 years of age (Parkinson's Control Therapy) or over 80 years of age (Tremor Control Therapy). For patients with Dystonia, age of implant is suggested to be that at which brain growth is approximately 90% complete or above. Additionally, the abrupt cessation of stimulation for any reason should be avoided as it may cause a return of disease symptoms. In some cases, symptoms may return with an intensity greater than was experienced prior to system implant ("rebound" effect). Adverse events related to the therapy, device, or procedure can include: stimulation not effective, cognitive disorders, pain, dyskinesia, dystonia, speech disorders including dysarthria, infection, paresthesia, intracranial hemorrhage, electromagnetic interference, cardiovascular events, visual disturbances, sensory disturbances, device migration, paresis/asthenia, abnormal gait, incoordination, headaches, lead repositioning, thinking abnormal, device explant, hemiplegia, lead fracture, seizures, respiratory events, and shocking or jolting stimulation.

**Humanitarian Device (Dystonia Therapy):** Authorized by Federal Law for the use as an aid in the management of chronic, intractable (drug refractory) primary dystonia, including generalized and segmental dystonia, hemidystonia, and cervical dystonia (torticollis), for individuals 7 years of age and older. The effectiveness of this device for this use has not been demonstrated.



#### **Audio-Visuals**

The Movement Disorder Society publishes several audio-visuals available for sale from the MDS International Secretariat. The titles that are currently available for purchase include:

#### Instructional Video for Motor Fluctuation Diaries in Parkinson's Disease

Authored by C.G. Goetz, M. Grobman, L. Blasucci, and G.T. Stebbins, this instructional video demonstrates the three states of Parkinson's disease, off, on, and on with dyskinesia, with the intent to assist patients in completion of their motor fluctuation diaries. This video is 15 minutes.

#### Toronto-Western Spasmodic Torticollis Rating Scale TWSTRS Training Video

Authored by C. Comella, S. Bressman, C.G. Goetz, and A. Lang, this instructional video demonstrates the ten categories in the TWSTRS scale, with verbal and visual examples of scoring in each category. This video is approximately 1 hour and 25 minutes.

Unified Dyskinesia Rating Scale Teaching Program (UDysRS) Authored by C.G. Goetz, John G. Nutt, and G.T. Stebbins. This teaching program provides guidelines and rating examples of the Unified Dyskinesia Rating Scale, a new scale used for evaluating Parkinson's disease. This video is approximately 52 minutes.

#### Utility of an Objective Dyskinesia Rating Scale for Parkinson's Disease: (Rush Dyskinesia Rating Scale)

Authored by Goetz, et al. *Movement* Disorders Volume 9, Video Supplement. 2. This video provides guidelines and rating examples of the Rush Dyskinesia Rating Scale, a scale widely used for evaluating dyskinesias in Parkinson's disease. This video is approximately 17 minutes.

#### Unified Huntington's Disease Rating Scale Video

Movement Disorders, Volume 11, Issues 1-3, Videotape Supplement, The Unified Huntington's Disease Rating Scale: Reliability and Consistency. Mov Disord 1996;11:136-142.

Unified Parkinson's Disease Rating Scale Training Video (1995) Authored by C. G. Goetz, G.T. Stebbins, T. Chmura, S. Fahn, H. Klawans, and C. D. Marsden, this video demonstrates the different categories of the motor section of

the UPDRS, with verbal and visual examples of scoring in each category. This video is approximately 1 hour.

#### Standardized Training Tools for the UPDRS Activities of Daily Living Scale (UPDRS Part II)

(2003) Authored by C.G. Goetz, P.A. Lewitt, and M. Weidenman. Movement Disorders Volume 18, Video Supplement 2. This video provides suggestions on the application and interview techniques for Part II of the UPDRS with patient examples and guidelines for raters. This video is approximately 1 hour and 15 minutes.

NEW - The Movement Disorder Society's Unified Parkinson's Disease Rating Scale (2010) (MDS-UPDRS)

Teaching Program Authored by C. G. Goetz, G. T. Stebbins, T.A. Chamura, S. Fahn, W. Poewe, and C. M. Tanner. The Movement Disorder Society (MDS)-sponsored new version of the UPDRS is founded on the critique that was formulated by the Task Force for Rating Scales in Parkinson's disease (Mov Disord 2003;18:738-750). The MDS-UPDRS has four parts: Part I (non-motor experiences of daily living), Part II (motor experiences of daily living), Part III (motor examination) and Part IV (motor complications). This video is approximately 2 hours and 5 minutes.

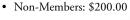
All materials are available in DVD or VHS format. Special reduced rates are available to MDS Members. For more information or to place an order, go to www.movementdisorders.org/publications/audiovisuals.php.

#### **Order Now!**

MDS is pleased to offer you the opportunity to order a DVD of all eight Teaching Courses of the 14th International Congress. Each DVD includes slides, audio and video and the accompanying syllabi. Teaching Course titles include:

- Neuroimaging techniques and applications
- Differential diagnosis of parkinsonism
- Genetics of movement disorders
- Music and movement disorders
- Pediatric movement disorders • Neuropharmacology of Parkinson's disease
- Update on tremor

• MDS Members: \$100.00



DVDs will be shipped to the address you provide on the International Congress registration form. Distribution of DVDs will begin in August, 2010.

To order log on to www.movementdisorders.org/education/ or on your online congress registration.



## **Membership Information**

#### **MEMBERSHIP BENEFITS**

- A subscription to the print, DVD and online journal, *Movement* Disorders, including supplemental publications, such as Levodopa Treatment and Motor Complications in Parkinson's Disease: Scientific Basis and Therapeutic Approaches;
- A unique selection of educational opportunities, including live and online CME/CPD activities and reference material on topics in Movement Disorders;
- Reduced fees for participation in the Society's educational programs. Educational Programs include the annual International Congress of Parkinson's Disease and Movement Disorders, and regional programs, courses and workshops held each year;
- A print and searchable online directory listing mailing addresses, telephone and fax numbers, and e-mail addresses for members;
- A Members Only Section of the MDS Web site including a searchable Video Library, Case of the Month, teaching slide sets, and one-time login access to full text articles in the Movement Disorders Journal;
- A quarterly newsletter entitled, *Moving Along*, highlighting current news and views in the field of Movement Disorders;
- Participation in the election of international and regional section leadership representatives.

#### **MEMBERSHIP CATEGORIES**

#### Regular Membership - \$300 (USD) Annually

Clinicians, other healthcare professionals, researchers and policy makers in Movement Disorders.

#### Junior Membership - \$100/\$175\* (USD) Annually

Residents, fellows and those training in healthcare or scientific research. Status must be certified in writing by employer and submitted with payment.

#### Health Professional - \$100/\$175\* (USD) Annually

Applies to nurses, nurse practitioners, clinical nurse specialists, occupational therapists, physical/physiotherapists, music therapists, speech therapists, clinical psychologists, dieticians, genetic counselors, social workers and lab technicians.

#### Student Membership - \$10 (USD) Annually

Medical students and undergraduate students in medicine and science. (*Residents and Fellows are not eligible*)

#### Waived Dues Membership - \$10 (USD)

Annually MDS provides a reduced dues program specifically designed to enable those on a lower income to join the Society.

\*Junior and Health Professional Members will receive online journal access, but may select to add the print subscription for an additional fee.

For more information on MDS membership or to apply online, please go to www.movementdisorders.org/membership/.

# NON-MEMBERS APPLYING FOR MEMBERSHIP

Non-Members will have the opportunity to apply for MDS membership at the International Congress for no additional fee with limited benefits through 2010 and full membership status, receiving the print journal, in January 2011. Membership applications will be provided to all Non-Member attendees onsite and must be returned to the MDS booth prior to the conclusion of the International Congress. Applications will not be accepted by the Secretariat after June 17, 2010. \*Only those paying the Non-Member registration fee will be eligible to apply for membership at no additional cost. This option is not available to those registering as a Junior or Health Professional participant or anyone who registered as part of a group.

2010-2011 will be another exciting year for MDS and we look forward to bringing you news of these and other new initiatives through the *Movement* Disorders journal, *Moving Along* newsletter and the MDS Web site.

For further information, please contact: The *Movement* Disorder Society International Secretariat 555 East Wells Street, Suite 1100 Milwaukee, WI 53202 USA

Tel: + 1 414-276-2145 Fax: + 1 414-276-3349

E-mail: info@movementdisorders.org Web site: www.movementdisorders.org

#### MDS AFFILIATE MEMBER SOCIETIES

The *Movement* Disorder Society invites other neurological organizations and groups specializing in Movement Disorders to become Affiliate Members of MDS to encourage research and enhance the education of physicians and the public about Movement Disorders.

As an Affiliate Member of MDS, your organization is entitled to:

- Announce MDS Affiliate Member status on your organization's letterhead and Web site;
- Receive "fast track" consideration of applications for sponsorship, support or endorsement of your organization's scientific meetings; as well as the ability to apply for a portion of \$30,000 set aside annually to support scientific meetings of Affiliate Member Societies;
- Receive MDS mailings on future International Congresses and educational programs, as well as the official newsletter of the MDS, *Moving Along*;
- Request complimentary meeting space for your organization during the International Congress.



## **Membership Information**

#### MDS AFFILIATE MEMBER SOCIETIES CONT.

No application fee is required to apply for Affiliate Membership status. To become an MDS Affiliate Member, please submit a formal letter of application and provide the following:

- A recent annual report of the activities of your organization;
- An organizational mailing list including e-mail addresses (please note that 15% of your practicing clinical scientist members and all members of your executive committee must be members of MDS);
- A copy of your organization's Constitution and Bylaws.

All of the above are required for the application to be considered complete; the letter of application and supporting documentation should be sent to:

**MDS International Secretariat** 555 East Wells Street, Suite 1100 Milwaukee, WI 53202-3823 USA Fax: +1 414-276-3349 E-mail: pfierst@movementdisorders.org

#### **CURRENT AFFILIATE MEMBERS**

#### All-Russian Society of Neurologists

Prof. Alla B. Guekht, Vice President

Movement Disorders Division of the All-Russian Society of

Neurologists

Russian State Medical Center Prospect Mira 118A, Apt. 46

Moscow, 129164

Russia

Tel: 7095-2874966 Fax: 7902-1888427 a.shpak@g23.relcom.ru

#### **Argentine Neurological Society Movement Disorders** Group

Dr. Tomoko Arakaki, Secretary

Urquiza 609

Buenos Aires, 1221

Argentina

Tel: +5411 4931 5355

tomokookinawa@hotmail.com

Web site: www.sna.org.ar

#### Austrian Parkinson's Disease Society

Werner Poewe, MD

President, Austrian Parkinson's Disease Society

University Hospital Innsbruck

Dept. of Neurology

Anichstrasse 35

Innsbruck 6020

Austria

werner.poewe@i-med.ac.at

#### Brazilian Movement Disorders Group **Brazilian Academy of Neurology**

Academia Brasileira de Neurologia

DC Transtornos do Movimento

Rua Claudio Rossi, 394

Iardim da Gloria

São Paulo, SP, CEP 01547-000

Web site: www.abneuro.org

Tel: +55 11 5084-9463

Carlos RM Rieder, MD PhD: carlosrieder@terra.com.br Banderci Borges, MD PhD: vanderci@provida.org.br Ylmar Correa Neto, MD PhD: dantascorrea@terra.com.br

#### British & Irish Neurologists' Movement Disorders **Group (BRING MD)**

Prof. Carl E Clarke - c.e.clarke@bham.ac.uk

Chair, British and Irish Neurologists' Movement Disorders Group

Dr. Graeme JA MacPhee - graeme.macphee@sgh.scot.nhs.uk Chair, British Geriatrics Society Movement Disorders

Linda Caie, MSc - linda.caie@nhs.net

Chair, Parkinson's disease Nurse Specialists Association

#### **Dutch Movement Disorders Study Group**

Marina DeKoning-Tijssen, MD PhD

University of Amsterdam

Department of Neurology H2-222

P.O. Box 22660

Amsterdam 1100DD

The Netherlands

m.a.tijssen@amc.uva.nl

#### **Ecuador Movement Disorders Group**

Fernando Alarcon, MD

Chief of Neurology Department, Professor of Neurology

Hospital Eugenio Espejo

Department of Neurology

P.O. Box 17-07-9515

Quito, Ecuador

falarcon@ramt.com

#### Flemish Movement Disorder Society

Wim Vandenberghe, President

Department of Neurology

University Hospitals Leuven

Herestraat 49

3000 Leuven

Belgium

Wim.vandenberghe@uz.kuleuven.ac.be



## **Membership Information**

#### Hong Kong Movement Disorder Society

Cheung Yuk Fai

Department of Medicine Queen Elizabeth Hospital

Hong Kong Special Administrative Region

Hong Kong

cyfzoz@ha.org.hk

Web site: www.hkmds.org.hk

# Italian Association for the Study of Movement Disorders (DISMOV-SIN)

Mario Zappia, MD

President, DISMOV-SIN

Azienda Ospedaliera Universitaria

Policlinico G. Rodolico

Via Santa Sofia, 78- ed 20

Catania, 95123

Italy

dismov@aristea.com

#### Moroccan Neurological Society Movement Disorders Group

Chafiq Hicham, MD

AMA President

Aswak Essalam, Apt. 23

2e Etage

Marrakesh 40 000

Morocco

chafiqhicham@hotmail.com

#### Movement Disorder Society of Australia

Rick Stell, MD

President, Movement Disorder Society of Australia

Princess Alexandria Hospital

Ipswich Road, Burunda

Brisbane, QLD 4068

Australia

Web site: www.mdsa.org.au

#### Movement Disorder Society of Japan

The Association for Supporting Academic Societies

5-3-13-4F Otsuka, Bunkyo-ku

Tokyo 112-0012

Japan

Mr. Nobuhiko Takeda, Executive Assistant

mdsj@asas.or.jp

Web site: http://mdsj.umin.jp

#### Movement Disorder Society of the Philippines (MDSP)

Dr. Raymond L. Rosales, President

University of Santo Tomas Hospital

Manila

Philippines

rrosales@info.com.ph

#### **Parkinson Study Group**

Dr. Karl Kieburtz, Chair

University of Rochester

1351 Mt. Hope Ave, Suite 223

Rochester, NY 14620 USA

Web site: www.parkinson-study-group.org

# Sociedad Latinoamericana de Movimientos Anormales (SOLAMA)

Elena Mary Dieguez, MD

President, SOLAMA

Instituto De Neurologia

Joanico 3311

Montevideo, 11600

Uruguay

elenadieguez2001@yahoo.com

#### **Swedish Movement Disorder Society (SWEMODIS)**

Per Odin, MD, PhD, Chairman, SWEMODIS

c/o Anki Nyberg

Department of Clinical Neuroscience

University of Gothenburg

Sahlgren University Hospital

SE-41345 Göteborg

Sweden

Web site: www.swemodis.se/english/

Tel: 46-31-3422439

anki.nyberg@neuro.gu.se

#### The Danish Movement Disorder Society (DANMODIS)

Lene Werdelin, MD, PhD

Chairman, DANMODIS

Department of Neurology

Bispebjerg Hospital

Bispebjerg Bakke 23

DK-2400 Københaven NV

Denmark

LW01@bbh.hosp.dk

dsimonetti@fibertel.com.ar

Web site: www.danmodis.dk



#### **DATES**

Sunday, June 13 through Thursday, June 17, 2010

#### **OFFICIAL LANGUAGE**

The official language of the International Congress is English.

#### **VENUE**

Sheraton Buenos Aires Hotel and Convention Center San Martin 1225/1275 Buenos Aires 1104 Argentina

#### **Badges**

All International Congress attendees will receive a name badge with their registration materials. Badges should be worn at all times as they will be used to control access into all International Congress sessions and activities. Individuals will be identified as follows:

Blue = Delegate Yellow = Exhibitor Purple = Press Black = Staff

#### SPEAKER READY ROOM

Location: Poncho Room, 2nd Floor

All speakers must check in at the Speaker Ready Room with presentation materials on the day prior to their scheduled presentation. Equipment is available to allow faculty to review their presentations. Audio/Visual personnel will be available for assistance.

#### Speaker Ready Room hours are as follows:

Saturday, June 12:		16:00 - 20:00
Sunday, June 13:		7:00 - 18:00
Monday, June 14:		7:00 - 18:00
Tuesday, June 15:		7:00 - 18:00
Wednesday, June 10	6:	7:00 - 18:00
Thursday, June 17:		7:00 – 16:00

#### **INTERNET CAFÉ**

Location: San Isidro Room, Lower Level

Internet access is available to meeting attendees in the Exhibit Hall. Please limit your Internet use to 15 minutes to allow other attendees use of this service.

#### Internet café hours are as follows:

Monday, June 14:	9:30 - 17:30
Tuesday, June 15:	9:30 - 17:30
Wednesday, June 16:	9:30 - 17:30
Thursday, June 17:	9:30 - 15:00

#### MDS EXHIBIT AND INFORMATION BOOTH

Location: Libertador Foyer, 1st Floor

The *Movement* Disorder Society (MDS) is an international society of healthcare professionals committed to research and patient care in the fields of Parkinson's disease and other disorders of movement and motor control.

Created not only to further the goals and objectives of MDS International, The *Movement* Disorder Society's regional sections, the Asian and Oceania Section and European Section strive to increase the interest, education and participation of neurologists, Movement Disorder specialists, non-Movement Disorder specialists, trainees, allied health professionals and scientists in the Asian, Oceanian and European regions.

MDS supports and promotes a wide range of educational programming and other initiatives to advance scientific understanding and standards of care as they pertain to Movement Disorders. For this, MDS provides forums such as a high-ranking journal, scientific symposia and International Congresses.

Attendees are invited to take advantage of MDS Member benefits by applying to the Society. Learn more about MDS initiatives and speak with a representative at the MDS Exhibit and Information Booth:

#### MDS Booth hours are as follows:

Monday, June 14:	. 8:00	- 19:00
Tuesday, June 15:	. 8:00	- 19:00
Wednesday, June 16:	. 8:00	- 19:00
Thursday, June 17:	. 8:00	-16:00

#### **REGISTRATION DESK**

Location: Libertador Foyer, 1st Floor

Name badges, scientific session tickets, purchased Welcome Reception Passes, purchased Gala Event tickets and International Congress bags can be collected at the International Congress registration desk.

#### Registration desk hours are as follows:

Saturday, June 12	
Sunday, June 13	7:00 – 19:0 <b>0</b>
Monday, June 14	7:00 – 19:00
Tuesday, June 15	7:00 – 19:00
Wednesday, June 16	7:00 – 19:00
•	7:00 – 16:00

<sup>\*\*</sup>Please note that these hours are subject to change.



#### **PRESS ROOM**

Location: Rio de la Plata Room, 2nd Floor

Members of the working media receive waived registration fees for the 14th International Congress. Journalists and writers should report to the Press Room with their credentials to register for the International Congress and wear their name badge for admittance into MDS sessions.

#### Press Room will be open during the following hours:

Sunday, June 13:	9:00 - 17:00
Monday, June 14:	9:00 - 17:00
Tuesday, June 15:	9:00 - 17:00
Wednesday, June 16:	9:00 - 17:00
Thursday, June 17:	9:00 - 16:00

#### **NO CAMERAS**

Cameras are not permitted in any 14th International Congress educational sessions or in the poster areas.

#### **ABSTRACT VOLUME**

All abstracts accepted for poster presentation have been published in an abstract supplement to the MDS Journal, *Movement* Disorders.

#### **ABSTRACTS-ON-CD-ROM**

All abstracts published in the supplement to the MDS Journal are available by Abstracts-On-CD-ROM sponsored by MDS and supported by an unrestricted educational grant from Medtronic. To obtain a copy, please visit the Medtronic Booth 15.

#### **CONTINUING MEDICAL EDUCATION**

Please refer to page 30 for Continuing Medical Education information.

#### **EVALUATIONS**

Please take time to complete the evaluation forms provided for each session you attend. Your input and comments are essential in planning future educational programs for MDS.

When completed, evaluations may be returned to your meeting room attendants, the Speaker Ready Room (Poncho Room, 2nd Floor) or to the MDS registration desk, Libertador Foyer, 1st Floor.

#### **SCIENTIFIC SESSIONS**

The 2010 Scientific Program will incorporate Therapeutic Plenary Sessions, Plenary and Parallel Sessions, Teaching Courses, Video Sessions, Skills Workshops, Guided Poster Tours and Blue Ribbon Highlights.

Sessions will focus on the latest developments in:

- Neuroimaging in Movement Disorders;
- Movement Disorder topics, including, but not limited to, ataxia, chorea, dystonia, myoclonus, Parkinson's disease, restless legs syndrome, spasticity, stereotypies, tics and tremors;
- Basic Science issues, including, but not limited to, genetics, neuroimaging, neuropharmacology, surgical therapy and transplantation;
- Other less common clinical conditions.

Tickets are required for admission into all Parallel Sessions, Teaching Courses, Video Sessions and Skills Workshops. There is no additional fee for tickets to these sessions. Please check the Registration Desk for availability of these tickets.

#### SPANISH TRANSLATION

New this year to the 14th International Congress Scientific Program: All Plenary Sessions and Teaching Courses will be translated in Spanish.

Traducción al español: Todos los Cursos y Sesiones Plenarias serán traducidas al español.

Si desea utilizar este sistema, por favor diríjase a la mesa de receptores ubicada próxima a la puerta de entrada de cada una de las salas de sesiones donde haya interpretación simultánea al español. Le será solicitado dejar un documento con fotografía al momento de retirar el receptor. Este documento le será devuelto una vez que el receptor sea entregado.



#### ABSTRACT POSTER SESSIONS

Delegate feedback from past International Congresses has indicated great interest in Poster Sessions. Poster Sessions are featured each day based upon the following schedule:

#### Poster Session 1

Abstracts: 1-278 Monday, June 14

Poster Viewing: 9:00 - 18:00 Authors Present: 14:00 - 15:30

Location: San Telmo Room, Lobby Level

#### Poster Session 2

Abstracts: 279-565 Tuesday, June 15

Poster Viewing: 9:00 - 18:00 Authors Present: 13:30 - 15:00

Location: San Telmo Room, Lobby Level

#### Poster Session 3

Abstracts: 566-849 Wednesday, June 16

Poster Viewing: 9:00 - 18:00 Authors Present: 13:30 - 15:00

Location: San Telmo Room, Lobby Level

#### Poster Session 4

Abstracts: 850-1067 Thursday, June 17

Poster Viewing: 9:00 - 16:00 Authors Present: 13:30 - 15:00

Location: San Telmo Room, Lobby Level

#### **GUIDED POSTER TOURS**

Attendees may sign up for the Guided Poster Tours beginning on Monday, June 14 from 8:00 to 19:00 at the MDS Booth located in the Libertador Foyer, 1st Floor.

The Guided Poster Tours will be led by members of the MDS faculty and the authors will be present to discuss the abstracts. There will be 16 Guided Poster Tours and each tour will feature abstracts on a specific topic.

There will be four tours per day from Monday, June 14 through Thursday, June 17 which will run simultaneously. Tours will meet each day in their assigned room on the 24th Floor.

#### Monday, June 14

14:00 – 15:30 Atalaya Room, 24th Floor Guided Poster Tour 1 – Neuroimaging Guided Poster Tour 2 – Parkinson's disease: Neuropharmacology

14:00 –15:30 Aguila Room, 24th Floor Guided Poster Tour 3 – Parkinson's disease: Behavioral disorders Guided Poster Tour 4 – Tics/Stereotypies

For a complete listing of abstracts in each tour, please see pages 71-72.

#### Tuesday, June 15

13:30 -15:00 Atalaya Room, 24th Floor Guided Poster Tour 5 – Basic Science Guided Poster Tour 6 – Huntington's disease

13:30 -15:00 Aguila Room, 24th Floor Guided Poster Tour 7 - Restless Legs Syndrome Guided Poster Tour 8 - Neuropharmacology

For a complete listing of abstracts in each tour, please see pages 73-74.



#### Wednesday, June 16

13:30 -15:00 Atalaya Room, 24th Floor Guided Poster Tour 9 – Dystonia Guided Poster Tour 10 – Genetics

13:30 -15:00 Aguila Room, 24th Floor Guided Poster Tour 11 - Gene Therapies and Cell-based Therapies

Guided Poster Tour 12 - Lewy Body Dementia and other dementias in movement disorders

For a complete listing of abstracts in each tour, please see pages 75-76.

#### Thursday, June 17

13:30 -15:00 Atalaya Room, 24th Floor Guided Poster Tour 13 – Parkinson's disease: Clinical trials Guided Poster Tour 14 – Parkinson's disease: Sleep Disorders

13:30 -15:00 Aguila Room, 24th Floor Guided Poster Tour 15 - Surgical Therapy: Parkinson's disease Guided Poster Tour 16 - Surgical Therapy: Other Movement Disorders

For a complete listing of abstracts in each tour, please see pages 77-79

#### SATELLITE SYMPOSIA

#### Argentine Neurological Society Monday, June 14

Catalinas Room 12:30 – 13:30

#### Latin American Huntington's Disease Network

Tuesday, June 15

Catalinas Room 12:30 - 14:30

## Movement Disorder Nurses Networking Reception

Wednesday, June 16 Golden Horn Room 19:00 – 20:30



## The *Movement* Disorder Society

## www.movementdisorders.org

#### **Special Features**

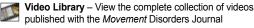
Membership – Manage your account easily and quickly



Editor's Choice – Read and listen to a podcast review of a featured Journal article

Rating Scales – Browse MDS-owned rating scales & MDS Task Force Recommended Scales

Connecting members with the latest research, education and developments in Movement Disorders globally



Quick Opinion Please – Join the discussion about unique cases in our forum

**Education Portal** – Learn about CME and professional development opportunities in Movement Disorders

Health Professionals – Find valuable information and resources related to counseling, nursing, rehabilitation and genetics

#### **More Highlights**

- Movement Disorders Journal
- · Moving Along newsletter
- EBM reviews and position papers
- · Links to resources and organizations
- · Online and Mobile Membership Directories
- Annual Congress information
- · Movement Disorders Books For Sale
- Facebook<sup>®</sup>





#### **SOCIAL EVENTS**

#### SUNDAY, JUNE 13, 2010

#### **Opening Ceremony and Welcome Reception**

Opening Ceremony: 19:00 – 19:30 Libertador Room, 1st Floor

Welcome Reception: 19:30 – 21:00 1st Floor Foyer

All International Congress attendees are warmly invited to meet friends and colleagues during the traditional International Congress Opening Ceremony at The Sheraton Buenos Aires Hotel and Convention Center. A Welcome Reception will directly follow the Opening Ceremony. These events are open to all registered delegates. Guests are able to purchase a Welcome Reception Pass that will allow them admission to the Opening Ceremony and Welcome Reception. Please check at the registration desk for availability.

#### TUESDAY, JUNE 15, 2010

#### Gala Event

19:30 – 23:30 Opera Pampa

All participants of the 14th International Congress are invited to attend the Gala Event at the Opera Pampa. The show, which takes place in an outdoor heated amphitheatre, is a masterpiece about Argentina, its traditions, songs, dance and gaucho culture. Afterwards, guests will feast on the world-famous Argentine beef grilled in a typical gaucho barbecue pit. Transportation will be provided and suggested attire is smart casual. The cost for one Gala Event ticket is \$125 USD and can be purchased along with the International Congress registration. Please check at the registration desk for availability.

#### WEDNESDAY, JUNE 16, 2010

#### Video Olympics

Reception with hors d'oeuvers and drinks: 19:00 – 20:00 Libertador Foyer, 1st Floor

Video Olympics: 20:00 – 23:00 Libertador Room, 1st Floor

Please join Masters of Ceremony Anthony Lang and Kapil Sethi as they host a world-renowned panel of Movement Disorders experts in guiding participants through unique Movement Disorder cases. The cases will be presented by representatives from Movement Disorder Centers around the world and discussed by the two teams of Experts. Awards will be given for the most interesting and challenging cases and the teams of Experts will compete for the highest number of correct diagnoses that they make. Country pride will add an enjoyable spirit of competition to this event. The goal of this session is for attendees to learn from a series of unusual, very interesting patients and see how senior experts approach these types of challenging cases.

This social event is open to all registered delegates.

## The two teams of Experts are:

#### Team 1:

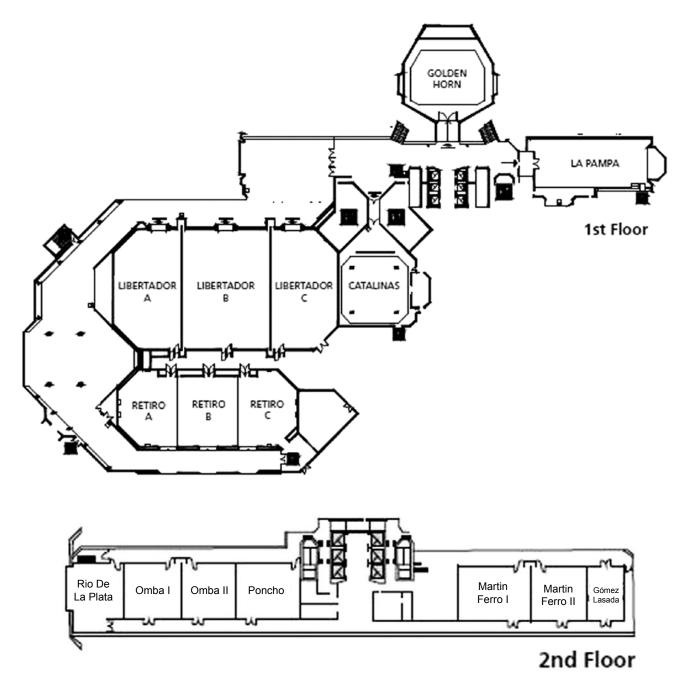
Victor Fung, Sydney, Australia
Federico Micheli, Buenos Aires, Argentina
Wolfgang Oertel, Marburg, Germany
C. Warren Olanow, New York, NY, USA

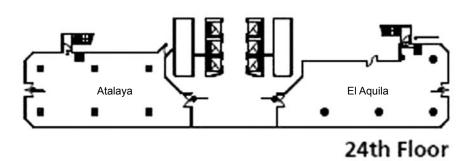
#### Team 2:

David John Burn, Newcastle upon Tyne, United Kingdom Francisco Cardoso, Belo Horizonte, Brazil Boem Jeon, Seoul, Korea Stephen Reich, Baltimore, MD, USA

Following the International Congress, the cases presented could be developed further for publication in the Journal or presentation on the Society's Web site.









The following awards will be presented during the Opening Ceremony on Sunday, June 13 at 19:00 in the Libertador Room, 1st Floor.

#### **HONORARY MEMBERSHIP AWARDS**

The Honorary Membership Awards recognize individuals who have made extraordinary contributions to the field of Movement Disorders or otherwise to The *Movement* Disorder Society.

#### Recipients:



**Ann Graybiel, PhD** *Cambridge, MA, USA* 



Andrew Lees, MD, FRCP London, United Kingdom

# PRESIDENT'S DISTINGUISHED SERVICE AWARD

The President's Distinguished Service Award is given in recognition of long and distinguished service to The *Movement* Disorder Society. The recipient may only receive this award once in their lifetime.

#### STANLEY FAHN AWARD LECTURE

This award will be presented on Wednesday, June 16 as part of 4103: Plenary Session IX: Presidential Lectureships 8:00-8:30

The **Stanley Fahn Award Lecture** was created to recognize an outstanding scholar and role-model clinician in the field of Movement Disorders. The selected lecturer must show evidence of exceptional contributions which have resulted in better understanding of the cause, diagnosis, or treatment of Movement Disorders and have translated into meaningful improvements in the standard of clinical practice. The selected lecturer must demonstrate evidence of consistent dedication to Movement Disorders education and research.

# 2010 Stanley Fahn Lecturer: Gerald Stern, MD

The fox, the hedgehog, the MDS and the world's best known neurologist?

Gerald Stern, MD is emeritus consultant neurologist, University College Hospitals London, United Kingdom. He trained in London, Columbia University, USA, University of Durham, United Kingdom and La Salpētrière, University of Paris, France as recipient of CIBA Anglo-French Bursary. He is an Honorary



Gerald Stern, MD

Member of The Movement Disorder Society, Past President of the Association of British Neurologists, Past Senior Vice President and Honorary Librarian of the Royal Society of Medicine, Corresponding Member of the American Neurological Association, Ehrenmitglied Österreichische Parkinson Gesellschaft, recipient of the Franz Burda Prize for research into Parkinson's disease, Royal Society of Medicine Foundation Inc. Visiting Professor to the United States of America and American College of Neuropsycho pharmacology, Thomas Greenaway Lecturer and Visiting Professor, Royal Australian College of Physicians, Alice Wilson Visiting Professor University of Kansas and visiting professor at other universities in the USA, Europe and South East Asia. Surgeon Lieutenant Royal Naval Volunteer Reserve, Past President Extrapyramidal Research Committee of the WFN, Past President Parkinson's Disease Society of the United Kingdom. His clinical and research interests have been mainly in the field of Movement Disorders, the neurodegenerations and general neurology. He has published over 350 peerreviewed articles and several books. He has a longstanding interest in James Parkinson - both were born, brought up and educated in the same part of London and both studied at the London Hospital – but not at the same time.



#### C. DAVID MARSDEN AWARD LECTURE

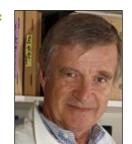
This award will be presented on Wednesday, June 16 as part of 4103: Plenary Session IX: Presidential Lectureships 9:30-10:00

The **C. David Marsden Lecture** was created to recognize an outstanding scholar and inspiring neuroscientist in the field of Movement Disorders. The selected lecturer must show evidence of exceptional contributions which have resulted in better understanding of the neurobiology of Movement Disorders, and have translated into tangible improvements in clinical therapy and/or providing insight into normal brain function in the control of movement. The selected lecturer must demonstrate evidence of consistent dedication to Movement Disorder education and research.

## 2010 C. David Marsden Lecturer: Yves Agid, MD, PhD

## The role of basal ganglia and subconsciousness

Yves Agid spent most of his medical career at the Pitié-Salpêtrière University Hospital in Paris, France where he specialized in Neurology and Psychiatry. He then became Professor of Experimental Medicine



Yves Agid, MD, PhD

and Cell Biology (1979) and Chairman of the Federation of Neurology (1993). He obtained his PhD at College de France (1976), and became the director of a laboratory of Inserm ("Mechanisms and Consequences of Neuronal Death") in 1986.

Chairman of the Institute of Neurosciences from 1998 until 2005, he is a founding member of a new Institute of Neurosciences (Institut du Cerveau et de la Moelle épinière, 600 researchers, 22.000 sqm) which will open in Autumn 2010 in the heart of the Pitié-Salpêtrière University Hospital (2005).

Member of several international societies, he was the Counsellor for Neurosciences at Inserm (1996-1998), Chairman of the Institute of Neurology at Salpêtrière (2000-2002), President of the French Society of Neurology (2002-2003). He is the most cited French neuroscientist in the last 20 years, the second most cited author among all French scientists, the first in the world in the field of Parkinson's disease. He is a member of the French Academy of Sciences.

Among Yves Agid's awards: Académie des Sciences (1984), Alice Wilson Award (1993), Academy of Medicine (1994), Académie des Sciences (1995), Grand Prix Inserm de la Recherche Médicale (2001), American Academy of Neurology (Movement Disorders, 2003), Career Award of The *Movement* Disorder Society (2004), Award of the City of Paris (2009).

#### **JUNIOR AWARDS**

Two Junior Awards recipients have been selected based on their significant contribution to clinical and basic science research in the field of Movement Disorders. One award will be presented for excellence in clinical research and another for excellence in basic research.

This award will be presented on Wednesday, June 16 as part of 4103: Plenary Session IX: Presidential Lectureships 8:30-9:00

**Chairs:** Anthony Lang, Philip D. Thompson, Günther Deuschl

#### Clinical Research Roberto Cilia, MD

Toronto, ON, Canada Milan, Italy

# Imaging gambling severity in patients with Parkinson's disease: evidence of fronto-striatal disconnection

Roberto Cilia, MD, Sang Soo Cho, PhD, Thilo van Eimeren, MD PhD, Giorgio Marotta, MD, Chiara Siri, PsyD, Ji Hyun Ko, PhD, Giovanna Pellecchia, PhD, Gianni Pezzoli, MD, Angelo Antonini, MD and Antonio P. Strafella, MD, PhD, FRCPC (Toronto, ON, Canada)

**Objective:** The aim of the present study was to identify the brain regions associated with the severity of pathological gambling in medicated PD patients. In addition, we used two different connectivity techniques to identify critical neural interactions that differentiated PD gamblers from matched controls.

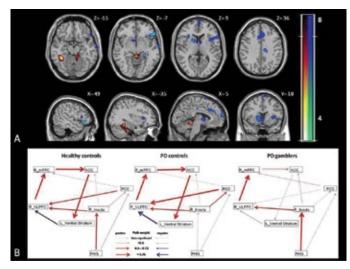
**Background:** Pathological gambling may occur in PD patients as a complication of dopaminergic therapy. Previous imaging studies suggested abnormal dopamine transmission within the mesolimbic reward system.

**Methods:** 30 PD patients (15 with active PG and 15 matched controls, on medication) and 15 healthy subjects underwent brain perfusion SPECT at rest. The severity of gambling was assessed using the South Oaks Gambling Scale. In PD gamblers, we used covariance analysis in SPM5 to identify the brain regions whose perfusion correlated with gambling



severity. These regions were then used as seed-volumes-of-interest to identify interconnected regions using voxel-wise covariate analysis in SPM5 (functional connectivity). Finally, we created a path model by means of effective connectivity analysis within the Structural Equation Modeling framework using AMOS 7.0 (effective connectivity).

**Results:** Increasing gambling severity in PD gamblers negatively correlated with the right ventrolateral prefrontal cortex, anterior and posterior cingulate cortices, medial prefrontal cortex, insula, parahippocampal gyrus, and left striatum; positive correlations were found in the fusiform gyrus and cerebellum (figure A). The main finding of connectivity analyses was the disconnection between striatum and ACC in PD gamblers, an interaction that was very robust in both control groups (figure B).



**Conclusions:** Increasing gambling severity was associated with progressive dysfunction in brain areas involved in risk estimation and the inhibition of inappropriate behaviors. Connectivity analyses identified a disconnection between ACC and striatum: this may underlie the progressive inability of PD gamblers to process negative outcomes and disengage from risk-taking and reward-seeking behaviors.

# Basic Science Raphael Hourez, MD, PhD

Brussels, Belgium Boston, MA, USA

Aminopyridines correct presymptomatic neuronal dysfunction and improve late behavioral and cellular phenotype in a mouse model of spinocerebellar ataxia type 1 (SCA1)

Raphael Hourez, MD, PhD, Laurent Servais, MD, PhD, David Gall, PhD, Massimo Pandolfo, MD, PhD and Serge N Schiffmann, MD, PhD (Brussels, Belgium)

**Objective:** After characterizing an early dysfunction of Purkinje cells in a mouse model of SCA1, we tested whether potassium channels blockers of the aminopyridines family could improve neuronal dysfunction, motor behaviour and neurodegeneration in SCA1.

**Background:** SCA1 is a fatal incurable progressive cerebellar ataxia accompanied with loss of Purkinje cells and caused by an expanded polyglutamine tract in the protein ataxin-1. Mouse models of SCA1 display impaired motor performance ahead of loss or atrophy of Purkinje cells, suggesting that neuronal dysfunction may be important in the phenotype of SCA1.

Methods: Neuronal dysfunction was studied by electrophysiology combined with gene and protein expression studies. Aminopyridines (4-aminopyridine and 3.4diaminopyridine) were administered by subcutaneous injection, either acutely (single injection) or chronically (implantation of osmotic Alzet pumps). Motor behaviour was assessed by accelerated rotarod, thin rod and grip strength tests. Cell atrophy was assessed by classical immunostainings or 3D reconstruction after intracellular dialysis with biocytin.

Results: We observed an early dysfunction of Purkinje cells characterized by a reduction in Purkinje cell firing rate (both in vivo and in slices) associated with a reduction in the efficiency of the main glutamatergic synapse onto Purkinje cells and with increased A-type potassium current. In acutely treated young SCA1 mice, aminopyridines normalize the firing rate of Purkinje cells and the motor behaviour of the animals. In chronically treated old SCA1 mice, 3.4-diaminopyridine improves the firing rate of Purkinje cells, the motor behaviour of the animals and partially protected against cell atrophy (as shown by measurement of molecular layer thickness, Purkinje cell volume and dendritic spines density) while no effect was observed on cell death. Chronic treatment with 3.4-diaminipyridine was associated with increased cerebellar levels of BDNF, the protection against atrophy of Purkinje cells could thus be provided by an increase in the production of growth factors secondary to the reincrease in electrical activity.

**Conclusions:** Our data suggest that aminopyridines might be proposed as a symptomatic and/or neuroprotective treatment in SCA1.



#### **2010 TRAVEL GRANTS**

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Lund, Sweden

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Tehran, Iran	London, United Kingdom		Holguin, Cuba
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Riga, Latvia	Tübingen, Germany	Sofia, Bulgaria	Ankara, Turkey
Mayela Rodriguez	<b>Inder Singh Mudila</b>	<b>Aleksandra Tomic</b>	<b>Worbe Yulia</b> Paris, France
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	Colombo, Sri Lanka	Groningen, Netherlands	Jerusalem, Israel
Joseph, Rudolph	<b>Vladana Spica</b>	Yevgen, Trufanov	<b>Yuhu Zhang</b>
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Diane Ruge	<b>Achal Srivastava</b>	Sandra van der Salm	
London, United Kingdom	New Delhi, India	Amsterdam, Netherlands	

The 2010 Travel Grants Award Program was partially supported by an unrestricted educational grant from Merz Pharmaceuticals, LLC.

E. Camille Vaughan

Atlanta, GA, USA

Tanja Stojkovic

Belgrade, Serbia



#### **CME 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.

#### **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.

#### **CONTINUING MEDICAL EDUCATION**

The *Movement* Disorder Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

#### **ACCREDITATION STATEMENT:**

The *Movement* Disorder Society designates this educational activity for a maximum of 35.0 *AMA PRA Category 1 Credits*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### **TARGET AUDIENCE**

The target audience of the 14th International Congress of Parkinson's Disease and Movement Disorders 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.

# FACULTY FINANCIAL DISCLOSURE INFORMATION

It is the policy of The Movement Disorder Society (MDS) to ensure balance, independence, objectivity and scientific rigor in all sponsored educational activities. All faculty participating in any MDS sponsored activities are required to disclose to the activity audience any real or apparent conflict(s) of interest that may have a direct bearing on the subject matter of the Continuing Medical Education (CME) activity. This pertains to relationships with pharmaceutical companies, biomedical device manufacturers, or other corporations whose products or services are related to the subject matter of the presentation topic. The intent of this policy is not to prevent a speaker with a potential conflict of interest from making a presentation. It is merely intended that any potential conflict should be identified openly so that the listeners may form their own judgments about the presentation with the full disclosure of the facts. It remains for the audience to determine whether the speaker's outside interest may reflect a possible bias in either the exposition or the conclusions presented.

Faculty financial disclosure information will be provided to participants onsite in Buenos Aires.

#### **CME INFORMATION**

#### **Claiming CME Credit**

Physicians may claim their CME Certificates from their home or office upon the completion of the MDS 14th International Congress. Visit the MDS Web site after June 15th and use your file number located on your name badge to log in and claim your credits. You will be able to print or save a PDF of your credit award from your own computer.



## **Program-at-a-Glance**

Time	Sunday, June 13	Monday, June 14 Theme Day			June 15	Wednesday, June 16	Thursday, June 17	
7:00	Committee Meetings 7:00 - 8:00		Committee Meetings 7:00 - 8:00		e Meetings - 8:00	Committee Meetings 7:00 - 8:00	Committee Meetings 7:00 - 8:00	
7:30				,,,,,,				
8:00	Therapeutic Plenary Session I	Plenary Session V 8:00 - 10:00					Plenary Session IX (Presidential Lectures)	Plenary Session XI 8:00 - 9:30
8:30	8:00 - 10:00					8:00 - 10:00		
9:00								
9:30							Break 9:30 - 10:00	
10:00	Break 10:00 - 10:30	Bre 10:00 -			eak - 10:30	Break 10:00 - 10:30	Plenary Session XII (Controversies)	
10:30	Therapeutic Plenary Session II	Plenary S 10:30 -		Plenary Se	ession VIII - 12:00	Plenary Session X 10:30 - 12:00	10:00 - 11:00	
11:00	10:30 - 12:30						Plenary Session XIII (Blue Ribbon Highlights) 11:00 - 12:00	
11:30				Bro	eak	Break	Break	
12:00	Break	Bre	en le	12:00 - Corporate	- 12:30 AOS General	12:00 - 12:30 Corporate Therapeutic	12:00 - 12:30 Corporate Therapeutic	
12:30	12:30 - 14:00	12:30 -		Therapeutic Symposia	Assembly 12:30 - 13:30	Symposia 12:30 - 13:30	Symposia 12:30 - 13:30	
13:00		Corporate Therapeutic	D10.0	12:30 - 13:30				
13:30		Symposia 13:00 - 14:00	PAS General Assembly	Break Guided Poster	MDS Business Meeting	Break Guided Poster Tours/	Break Guided Poster Tours/	
14:00	Therapeutic Plenary Session III	Break Guided Poster	13:30 - 14:30	Tours/ Posters	13:30 - 14:30	Posters 13:30 - 15:00	Posters 13:30 - 15:00	
14:30	14:00 - 16:00	Tours/ Posters		13:30 - 15:00				
15:00		14:00 - 15:30			Sessions - 17:00	Parallel Sessions 15:00 - 17:00	Parallel Sessions 15:00 - 17:00	
15:30		Parallel ( 15:30 -						
16:00	Break 16:00 - 16:30							
16:30	Therapeutic Plenary Session IV							
17:00	16:30 - 18:30				eak - 17:30	Break 17:00 - 17:30	END	
17:30		Bre 17:30 -		Skills Wo		Skills Workshops/ Video Sessions		
18:00		Skills Wo	orkshops/		- 19:00	17:30 - 19:00		
18:30	Break 18:30 - 19:00	18:00 -	Sessions - 19:30					
19:00	Opening Ceremony and Welcome Reception				eak - 19:30	Video Olympics Reception 19:00 - 20:00		
19:30	19:00 - 21:00			Gala	Event - 23:30	17.00 - 20.00		
20:00				19:50	- 25.50			
20:30						Video Olympics 20:00 - 23:00		
21:00						20.00 - 25:00		
21:30								
22:00								
22:30								
23:00								
23:30								



## **MDS 14th International Congress Session Definitions**

#### Blue Ribbon Session:

This session will provide a critical review of the best poster presentations by a panel of experts, highlighting the relevance, novelty and quality of both clinical and basic research presented by the delegates.

#### Controversies:

This Plenary Session is designed to involve all International Congress attendees. Content is prepared to stimulate interest and debate among a panel of experts. Views from several angles will be addressed as discussion of pre-selected "hot" topics will be open for debate among the panelists.

#### Corporate Therapeutic Sessions:

These company-based informational sessions will provide attendees with non-CME educational opportunities to learn the latest in therapeutics.

#### **Guided Poster Tours:**

Guided Poster Tours will give small groups of delegates an opportunity to hear discussion on a select group of abstracts in several sub-categories.

#### Parallel Sessions:

These concurrent sessions provide an in-depth report of the latest research findings, state-of-the-art treatment options, as well as a discussion of future strategies. Parallel sessions will have evidence-based components and incorporate the "hot" issues in Parkinson's disease and other movement disorders.

#### Plenary Sessions:

These sessions provide a broad overview of the latest clinical and basic science research findings and state-of-the-art information.

#### **Poster Sessions:**

Poster sessions give each delegate an opportunity to view their colleagues' posters on the most current research in the field of Movement Disorders. Authors will be present for two hours each day to explain their work and answer questions.

Please check the Registration Desk for ticket availability.

There is no extra charge for session tickets.

#### Skills Workshops:

These clinic-based training sessions provide an educational illustration of clinical techniques and treatment procedures through demonstrations utilizing patient videotapes and proper equipment to further develop practitioners' skills and knowledge within the field of treatment of movement disorders.

#### **Teaching Courses:**

These educational programs provide up-to-date information focused on a single topic. The sessions highlight both the clinical and basic science of topics of relevance to Movement Disorder specialists. The sessions are unique in providing a syllabus that includes a review of the topic and the presentation slides. In addition, these programs provide ample time for questions and a discussion period at the conclusion of the presentations.

#### Therapeutic Plenary Sessions:

These sessions provide the latest information regarding the scientific and clinical evidence supporting treatment options for Parkinson's disease and other movement disorders.

#### **Video Sessions:**

Designed to provide a broad overview of related movement disorders, the video sessions will focus on the phenomenology covering the many different kinds of movement disorders affecting the population today.

# Special Meeting Theme: Neuroimaging in Movement Disorders

At each annual International Congress, the Congress Scientific Program Committee selects a theme that is highlighted on one day of the Plenary Sessions and carried forward with Parallel Sessions and Video/ Skills Workshops throughout the meeting. This year, the selected theme is Neuroimaging in Movement Disorders. International experts working in the interface between Neuroimaging and Movement Disorders will serve as faculty, and the presentations will run the gamut of the field, from new research to practical applications. Meeting participants can elect to attend any or all of the sessions.

These sessions are designated with a





## Scientific Program | Sunday, June 13, 2010

#### 1105 Therapeutic Plenary Session Is

# From starting line to finish: The management of Parkinson's disease

8:00 - 10:00

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Werner Poewe

Innsbruck, Austria Oscar Gershanik Buenos Aires, Argentina

8:00 When the gun goes off: How to start

Anthony Schapira

London, United Kingdom

8:40 Hitting the wall: How to manage motor

complications medically

Anthony Lang
Toronto, ON, Canada

9:20 All in the mind: Cognitive and neuropsychiatric problems

Marcelo Merello

Buenos Aires, Argentina

At the conclusion of this session, participants should be better able to:

- 1. Recognize the issues and options available in the early treatment of Parkinson's disease
- 2. Develop a strategy to implement a range of treatments available for the management of motor complications in advanced Parkinson's disease
- 3. Describe the management of cognitive and neuropsychiatric problems associated with Parkinson's disease

#### 1106 Therapeutic Plenary Session II:

#### DBS: What's new?

10:30 - 12:30

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Erwin Montgomery

Birmingham, AL, USA

Marcelo Merello

Buenos Aires, Argentina

10:30 How does DBS work?

Erwin Montgomery Birmingham, AL, USA

1106 Therapeutic Plenary Session II:—continued

#### 11:10 Treating movement disorders

Michael Okun

Gainesville, FL, USA

#### 11:50 Treating neuropsychiatric disorders

Ziad Nahas

Charleston, SC, USA

At the conclusion of this session, participants should be better able to:

- Describe the mechanisms of DBS as applied to movement disorders and neuropsychiatry including new data based on optical deconstruction techniques
- 2. Recognize new developments in DBS surgery for movement disorders
- 3. Describe current achievements in and future options of DBS surgery for neuropsychiatric disorders

Supported by an unrestricted educational grant from St. Jude Medical.

#### 1107 Therapeutic Plenary Session III:

# Management of nocturnal and sleep-related problems in movement disorders

14:00 - 16:00

Location: Libertador Room, 1st Floor \*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Alejandro Iranzo

Barcelona, Spain

Mirta Averbuch

Buenos Aires, Argentina

# 14:00 Periodic or rhythmic movements during rest, drowsiness and sleep

Alejandro Iranzo

Barcelona, Spain

14:40 Clinical spectrum and predictive value of REM behavior disorders and parasomnias

Isabelle Arnulf

Paris, France

15:20 Daytime sleepiness in parkinsonism

William Ondo

Houston, TX, USA

At the conclusion of this session, participants should be better able to:

1. Identify rhythmic or periodic movement disorders before or during sleep including hypnic jerks, restless legs syndrome, periodic movements of sleep, head banging, body rocking and stereotypies



## Scientific Program | Sunday, June 13 and Monday, June 14, 2010

#### 1107 Therapeutic Plenary Session III:—continu

- 2. Outline appropriate workup for assessing complex movement disorders during sleep including REM sleep behavior disorders, parasomnias, sleep wandering movement disorders during sleep and frontal lobe related nocturnal epilepsy
- 3. Develop a strategy to address sleep apnea in parkinsonism and the causes of daytime sleepiness

#### 1108 Therapeutic Plenary Session IV:

#### Hot topics in experimental therapeutics in Parkinson's disease

16:30 - 18:30

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Susan Fox

Toronto, ON, Canada

Luiz Augusto Franco de Andrade

São Paulo, Brazil

16:30 Gene therapy for treating Parkinson's disease

Deniz Kirik

Lund, Sweden

Cellular replacement therapy and stem cell therapy 17:10 in Parkinson's disease

Roger Barker

Cambridge, United Kingdom

Novel neuropharmacological approaches for 17:50

Parkinson's disease

Jonathan Brotchie

Toronto, ON, Canada

At the conclusion of this session, participants should be better able to:

- 1. Review potential mechanisms of modifying Parkinson's disease involving gene therapy
- 2. Discuss the issues related to stem cells in Parkinson's disease
- 3. Review novel pharmacological approaches to treating Parkinson's disease

#### **Opening Ceremony**

19:00 -19:30

Libertador Room, 1st Floor

#### Welcome Reception

19:30 - 21:00 1st Floor Foyer

#### **MONDAY, JUNE 14, 2010**

#### 2103 Plenary Session V:



#### Neuroimaging: Exploring the anatomy of movement disorders

8:00 - 10:00

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: David Brooks

London, United Kingdom

Cristina Besada

Buenos Aires, Argentina

8:00 New advances in anatomical neuroimaging:

Implications for movement disorders and potential

biomarkers

Stephane Lehericy

Paris, France

8:40 Neuroimaging strategies for diagnosing movement

disorders

David Brooks

London, United Kingdom

Neuroimaging strategies for measuring 9:20 progression of disease in Parkinson's disease: From

pre-symptomatic and pre-motor signs to advanced disease

Klaus Seppi

Innsbruck, Austria

At the conclusion of this session, participants should be better able to:

- 1. Develop a strategy to visualize the anatomy of the basal ganglia and sub-cortical regions
- 2. State your methodology for applying neuroimaging techniques to the delineation trait and state biomarkers of movement disorders
- 3. Discriminate the advantages of different techniques for tracking progression of movement disorders longitudinally

#### 2104 Plenary Session VI:



#### Functional neuroimaging in Movement Disorders

10:30 - 12:30

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.



#### 2104 Plenary Session VI



Chairs: David Eidelberg

Manhasset, NY, USA

Manhasset, NY, USA Adrian Owen

Cambridge, United Kingdom

10:30 New approaches and strategies for studying basal ganglia and subcortical networks as they relate to movement disorders

Gereon Fink *Jülich, Germany* 

11:10 Using functional neuroimaging for studying motor aspects of movement disorders

A. Jon Stoessl Vancouver, BC, Canada

11:50 Functional neuroimaging and non-motor aspects of movement disorders

Adrian Owen

Cambridge, United Kingdom

At the conclusion of this session, participants should be better able to:

- Recognize the functional neuroimaging advances that permit visualization of brain regions involved in both motor and non-motor behaviors
- 2. Describe the techniques most pertinent to studying motor function in movement disorders
- 3. Evaluate the relative attributes of different techniques that can be applied to the study of non-motor aspects of movement disorders, including cognitive decline

#### Corporate Therapeutic Symposia

13:00 -14:00

Please see pages 60-61 for more information.

### **PAS General Assembly**

13:30 -14:30

Location: Golden Horn Room, 1st Floor All delegates from Pan America are encouraged to attend.

#### Poster Session

#### Poster Session 1

Abstracts: 1-278 Monday, June 14

Poster Viewing: 9:00 - 18:00 Authors Present: 14:00 - 15:30

Location: San Telmo Room, Lobby Level

### Guided Poster Tours

14:00 - 15:30

Location: All Guided Poster Tours will meet in the assigned poster room on the 24th Floor. A ticket is required for participation in each tour.

Atalaya Room:

Guided Poster Tour 1 - Neuroimaging

Guided Poster Tour 2 – Parkinson's disease: Neuropharmacology

Aguila Room:

Guided Poster Tour 3 – Parkinson's disease: Behav-

ioral disorders

Guided Poster Tour 4 – Tics/Stereotypies

For a complete listing of abstracts in each tour, please see pages 71-72.

#### 2206 Parallel Session:



#### Animal models in Movement Disorders

15:30 - 17:30

Location: Retiro Room A/B, 1st Floor

Chairs: Serge Przedborski New York, NY, USA

David Rubinsztein

Cambridge, United Kingdom

15:30 Overview of animal models for Movement Disorders
Ted Dawson

Baltimore, MD, USA

16:10 Advantages and limitations of animal models of Parkinson's disease for neuroprotection

Serge Przedborski New York, NY, USA

16:50 Animal models of Parkinson's disease to study the side effects of dopa therapy and the role of non-dopaminergic systems

M. Angela Cenci Lund, Sweden

- 1. Identify the animal models in movement disorders
- 2. Assess the limits and advantages of the animal models in terms of neuroprotection
- 3. Evaluate the limits and advantages of the animal models in terms of side effects of dopa therapy and non-dopaminergic systems



#### 2207 Parallel Session:



#### Parkinson's disease: A systemic disorder

15:30 - 17:30

Location: Libertador Room B, 1st Floor

Chairs: Eldad Melamed

Petah Tikva, Israel

Jose Bueri

Buenos Aires, Argentina

15:30 Cardiovascular involvement in Parkinson's disease

Satoshi Orimo *Tokyo, Japan* 

16:10 Gastrointestinal involvement in Parkinson's disease

Ronald Pfeiffer *Memphis, TN, USA* 

16:50 Dermatological involvement in Parkinson's disease

Eldad Melamed Petah Tikva, Israel

At the conclusion of this session, participants should be better able to:

- 1. Assess your approach for addressing the pathology and clinical presentation of Parkinson's disease that are not CNS-related
- Develop strategies to address the cardiovascular, gastrointestinal and dermatological manifestations of Parkinson's disease
- Explain your treatment plan for or referral plan for the cardiovascular, gastrointestinal and dermatological features of Parkinson's disease

#### 2208 Parallel Session:



#### PSP and CBD: From the bench to the clinic

15:30 - 17:30

Location: Retiro Room C, 1st Floor

Chairs: Giovanni Abbruzzese

Genova, Italy
Dennis Dickson
Jacksonville, FL, USA

15:30 Lessons learned from genetics: GWAS studies in

PSP and CBD and FDTP mutations

Gerard Schellenberg Philadelphia, PA, USA

16:10 Lessons learned from animal models

Jada Lewis

Jacksonville, FL, USA

16:50 Lessons learned from clinicopathological phenotype correlation studies in PSP and CBD

Dennis Dickson *Jacksonville, FL, USA* 

## 2208 Parallel Session: Continued

At the conclusion of this session, participants should be better able to:

- 1. Identify the clinical and pathological findings of archetypal cases of PSP and CBD as well as the overlapping signs
- 2. Discuss the advantages and limitations of animal model research in studying PSP and CBD
- 3. Interpret the appropriate applications for the genetic influences on PSP, CBD and FDTP mutations

### 2209 Parallel Session:



#### Ataxias

15:30 - 17:30

Location: La Pampa Room, 1st Floor

Chairs: Alexandra Durr

Paris, France Helio Teive Curitiba, Brazil

15:30 What's new in dominant ataxias?

Helio Teive Curitiba, Brazil

16:10 Friedriech's ataxia: Are pathogenic insights leading

to therapies? Massimo Pandolfo *Brussels, Belgium* 

16:50 The diagnostic approach to hereditary ataxia in 2010

Alexandra Durr *Paris, France* 

At the conclusion of this session, participants should be better able to:

- 1. Outline appropriate diagnostic acumen for ataxias
- 2. State your methodology for implementing emerging therapies for Friedreich's ataxia
- 3. Describe genetic causes of ataxia

### 2210 Parallel Session:



# Update on Gilles de la Tourette syndrome and tic disorders

15:30 - 17:30

Location: Catalinas Room, 1st Floor

Chairs: Michael Orth

Hamburg, Germany Maria Beatriz Moyano Buenos Aires, Argentina



#### TICKET Parallel Session:

#### The pathobiological mechanisms of Tourette or tic 15:30 disorders

Davide Martino Bari, Italy

16:10 The clinical spectrum of Tourette syndrome and other tic disorders

Michael Orth

Hamburg, Germany

#### 16:50 Management of tic disorders including deep brain

Alexander Münchau Hamburg, Germany

At the conclusion of this session, participants should be better able to:

- 1. Discuss the pathophysiological mechanisms of Tourette syndrome including recent advances in genetics, imaging and electrophysiological and immune mechanisms
- 2. Discuss the clinical spectrum of tic disorders and Tourette syndrome including the motor and behavioral features
- 3. Discuss the state of the art of management for tic disorders including medical and surgical management

#### 2211 Parallel Session:



consequence of neurological disease

15:30 - 17:30

Location: Golden Horn Room, 1st Floor

Chairs: Marco T. Nuñez Santiago, Chile Susan Hayflick Portland, OR, USA

NBIA1-PANK2 and NBIA2-PLA2G6 genetic 15:30 disorders

> Susan Hayflick Portland, OR, USA

Neuroferritnopathy 16:10 Neeraj Kumar Rochester, MN, USA

16:50 Manganese toxicity Bob Chin-Song Lu Taipei, Taiwan

#### Parallel Session:



At the conclusion of this session, participants should be better able to:

- 1. Describe the distinctive clinical and genetic features of NBIA-1-PANK2 and NBIA2-PLA2G6 mutation disorders
- 2. Explain the diagnostic criteria for neuroferritonopathies that induce movement
- 3. Identify the clinical and biochemical hallmarks of manganese toxicity

## 2308 Teaching Course: TICKET



### Neuroimaging techniques and applications

15:30 - 17:30

Location: Libertador Room A, 1st Floor Interpretación simultánea al Español disponible en esta sesión.

Chairs: Kenneth Marek

New Haven, CT, USA Philippe Rémy Creteil, France

15:30 Neuroimaging in the differential diagnosis of parkinsonism and tremor disorders

Philippe Rémy Creteil, France

16:10 Neuroimaging in the study of cognitive aspects of parkinsonism and dementia

> Angelo Antonini Milan, Italy

16:50 New MRI techniques for the evaluation of parkinsonism

> David Vaillancourt Chicago, IL, USA

better able to:

At the conclusion of this session, participants should be

- 1. Describe various modalities of structural and functional neuroimaging applied in the differential diagnosis of parkinsonism and tremor
- 2. Identify the disorders which cause abnormality in the presynaptic dopaminergic neurons and those disorders which affect both pre and post synaptic dopaminergic neurons
- 3. State your methodology for the application of functional neuroimaging in the differential diagnosis of patients with dementia and parkinsonism/tremor



#### 2309 Teaching Course:



#### Update on dystonia

15:30 - 17:30

Location: Libertador Room C, 1st Floor

Interpretación simultánea al Español disponible en esta sesión.

Chairs: Kailash Bhatia

London, United Kingdom

Silvia Garcia

Buenos Aires, Argentina

15:30 Primary dystonia

Rachel Saunders-Pullman

New York, NY, USA

16:10 Secondary and heredodegenerative dystonias

Kailash Bhatia

London, United Kingdom

16:50 Paroxysmal dystonia

Kapil Sethi

Augusta, GA, USA

At the conclusion of this session, participants should be better able to:

- 1. Describe the phenotypes of primary and secondary dystonia
- 2. Identify the major indications for genetic testing in dystonia
- 3. Develop a strategy to manage and treat dystonic syndromes

Supported by an unrestricted educational grant from Ipsen.

#### 2403 Skills Workshop:



#### Reaching the target in DBS

18:00 - 19:30

Location: Libertador Room A, 1st Floor

This interactive video session will cover determination and stereotactic imaging and single unit recording.

Hiroki Toda

Osaka, Japan

Andres Ceballos-Baumann

Munich, Germany

At the conclusion of this session, participants should be better able to:

- 1. Describe imaging algorithms to determine the preliminary target in DBS surgery
- 2. Recognize specific neuronal firing patterns in refining the target in DBS surgery
- 3. Discuss indications for multiple-target strategies

#### 2404 Skills Workshop:



# The MDS-UPDRS: How to apply the new UPDRS in practice and research settings

18:00 - 19:30

Location: Libertador Room B, 1st Floor

This interactive skills workshop will focus on the description of the scale and comparison to the original UPDRS. Case examples and self assessment exercises will be utilized.

Pablo Martinez-Martin

Madrid, Spain

Christopher G. Goetz

Chicago, IL, USA

At the conclusion of this session, participants should be better able to:

- Explain the components and application of the new MDS-UPDRS, the reference measure for Parkinson's disease from now on
- Describe the relationship and comparison between the old scale and the new UPDRS and the recommendations on how to interpret the results obtained through the application in clinical practice and research
- Apply the MDS-UPDRS in real life, how to navigate through the options of scoring, and how to assign the definitive score after seeing demonstrative examples and self-assessment exercises

### 2405 Skills Workshop:



#### Paraneoplastic movement disorders

18:00 - 19:30

Location: Libertador Room C, 1st Floor

This interactive session will discuss the clinical spectrum of paraneoplastic movement disorders and their laboratory and imaging evaluation.

#### Paraneoplastic Expert

Josep Dalmau

Philadelphia, PA, USA

#### Clinician

Thomas Kimber

Adelaide, Australia

- Recognize the wide variety of movement disorders associated with cancer
- 2. Differentiate these movement disorders from similar clinical syndromes
- 3. Order appropriate antibody testing and other screening investigations for cancer in patients with the characteristic syndromes



#### 2506 Video Session:



#### Animal models: Do the scientists and clinicians concur?

18:00 - 19:30

Location: Retiro Room C, 1st Floor

This interactive session will focus on animal models for clinical disorders with interactions between clinicians and scientists.

Mark LeDoux Memphis, TN, USA

Susan Fox

Toronto, ON, Canada

At the conclusion of this session, participants should be better able to:

- 1. Describe the advantages and disadvantages of the rodent models of movement disorders
- 2. Describe the advantages and disadvantages of the non-human primate models of movement disorders
- 3. Compare movement disorders in human and animal models

## 2507 Video Session:



#### Assessing shaky movements

18:00 - 19:30

Location: La Pampa Room, 1st Floor

This interactive video session will show examples of various movement disorders where the interface of tremor, myoclonus, and other jerky movements are discussed and evaluated.

Victor Fung Sydney, Australia Timothy Lynch Dublin, Ireland

At the conclusion of this session, participants should be better able to:

- 1. Outline appropriate examination techniques used for jerky and shaky movements
- 2. Define tremor and myoclonus
- 3. Recognize psychogenic movements, cortical tremor and tics

#### 2508 Video Session:



#### Eye movement abnormalities in movement disorders

18:00 - 19:30

Location: Catalinas Room, 1st Floor

This interactive video session will show examples of eye movement abnormalities in movement disorders.

Ianet Rucker

New York, NY, USA

Tim J. Anderson

Christchurch, New Zealand

At the conclusion of this session, participants should be better able to:

- 1. Describe how to carry out accurate bedside examinations of eye movements including saccades, pursuit, vergence, vestibular and alignment
- 2. Describe the characteristic clinical eye movement abnormalities in patients with the common movement disorders
- 3. Outline how to recognize nystagmus and other oscillatory disorders and know recent pharmacotherapeutic advances

#### Video Session: TICKET



#### The voice of movement disorders

18:00 - 19:30

Location: Golden Horn Room, 1st Floor This interactive video session will present examples of dysphonia, stuttering, dysarthria, and other voice disorders.

Lorraine Ramig Boulder, CO, USA Leo Verhagen Chicago, IL, USA

- 1. Classify dysphonia
- 2. Discuss the differential diagnosis of dysphonia and
- 3. Discuss speech disorders in Parkinson's disease



## Scientific Program | Monday, June 14 and Tuesday, June 15, 2010

#### 2510 Video Session:



#### Movement Disorders in sleep

18:00 - 19:30

Location: Retiro Room A/B, 1st Floor

This interactive video session will show examples of nocturnal behaviors relevant to movement disorders.

Birgit Hogl

Innsbruck, Austria

Claudia Trenkwalder

Kassel, Germany

At the conclusion of this session, participants should be better able to:

- Describe the anatomic basis, clinical features and treatment of the parasomnias occurring during NREM sleep
- 2. Discuss the anatomic basis and clinical features of REM sleep behavior disorder and the evidence that relates RBD to synucleinopathy
- 3. Discuss the genetic basis for restless legs syndrome and current theories of pathogenesis

#### **TUESDAY, JUNE 15, 2010**

#### 3103 Plenary Session VII:

### Molecular mechanism of Huntington's disease

8:00 - 10:00

Location: Libertador Room, 1st Floor \*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Frederic Saudou

Orsay, France Roberto Weiser Caracas, Venezuela

8:00 How does mutant Huntington's disease kill cells in

the CNS?

Frederic Saudou *Orsay, France* 

8:40 What causes the regional pathology of Huntington's

disease?

Paul Muchowski

San Francisco, CA, USA

9:20 What are the new disease modifying therapies for

Huntington's disease and why?

Ralf Reilmann Muenster, Germany

#### 3103 Plenary Session VII:—continued

At the conclusion of this session, participants should be better able to:

- 1. Describe how mutant Huntington's disease affects cells adversely
- 2. Discuss what relevant advances in mutant Huntington's disease has to novel therapeutics
- 3. Identify ways that this work relates to other triplet repeat disorders of the CNS

#### 3104 Plenary Session VIII:

## Clinical Trials in Movement Disorders: Today and the future

10:30 - 12:00

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Karl Kieburtz

Rochester, NY, USA Gonzalo Gomez Arevalo Buenos Aires, Argentina

10:30 The major clinical trials and important outcomes in Movement Disorders in 2009-2010

Karl Kieburtz

11:15 New clinical trials and programs in development: Look for results in 2011

Wolfgang Oertel

Rochester, NY, USA

Marburg, Germany

At the conclusion of this session, participants should be better able to:

- 1. Evaluate clinical trial results that impact Movement Disorders in 2009-2010
- 2. Describe the strengths and limitations of clinical trials data that have been published in 2009-2010
- Discuss the studies now in progress and the gamut of disorders and indications that are currently being evaluated for the treatment of Parkinson's disease and related disorders

#### Corporate Therapeutic Symposia

12:30 -13:30

Please see pages 60-61 for more information.



#### Poster Session

#### Poster Session 2

Abstracts: 279-565 Tuesday, June 15

Poster Viewing: 9:00 - 18:00 Authors Present: 13:30 - 15:00

Location: San Telmo Room, Lobby Level

#### **Guided Poster Tours**

13:30 -15:00

Location: All Guided Poster Tours will meet in the assigned poster room on the 24th Floor. A ticket is required for participation in each tour.

Atalaya Room:

Guided Poster Tour 5 - Basic Science Guided Poster Tour 6 - Huntington's disease

Aguila Room:

Guided Poster Tour 7 - Restless Legs Syndrome Guided Poster Tour 8 - Neuropharmacology

For a complete listing of abstracts in each tour, please see pages 73-74.

#### **AOS General Assembly**

12:30 - 13:30

Location: Golden Horn Room, 1st Floor

All delegates from Asia and Oceania are encouraged to attend.

#### **MDS Business Meeting**

13:30 - 14:30

Location: La Pampa Room, 1st Floor

Open to all delegates.

#### Parallel Session: TICKET 3207

#### Wilson's disease: Diagnostic and therapeutic challenges

15:00 - 17:00

Location: Retiro Room C, 1st Floor

Chairs: Egberto Ries Barbosa São Paulo, Brazil Louis C.S. Tan

Singapore

15:00 Genetics and pathophysiology of Wilson's disease

> Hartmut Schmidt Hamburg, Germany

Clinical presentation and diagnostic work-up in 15:40 Wilson's disease

Egberto Ries Barbosa São Paulo, Brazil

#### 3207 **Parallel Session:**



#### 16:20 Therapeutic challenges in Wilson's disease

Mohit Bhatt

Mumbai, India

At the conclusion of this session, participants should be better able to:

- 1. Describe identified causative gene mutations in Wilson's disease and the role of genotyping in this
- 2. Outline the appropriate diagnostic work-up including the clinical presentations of the disease
- 3. Discuss available treatment modalities including their shortcomings and complications

#### Parallel Session: TICKET



#### New directions in neuroprotection for Parkinson's disease

15:00 - 17:00

Location: Libertador Room B, 1st Floor

Chairs: Etienne Hirsch

Paris, France Pedro Cuevas Santiago, Chile

What we learned from pre-clinical models for 15:00 neuroprotection

Etienne Hirsch Paris, France

15:40 Neuroprotection versus symptom relief - possible to differentiate?

Ira Shoulson

Rochester, NY, USA

16:20 From neuroprotection to neuroprevention: Can we define at risk populations for Parkinson's disease?

Werner Poewe

Innsbruck, Austria

- 1. Describe pre-clinical data that indicated possible neuroprotective effects and have justified previous clinical trials of neuroprotectants for Parkinson's disease, and to what extent such data succeeded or failed to predict trial outcomes
- 2. Describe how symptomatic effects of putative neuroprotectants complicate interpretation of early clinical trials
- 3. Recognize the advantages and limitations of drugs with single action versus drugs with multiple sites of action (dirty drugs) or combinations of agents in Parkinson's disease



### 3209 Parallel Session:



### Can we define pre-motor Parkinson's disease: Strategies to identify an at risk cohort

15:00 - 17:00

Location: Retiro Room A/B, 1st Floor

Chairs: Matthew Stern

Philadelphia, PA, USA

Eduardo Tolosa Barcelona, Spain

Clinical profile of pre-motor Parkinson's disease 15:00

G. Webster Ross Honolulu, HI, USA

Imaging profile of pre-motor Parkinson's disease 15:40

Klaus Leenders Groningen, Netherlands

16:20 Challenges to evaluating an at risk population

Connie Marras

Toronto, ON, Canada

At the conclusion of this session, participants should be better able to:

- 1. Discuss a schema for defining pre-motor Parkinson's
- 2. Review the clinical and imaging profiles of pre-motor Parkinson's disease
- 3. Review assessments that are currently used in premotor studies

#### 3210 Parallel Session:



#### Non-invasive brain stimulation in movement disorders

15:00 - 17:00

Location: Catalinas Room, 1st Floor

Chairs: Joachim Krauss

Hannover, Germany John C. Rothwell London, United Kingdom

Physiological mechanisms and safety guidelines of 15:00

rTMS and tDCS

John C. Rothwell

London, United Kingdom

rTMS for movement disorders 15:40

Alfredo Berardelli

Rome, Italy

16:20 tDCS in movement disorders: Concept and results

> Walter Paulus Göttingen, Germany

#### TICKET —continued 3210 Parallel Session:

At the conclusion of this session, participants should be better able to:

- 1. Recognize the patterns of cortical excitability alterations in movement disorders and the physiological targets of intervention
- 2. Explain protocols and therapeutic results for transcranial magnetic or direct current stimulation in particular movement disorders
- 3. Define the benefits, possible adverse effects and safety guidelines of the non-invasive brain stimulation

#### 3211 Parallel Session: TICKET



### Balance and gait in movement disorders: From laboratory to clinic

15:00 - 17:00

Location: La Pampa Room, 1st Floor

Chairs: Nir Giladi

Tel Aviv. Israel Stewart Factor Atlanta, GA, USA

Pathophysiologic basis of gait and balance 15:00

impairment

Brian Day

London, United Kingdom

15:40 The relationship of gait and balance disturbances to cognitive deficit

Evzen Ruzicka

Prague, Czech Republic

Current and future management of gait and balance 16:20 impairment

Nir Giladi

Tel Aviv. Israel

- 1. Explain the pathophysiologic basis of gait and balance disorders
- 2. Discuss the relationship between gait disturbance and cognitive impairment
- 3. Identify new technological innovations in management of gait and balance impairment



#### 3212 Parallel Session:



#### Neuroimaging in guiding DBS decisions, preoperative and post-operative lesions

15:00 - 17:00

Location: Golden Horn Room, 1st Floor

Chairs: Peter Bain

London, United Kingdom Antonio P. Strafella Toronto, ON, Canada

15:00 Neuroimaging in guiding DBS decisions, preoperative and post-operative lesions: Parkinson's

disease

Antonio P. Strafella Toronto, ON, Canada

15:40 Tremor

Jan Herzog Kiel, Germany

16:20 Dystonia

> David Eidelberg Manhasset, NY, USA

At the conclusion of this session, participants should be better able to:

- 1. Evaluate the neuroimaging tools and strategies that are maximally useful for identifying the GPi and STN
- 2. Discuss the neuroimaging techniques to visualize nuclei and pathways important to tremor surgery
- 3. Identify the important neuroimaging landmarks that maximize targeting of lead placement in dystonia surgery

## 3309 Teaching Course: TICKET



#### Differential diagnosis of parkinsonism

15:00 - 17:00

Location: Libertador Room A, 1st Floor

Interpretación simultánea al Español disponible en esta sesión.

Chairs: Stephen Reich

Baltimore, MD, USA Henrique Ferraz São Paulo, Brazil

15:00 Diagnosis of Parkinson's disease: Clinical features,

motor and non-motor Stephen Reich

Baltimore, MD, USA

15:40 Atypical parkinsonism: Differential diagnosis and work-up

Irene Litvan Louisville, KY, USA

#### 3309 **Teaching Course:**



#### 16:20 Other causes of parkinsonism

Regina Katzenschlager

Vienna, Austria

At the conclusion of this session, participants should be better able to:

- 1. Describe the differential diagnosis of parkinsonism
- 2. Recognize pitfalls in the diagnosis of Parkinson's
- 3. Distinguish Parkinson's disease from secondary causes of parkinsonism and parkinsonian syndromes

### 3310 Teaching Course: **IICKET**



#### Genetics of movement disorders

15:00 - 17:00

Location: Libertador Room C, 1st Floor

Interpretación simultánea al Español disponible en esta sesión.

Chairs: John Hardy

London, United Kingdom

Christine Klein

Lübeck, Germany

Basic concepts of genetics in movement disorders 15:00

> Thomas Gasser Tübingen, Germany

15:40 Tools and techniques

Alexis Brice

Paris, France

16:20 Neurogenetics in clinical practice

Enza Maria Valente

Rome, Italy

- 1. Discuss basic concepts of genetics in movement disorders
- 2. Describe modern molecular tools and techniques to identify genes, mutations, and functional consequences
- 3. Indicate perspectives and limitations of genetic testing for movement disorders in clinical practice



#### 3404 Skills Workshop:



## Rehabilitation therapies in movement disorders

17:30 - 19:00

Location: Libertador Room A, 1st Floor This interactive session will address the role of rehabilitation in Parkinson's disease and dystonia with a focus on multidisciplinary strategies.

Lynn Rochester

Newcastle upon Tyne, United Kingdom

Nancy Byl

San Francisco, CA, USA

At the conclusion of this session, participants should be better able to:

- 1. Identify the evidence for Parkinson's disease rehabilitation from the latest clinical trials
- 2. Discuss how the evidence from research studies may be applied to rehabilitation therapies
- 3. Define the role of rehabilitation in the management of dystonia

#### 3405 Skills Workshop:



## Practical issues in assessing genetics in movement disorders

17:30 - 19:00

Location: Libertador Room C, 1st Floor

This interactive workshop will focus on the interpretation of complex pedigrees in movement disorders. This workshop will be heavily illustrated with examples of pedigrees, and will address how to recognize forms of dystonia and parkinsonism.

Oksana Suchowersky *Calgary, AB, Canada* Christine Klein *Lübeck, Germany* 

At the conclusion of this session, participants should be better able to:

- 1. Explain how to construct and interpret pedigrees suggesting various modes of inheritance
- Describe the phenomenology of genetic forms of dystonia and parkinsonism
- Discuss issues of genetic testing and counseling for movement disorders and interpret a diagnostic testing report

#### 3406 Skills Workshop:



#### Infusion therapies in Parkinson's disease

17:30 - 19:00

Location: Retiro Room C, 1st Floor

This interactive workshop will focus on the use of infusion techniques in complex advanced Parkinson's disease patients.

Erik Wolters

Amsterdam, Netherlands

Per Odin

Bremerhaven, Germany

At the conclusion of this session, participants should be better able to:

- 1. Recognize patients suitable for infusion therapies
- 2. Describe the main symptomatic effects of changing from peroral therapy to pump therapy in advanced Parkinson's disease patients
- Describe the possible side effects and technical challenges with pump treatments in Parkinson's disease

Supported by an unrestricted educational grant from Ipsen.

#### 3506 Video Session:



## Advances in non-Huntington's disease chorea

17:30 – 19:00

Location: Golden Horn Room, 1st Floor This interactive video session will address non-HD chorea including neuroacanhocytosis HD-like syndrome, autoimmune, vascular and other causes of acquired chorea.

Ruth Walker Bronx, NY, USA Francisco Cardoso Belo Horizonte, Brazil

- 1. Develop a strategy to recognize and diagnose chorea in a variety of etiologies
- 2. Describe the recent advances in the pathophysiology of chorea at the cellular level
- 3. Identify recent developments in the treatment of chorea



#### 3507 Video Session:



#### Movement disorders of the face

17:30 - 19:00

Location: La Pampa Room, 1st Floor

This interactive video session will focus on the phenomenology and treatment of facial dyskinesias.

Carlo Colosimo

Rome, Italy

Marie Marion

London, United Kingdom

At the conclusion of this session, participants should be better able to:

- 1. Classify facial dyskinesias
- 2. Discuss the differential diagnosis of facial dyskinesias
- 3. Explain the treatment options for facial dyskinesias

#### 3508 Video Session:



#### Gait disorders

17:30 - 19:00

Location: Libertador Room B, 1st Floor

This interactive video session will focus on two particular elements of gait disorders: Postural instability in the elderly and primary progressive freezing gait.

Ruth Djaldetti

Petah Tikva, Israel

Stewart Factor

Atlanta, GA, USA

At the conclusion of this session, participants should be better able to:

- 1. Describe the characteristic and unique clinical features of certain gait disorders
- 2. Explain your approach to clinically evaluating certain gait and balance disorders
- 3. Discuss the management and prognosis of certain gait disorders

#### 3509 Video Session:



#### Unusual movement disorders: A potpourri

17:30 - 19:00

Location: Catalinas Room, 1st Floor

This interactive video session will show rare movement disorders and unusual presentations of common disorders with an emphasis on differential diagnosis.

Aikaterini Kompoliti Chicago, IL, USA Stanley Fahn

New York, NY, USA

#### 3509 Video Session:



#### —continued

At the conclusion of this session, participants should be better able to:

- 1. Recognize phenocopies of common movement disorders in patients with a variety of underlying conditions
- 2. Identify disorders that can resemble classical movement disorder syndromes
- 3. Utilize differential diagnostic tests to distinguish between classical movement disorder syndromes and their look-alikes

#### 3601 Special Session:

#### Issues in Movement Disorders in Latin America

17:30 - 19:00

Location: Retiro Room A/B, 1st Floor

Chairs: Carlos Cosentino

Lima, Peru

Elena Dieguez

Montevideo, Uruguay

17:30 Huntington's disease: The Lake Maracaibo

experience

Roberto Weiser

Caracas, Venezuela

18:00 Functional Neurosurgery: Lesions versus DBS

Lazaro Alvarez

Havana, Cuba

18:30 Infectious diseases and movement disorders

Carlos Cosentino

Lima, Peru

At the conclusion of this session, participants should be better able to:

- 1. Discuss the contributions of Venezuelan pedigrees to the understanding of Huntington's disease
- 2. Assess the relative advantages and disadvantages of ablative lesions versus DBS in Parkinson's disease
- 3. List common infectious and parasitic organisms causing movement disorders

#### Gala Event

19:30 - 23:30

A ticket must be purchased for this event. Please check at the registration desk for availability. Please see page 23 for more information.



#### **WEDNESDAY, JUNE 16, 2010**

#### 4103 Plenary Session IX:

#### Presidential Lectureships

8:00 - 10:00

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Anthony Lang

Toronto, ON, Canada Philip Thompson Adelaide, Australia Günther Deuschl Kiel, Germany

8:00 Stanley Fahn Lecture: The fox, the hedgehog, the MDS and the world's best known neurologist?

Gerald Stern

London, United Kingdom

8:30 Junior Award Lecture: Clinical Science

Roberto Cilia

Toronto, ON, Canada; Milan, Italy

8:45 Junior Award Lecture: Basic Science

Raphael Hourez

Brussels, Belgium; Boston, MA, USA

9:30 C. David Marsden Lecture: The role of basal ganglia and subconsciousness

Yves Agid

Paris, France

At the conclusion of this session, participants should be better able to:

- Understand the contributions of major movement disorder specialists whose scientific approaches focused on centrifugal and diverse concepts or a single, central organizing principle
- 2. Define sub-consciousness as a distinct neuroscientific concept different from consciousness, preconsciousness, and unconsciousness
- 3. Understand the contributions of the basal ganglia to sub-conscious functions involving motor, emotional and cognitive integration

#### 4104 Plenary Session X:

## Autophagy: The next frontier of neurodegenerative disorders

10:30 - 12:00

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

#### 4104 Plenary Session X: —continued

Chairs: Dennis Dickson

Jacksonville, FL, USA Ana Maria Cuervo Bronx, NY, USA

10:30 Autophagy in quality control of pathogenic proteins

**in neurons** Ana Maria Cuervo

Ana Maria Cuervo Bronx, NY, USA

11:15 Modulation of autophagy: A possible therapeutic approach for Parkinson's disease and related conditions

David Rubinsztein

Cambridge, United Kingdom

At the conclusion of this session, participants should be better able to:

- 1. Identify mechanisms of protein repair and degradation
- 2. Describe alterations to autophagy in neurodegenerative disorders
- 3. Discuss possible therapeutic strategies targeting autophagy for the treatment of neurodegeneration

#### Corporate Therapeutic Symposia

12:30 - 13:30

Please see pages 60-61 for more information.

#### **Poster Session**

#### Poster Session 3

Abstracts: 566-849 Wednesday, June 16

Poster Viewing: 9:00 - 18:00 Authors Present: 13:30 - 15:00

Location: San Telmo Room, Lobby Level

#### **Guided Poster Tours**

13:30-15:00

Location: All Guided Poster Tours will meet in the assigned poster room on the 24th Floor. A ticket is required for participation in each tour.

Atalaya Room:

Guided Poster Tour 9 – Dystonia Guided Poster Tour 10 – Genetics

Aguila Room:

Guided Poster Tour 11 - Gene Therapies and Cellbased Therapies

Guided Poster Tour 12 - Lewy Body Dementia and other dementias in movement disorders

For a complete listing of abstracts in each tour, please see pages 75-76.



#### 4208 Parallel Session:



# Cognitive and psychiatric issues around functional neurosurgery in Parkinson's disease

15:00 - 17:00

Location: Libertador Room B, 1st Floor

Chairs: Albert Leentjens

Maastricht, Netherlands Pablo Martinez-Martin Madrid, Spain

15:00 Cognitive dysfunction

David John Burn

Newcastle upon Tyne, United Kingdom

15:40 Apathy and depression

Albert Leentjens

Maastricht, Netherlands

# 16:20 Quality of life and social adjustment after Parkinson's disease surgery: Short and long term

Michael Schupbach

Paris, France

At the conclusion of this session, participants should be better able to:

- 1. Identify the need for careful patient selection for neurosurgical procedures
- 2. List the preoperative cognitive and behavioral domains associated with surgery outcome
- 3. Recognize the impact of functional neurosurgery on social adjustment in patients with Parkinson's disease and the need of a multidisciplinary psychosocial preparation and follow-up to help patients cope with the sudden changes in their lives following successful neurosurgery

#### 4209 Parallel Session:



## Frontotemporal dementia: From genotype to phenotype

15:00 - 17:00

Location: Retiro Room A/B, 1st Floor

Chairs: Ian Mackenzie

Vancouver, BC, Canada

Ted Dawson

Baltimore, MD, USA

15:00 The molecular genetics of FTD

Rosa Rademakers *Jacksonville, FL, USA* 

15:40 Neuropathology of FTD

Ian Mackenzie

Vancouver, BC, Canada

#### 4209 Parallel Session:



# 16:20 From molecular pathology to clinical features and treatment approaches

Facundo Manes

Buenos Aires, Argentina

At the conclusion of this session, participants should be better able to:

- Describe the heterogeneous molecular neuropathology that underlies FTD including gene abnormalities that cause FTD and movement disorders
- 2. Recognize newly discovered molecular mechanisms
- Explain the variable clinical phenotypes of FTD including overlap with pyramidal and extrapyramidal movement disorders

#### 4210 Parallel Session:



## The clocks that time us: Circadian rhythmicity in movement disorders

15:00 - 17:00

Location: Retiro Room C, 1st Floor

Chairs: Diego Golombek

Buenos Aires, Argentina

Klaus Leenders

Groningen, Netherlands

15:00 Cellular and molecular basis to circadian rhythms

Diego Golombek

Buenos Aires, Argentina

15:40 Circadian rhythmicity: Implications for Parkinson's disease

Aleksandar Videnovic Chicago, IL, USA

## 16:20 Circadian timing and cognition in Huntington's disease

A. Jennifer Morton

Cambridge, United Kingdom

- Explain the anatomy and physiology of circadian rhythms in humans and the homeostatic and circadian mechanisms involved in the control of restactivity rhythm and sleep-wake cycle
- 2. Discuss the role of circadian rhythms in Parkinson's disease
- 3. Identify the relationship between disturbances in circadian rhythms and cognition and motor control in Huntington's disease



#### 4211 Parallel Session:



New genetic discoveries in Movement Disorders

15:00 - 17:00

Location: La Pampa Room, 1st Floor

Chairs: Thomas Gasser

Tübingen, Germany Matthew Farrer Jacksonville, FL, USA

Contributions of genome-wide screening to the 15:00

genetics of Parkinson's disease

John Hardy

London, United Kingdom

New discoveries in autosomal dominant 15:40 parkinsonism

Matthew Farrer Jacksonville, FL, USA

Autosomal-recessive complicated dystonia 16:20 parkinsonism syndromes (PLA2G6, etc.)

> Susanne Schneider Lübeck, Germany

At the conclusion of this session, participants should be better able to:

- 1. Describe the principles of genome-wide screening studies in PD and their major findings relevant to
- 2. Recognize the major forms of dominantly inherited parkinsonism, their specific features and genetic causes
- 3. Describe genetic causes of rare recessive dystoniaparkinsonism syndromes

#### 4212 Parallel Session: TICKET



#### Non-motor aspects of Parkinson's disease

15:00 - 17:00

Location: Catalinas Room, 1st Floor

Chairs: K. Ray Chaudhuri

London, United Kingdom

Eldad Melamed Petah Tikva, Israel

Pre-clinical models of non-motor aspects of

Parkinson's disease

Marie-Francoise Chesselet

Los Angeles, CA, USA

Detection and monitoring of non-motor aspects of 15:40

Parkinson's disease

K. Ray Chaudhuri London, United Kingdom

#### Parallel Session:



#### 16:20 Contribution of non-motor symptoms in subtyping parkinsonism

Bob Van Hilten Leiden, Netherlands

At the conclusion of this session, participants should be better able to:

- 1. Describe the possibilities to use animal models for understanding the mechanisms behind non-motor Parkinson's disease symptoms
- 2. Describe the present possibilities to detect and monitor non-motor Parkinson's disease symptoms using scales and questionnaires
- 3. Describe the most prevalent non-motor features of the more common forms of parkinsonism

#### 4213 Parallel Session:



### Mechanism of cell death in neurodegeneration

15:00 - 17:00

Location: Golden Horn Room, 1st Floor

Chairs: Fernando Pitossi

Buenos Aires, Argentina James Surmeier Chicago, IL, USA

15:00 Why some neurons are more prone to degenerate

than others James Surmeier Chicago, IL, USA

15:40 Axonal destruction in neurodegeneration: Is it the end or the beginning?

Michael Coleman

Cambridge, United Kingdom

Mitochondra and neuronal death 16:20

Miguel Vila

Barcelona, Spain

- 1. Discuss new concepts of neurodegeneration
- 2. Explain the importance of axons and non-neuronal cells to neuronal fitness
- 3. Identify new therapeutic targets



#### **Teaching Course:** 4307



#### Music and movement disorders

15:00 - 17:00

Location: Libertador Room A, 1st Floor

Interpretación simultánea al Español disponible en esta sesión.

Chairs: Steven Frucht

New York, NY, USA Jennifer Goldman Chicago, IL, USA

15:00 The neurology of musical talent: What can we learn about motor control from historical and present day

examples of extraordinary musical talents?

Steven Frucht New York, NY, USA

15:40 Musical ticquers and the power of music

Francisco Cardoso Belo Horizonte, Brazil

16:20 Motor control gone awry: What can focal dystonia in musicians teach us about motor control and the limits of motor performance in man?

Mark Hallett

Bethesda, MD, USA

At the conclusion of this session, participants should be better able to:

- 1. Explain the controversies regarding the nature of musical talent, genius, and the role of the basal ganglia in skill acquisition and retention
- 2. Discuss the history of musicians with basal ganglia disorders and how their struggles enrich our understanding of basal ganglia disorders
- 3. Recognize the various forms of focal task-specific dystonias affecting musicians and how such examples help to understand other focal and task-specific dystonias

#### 4308 Teaching Course:



#### Pediatric movement disorders

15:00 - 17:00

Location: Libertador Room C, 1st Floor

Interpretación simultánea al Español disponible en esta sesión.

Chairs: Nardo Nardocci

Milan, Italy Tomoko Arakaki Buenos Aires, Argentina

#### 4308 **Teaching Course:**



Distinguishing normal, abnormal, and psychogenic 15:00 movements in children

Emilio Fernandez-Alvarez

Barcelona, Spain

15:40 Parkinsonism in children

> Nardo Nardocci Milan, Italy

Movement disorders and inborn errors of 16:20 metabolism

> Terence Sanger Los Angeles, CA, USA

At the conclusion of this session, participants should be better able to:

- 1. Recognize the most common movement disorders in children
- 2. Develop an approach for the diagnosis and management of parkinsonism in children
- 3. Describe the spectrum of movement disorders caused by inborn errors of metabolism

#### 4403 Skills Workshop:



## Practical management of DBS side effects

17:30 - 19:00

Location: Libertador Room A, 1st Floor This interactive workshop will focus on the recognition and management of stimulation related side effects as well as hardware related complications.

Joachim Krauss

Hannover, Germany

Elena Moro

Toronto, ON, Canada

- 1. Identify the possible complications and side effects of
- 2. Explain the physiopathological basis of the stimulation related side effects
- 3. Describe the algorithms for the recognition and management of the DBS-related side effects and complications



#### 4404 Skills Workshop:



### What do you need to know about rating scales?

17:30 - 19:00

Location: Retiro Room C, 1st Floor

This interactive workshop will address the theory and practice of rating scale application in movement disorders with a special emphasis on developing and utilizing scales that assess responsivity or change with therapy.

Cristina Sampaio Lisbon, Portugal Johan Marinus Leiden, Netherlands

At the conclusion of this session, participants should be better able to:

- 1. Develop a strategy for the selection of a measure from the perspective of classical test theory
- 2. Explain your approach for addressing how clinical research and practice will produce outcomes which need correct interpretation
- 3. Discuss the application of measures to clinical research and practice, highlighting the aspects potentially linked to progress in knowledge

#### 4405 Skills Workshop:





#### Using neuroimaging in clinical practice: Decisions impacting patient management

17:30 - 19:00

Location: Libertador Room B, 1st Floor This interactive workshop will address: What and when to order specific tests? Case histories and management interpreting data.

Cristina Besada

Buenos Aires, Argentina

David Williams

Melbourne, Australia

At the conclusion of this session, participants should be better able to:

- 1. Develop a strategy for when to order specific tests and which tests to order in clinical practice to aid in the diagnosis of movement disorders
- 2. Describe the typical neuroimaging patterns that are typical of movement disorders that will be encountered regularly in clinical practice
- 3. Discriminate the advantages of different techniques for tracking progression of movement disorders longitudinally

#### 4506 Video Session:



#### Musician dystonia

17:30 - 19:00

Location: Libertador Room C, 1st Floor

This interactive video session will show examples of musician dystonia with a focus on etiology and treatment.

Emilia Gatto

Buenos Aires, Argentina Alexander Schmidt Lübeck, Germany Jennifer Goldman Chicago, IL, USA

At the conclusion of this session, participants should be better able to:

- 1. Describe the phenomenology of different forms of musician's dystonia
- 2. Discuss the etiology of musician's dystonia
- 3. Recognize the potential overlap of musician's dystonia with other disorders

#### 4507 Video Session:



#### Atypical parkinsonian disorders

17:30 - 19:00

Location: Retiro Room A/B, 1st Floor This interactive video session will emphasize atypical parkinsonian disorders, their presentation, evolution and treatment.

Niall Quinn

London, United Kingdom

Alberto Espay

Cincinnati, OH, USA

- 1. Describe the clinical differences between Parkinson's disease and atypical parkinsonism disorders
- 2. Identify the hallmarks of several atypical parkinsonism syndromes: Progressive supranuclear palsy, multiple system atrophy, Fragile X permutation syndrome, corticobasal degeneration
- 3. Describe the response patterns of atypical parkinsonism disorders to dopaminergic therapies as well as the experience with surgical interventions for these disorders



## Scientific Program | Wednesday, June 16 and Thursday, June 17, 2010

# Leadership Session: How to get involved in The *Movement* Disorder Society (MDS)

17:30 - 19:00

Location: La Pampa Room, 1st Floor

This session will focus on opportunities available within the MDS organization that can be assessed by MDS Members who want to be a part of the leadership. Anyone who is interested in learning more about The *Movement* Disorder Society is encouraged to attend. Faculty will include current members of the MDS Leadership as well as MDS committee chairs.

At the conclusion of this session, the attendees will achieve the following objectives:

- 1. To outline the organizational structure of the MDS, including its committees and subcommittees.
- 2. To identify the opportunities within the MDS that lead to further leadership within MDS.
- 3. To describe the attributes that lead to MDS involvement.

Supported by an unrestricted educational grant from Ipsen.

# Video Olympics Reception with hors d'oeuvres and drinks

19:00 - 20:00

Location: Libertador Foyer, 1st Floor

#### Video Olympics

20:00 - 23:00

Location: Libertador Room, 1st Floor

#### Masters of Ceremony:

Anthony Lang Kapil Sethi

#### The two teams of Experts:

Team 1: Team 2:

Victor Fung David John Burn
Federico Micheli Francisco Cardoso

W. 16 Oct. 1 Property of the P

Wolfgang Oertel Boem Jeon
C. Warren Olanow Stephen Reich

#### THURSDAY, JUNE 17, 2010

#### 5101 Plenary Session XI:

## Looking ahead: Novel biomarkers in Parkinson's disease

8:00 - 9:30

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Roger Barker

Cambridge, United Kingdom

Brit Mollenhauer Kassel, Germany

8:00 Overview with focus on proteomics

Jing Zhang *Seattle, WA, USA* 

8:30 Blood biomarkers

Clemens Scherzer

Cambridge, MA, USA

9:00 CSF biomarkers

Brit Mollenhauer

Kassel, Germany

At the conclusion of this session, participants should be better able to:

- 1. Discuss the value of biomarkers in diagnosis, differential diagnosis and monitoring of disease progression
- 2. Explain how biomarkers can be used to identify pre-clinical Parkinson's disease
- 3. Recognize the differences between biomarkers that are based upon unbiased methods (e.g., proteomics) and plausible candidate markers (e.g., dopamine or α-synuclein)

#### 5102 Controversies:



#### Controversies in Movement Disorders

10:00 - 11:00

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

Chairs: Niall Quinn

London, United Kingdom

Stanley Fahn

New York, NY, USA



#### 5102 Controversies:



10:00 Dopamine transporter imaging is useful in the diagnosis of Parkinson's disease

(YES)

Kenneth Marek

New Haven, CT, USA

10:15 (NO)

Eduardo Tolosa

Barcelona, Spain

Alzheimer's disease pathology is an important 10:30 contributor to the dementia of Parkinson's disease (YES)

> Jody Corey-Bloom La Jolla, CA, USA

10:45 (NO)

Dag Aarsland

Stavanger, Norway

At the conclusion of this session, participants should be better able to:

- 1. Discuss the uses and limitations of dopamine transporter imaging in the diagnosis of Parkinson's
- 2. Discuss the potential pathological causes of dementia in Parkinson's disease

### 5103 Blue Ribbon Highlights:

11:00 - 12:00

Location: Libertador Room, 1st Floor\*

Interpretación simultánea al Español disponible en esta sesión.

\*Retiro Room will be used as an overflow room. Spanish translation will only be available in the Libertador Room.

This session will provide a critical review of the best poster presentations by a panel of experts, highlighting the relevance, novelty, and quality of both clinical and basic research presented by the delegates.

Chair: Christopher Goetz

Chicago, IL, USA

11:00 Günther Deuschl

Kiel, Germany

11:30 Dennis W. Dickson

Jacksonville, FL, USA

At the conclusion of this session, participants should be better able to:

- 1. Describe major clinical discoveries that have been reported at the MDS 2010 Congress
- 2. Define major basic science discoveries that impact Movement Disorder neurology as reported at the MDS 2010 Congress
- 3. Identify clinical and scientific questions that remain unresolved because of insufficient or conflicting data reported at the MDS 2010 Congress

### Corporate Therapeutic Symposia

12:30 - 13:15

Please see pages 60-61 for more information.

#### Poster Session

#### Poster Session 4

Abstracts: 850-1067 Thursday, June 17

Poster Viewing: 9:00 - 16:00 Authors Present: 13:30 - 15:00

Location: San Telmo Room, Lobby Level

#### **Guided Poster Tours**

13:30 - 15:00

Location: All Guided Poster Tours will meet in the assigned poster room on the 24th Floor. A ticket is required for participation in each tour.

Atalaya Room:

Guided Poster Tour 13 – Parkinson's disease:

Clinical trials

Guided Poster Tour 14 – Parkinson's disease:

Sleep Disorders

Aguila Room:

Guided Poster Tour 15 - Surgical Therapy: Parkinson's disease

Guided Poster Tour 16 - Surgical Therapy: Other

Movement Disorders

For a complete listing of abstracts in each tour, please see pages 77-79.

#### 5205 **Parallel Session:** Focal dystonias



15:00 - 17:00

Location: Retiro Room C, 1st Floor

Chairs: Mark Hallett

Bethesda, MD, USA

Nelida Garretto

Buenos Aires, Argentina

Epidemiology and risk factors of focal dystonia 15:00

Alexis Elbaz Paris, France

15:40 Pathophysiology of focal dystonia

Hyder A. Jinnah

Atlanta, GA, USA

16:20 Focal dystonias: What are the therapeutic strategies?

Ryuji Kaji

Tokushima City, Japan



## 5205 Parallel Session: TIGKET —continue

At the conclusion of this session, participants should be better able to:

- Discuss the epidemiology and risk factors of focal dystonia
- 2. Discuss the genetics, animal models and neuroimaging in focal dystonia
- 3. Evaluate therapeutic strategies for focal dystonias

Supported by an unrestricted educational grant from Ipsen.

### 5206 Parallel Session:

## TICKET

# Postural abnormalities, camptocormia and other deformities: Causes and treatments

15:00 - 17:00

Location: La Pampa Room, 1st Floor

Chairs: Bastiaan Bloem

Nijmegen, Netherlands

Cecilia Peralta

Buenos Aires, Argentina

## 15:00 Clinical work-up: Recognition and differential diagnosis

Oscar Gershanik

Buenos Aires, Argentina

# 15:40 The pathophysiology of postural changes in parkinsonism and implication for clinical practice

Jean-Philippe Azulay Marseille, France

#### 16:20 Clinical management

Bastiaan Bloem

Nijmegen, Netherlands

At the conclusion of this session, participants should be better able to:

- Recognize the clinical presentation of postural disturbances in Parkinson's disease including their diversity and complexity
- 2. Describe the pathophysiology of postural disturbances in Parkinson's disease
- Indicate the treatment strategies available for the management of postural disturbances in Parkinson's disease

#### 5207 Parallel Session:



# Pain and sensory disturbances in movement disorders

15:00 - 17:00

Location: Catalinas Room, 1st Floor

Chairs: Lydia Vela

Madrid, Spain Cynthia Comella Chicago, IL, USA

15:00 Basal ganglia, sensory functions and pain

Yoshikazu Ugawa Fukushima, Japan

15:40 Pain and sensory function in dystonia

Cynthia Comella Chicago, IL, USA

16:20 Evaluation and management of pain in

parkinsonism

Lydia Vela

Madrid, Spain

At the conclusion of this session, participants should be better able to:

- 1. Discuss the role of basal ganglia in processing sensory information and pain
- 2. Describe the relationship between pain and the various forms of dystonia
- 3. Define the different types of pain in patients with Parkinson's disease in the various stages of the disease

## 5208 Parallel Session: TICKET

#### Nurses within the Movement Disorders team

15:00 - 17:00

Location: Golden Horn Room, 1st Floor

Chairs: Julie Carter

Portland, OR, USA

Susan Heath

San Francisco, CA, USA

15:00 International overview of nursing roles in

Movement Disorders teams

Carole Joint

Oxford, United Kingdom

15:40 Nursing opportunities in dealing with end of life

issues

Susan Heath

San Francisco, CA, USA

16:20 Nursing opportunities in dealing with caregiver strain

Julie Carter

Portland, OR, USA



#### 5208 Parallel Session: TICKET —continued

At the conclusion of this session, participants should be better able to:

- 1. Discuss the contribution made by nurses within Movement Disorder teams internationally and their influence on the patient and caregiver experience
- 2. Discuss the role of the Movement Disorder nurse in helping families navigate the conflicting needs of providing care while at the same time needing care
- 3. Discuss the contribution of the Movement Disorder nurse in the palliative care needs of patient and family as they transition from late stage disease to end of life

### 5209 Parallel Session:

## TICKET

### Dyskinesias in Parkinson's disease: New insights

15:00 - 17:00

Location: Libertador Room B, 1st Floor

Chairs: Giovanni Fabbrini

Rome, Italy

William Fernandez

Bogotá, Colombia

Dyskinesias as a model to understand basal ganglia 15:00

Jose Obeso Pamplona, Spain

Clinical update on levodopa induced dyskinesias in 15:40 Parkinson's disease

Giovanni Fabbrini

Rome, Italy

16:20 Treatment of dyskinesias in Parkinson's disease: Past achievements and new perspectives

Federico Micheli

Buenos Aires, Argentina

At the conclusion of this session, participants should be better able to:

- 1. Discuss how the study of dyskinesias can improve our understanding of the neuroanatomical, neurophysiological and neuropharmacological mechanisms of basal ganglia
- 2. Recognize the different types and risk factors of dyskinesias in Parkinson's disease
- 3. Discuss available and future therapeutic options for the treatment of dyskinesias

### 5210 Parallel Session:



#### Clinical Trials: Methodological issues

15:00 - 17:00

Location: Retiro Room A/B, 1st Floor

Chairs: Andrew Siderowf

Philadelphia, PA, USA

Cristina Sampaio

Lisbon, Portugal

15:00 Issues in clinical trial design in Parkinson's disease

Bernard Ravina Rochester, NY, USA

Outcome measures and rating scales in Parkinson's 15:40

disease trials: Motor and Non-motor

Andrew Siderowf Philadelphia, PA, USA

16:20 The use of surrogate imaging and other biomarkers

in clinical trials **Joel Perlmutter** 

St. Louis, MO, USA

At the conclusion of this session, participants should be better able to:

- 1. Discuss the clinical trial design in early and advanced Parkinson's disease
- 2. Discuss the role of surrogate imaging and other biomarker in clinical trials for Parkinson's disease
- 3. Describe the outcome measures and rating scales utilized in Parkinson's disease trials

#### Teaching Course: TICKET 5307



### Neuropharmacology of Parkinson's disease

15:00 - 17:00

Location: Libertador Room A, 1st Floor

Interpretación simultánea al Español disponible en esta sesión.

Chairs: Janis Miyasaki

Toronto, ON, Canada Fernando Alarcon

Quito, Ecuador

15:00 Basic pharmacology on the action of dopaminergic drugs (L-DOPA, DAs, MAO-B-inhibitors)

John G. Nutt

Portland, OR, USA

15:40 The start of treatment in the early phase - what is evidence-based?

Janis Miyasaki

Toronto, ON, Canada



#### 5307



16:20 Basic strategies for therapy in the advanced stage: What is evidence-based?

> Joaquim Ferreira Lisbon, Portugal

At the conclusion of this session, participants should be better able to:

- 1. Describe the therapeutic mechanisms of the dopaminergic drugs in parkinsonism
- 2. Discuss the options for treatment of Parkinson's disease patients in the early and late stages
- 3. Describe the main non-dopaminergic targets for treatment of Parkinson's disease

#### 5308 Teaching Course:



Update on tremor

15:00 - 17:00

Location: Libertador Room C, 1st Floor

Interpretación simultánea al Español disponible en esta sesión.

#### **Teaching Course:** 5308



Chairs: Donald Grosset Glasgow, Scotland Victor Fung

Sydney, Australia

Diagnosis and classification of tremor 15:00

> Donald Grosset Glasgow, Scotland

15:40 Scoring tremor severity – tools and rating scales

Roger Elble Springfield, IL, USA

16:20 Management of tremor

> Peter George Bain London, United Kingdom

At the conclusion of this session, participants should be better able to:

- 1. Describe clinical features of tremor in dystonia, essential tremor and Parkinson's disease
- 2. Describe diagnostic error rates identified in recent papers relating to tremor misdiagnosed as Parkinson's disease and vice versa
- 3. Describe approaches for the management of tremor

# Un Legado de Innovación

## Aplicado a la Estimulación Cerebral Profunda

La División de Neuromodulación de St. Jude Medical es pionera en el desarrollo de tecnologías para neuroestimulación. Con innovaciones como la administración de estimulación de corriente constante y el neuroestimulador más pequeño y duradero, hemos liderado la industria de la neuroestimulación durante más de treinta años. Ahora, estamos aplicando nuestras plataformas comprobadas para brindar nuevas opciones en controlar los síntomas de la enfermedad de Parkinson. Si desea saber más sobre cómo estamos impulsando la innovación en la ECP, visite el stand de St. Jude Medical.

Sepa de qué se trata el control. MDS: Stand 1.



No se encuentra disponible en todos los mercados. El producto está aprobado en la UE y tiene la aprobación de la Administración de Productos Terapéuticos (Therapeutic Goods Administration, TGA) de Australia

Indicaciones: Los sistemas de estimulación cerebral profunda (ECP) de la División de Neuromodulación de St. Jude Medical están indicados para la estimulación unilateral o bilateral del tálamo, el globo pálido interno o el núcleo subtalámico en pacientes con la enfermedad de Parkinson que responden al tratamiento con levodopa.

ST. JUDE MEDICAL, el símbolo con nueve cuadrados y MORE CONTROL. LESS RISK. son marcas registradas y marcas de servicio de St. Jude Medical, Inc. y sus empresas relacionadas. ©2010 St. Jude Medical, Inc. Todos los derechos reservados



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4210



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**Ruth Walker** 

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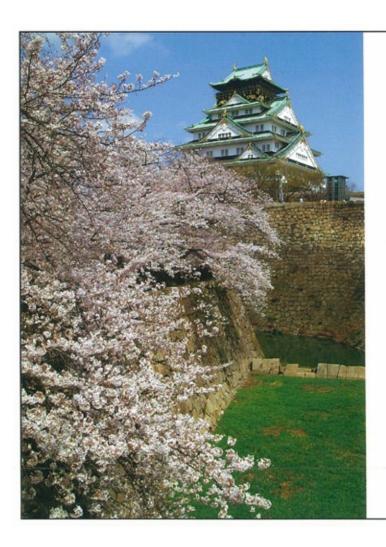
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Seattle, WA, USA 5101



For Parkinson's Disease

藤本製薬グループ

エフピー

FP Pharmaceutical Corp. is

pleased to be a supporter of the 14th International Congress of Parkinson's Disease and Movement Disorders.

Buenos Aires, Argentina June 13-17, 2010

We are dedicated to distribution of Selegiline in Japan.

FP Pharmaceutical Corp.

1-3-40 Nishiotsuka, Matsubara, Osaka, 580-0011, Japan



## **Corporate Therapeutic Symposia**

#### Boehringer Ingelheim GmbH

Monday, June 14

13:00 - 14:00

Location: Libertador Room, 1st Floor Advances in Parkinson's disease treatment: Improving our patients' quality of life

Chair: Francisco Cardoso

Belo Horizonte, Brazil

Introduction

Francisco Cardoso Belo Horizonte, Brazil

Depressive symptoms in PD—A new treatment

approach? H. Reichmann Dresden, Germany

Clinical advantages of Once-Daily Pramipexole

Peter Jenner

London, United Kingdom

Treatment compliance in Parkinson's disease and

quality of life: What is the link?

Pablo Martínez-Martin

Madrid, Spain

Discussion & close

#### Merck Serono S.A.

#### Monday, June 14

13:00 - 14:00

Location: Retiro Room, 1st Floor

Dopaminergic and non-dopaminergic systems: The tango of Parkinson's disease

Chairs: Oscar Gershanik

Buenos Aires, Argentina Anthony Schapira

London, United Kingdom

Welcome and introduction

Oscar Gershanik

Buenos Aires, Argentina

Can Dyskinesias be treated via the non-

dopaminergic system?

Robert Hauser Tampa, FL, USA

What is the interplay between dopaminergic and non-dopaminergic systems in cognition?

Paolo Barone Napoli, Italy

Future therapies targeting the non-dopaminergic

system

Anthony Schapira

London, United Kingdom

Questions

### Teva Pharmaceutical Industries Ltd., Teva Neuroscience Inc. and H. Lundbeck A/S

Tuesday, June 15

12:30 - 13:30

Location: Libertador Room, 1st Floor

Advances in Parkinson's disease: Early treatment and earlier diagnosis

Chair: C. Warren Olanow

New York, NY, USA

Introduction

C. Warren Olanow New York, NY, USA

The ADAGIO trial: Translating results into clinical

significance Olivier Rascol Toulouse, France

Timing of treatment initiation in Parkinson's disease

Anthony Schapira London, United Kingdom

The diagnosis and treatment of pre-motor

Parkinson's disease Matthew Stern Philadelphia, PA, USA

Question and Answer with panel

#### Solvay Pharmaceuticals GmbH

Solvay Pharmaceuticals is now Abbott

Tuesday, June 15 12:30 - 13:30

Location: Retiro Room, 1st Floor

State of the field in Levodopa delivery: Assessing preclinical and clinical evidence

Chair: Eduardo Tolosa

Barcelona, Spain

Welcome and opening remarks

Eduardo Tolosa Barcelona, Spain

Levodopa uptake: Implications from emerging pre-

clinical data Ionathan Brotchie Toronto, ON, Canada

LCIG Levodopa delivery: Lessons from clinical

trials

Werner Poewe Innsbruck, Austria Question and answer



## **Corporate Therapeutic Symposia**

#### GlaxoSmithKline

Wednesday, June 16

12:30 - 13:30

Location: Libertador Room, 1st Floor

Continuous drug delivery in Parkinson's disease:

Current evidence

Chair: Jose Obeso

Pamplona, Spain

Introduction and evidence from pre-clinical research

Jose Obeso Pamplona, Spain

Improving day and night-time symptoms

Heinz Reichmann Dresden, Germany

Addressing long term patient outcomes

Ray Watts

Birmingham, AL, USA

#### **UCB Pharma SA**

Wednesday, June 16

12:30 - 13:30

Location: Retiro Room, 1st Floor

Broadening perspectives in Parkinson's disease

Chair: K. Ray Chaudhuri

London, United Kingdom

Neurobiology of dopamine: PD and beyond

Mehdi Tafti

Lausanne, Switzerland

The neglected side of PD: Non-motor Symptoms

Olivier Rascol Toulouse, France

Current PD treatment & beyond

K. Ray Chaudhuri London, United Kingdom

#### Chelsea Therapeutics, Inc.

Thursday, June 17

12:30 - 13:15

Location: Libertador Room, 1st Floor

Norepinephrine (NE) deficiency in Parkinson's disease (PD): Scientific insights and therapeutic

opportunities

Chairs: Horacio Kaufmann New York, NY, USA Joseph Jankovic Houston, TX, USA

NE depletion in the pathophysiology of motor and

non-motor dysfunction in PD

Peter LeWitt Southfield, MI, USA

Northera<sup>™</sup> (droxidopa): An orally available Norepinephrine replacement therapy for the treatment of Neurogenic Orthostatic Hypotension

(Ph II & III results)

Phillip Low

Rochester, MN, USA

Safety of Northera treatment across multiple studies & indications (Ph II & III studies to date, and

Japanese Post marketing surveillance data)

Christopher Mathias

London, United Kingdom

Question and answer





St. Jude Medical Neuromodulation Division is a pioneer in developing neurostimulation technologies. With innovations such as constant current stimulation delivery and the smallest, longest-lasting neurostimulator, we have been leading the neuromodulation industry for over thirty years. We are now applying our proven platforms to provide new options for managing the symptoms of Parkinson's disease. To learn more about how we are driving innovation in DBS, visit the St. Jude Medical booth.

**Experience Control. MDS booth 1.** 



Not available in all markets, Product has EU approval and TGA (Australia) approval.

Indications: St. Jude Medical Neuromodulation Division deep brain stimulation (DBS) systems are indicated for use in unilateral or bilateral stimulation of the thalamus, internal globus pallidus (GPi), or subthalamic nucleus (STN) in patients with levodopa-responsive Parkinson's disease.

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### **Exhibitor Information**

#### **EXHIBIT HALL**

Location: San Isidro Room, Lower Level

Please allow adequate time in your daily schedule to visit the Exhibit Hall. The exhibition is an integral component of your International Congress experience, offering you the opportunity to speak with representatives of companies providing services or marketing products directly related to Movement Disorders.

#### Exhibit Hall hours are as follows:

Monday, June 14	9:30 – 17:30
Tuesday, June15	9:30 - 17:30
Wednesday, June 16	9:30 - 17:30
Thursday, June 17	9:30 - 15:00

#### **EXHIBITOR REGISTRATION**

Location: Libertador Foyer, 1st Floor

Exhibitors must register and pick up their badge at the Exhibitor Registration Desk.

#### Exhibit Registration Desk Hours are as follows:

Saturday, June 12	16:00 - 20:00
Sunday, June 13	7:00 - 19:00
Monday, June 14	7:00 – 19:00
Tuesday, June 15	7:00 - 19:00
Wednesday, June 16	7:00 - 19:00
Thursday, June 17	7:00 – 16:00

#### **EXHIBITOR BADGE POLICY**

Admission to the Exhibit Hall will be by name badge only. Security guards will monitor Exhibit Hall entrances for proper identification. Exhibit stand personnel must show an official MDS exhibitor name badge in order to gain access to the Exhibit Hall during installation, show, or dismantlement hours.

Exhibitor Personnel Badge (Yellow): Allows admittance to the Exhibit Hall only.

#### **ENDORSEMENT DISCLAIMER**

Products and services displayed in the Exhibit Hall or advertised in the program occur by contractual business arrangements between MDS and participating companies and organizations. These arrangements do not constitute nor imply an endorsement by MDS of these products and services.





#### **ALLERGAN, INC**

2525 Dupont Drive Irvine, CA 92616

USA

Telephone: +1 714-246-4500

Fax: +1 714-246-4500 Web site: www.allergan.com

#### Booth #: 16

Allergan is a global company with more than 8,000 employees and a presence in more than 100 countries. BOTOX (onabotulintoxins) I one of the world's most versatile medicines, to improve the quality of life in patients who suffer a variety of serious or debilitating disorders.

# ASOCIACIÓN CIVIL ENFERMEDAD DE PARKINSON ARGENTINA (ACEPAR)

Corrientes 1785 Piso 3° B

Ciudad Autonoma de Buenos Aires 1007

Argentina

Telephone: +54 11 4393 9422 Fax: +54 11 4326 0390

Web site: www.parkinsonargentina.org.ar

#### Table #: G

ACEPAR was created in 2002. Our work has been focused in disseminating information, counseling, stimulation and protection to people with Parkinson's, their family and caregivers in order to encourage them to support the disease. We also give physical and psychological rehabilitation and promote investigation. All of our activities are carried out by volunteers.

# ASOCIACIÓN LEWY BODY ARGENTINA (ALBA)

Viamonte 2909 9 B Capital Federal

Buenos Aires 1213ACD

Argentina

Telephone: +54 911 6135 2455

Fax: +54 911 4959 0322

Web site: www.lewyargentina.org

#### Table #: C

ALBA is a civil association, non-profit, dedicated to the research, diagnosis and treatment of Lewy Body Disease. Our goals are directed towards the development of scientific research on this entity, the advice to health professionals, patients, their families and caregivers, as well as the dissemination of knowledge of it among the medical community and the general population.

#### **BOEHRINGER INGELHEIM GMBH**

Binger Strasse 173

Ingelheim am Rhein 55216

Germany

Telephone: +49 6132 770 Fax: +49 6132 720

Web site: www.boehringer-ingelheim.com

#### Booth #: 09

The Boehringer Ingelheim group is one of the world's 20 leading pharmaceutical companies. Headquartered in Ingelheim, Germany, it operates globally with 138 affiliates in 47 countries and 41,300 employees. Since it was founded in 1885, the family-owned company has been committed to researching, developing, manufacturing and marketing novel products of high therapeutic value for human and veterinary medicine.

In 2008, Boehringer Ingelheim posted net sales of 11.6 billion euro while spending one fifth of net sales in its largest business segment Prescription Medicines on research and development. For more information please visit www.boehringer-ingelheim.com

#### **BRITANNIA PHARMACEUTICALS LTD**

Park View House 65 London Road

Newbury, Berkshire RG14 1JN

United Kingdom

Telephone: +44 1635 568400

Fax: +44 1635 568401

Web site: www.britannia-pharm.com

#### Booth #: 04

Active for nearly 30 years with UK movement disorder specialists and patient interest groups, BPL focuses on improving treatment of patients with complex PD. APOgo presentations are available in many countries through the efforts of Distribution or Licensing Partners. Additionally, BPL has developed non-opiate based therapeutics

Additionally, BPL has developed non-opiate based therapeutics to assist in opiate detoxification and withdrawal. Other developments include advances in the areas of nasal drug delivery, in wound healing and in respiratory disorders.



### CLUB ARGENTINA DE LARINGECTOMIZADOS CORDOBA (CALCOR)

Street Montevideo Nº 765 Department 6º "B" Córdoba 5000 Argentina

Telephone: +54 351 425 5329

#### Table #: F

Club Argentina de Laringectomizados Cordoba (CALCOR) was founded to disseminate information to and educate the public regarding products, technology and treatment. More recently, it has expanded this service to include people with neurological disorders including Parkinson's disease, CVA and movement disorders.

# EUROPEAN PARKINSON'S DISEASE ASSOCIATION (EPDA)

4 Golding Road Sevenoaks, Kent TN13 3NJ United Kingdom

Telephone: +44 1732 457 683 Fax: +44 1732 457 683 Web site: www.epda.eu.com

#### Table #: A

EPDA is a non-political, non-religious and non-profit making organization with a membership of 43 European Organizations and 7 Associate Members concerned with the health and welfare of people with Parkinson's and their families. EDPDA Partners extensively with European patient and neurological organizations, European Commission, WHO, World Federation of Neurology and treatment industry.

#### FHC, INC.

1201 Main Street Bowdoin, ME 04287 USA

Telephone: +1 207-666-8190 Fax: +1 207-666-8292 Web site: www.fh-co.com

#### Booth #: 10

microTargeting™ products advance cranial targeting worldwide: our **STar™ Drive System** precisely positions **D.ZAP microelectrodes** to provide exceptional, consistent recording signals. The patient-customized, frameless stereotactic **Platform** allows surgical planning anytime. The powerful, new **Guideline 4000 LP+** provides multichannel recording and stimulation in a portable package. Comprehensive technical support is available 24/7!

#### **GLAXOSMITHKLINE**

980 Great West Road Brentford, Middlesex TW8 9GS United Kingdom Telephone: +44 20 8047 5000

Web site: www.gsk.co.uk

### Booth #: 13

GlaxoSmithKline – one of the world's leading research-based pharmaceutical and healthcare companies – is committed to improving the quality of human life by enabling people to do more, feel better and live longer.

GSK makes medicines, vaccines and consumer healthcare products. Its business accounts for 4.8% of the world's pharmaceutical market.

GSK provides products, money, time and equipment to nonprofit organizations to help improve health and education in under-served communities. It focuses on programs that are innovative, sustainable, and bring real benefits to those most in need



#### **IPSEN**

65 Quai Georges Gorse Boulogne Billancourt 92650

France

Telephone: +33 1 58 33 5000 Fax: +33 1 58 33 5001 Web site: www.ipsen.com

#### Booth #: 11

Ipsen is an innovation-driven international specialty pharmaceutical group with over 20 products on the market and a total worldwide staff of nearly 4,200. Its development strategy is based on its activities in specialty medicine, growth drivers in targeted therapeutic areas (oncology, endocrinology, neurology and haematology) combined with primary care products.

#### MEDTRONIC, INC.

710 Medtronic Parkway Minneapolis, MN 55432 USA

Telephone: +1 800-328-2518 Web site: www.medtronic.com

#### Booth #: 15

At Medtronic, we're committed to *Innovating for life* by pushing the boundaries of medical technology and changing the way the world treats chronic disease. Each year, 6 million patients benefit from our technology. Medtronic DBS Therapy has been used in more than 75,000 patients for the treatment of Parkinson's disease, essential tremor and dystonia.

#### MERCK SERONO S.A.

9, Chemin des Mines Geneva 1202

Switzerland

Telephone: +41 22 414 3000 Web site: www.merckserono.com

#### Booth #: 12

Merck Serono has a long-term commitment to the development of innovative treatments to help manage neurological disorders such as Multiple Sclerosis (MS) and Parkinson's disease (PD). Through groundbreaking science and patient-friendly drug delivery systems, we help patients with neurodegenerative diseases to live fuller and more satisfying lives. Merck Serono conducts extensive research in the area of neurodegenerative diseases in order to offer new therapeutic options to patients with serious unmet medical needs.

#### **MERZ PHARMACEUTICALS GMBH**

Eckenheimer Landstrasse 100 Frankfurt 60318

Germany

Telephone: +49 69 1503-0 Fax: +49 69 1503 722 Web site: www.merz.com

#### Booth #: 08

Merz Pharmaceuticals is a research based pharmaceutical company, headquartered in Frankfurt, Germany, focused on unmet needs in neurology and related diseases. It has developed memantine for moderate to severe Alzheimer's disease. Recently, it launched Xeomin\*, a botulinum toxin free from complexing proteins. Currently, Merz is conducting a phase III development program of neramexane, a dual NMDA and alpha9/10 nicotinic receptor antagonist, for the treatment of Tinnitus.

#### **NOVARTIS PHARMA AG**

Forum 1, Novartis Campus

Basel 4056 Switzerland

Telephone: +41 61 324 1111 Fax: +41 61 324 8001 Web site: www.novartis.com

#### Booth #: 06

Novartis AG provides healthcare solutions that address the evolving needs of patients and societies. Focused solely on healthcare, Novartis offers a diversified portfolio to best meet these needs: innovative medicines, cost-saving generic pharmaceuticals, preventive vaccines, diagnostic tools and consumer health products. Headquartered in Basel, Switzerland, Novartis Group companies employ approximately 99,000 full-time-equivalent associates and operate in over 140 countries around the world.



#### ORION CORPORATION ORION PHARMA

Orionintie 1 Espoo 02101 Finland

Telephone: +358 10 4261 Web site: www.orion.fi

#### Booth #: 06

Orion Corporation is a Finnish listed company which is dedicated to treating and preventing disease by discovery and developing innovative medicinal treatments. Orion is the originator of Stalevo® (levodopa, carbidopa, entacapone) for Parkinson's disease.

#### SOLVAY PHARMACEUTICALS GMBH

Solvay Pharmaceuticals is now Abbott Hegenheimermattweg 127 Allschwil 4123

Switzerland

Telephone: +41 61 487 0622 Fax: +41 61 487 0494

Web site: www.solvaypharmaceuticals.com

#### Booth #: 07

Abbott is a global, broad-based health care company devoted to the discovery, development, manufacture and marketing of pharmaceuticals and medical products, including nutritionals, devices and diagnostics. The company employs approximately 83,000 people and markets its products in more than 130 countries. On February 16, 2010, Abbott completed the acquisition of Solvay Pharmaceuticals.

# ST. JUDE MEDICAL NEUROMODULATION DIVISION

Neuromodulation Division Headquarters 6901 Preston Road Plano, Texas 75024 USA

Telephone: +1 972 309 8000 Fax: +1 972 309 8150 Web site: www.sjm.com

#### Booth #: 01

St. Jude Medical develops medical technology designed to put more control into the hands of those who treat neurological, cardiac and chronic pain patients worldwide. SJM has provided leading, neurostimulation therapy innovations for 30 years. The company is dedicated to advancing the practice of medicine by reducing risk wherever possible and contributing to successful patient outcomes.

#### TEVA PHARMACEUTICAL INDUSTRIES LTD.

5 Basel Street Petah Tikva 49131

Israel

Telephone: +972 3 926 7607 Fax: +972 3 926 7878

Web site: www.tevapharm.com

#### Booth #: 14

Teva Pharmaceutical Industries Ltd. is a global pharmaceutical company specializing in the development, production and marketing of generic and proprietary branded pharmaceuticals as well as active pharmaceutical ingredients.

Azilect®, Teva's innovative product is indicated for the treatment of Parkinson's disease, both as initial monotherapy and as an adjunct to levodopa in moderate to advanced stages of the disease.

#### H. LUNDBECK A/S

Ottiliavej 7-9 Valby 2500 Denmark

Web site: www.lundbeck.com

#### Booth #: 14

H. Lundbeck A/S is an international pharmaceutical company dedicated in research and development of new drugs for treatment of CNS disorders including Parkinson's disease and Huntington's disease (HD). Research has been the foundation of Lundbeck activities for more than 50 years. Lundbeck launched Azilect\* (rasagiline) for the treatment of Parkinson's disease in 2005.

#### **TEVA NEUROSCIENCE**

901 E. 104th Street, Suite 900 Kansas City, MO 64131

USA

Web site: www.tevaneuroscience.com

#### Booth #: 14

Teva Neuroscience is dedicated to the investigation and development of innovative products and services that address the health management needs within the areas of multiple sclerosis, Parkinson's disease and other neurological disorders. For more information, please visit www. TevaNeuroscience.com



#### TREMOR ACTION NETWORK

PO Box 5013

Pleasanton, CA 94566-0513

USA

Telephone: +1 510-681-6565

Fax: +1 925-369-0485

Web site: www.tremoraction.org

#### Table #: B

TremorAction.org connects the bench to Tremor patients through awareness, advocacy and research. TAN DVD in English and Español and other resources are available. Stop by our booth to discuss services we provide.

#### **UCB PHARMA SA**

Allée de la Recherche 60 1070 Brussels Belgium

Telephone: +32 2 559 9999 Fax: +32 2 559 9900 Web site: www.ucb.com

#### Booth #: 05

UCB, Brussels, Belgium (<a href="www.ucb.com">www.ucb.com</a>) is a biopharmaceutical company dedicated to the research, development and commercialization of innovative medicines with a focus on the fields of central nervous system and immunology disorders. Employing approximately 10 000 people in over 40 countries, UCB generated revenue of EUR 3.6 billion in 2008. UCB is listed on Euronext Brussels (symbol: UCB).

#### WILEY-BLACKWELL

350 Main Street Malden, MA 02148 USA

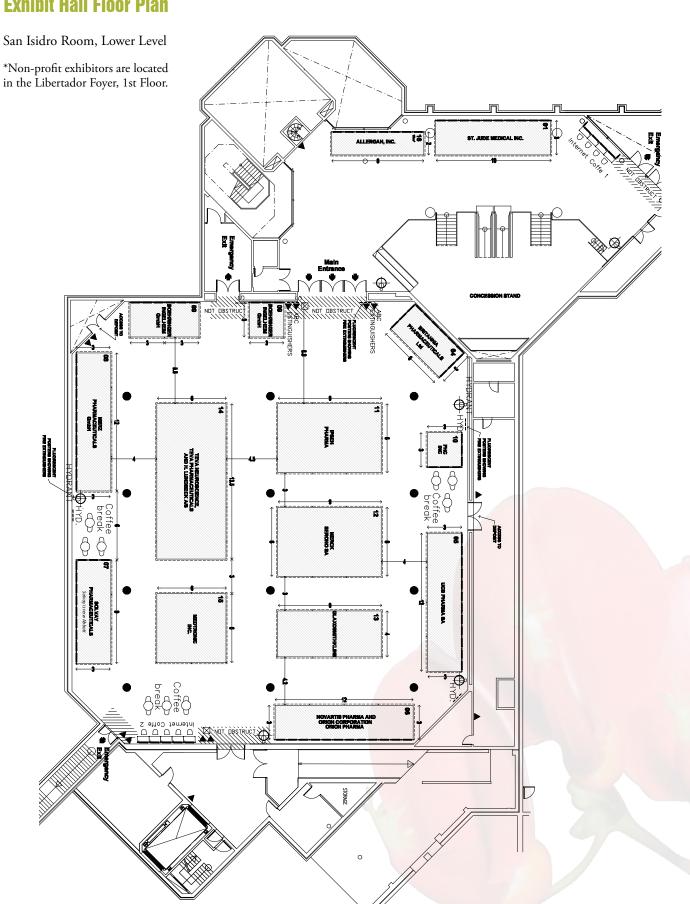
Telephone: +1 800-532-5954 Fax: +1 781-338-8552 Web site: www.wiley.com

#### Table #: E

Wiley-Blackwell is the international scientific, technical, medical and scholarly publishing business of John Wiley & Sons, with strengths in every major academic and professional field and partnerships with many of the world's leading societies. We are honored to have been the Publisher of *Movement* Disorders since 2001. For more information, please visit www.wileyblackwell.com or www.interscience.wiley.com.



## **Exhibit Hall Floor Plan**





# **EFNS BUDAPEST 2011**





Organised in co-operation with the Hungarian Society of Neurology and Psychiatry



Co-sponsored by the European Section of the Movement Disorder Society (MDS-ES)



Co-sponsored by the European Headache Federation (EHF)



Co-sponsored by the World Federation of Neurology (WFN)





#### **Guided Poster Tour 1 – Neuroimaging**

Atalaya Room, 24th Floor 14:00 - 15:30 Monday, June 14

Tour Leaders: Louis Tan, Singapore; Klaus Seppi, Innsbruck, Austria

- Reduced dopamine transporter density in the ventral striatum of PD patients with impulse control disorders
   R. Cilia, J.H. Ko, S.S. Cho, T. van Eimeren, G. Marotta,
   G. Pellecchia, G. Pezzoli, A. Antonini, A.P. Strafella (Toronto, Ontario, Canada)
- 609 Blinded analysis of conventional MR images in a cohort of pathologically confirmed parkinsonian illnesses at the QSBB L.A. Massey, C.D. Micallef, D.C. Paviour, S.S. O'Sullivan, D.J. Burn, J.L. Holton, T.A. Revesz, A.J. Lees, N.C. Fox, H.R. Jager (London, United Kingdom)
- 616 Serotonin and fatigue in Parkinson's disease. An exploratory PET study
  N. Pavese, V. Metta, S.K. Bose, K.R. Chaudhuri, D.J. Brooks (London, United Kingdom)
- 596 Olfactory impairment in early Parkinson's disease and white matter abnormalities in central olfactory areas. A voxel-based diffusion tensor imaging study
  N. Ibarretxe-Bilbao, C. Junque, M.J. Marti, F. Valldeoriola,
  P. Vendrell, N. Bargallo, M. Zarei, E. Tolosa (Barcelona, Spain)
- Hippocampal atrophy and ventricular enlargement in newly diagnosed Parkinson's disease; results from the Norwegian ParkWest study
   M.K. Beyer, K. Hwang, S. Babakchanian, K.S. Bronnick, J.P. Larsen, O.B. Tysnes, J.L. Cummings, J.H. Morra, C. Y, L.G. Apostolova (Stavanger, Norway)
- Magnetic susceptibility of substantia nigra in Parkinson's disease: A 7T in vivo MRI study
   A. Lotfipour, S. Wharton, V. Gontu, S. Schwartz, A. Schafer, R. Bowtell, P. Gowland, D.P. Auer, N. Bajaj (Nottingham, United Kingdom)
- Subthalamic-cortical resting state (fMRI-) functional connectivity is increased in early Parkinson's disease
   Baudrexel, T. Witte, J.C. Klein, H. Steinmetz,
   R. Deichmann, R. Hilker (Frankfurt am Main, Germany)
- How do the basal ganglia generate resting tremor in Parkinson's disease?
   R.C. Helmich, M. Jansen, W.J. Oyen, I. Toni, B.R. Bloem (Nijmegen, Netherlands)
- Microstructural white matter differences between dementia with Lewy bodies and Parkinson's disease with dementia C. Sanchez-Castaneda, R. Rene, J. Campdelacreu, J. Gascon, M. Calopa, S. Jauma, M. Juncadella, C. Junque (Barcelona, Spain)

DTI and probabilistic tractography of the premotor to basal ganglia connections in healthy subjects and patients with Parkinson's disease

S. Groppa, T. Bustorf, C. Riedel, J. Volkmann, J. Herzog (Kiel, Germany)

### Guided Poster Tour 2 – Parkinson's disease: Neuropharmacology

Atalaya Room, 24th Floor 14:00 - 15:30 Monday, June 14

Tour Leaders: Susan Fox, *Toronto, ON, Canada;* Carlos Colosimo, *Rome, Italy* 

- 689 Long-term study on clinical benefits and quality-of-life of intraduodenal levodopa in routine care for a cohort of treatment-naïve patients with advanced Parkinson's disease A. Johansson, N. Dizdar, T.B. Hauge, B. Holmberg, R. Jansson, J. Linder, H. Widner, S.E. Palhagen (Uppsala, Sweden)
- 696 Trehalose ameliorates dopaminergic and tau pathology in parkin deleted/tau overexpressing mice through autophagy activation

  J.A. Rodriguez-Navarro, M.J. Casarejos, L. Rodriguez,
  A. Gomez, R.M. Solano, J. Perucho, A.M. Cuervo,
  J.G. Yebenes, M.A. Mena (Madrid, Spain)
- 707 In vivo evaluation of adenosine a2A receptor availability in Parkinson's disease patients with and without levodopa induced dyskinesias studied with [11C]SCH442416 PET A.F. Ramlackhansingh, S.K. Bose, I. Ahmed, F.E. Turkheimer, N. Pavese, D.J. Brooks (London, United Kingdom)
- 677 COMT Val(158)Met polymorphism determines entacapone efficacy on L-DOPA pharmacodynamics and pharmacokinetics in Parkinson's disease
  J.-C. Corvol, C. Bonnet, F. Charbonnier-Beaupel, A.-M. Bonnet, E. Roze, A. Hartman, L. Lacomblez, J. Costentin, J.-S. Hulot, M. Vidailhet (Paris, France)
- 713 Transdermal nicotinotherapy: An ongoing study in patients with advanced Parkinson's disease
  F. Grapin, G. Villafane, P. Cesaro, P. Maison, E. Itti (Creteil, France)
- 703 Adverse drug reactions to dopaminergic agonists: A study in the French pharmacovigilance database
  S. Perez-Lloret, E. Bondon-Guitton, O. Rascol, J.L. Montastruc (Toulouse, France)
- 680 Safinamide reduces levodopa-induced dyskinesia in MPTPlesioned primates while prolonging anti-parkinsonian efficacy L. Gregoire, A. Roach, T. Di Paolo (Quebec, PQ, Canada)
- Can inhibition of fatty acid amide hydrolase (FAAH) provide a useful approach to reduce impulse control disorder and dopamine dysregulation syndrome in Parkinson's disease? T.H. Johnston, P. Huot, S.H. Fox, J. Wakefield, K. Sykes, W. Bartolini, G.T. Milne, J.P. Pearson, J.M. Brotchie (Toronto, Ontario, Canada)



5-HT2A receptor levels are increased in dyskinetic, MPTP-lesioned macaques
 P. Huot, T.H. Johnston, L. Winkelmolen, S.H. Fox,

J.M. Brotchie (Toronto, Ontario, Canada)

Mu-selective, but not non-selective, opioid receptor antagonism reduces L-DOPA induced dyskinesia in the MPTP macaque model of Parkinson's disease S.H. Fox, J.B. Koprich, T.H. Johnston, A. Goodman, B. Le Bourdonnec, R.E. Dolle, R.N. DeHaven, D.L. DeHaven,

#### Guided Poster Tour 3 – Parkinson's disease: Behavioral disorders

P.J. Little, J.M. Brotchie (Toronto, Ontario, Canada)

Aguila Room, 24th Floor 14:00 - 15:30 Monday, June 14

Tour Leaders: David John Burn, Newcastle upon Tyne, United Kingdom; Erik Wolters, Amsterdam, Netherlands

- 283 The relationship between mood and motor phenotype in Parkinson's disease (PD)
  - D.J. Burn, S. Landau, J.V. Hindle, M. Samuel, K.C. Wilson, C.S. Hurt, R.G. Brown (Newcastle upon Tyne, Tyne and Wear, United Kingdom)
- Testing an aetiological model of visual hallucinations in
   Parkinson's disease
   D. Gallagher, A. Lees, A. Schrag (London, United Kingdom)
- Ophthalmic pathology and visual hallucinations (VH) in PD
   D. Gallagher, A. Spratt, A. Shah, F. Bremner, C. Davey, A. Lees,
   A. Schrag (London, United Kingdom)
- White matter lesions and depression in patients with Parkinson's disease
   I.N. Petrovic, N. Dragasevic, M. Svetel, V. Markovic, A. Tomic, M. Jecmenica-Lukic, T. Stojkovic, E. Stefanova, V.S. Kostic (Belgrade, Serbia, Serbia)
- 296 Increased risk of developing depression for patients with Parkinson's disease (PD): A retrospective cohort study Y.-T. Hsu, Y.-W. Yang, C.-C. Liao, C.-Y. Hsu, C.-H. Tsai, F.-C. Sung (Taichung, Taiwan)
- 302 'Walkabout': An unrecognized compulsive behavior in Parkinson's disease
   B. Pascual-Sedano, A. Gironell, C. Garcia-Sanchez,
   A. Campolongo, J. Pagonabarraga, J. Kulisevsky (Barcelona, Spain)
- 309 Comparative neuropsychological profile of pathological gambling, hypersexuality and compulsive eating in Parkinson's disease
  - G. Santangelo, C. Vitale, K. Longo, F. Verde, M. Rocco, A. Cozzolino, M. Picillo, M. Amboni, P. Barone (Naples, Italy)

- 312 Behavioral, neuropsychiatric and cognitive disorders in parkinsonian patients with and without motor complications P. Solla, A. Cannas, C. Serra, L. Lavra, E. Costantino, F. Di Stefano, V. Piras, G. Floris, F. Marrosu, M.G. Marrosu (Monserrato, Cagliari, Italy)
- 292 Frequency and type of impulse control disorders occurring in Parkinson's disease patients treated with dopamine agonists in a 2 year retrospective study
  A. Hassan, J.H. Bower, N. Kumar, J.Y. Matsumoto,
  R.D. Fealey, K.A. Josephs, J.E. Ahslkog (Rochester, Minnesota,

#### **Guided Poster Tour 4 – Tics/Stereotypies**

Aguila Room, 24th Floor 14:00 - 15:30 Monday, June 14

Tour Leaders: Kailash Bhatia, *London, United Kingdom;* Aikaterina Kompoliti, *Chicago, IL, USA* 

- 1028 Double-blind controlled randomized study of the use of levetiracetam to treat tics in children and adolescents with Tourette syndrome
  - Y.M. Awaad, A.M. Michon, S. Minark, T. Rizk (Riyadh, Saudi Arabia)
- Sensitivity to sensory stimuli is a common feature of Tourette syndrome, and is not a result of reduced detection threshold B.A. Belluscio, M. Hallett (Bethesda, Maryland, USA)
- Cortical excitability in Tourette patients differential effects of voluntary movements and median nerve stimulation
   Franzkowiak, B. Pollok, K. Biermann-Ruben, J. Paszek,
   G. Thomalla, A. Muenchau, A. Schnitzler (Duesseldorf, Germany)
- Pitfalls in deep brain stimulation for treatment-refractory
   Tourette syndrome
   D. Servello, M. Sassi, S. Defendi, A. Brambilla, M. Porta
   (Milano, Italy)
- 1038 Is it a tic? Twenty seconds to make a diagnosis J. Paszek, B. Pollok, K. Biermann-Ruben, K.R. Mueller-Vahl, V. Roessner, G. Thomalla, M.M. Robertson, M. Orth, A. Schnitzler, A. Muenchau (Duesseldorf, Germany)
- Aripiprazole use in TS: A two year retrospective experience in
   patients
   J.J. Juncos, G.J. Revuelta (Atlanta, Georgia, USA)
- 1030 Quantitative wearable monitoring of Tourette motor tics
   M. Bernabei, E. Preatoni, M. Mendez, L. Piccini, M. Porta,
   M. Sassi, D. Servello, G. Andreoni (Milano, Italy)
- 1031 Dystonic tics in patients with primary tics disorders J. Damasio, M.J. Edwards, A. Alonso, P. Scwingenschuh, K.P. Bhatia (London, United Kingdom)
- 1037 Major determinants of psychosocial and occupational disability in adult Tourette syndrome D.G. Lichter, S.G. Finnegan (Buffalo, New York, USA)



1035 Stereotypies and repetitive motor behavior in patients with Alzheimer's disease who present spared vs. impaired executive functioning

E. Gleichgerrcht, A. Chade, M. Roca, T. Torralva, F. Manes (Capital Federal, Buenos Aires, Argentina)

#### **Guided Poster Tour 5 – Basic Science**

Atalaya Room, 24th Floor 13:30 - 15:00 Tuesday, June 15

Tour Leaders: Etienne Hirsch, *Paris, France;* Marie-Françoise Chesselet, *Los Angeles, CA, USA* 

- 43 Comprehensive pathological analysis in MPTP-treated macaques reveal widespread synucleopathy and tauopathy A. Vital, Q. Li, M.-H. Canron, P. Ravenscroft, M. Hill, E. Bezard (Bordeaux, France)
- 69 The PINK1/parkin-pathway links ubiquitin to damaged mitochondria for selective autophagy
  S. Geisler, K.M. Holmström, D. Skujat, F.C. Fiesel,
  O.C. Rothfuss, P.J. Kahle, W. Springer (Tuebingen, Germany)
- 47 Reduced basal autophagy and impaired mitochondrial dynamics due to loss of Parkinson's disease-associated protein DJ-1
  G. Krebiehl, S. Ruckerbauer, L.F. Burbulla, N. Kieper, B. Maurer, J. Waak, H. Wolburg, Z. Gizatullina, F.N. Gellerich, D. Woitalla, O. Riess, P.J. Kahle, T. Proikas-Cezanne, R. Krüger (Tubingen, Germany)
- 73 A new DBS clinical target for Parkinson's disease (PD) mapping the caudal zona incerta (ZI)
  M.G. Thomas, T. Chipungu, C. Watson, C.R.P. Lind (Perth, Western Australia, Australia)
- Role of tau oligomers in Parkinson's disease and dementia with Lewy bodies
  C.A. Lasagna-Reeves, B. Roi, M. Bakhoum, M.J. Guerrero-Munoz, D.L. Castillo-Caranza, R. Kayed, G.R. Jackson (Galveston, Texas, USA)
- 71 Proteasome inhibition in medaka brain induces the features of Parkinson's disease
  R. Takahashi, H. Matsui, H. Itoh, Y. Taniguchi, H. Inoue, S.-I. Takeda (Kyoto, Japan)
- Impaired mitochondrial stress response due to novel mutations in the mortalin/GRP75 gene in Parkinson's disease
   L.F. Burbulla, C. Schelling, C. Schiesling, D. Ciceri,
   D. Woitalla, S. Jung, A. Nordheim, L. Schöls, O. Riess,
   R. Krüger (Tubingen, Germany)
- Dopamine peroxidation in the pathogenesis of Parkinson's disease: New evidences in human cerebellum
   A. De Iuliis, G. Arrigoni, P. Zambenedetti, G. Miotto,
   F. Vianello, P. Arslan (Padova, Italy)

- CSF amyloid b 1-42 predicts cognitive decline in Parkinson's disease
   A. Siderowf, S.X. Xie, H.I. Hurtig, D. Weintraub, J.E. Duda,
   A. Chen-Plotkin, L.M. Shaw, V. Van Deerlin, J.Q. Trojanowski,
- 45 Effects of inflammation on substantia nigra dopamine neurons H.A. Boger, K.R.S. Reinert, A.-C. Granholm (Charleston, South Carolina, USA)

C.M. Clark (Philadelphia, Pennsylvania, USA)

#### Guided Poster Tour 6 - Huntington's disease

Atalaya Room, 24th Floor 13:30 - 15:00 Tuesday, June 15

Tour Leaders: Francisco Cardoso, *Belo Horizonte, Brazil;* Ralf Reilman, *Muenster, Germany* 

- 257 Longitudinal analysis of intermediate CAGn repeat length expansion in the prospective Huntington's disease at-risk observational study (PHAROS)
  K.M. Biglan, J. Jankovic, S. Eberly, E. Kayson, D. Oakes, A.B. Young, I. Shoulson, HSG PHAROS Investigators (Rochester, New York, USA)
- 255 Postural control in Huntington's disease cross sectional results from the TRACK-HD study
  N. Bechtel, R. Scahill, C. Jauffret, A. Sturrock, S. van den Bogaard, E. t'Haart, A. Patel, M.J. Say, J. Read, T. Acharya, D.R. Langbehn, H. Johnson, B. Leavitt, A. Durr, R.A.C. Roos, S.J. Tabrizi, R. Reilmann, the TRACK-HD Investigators (Muenster, Germany)
- Evaluating methods to enrich clinical trial populations in individuals at-risk for Huntington's disease: The prospective Huntington's disease observational at-risk study (PHAROS) K.M. Biglan, S. Eberly, D. Oakes, E. Kayson, J. Warner, A.B. Young, I. Shoulson, HSG PHAROS Investigators (Rochester, New York, USA)
- Using the Mattis Dementia Rating Scale (DRS) to track cognitive change in Huntington's disease (HD)
   S.L. Lessig, J.L. Goldstein, S. Edland, J. Corey-Bloom (La Jolla, California, USA)
- 272 Therapeutic indications and prescription habits in Huntington's disease: Results from the REGISTRY observational study T.A. Mestre, M. Coelho, J.J. Ferreira, European Huntington Disease Network (EHDN) REGISTRY Study Group (Lisboa, Portugal)
- Sleep and sleepiness in Huntington's disease (HD): Effects on patient and caregiver quality of life
  R. Gupta, B. Ankush, L. Sue, S. Kathleen (Chicago, Illinois, USA)



- Pioglitazone ameliorates behavioral, biochemical and cellular alterations in quinolinic acid induced neurotoxicity: Possible role of peroxisome proliferator activated receptor- $_i$  (PPAR $_i$ ) in Huntington's disease
  - H. Kalonia, P. Kumar, A. Kumar (Chandigarh, India)
- 274 Estimation of prevalence and molecular characteristics among Huntington's disease patients of Argentina
  E.M. Gatto, V. Parisi, G.G. Persi, J.L. Etcheverry, F. Leiguarda, A.P. López, V. Varela (Buenos Aires, Argentina)
- Cognition and brain metabolism of preclinical mutation carriers of huntington's disease: A follow-up study
   M. Dekker, J.C.H. van Oostrom, C.K. Jurgens, M. N.W. Witjes-Ané, J.M. Spikman, R.A.C. Roos, K.L. Leenders (Groningen, Netherlands)
- Are gait and step initiation parameters early markers of Huntington's disease in presymptomatic mutation carriers?
   A. Delval, S. Bleuse, C. Simonin, M. Delliaux, B. Roland, L. Defebvre, K. Dujardin, P. Krystkowiak (lille, France)

#### Guided Poster Tour 7 – Restless Legs Syndrome

Aguila Room, 24th Floor 13:30 - 15:00 Tuesday, June 15

Tour Leaders: Per Odin, *Bremerhaven, Germany;* Isabelle Arnulf, *Paris, France* 

- 1008 Evidence for bilateral caudate nucleus involvement in PLMS:
  A case-study employing simultaneous EEG-EMG-fMRI
  N.M. Maurits, R.J. Renken, B.M. de Jong, J.H. van der
  Hoeven (Groningen, Netherlands)
- Neurophysiological approach to the complex organization in spine: A study on F-wave duration and cutaneous silent period in patients with primary restless legs syndrome
   B. Isak, K. Uluc, C. Salcini, K. Agan, T. Tanridag,
   O. Us (Istanbul, Turkey)
- MEIS1 as a potential mediator of the RLS-iron pathology
   N. Silver, R.P. Allen, C.J. Earley (Baltimore, Maryland, USA)
- Impact of neuropsychiatric comorbidity on treatment success in restless legs syndrome
   J. Godau, N. Spinnler, A.-K. Wevers, C. Trenkwalder, D. Berg (Tuebingen, Germany)
- Evaluating a murine iron-deficiency (ID) model for RLS
   E.L. Unger, R.P. Allen, C.J. Earley (Baltimore, Maryland, USA)
- 1014 Restless leg syndrome (RLS) by gender: The effects of hormones, life cycles and comorbidity in a female Sicilian cohort
   R. Silvestri, I. Aricò, R. Condurso, G. Mento (Messina, Messina, Italy)
- Where is the core of the volcano? The undetermined origin of primary restless legs syndrome
   B. Isak, K. Agan, A. Pehlivan, K. Uluc, T. Tanridag,
   O. Us (Istanbul, Turkey)

- 1001 Long-term safety and efficacy of rotigotine in patients with idiopathic RLS: 5-year results from a prospective multinational open-label follow-up study
  - B. Hogl, C. Trenkwalder, D. Garcia-Borreguero, R. Kohnen, W. Poewe, K. Stiasny-Kolster, L. Bauer, A. Fichtner, E. Schollmayer, W. Oertel, for the SP710 Study Group (Innsbruck, Austria)
- 1017 Is the restless legs syndrome (RLS) mediated by inflammatory and immunological mechanisms? RLS is associated with an increased prevalence of small intestinal bacterial overgrowth A.S. Walters, L.B. Weinstock (Nashville, Tennessee, USA)
- 994 Neuroanatomical aspect of the dopaminergic diencephalospinal pathway in the non human primate:
  Potential implications for restless legs syndrome
  Q. Barraud, I. Obeid, I. Aubert, H. Contamin, W. Mazier,
  G. Barriere, F. Tison, E. Bezard, I. Ghorayeb (Bordeaux, France)

#### **Guided Poster Tour 8 – Neuropharmacology**

Aguila Room, 24th Floor 13:30 - 15:00 Tuesday, June 15

Tour Leaders: Giovanni Fabbrini, *Rome, Italy;* Joaquim Ferreira, *Lisbon, Portugal* 

- Synergistic anti-dyskinetic effect of topiramate and amantadine in the MPTP-lesioned non-human primate model of Parkinson's disease
  - C. Kobylecki, A.R. Crossman, R. Paula (Manchester, Lancashire, United Kingdom)
- 645 Reconstitution dilution volumes and dysport\* (botulinum toxin type A) doses used to treat pediatric cerebral palsy in five EU countries
  - S. Hall, J. Schwab, J. Mendoza, B. Zakine, C. Hubert (Brisbane, California, USA)
- Neuroprotection of pramipexole in UPS impairment induced animal model of Parkinson's disease
  - C. Li, W. Xie, J. Jankovic, W. Le (Houston, Texas, China)
- The tolerability of rasagiline when used concurrently with serotonin reuptake inhibitors in Parkinson's disease: A retrospective analysis
  - P. Ghosh, J. Winslow, C. Musleh, C. Gandhy, L. Bahroo, F. Pagan (Washington, District of Columbia, USA)
- Pardoprunox: Effects on motor and non-motor symptoms of Parkinson's disease
  - A.C. McCreary, M. Jackson, C. Ashby, Jr, S. Rose, P. Jenner (Weesp, Netherlands)
- 649 MAO-B inhibitors and dopamine agonists as initial treatment in Parkinson's disease: A naturalistic survey
  - T. Keränen, T. Mattila, H. Kuusisto (Kuopio, Finland)



#### **Guided Poster Tour 9 – Dystonia**

Atalaya Room, 24th Floor 13:30 - 15:00 Wednesday, June 16

Tour Leaders: Cynthia Comella, *Chicago, IL, USA;* Regina Katzenschlager, *Vienna, Austria* 

- Identifying genetic risk factors of musician's dystonia
   A. Schmidt, K. Lohmann, C. Hemmelmann, H.-C. Jabusch,
   S. Winkler, S. Schreiber, E. Altenmueller, A. Ziegler, C. Klein (Luebeck, Germany)
- 194 The syndrome of childhood-onset arm tremor followed by later development of cervical dystonia is a distinct dystonia subtype
  S. Schiebler, A. Schmidt, S. Zittel, T. Baeumer, C. Gerloff,

C. Klein, A. Muenchau (Hamburg, Germany)

- 197 Modulatory effects of 5Hz rTMS over the primary somatosensory cortex in focal dystonia – an fMRI-TMS study S.A. Schneider, B. Pleger, B. Draganski, C. Cordivari, J.C. Rothwell, K.P. Bhatia, R. Dolan (Luebeck, Germany)
- Linking DYT1 and DYT6 dystonia on the molecular level:
   Repression of DYT1 gene expression by the transcription factor activity of THAP1 (DYT6)
   A. Osmanovic, S. Orolicki, D. Braunholz, A. Rakovic,
   T. Lohnau, M. Albrecht, G. Gillessen-Kaesbach, K. Lohmann,
   C. Klein, F.J. Kaiser (Luebeck, Germany)
- 198 The blink reflex recovery cycle distinguishes patients with benign essential blepharospasm from patients with presumed psychogenic blepharospasm
  P. Schwingenschuh, P. Katschnig, J.T. Teo, M.J. Edwards,
  J.C. Rothwell, K.P. Bhatia (London / Graz, United Kingdom)
- Juvenile onset dystonia-parkinsonism associated with cerebral folate deficiency
   E. Baratelli, M. Edwards, M. Carecchio, P.R. Jarman,

S.J.R. Heales, K.P. Bhatia (london, United Kingdom)

- DYT6 dystonia phenotype and the effect of deep brain stimulation
   J.L. Groen, K. Ritz, F.M. Contarino, B.P. van de Warrenburg, J.J. van Hilten, M. Aramideh, E.M. Foncke, R. Schuurman, J.D. Speelman, R.M.A. de Bie, F. Baas, M.A.J. Tijssen (Amsterdam, Netherlands)
- The D216H (rs1801968) polymorphism in the DYT1 gene: A potential susceptibility factor for familial dystonia in Argentinean cases
   C. Perandones, M. Irisarri, M. Caputo, M.T. Gomez,
   L.A. Pellene, C.Z. Salazar, F.E. Micheli, D. Corach (Ciudad Autonoma de Buenos Aires, Argentina)
- 146 Secondary non response (SNR) to botulinum toxins type A (BoNT-A) in cervical dystonia (CD) patients: Definition and therapeutic strategies results from an international survey J.J. Ferreira, R. Bhidayasiri, C. Colosimo, M.J. Marti, B. Zakine, P. Maisonobe (Lisboa, Portugal)

Prevalence of focal task-specific dystonia among professional musicians in a community-based study from Argentina E.M. Gatto, A. Chade, G. Persi, V. Parisi, A. Ayarza, M. Campuzano, S. García (Buenos Aires, Argentina)

#### **Guided Poster Tour 10 – Genetics**

Atalaya Room, 24th Floor 13:30 - 15:00 Wednesday, June 16

Tour Leaders: John Hardy, *London, United Kingdom;* Enza Maria Valente, *Rome, Italy* 

- Parkinsonian features and motor network plasticity in LRRK2 patients and asymptomatic mutations carriers in comparison to sporadic PD and healthy controls
  K. Brockmann, A. Groeger, A. Di Santo, C. Schulte, A.-K. Hauser, D. Berg, T. Gasser (Tuebingen, Germany)
- Genome-wide association study identifies common variants at four loci as genetic risk factors for Parkinson's disease
  W. Satake, Y. Nakabayashi, I. Mizuta, M. Watanabe,
  A. Takeda, H. Tomiyama, K. Nakashima, K. Hasegawa,
  F. Obata, H. Kawakami, S. Sakoda, M. Yamamoto, N. Hattori,
  M. Murata, Y. Nakamura, T. Toda (Kobe, Japan)
- Genetic control of DNA methylation and expression in the context of neurological disease
   D.G. Hernandez, R. Gibbs, M.A. Nalls, S. Arepalli, M. Van der Brug, B. Traynor, S.B. Andrew (Bethesda, Maryland, USA)
- 123I-MIBG cardiac uptake and smell identification in patients with LRRK2 mutations
  F. Valldeoriola, C. Gaig, A. Muxi, I. Navales, P. Paredes,
  F. Lomeña, A. De la Cerda, M. Ezquerra, P. Santacruz,
  M.J. Marti, E. Tolosa (Barcelona, Catalonia, Spain)
- Studies of alpha-synuclein in brain samples from patients with Lewy body disorders carrying glucocerebrosidase mutations O. Goker-Alpan, J.H. Choi, B.K. Stubblefield, M. Cookson, G. Lopez, E. Sidransky (Bethesda, Maryland, USA)
- Genome-wide analysis and accuracy of self-reported data: The 23andMe Parkinson's disease project
   N. Eriksson, C. Do, A. Kiefer, J.M. Macpherson, K. Marton, J. Tung, L.S. Hon, B. Naughton, S. Saxonov, A. Wojcicki, J. Mountain (Mountain View, California, USA)
- 868 Clinical manifestation of patients with Parkinson's disease carriers of "severe" mutations in the GBA gene
  E. Rozenberg, A. Mirelman, S. Levy, M. Kedmi, A. Orr-Urtreger, N. Giladi, T. Gurevich (Tel Aviv, Israel)
- Mutational screening of the coding regions of MEIS1 and BTBD9 in patients with restless legs syndrome E.C. Schulte, F. Knauf, P. Lichtner, T. Meitinger, J. Winkelmann (Munich, Germany)



- A new family with apparently dominant inheritance of PARK2 246
   F. Tison, N. Damon-Perriere, C. Cazeneuve, S. Lesage,
   P. Fernandez, A. Brice, W. Meissner (Pessac, France)
- 901 The phenotypic spectrum of neurodegeneration associated to PLA2G6 mutations

G. Zorzi, A. Giovannetti, F. Zibordi, V. Saletti, M. Sessa, S. Orcesi, M. Morbin, L. Chiapparini, B. Garavaglia, N. Nardocci (Milano, Italy)

#### Guided Poster Tour 11 – Gene Therapies and Cell-based Therapies

Aguila Room, 24th Floor 13:30 - 15:00 Wednesday, June 16

Tour Leaders: Anthony Lang, *Toronto, ON, Canada;* Deniz Kirik, *Lund, Sweden* 

- A phase I clinical trial on the safety and efficacy of ProSavin® a dopamine replacement gene therapy for Parkinson's disease (PD): An interim report
  - B. Jarraya, H. Lepetit, S. Ralph, J. Miskin, J.-M. Gurruchaga, M. Vinti, G. Fenelon, P. Brugieres, K. Abhay, I. Gabriel, S. Boulet, C. Jan, S. Kingsman, P. Cesaro, P. Hantraye, P. Remy, K. Mitrophanous, S. Palfi (Paris, Creteil, France)
- 247 Evidence of motor recovery after retinal pigment epithelial (RPE) cells implantation in the rat model of Parkinson's disease (PD)
  - H. Gambhir, S. Vivekanandhan, V. Goyal, R. Mathur, M. Behari (New Delhi, Delhi, India)
- 248 Investigation of optimal transduction targets in the nigrostriatal system for pleiotrophin gene therapy in a parkinsonian rodent model

S.E. Gombash, T.J. Collier, B.F. Daley, S.L. Wohlgenant, N.D. Levine, B.T. Terpstra, R.J. Mandel, F.P. Manfredsson, C.E. Sortwell (Cincinnati, Ohio, USA)

253 Restore neurotrophin signaling to enhance functional restoration following neural stem cell transplantation in Parkinson's disease

K. Seth, A. Shukla, R.W. Ansari, R.K. Chaturvedi, A.K. Agrawal (Lucknow, UP, India)

251 Therapeutic microinjection of autologous adult human neural stem cells and differentiated neurons for Parkinson's disease: Five-year post-operative outcome

M.F. Levesque, T. Neuman, M. Rezak (Los Angeles, California, USA)

245 Transgenic porcine xenografts: A model of brain immune response in parkinsonian primates

R. Aron Badin, A. Padoan, M. Vadori, M. Boldrin,
L. Chavicchioli, G.M. De Benedictis, F. Fante, M. Seveso,
D. Sgarabotto, C. Jan, V. Daguin, P. Naveilhan, I. Neveu,
J.P. Soulillou, B. Vanhove, M. Plat, F. Botte, F. Venturi,
L. Denaro, R. Manara, P. Zampieri, D. D'Avella, D. Rubello,
E. Ancona, P. Hantraye, C. Emanuele (Fontenay-aux-Roses,
France)

Derivation of dopaminergic neurons from human embryonic stem cells and IPS cells in animal-free conditions ready to use them in a treatment of Parkinson's disease

S. Erceg, J. Kostic, V. Moreno-Manzano, M.A. Perez Arago, L.G. Maria, M. Ronaghi, P. Stojkovic, M. Stojkovic (Valencia, Spain)

- 250 Enriching the environment for haematopoietic stem cell transplantation in MPTP-treated primates
  L.P. Kelly, M.B. Newman, R.A.E. Bakay (Chicago, Illinois, USA)
- 252 Grafted serotonin neurons aggravate L-DOPA induced dyskinesia: In vivo evidence by microdialysis and [18F] fallypride PET imaging G. Sahin, S. Lavisse, L. Rbah, T. Bjorklund, M. Carta,
- Vascular endothelial growth factor-B186 improves motor behavior in vivo in a rat model of Parkinson's disease X. Yue, T. Falk, S. Zhang, S.J. Sherman (Tucson, Arizona, USA)

L. Thompson, P. Hantraye, D. Kirik (Lund, Sweden)

## Guided Poster Tour 12 – Lewy Body Dementia and other dementias in movement disorders

Aguila Room, 24th Floor 13:30 - 15:00 Wednesday, June 16

Tour Leaders: Ian MacKenzie, *Vancouver, BC, Canada;* Jennifer Goldman, *Chicago, IL, USA* 

- 911 Extrapyramidal symptoms in frontotemporal dementia
  A.R. Chade, M. Roca, E. Gleichgerrcht, T. Torralva, F. Manes
  (Capital Federal, Buenos Aires, Argentina)
- 915 Probable dementia Lewy body type is rare among Parkinson's disease patients J.M. Rabey, E. Dobronevsky, A. Miniovitz, T. Prokhorov (Zerifin, Israel)
- Parkinsonian features and apraxia in frontotemporal lobar atrophy behavioural variant (FTLA bv)
   S. Schmidegg, W. Struhal, S. Hoedl, C. Dorninger,
   M. Steffelbauer, M. Ortmayr, G. Ransmayr (Linz, Austria)
- 912 Depression in dementia with Lewy bodies and Parkinson's disease dementia

F. Fritze, U. Ehrt, D. Aarsland (Stavanger, Rogaland, Norway)

- Lack of beta-synuclein expression defines a specific group of dementia with Lewy bodies
   K. Beyer, M. Domingo-Sabat, L. Ispierto, C. Carrato,
   R. Alvarez, P. Latorre (Badalona, Spain)
- 916 The SNCA locus in dementia with Lewy bodies
  A. Sailer, M. Kurzawa, P.F. Chinnery, I.G. McKeith,
  C.M. Morris, H. Houlden (London, United Kingdom)



#### Guided Poster Tour 13 – Parkinson's disease: Clinical trials

Atalaya Room, 24th Floor 13:30 - 15:00 Thursday, June 17

Tour Leaders: Günther Deuschl, *Kiel, Germany;* Bernard Ravina, *Rochester, NY, USA* 

- Pardoprunox in early stage Parkinson's disease: Results from two large studies
  C. Sampaio, J.B. Bronzova, R.A. Hauser, A. Lang, O. Rascol,
  S.V. van de Witte, A. Theeuwes (Lisboa, Portugal)
- 327 A multi-center, placebo-controlled, double-blind trial to examine the safety and efficacy of pimavanserin in the treatment of psychosis in Parkinson's disease
  J.H. Friedman, B. Ravina, R. Mills, H. Williams, D. Bahr, P. Peters, F. Tison, D. Burn (Newcastle upon Tyne, United Kingdom)
- 359 Safinamide as add-on to levodopa improves motor function without worsening dyskinesia in patients with mid-late Parkinson's disease
  C.M. Meshram, M. Bhatt, D. Chirileanu, P. Stanzione,
  V. Lucini, S.M. Rossetti, R. Anand, the Study 016 Investigators (Nagpur, India)
- 342 Eighteen months of intervention with exercise improve functional mobility with maintenance of mental state in people with Parkinson's disease

  L.T.B. Gobbi, S. Gobbi, C. Teixeira-Arroyo, N.M. Rinaldi, F.A. Barbieri, E. Lirani-Silva, R.A. Batistela, M.P. Pereira, F. Stella (Rio Claro, Sao Paulo, Brazil)
- Fipamezole in the treatment of dyskinesia in advanced
   Parkinson's disease (FJORD study)
   P.A. LeWitt, R.A. Hauser, M. Lu, A.P. Nicholas, W. Weiner,
   N. Coppard, M. Leinonen, J.M. Savola (Southfield, Michigan, USA)
- 349 The impact of left prefrontal repetitive transcranial magnetic stimulation on depression with Parkinson's disease: A randomized, controlled, double-blinded, single center study N. Kovacs, F. Nagy, Z. Aschermann, E. Balazs, E. Pal (Pecs, Hungary)
- Efficacy and safety of rotigotine transdermal application in levodopa-treated patients with Parkinson's disease (PD)
   M. Nomoto, T. Kondo, K. Hasegawa, M. Murata, N. Hattori, Y. Mizuno, Rotigotine Study Group (Tohon, Ehime, Japan)
- Safety and tolerability profile of the adenosine A2A receptor antagonist BIIB014 in Parkinson's disease: Pooled analysis of two placebo-controlled 8-week studies
   S. Papapetropoulos, R. Borgohain, M. Kellet, N. Giladi, D. Tomic, A. Coppell, Y. Zhu, J. Barnard, L. Miller, G.N. O'Neill (Cambridge, Massachusetts, USA)

- 320 Controlled study of intermittent theta-burst transcranial magnetic stimulation for the treatment of Parkinson's disease D. Benninger, B. Berman, E. Houdayer, N. Pal, D. Luckenbaugh, L. Schneider, S. Miranda, M. Hallett (Bethesda, Maryland, USA)
- 379 Sustained efficacy and tolerability of pramipexole extendedrelease as adjunctive treatment in advanced Parkinson's disease A.H.V. Schapira, P. Barone, R.A. Hauser, Y. Mizuno, O. Rascol, M. Busse, L. Salin, M. Sohr, W. Poewe, in the name of the Pramipexole ER Studies Group (London, United Kingdom)

#### Guided Poster Tour 14 – Parkinson's disease: Sleep Disorders

Atalaya Room, 24th Floor 13:30 - 15:00 Thursday, June 17

Tour Leaders: Kapil Sethi, *Augusta, GA, USA;* Aleksander Videnovic, *Chicago, IL, USA* 

- 756 Cyclic alternating pattern (CAP) in de novo Parkinson's disease R. Margis, R. Ferri, S.V. Schonwald, G.J.L. Gerhardt, C.R.M. Rieder (Porto Alegre, RS, Brazil)
- 759 Effect of rotigotine on sleep and nocturnal symptoms in Parkinson's disease: RECOVER study
  C. Trenkwalder, B. Kies, M. Rudzinska, J. Fine, J. Nikl,
  D.L. Hill, T. Anderson, E. Surmann, J. Whitesides,
  B. Boroojerdi, K.R. Chaudhuri, on Behalf of the
  RECOVER Study Group (Kassel, Germany)
- 750 Hallucinations and sleep disorders in Parkinson's disease: Ten year prospective longitudinal study C.G. Goetz, B. Ouyang, A. Negron, G.T. Stebbins (Chicago, Illinois, USA)
- Sleep-related falling out of bed (SFOB) in Parkinson's disease:
   A clinical marker of RBD?
   D.M. Wallace, D.Z. Carvalho, H. Moore, A. Pandey, F. Nahab,
   C. Singer (Miami, Florida, USA)
- 751 A study of sleep problems in a community-dwelling cohort of people with PD R.W. Walker, A.R. Howells, I.L. Cookey, W.K. Gray (North Shields, Tyne and Wear, United Kingdom)
- 752 Nighttime sleep and daytime sleepiness in idiopathic and genetic Parkinson's disease
  M. Kasten, V. Tadic, N. Brueggemann, A. Schmidt, L. Kertelge, C. Wisse, L. Drude, K. Lohmann, J. Hagenah, C. Klein (Luebeck, Germany)
- 755 Does idiopathic restless legs syndrome protect against Parkinson's disease
  D.M. Elizabeth, W.G. Ondo (Houston, Texas, USA)
- Parkinson's disease patients: "Owls" or "larks"
   A. Videnovic, C. Noble, A. Marconi, T. Kuhta, C. Zadikoff,
   T. Simuni, P. Zee (Chicago, Illinois, USA)



- 753 The impact of depression on sleep quality and excessive daytime sleepiness in Parkinson's disease patients
  N. Klepac, M. Titlic, D. Britvic, I. Lusic, L. Unusic (Zagreb, Croatia)
- 749 Excessive daytime sleepiness in the MPTP non human primate model of Parkinson's disease
  Q. Barraud, V. Lambrecq, S. McGuire, M. Hill, F. Tison,
  E. Bezard, I. Ghorayeb (Bordeaux, France)

#### Guided Poster Tour 15 – Surgical Therapy: Parkinson's disease

Aguila Room, 24th Floor 13:30 - 15:00 Thursday, June 17

Tour Leaders: Marcelo Merello, *Buenos Aires, Argentina*; Andres Ceballos-Baumann, *Munich, Germany* 

- Quality of life after DBS STN in Parkinson's disease is related to the stimulation amplitude
   M. Baláz, M. Bocková, I. Rektor (Brno, Czech Republic)
- 814 Effect of globus pallidus internus and/or pedunculopontine nucleus DBS on posture and gait ignition in advanced Parkinson's disease
  C. Schrader, H. Capelle, D. Dressler, A. Windhagen, J.K. Kraus, F. Seehaus (Hannover, Germany)
- Effects of pedunculopontine nucleus area stimulation on speech production in Parkinson's disease
  S. Pinto, A. Maillet, A. Ghio, M. Ferraye, V. Fraix, R. Espesser,
  S. Chabardès, E. Seigneuret, A.L. Benabid, B. Debû, P. Pollak (Grenoble, France)
- Factors related to extended hospital stays following deep brain stimulation for Parkinson's disease
  A. Mikos, J. Pavon, D. Bowers, K.D. Foote, A.S. Resnick,
  H.H. Fernandez, P. Thomas, C. Garvan, A. Roy, M.S. Okun (Gainesville, Florida, USA)
- Role of mesocorticolimbic dopaminergic denervation in postoperative apathy and depression in Parkinson's disease
  S. Thobois, E. Lhommee, H. Klinger, C. Ardouin, J. Xie,
  V. Fraix, C. Lagrange, E. Seigneuret, P. Mertens, S. Chabardes,
  G. Polo, D. Le Bars, P. Pollak, E. Broussolle, P. Krack (Lyon, France)
- Effect of subthalamic deep brain stimulation on acceleration of the swing phase of gait in Parkinson's disease
  F.J. Revilla, A. Duker, H.A. Miranda, M. Matthew,
  G. Mandybur, A. Espay, C. Cox, A. Bhattacharya (Cincinnati, Ohio, USA)
- 791 Effects of chronic STN-DBS on the levodopa response: Evidence for gain of long duration response C.S. Lee, S.-J. Chung, M.-J. Kim, S.-Y. You, S.-R. Kim, S.-Y. Chun (Seoul, Republic of Korea)

- 822 Postoperative verbal fluency decline after subthalamic deep brain stimulation surgery correlates with laterality of the microlesion. Results of a prospective longitudinal study L. Wojtecki, L. Timmermamn, U. Habel, C. Reck, M. Suedmeyer, V. Sturm, F. Schneider, A. Schnitzler (Duesseldorf, Germany)
- 770 Active contact location and acute mood response to STN DBS stimulation in Parkinson's disease
  M.C. Campbell, P.M. Weaver, H.M. Lugar, T.O. Videen,
  K.J. Black, J.S. Perlmutter, T. Hershey (St. Louis, Missouri,
  USA)
- 827 Comparison of bilateral subthalamic deep brain stimulation (STN-DBS) and duodenal levodopa infusion (DLI) in advanced Parkinson's disease (PD) patients
  M. Zibetti, A. Cinquepalmi, S. Angrisano, C. Azzaro, L. Rizzi, M. Lanotte, L. Lopiano (Torino, Italy)

# Guided Poster Tour 16 – Surgical Therapy: Other Movement Disorders

Aguila Room, 24th Floor 13:30 - 15:00 Thursday, June 17

Tour Leaders: Joachim Krauss, *Hannover, Germany;* Elena Moro, *Toronto, ON, Canada* 

- Long term continuous deep brain stimulation to the internal globus pallidus in DYT1-gene positive dystonia induces lasting neural reorganization in the motor system
   D. Ruge, L. Cif, P. Limousin, V. Gonzalez, M.I. Hariz,
  - P. Coubes, J.C. Rothwell (London, United Kingdom)

    Long-term clinical outcome in Meige syndrome treated with
- Long-term clinical outcome in Meige syndrome treated with posteroventral lateral internal pallidum deep brain stimulation (GPi-DBS)

R. Reese, D. Gruber, H. Bäzner, C. Blahak, H.-H. Capelle, D. Falk, J. Herzog, M.O. Pinsker, G.-H. Schneider, C. Schrader, G. Deuschl, H.M. Mehdorn, A. Kupsch, J. Volkmann, J.K. Krauss (Kiel, Germany)

- Pallidal deep brain stimulation may induce freezing of gait in patients with focal and segmental dystonia
  C. Schrader, H. Capelle, T. Kinfe, C. Blahak, H. Baezner,
  D. Dressler, J.K. Krauss (Hannover, Germany)
- Deep brain stimulation for segmental dystonia: Long-term (6-year) follow-up
   Blahak, H.-H. Capelle, H. Baezner, T. Kinfe,
   M.G. Hennerici, J.K. Krauss (Mannheim, Germany)
- Deep brain stimulation for camptocormia in dystonia and Parkinson's disease
   H.-H. Capelle, C. Schrader, C. Blahak, T.M. Kinfe, W. Fogel, H. Baezner, J.K. Krauss (Hannover, Germany)



- 836 Two year experience with DBS for pediatric onset dystonias:
  Generator selection
  W.A. Marks, J. Honeycutt, F. Acosta, Jr, M.A. Reed (Fort
  Worth, Texas, USA)
- 838 Rescue DBS leads: Tailoring deep brain stimulation (DBS) when clinical symptoms do not respond as anticipated G. Oyama, K.D. Foote, N. Hwynn, C.E. Jacobson, P. Zeilman, J. Romrell, I.A. Malaty, H.H. Fernandez, R.L. Rodriguez, M.S. Okun (Gainesville, Florida, USA)
- Steady or not following thalamic deep brain stimulation for essential tremor
  N. Hwynn, C. Hass, P. Zeilman, J. Romrell, Y. Dai, S.S. Wu, K.D. Foote, S.H. Subramony, G. Oyama, F. Velez-Lago, H.H. Fernandez, A. Resnick, R.L. Rodriguez, I. Malaty, M.S. Okun (Gainesville, Florida, USA)
- 834 Generalized dystonia treated with bilateral pallidotomy and bilateral subthalamic deep brain stimulation
  T. Mandat, H. Koziara, W. Bonicki, P. Nauman (Warszawa, Poland)
- 835 Comparison of merged CT analysis and direct MRI visualization of GPi lead placement for deep brain stimulation W.A. Marks, J. Honeycutt, J. Paugh, R. Shivers, F. Acosta, Jr (Fort Worth, Texas, USA)





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V. Peter, B.A. Diana, H. Frantisek, B. Jan (Bratislava, Slovakia

(Slovak Republic))



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1	Clinical features and molecular genetics of autosomal dominant cerebellar ataxias in ethnic Bengalees K.B. Bhattacharyya, R. Singh, S. Basu, A. Mishra, M. Seshadri (Kolkata, West Bengal, India)	13	Large normal polyQ runs underlies the highest prevalence of SCA2 in Cuba  J.M. Laffita-Mesa, L.C. Velazquez, Y. González, Y.A. Vazquez, D. Gotay, T. Cruz-Mariño, Y. Rodríguez, L.E. Almaguer, N. Santos, G. Sánchez, D. Cuello, R. Rodríguez, A. Peña, M. Paneque, R. Rodríguez (Holguin, Cuba)
2	Ataxia-telangiectasia: Mild and slowly progressive clinical presentation associated with two null ATM alleles S. Chaal, A.M. Taylor, P.F. Worth (Norwich, Norfolk, United Kingdom)	14	Neuropathy in spinocerebellar ataxia type 1, 2, 3 and 6 C. Linnemann, S. Tezenas du Montcel, M. Rakowicz, T. Schmitz-Huebsch, S. Szymanski, J. Berciano, B.P. Van de Warrenburg, C. Depondt, R. Rola, T. Klockgether, A. Garcia, G. Mutlu, L. Schols (Tuebingen, Germany)
3	Diffusion tensor imaging (DTI) tractography in autosomal recessive cerebellar ataxias (ARCA) M. Christophe, LB. Ouhaïd, A. Mathieu, K. Stephane, T. Christine (Strasbourg, France)	15	Safety and tolerability of lithium carbonate in spinocerebellar ataxia type 1 (SCA1) patients: Lessons from a feasibility study G.J. Lopez, B.A. McElroy, E. Considine, D. Haubenberger, M. Hallett (Bethesda, Maryland, USA)
4	Friedreich ataxia: Cognition and saccadic eye movement J. Fielding, L.A. Corben, P.D. Cremer, L. Millist, D. Hocking, O.B. White, M.B. Delatycki (Notting Hill, Victoria, Australia)	16	Electrophysiological parameters as preclinical and progression biomarkers of spinocerebellar ataxia type 2. A twenty years prospective follow up study
5	Clinical spectrum and neurophysiology in a German family with a novel SCA-14 mutation C. Ganos, S. Zittel, C. Zühlke, V. Bernard, T. Bäumer,		VP. Luis, SC. Gilberto, CO. Nalia, RL. Roberto, L. Jose (Holguin, Cuba)
6	A. Münchau (Hamburg, Germany)  Vocal cords myoclonus, progressive ataxia and horizontal	17	Metabolic diseases revealed by cerebellar ataxia C. Marcel, M. Mallaret, O. Lagha-Boukbiza, L. Thomas, C. Tranchant (Strasbourg, France)
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7	Aminopyridines correct presymptomatic neuronal dysfunction and improve late behavioral and cellular phenotype in a mouse model of spinocerebellar ataxia type 1 (SCA1) R. Hourez, L. Servais, D. Gall, M. Pandolfo, S.N. Schiffmann (Brussels, Belgium)	19	A.J. Lees, L. Silveira-Moriyama (Curitiba, Brazil)  Clinical and genetic analysis of spinocerebellar ataxia in Mali T. Moussa, C. Toumani, M. Kathi, G.C. Oumar, L. Guida, S. Modibo, T. Siona, K. Mamadou, M. Fanny, L.P. Allison, K. Fischbeck (Bamako, Mali)
8	Protective effect of valproate on SCA3/MJD transgenic cell and drosophila models H. Jiang, JP. Yi, BS. Tang (Changsha, Hunan, China)	20	Effects of erythropoietin treatment on microvascularisation and metabolism of skeletal muscle in patients with Friedreich
9	SCA32: An autosomal dominant cerebellar ataxia with azoospermia maps to chromosome 7q32-q33 H. Jiang, HP Zhu, C.M. Gomez (Changsha, Hunan, China)		ataxia W. Nachbauer, J. Wanschitz, M. Reindl, M. Schocke, B. Scheiber-Mojdehkar, W. Poewe, S. Boesch (Innsbruck, Austria)
10	Two in one: A case report of a patient with spinocerebellar ataxia types 2 and 10 S.S. Kapur, J.G. Goldman (Chicago, Illinois, USA)	21	Classification of cerebellar atrophy using voxel-based morphometry and SPECT with an easy Z-score imaging system
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12	Antioxidants and other pharmacological treatment for Friedreich ataxia	22	C.M. Gomez (Minneapolis, Minnesota, USA)
	M. Kearney, R.W. Orrell, M. Fahey, M. Pandolfo (Dublin, Ireland)	23	Assessment of posture using static posturography and accelerometry: Comparison of early stage Parkinson patients and elderly controls

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27	Different age of GAA repeat expansion of Friedreich's ataxia patients in North and South Indian population with globally shared ancestral origin  I. Singh, M.F. Mohammed, A.K. Srivastava, O. Mukherjee,	38	Non-linear properties of the neuronal discharge in the globus pallidus of parkinsonian patients D.S. Andres, D. Cerquetti, E. Tenca, M. Merello (Buenos Aire Argentina)
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29	(Nottingham, United Kingdom)  Spinocerebellar ataxia 12: Clinico-genetic features in 83 probands  A.K. Srivastava, M. Faruq, S. Singh, I. Singh, M. Mukerji,	40	Perception bias for acceleration in observed velocity change is less strong in Parkinson's bradykinesia M. Beudel, C.M. de Geus, K.L. Leenders, B.M. de Jong (Groningen, Netherlands)
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34	Polysomnographic characterization in the SCA2 mutation. A two years prospective follow up study L. Velazquez-Perez, R. Rodriguez, N. Canales, L. Galia,	45	Effects of inflammation on substantia nigra dopamine neuror H.A. Boger, K.R.S. Reinert, AC. Granholm (Charleston, South Carolina, USA)
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<b>4</b> 7	Reduced basal autophagy and impaired mitochondrial dynamics due to loss of Parkinson's disease-associated protein DJ-1 G. Krebiehl, S. Ruckerbauer, L.F. Burbulla, N. Kieper, B. Maurer, J. Waak, H. Wolburg, Z. Gizatullina, F.N. Gellerich,	58	Progressive loss of dopaminergic function that is dose dependant in an AAV1/2 rat model of Parkinson's disease a-synucleinopathy J.B. Koprich, T.H. Johnston, G. Reyes, X.S. Sun, M. Espinosa, J.M. Brotchie (Toronto, Ontario, Canada)
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52	The role of disturbed innate immunity linked to toll-like receptor 4 (TLR4) in a-synucleinopathies  L. Fellner, K. Schanda, R. Markus, P. Werner, W.K. Gregor,		Parkinson's disease P. Halley, P. Riederer, M. van den Buuse, K. Lohmueller, M. Gerlach (Hamburg, Germany)
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325	Effect of subthalamic nuclei deep brain stimulation on pain in Parkinson's disease: A clinical and neuroimaging study E. Dellapina, F. Ory-Magne, L. Calvière, W. Regragi, P. Payoux, C. Brefel-Courbon (Toulouse, France)	336	Clinical prospective controlled trial to determine the rasagiline efficacy in the symptomatic improvement of Parkinson's disease in patients under 50 years  E. Cornejo-Valse, C. Cuevas, G. Neri-Nani, F. Delgado,  E. Siliézar-Pineda, L. Cornejo-Valse, A. Calderón-Vallejo (San
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328	Kingdom) Global motor training with rythmical auditory cues improve and maintain balance control in Parkinson's disease (PD) patients T. Capato, M.E. Piemonte (Sao Paulo, Brazil)	339	Methylphenidate for the treatment of gait impairment in Parkinson's disease: A randomized, double-blind, placebo- controlled cross-over trial A.J. Espay, A. Kumar Dwivedi, S. Savage, L. Gaines, J.E. Vaughan, M. Gartner, A. Sahay, F.J. Revilla, A.P. Duker, R. Shukla (Cincinnati, Ohio, USA)



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343	Impact of nordic walking on motor function, non-motor symptoms, mood and cognition in Parkinson's disease J. Godau, M. Herfurth, B. Kattner, S. Rombach, S. Grau,	25(	S.R. Dunlop, D. Solomon, R. von Coelln, Z. Mari, S.H. Ying (Baltimore, Maryland, USA)
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350	Influence of pramipexole on tremor, affective and cognitive impairment, quality of life in patients with Parkinson's disease (MIRAGE study) O.S. Levin, O.S. Nesterova, O.V. Otecheskaja, E.Y. Guravleva, I.Y. Artemova, A.A. Hozova, A.M. Ismailova, L.N. Lisenker,	362	Investigation of efficacy and safety of transdermal rotigotine in Japanese de-novo Parkinson's disease (PD) patients Y. Mizuno, M. Nomoto, T. Kondo, K. Hasegawa, M. Murata, N. Hattori, SPM 962 Study Group (Koshigaya City, Saitama, Japan)
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352	Long-term treatment of advanced Parkinson's disease with rotigotine  PA LoWitz B Borogiczdi W Dogwo on Bobalf of the SD516		J. Spildooren, S. Vercruysse, K. Desloovere, E. Kerckhofs, W. Vandenberghe, A. Nieuwboer (Heverlee, Belgium)

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369	(Cambridge, Massachusetts, USA)  Safety of recombinant human erythropoietin (EPOrh) in Parkinson's disease (PD): A clinical pilot trial  I. Pedroso, M.L. Bringas, A. Aguiar, M. Alvarez, A. Padron, L. Alvarez (Havana City, Cuba)	381	Weight loss and implementation of clinical trials of multi/ antioxidant vitamins and nutritional supplements in Parkinson's disease S.N. Siddiqui, M. Behari, V. Subbaiah, M. Manral (New Delhi, India)
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390	D. Eidelberg, M.F. Ghilardi, G. Abbruzzese (Genova, GE, Italy)  Neuropsychological performance of early onset PD cases with and without GBA mutations: The CORE-PD study R.N. Alcalay, E. Caccappolo, H. Mejia-Santana, M.X. Tang, L. Rosado, B. Ross, M. Verbitsky, S. Kisselev, E. Louis, C. Comella, A. Colcher, D. Jennings, M. Nance, S. Bressman, W.K. Scott,	401	The Addenbrooke's cognitive examination (ACE) detects cognitive impairment in advanced Parkinson's disease but not in early Parkinson's disease  A.R. Chade, M. Roca, T. Torralva, E. Gleichgerrcht, N. Fabbro, G.J. Gomez Arevalo, O.S. Gershanik, F. Manes (Capital Federal, Buenos Aires, Argentina)
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421	The development of a questionnaire to assess everyday multi- domain cognitive functioning in people with Parkinson's		M. Saxena, S. Kumaran, S. Singh, V. Goyal, M. Behari (New Delhi, Delhi, India)
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USA)

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(Guangzhou, Guangdong, China)

Denmark)

in patients with movement disorders

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964	Retrospective study of the therapeutic effect of deep brain stimulation in multiple system atrophy Y. Wu, M.A. Almaguer, F. Atassi, E.C. Lai, J. Jankovic, W.G. Ondo (Houston, Texas, USA)
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970	Transcranial magnetic stimulation over the cerebellum in ataxic and non-ataxic patients with progressive supranuclear palsy Y. Shirota, M. Hamada, R. Hanajima, Y. Terao, S. Tsuji, Y. Ugawa (Tokyo, Japan)
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 R. Nehru, A. Batla, T. Vijay, J.B. Sharma, S.K. Puri (New Delhi, Delhi, India)

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980 Results of a multi-national patient and physician survey on treatment satisfaction with current botulinum toxin treatment in focal dystonia

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- 981 Measuring quality of life in patients with Parkinson's disease using the McGill quality of life questionnaire
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- 982 Measuring existential, psychological and physical contributors to quality of life in Parkinson's disease using the mcgill quality of life tool

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- 983 Bone metabolism in Parkinson's disease H. Ito, T. Sano, S. Hattori, T. Kamei (Chigasaki, Kanagawa, Japan)
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- 985 Botulinum toxin type A (BOTOX\*) improves health utility in patients treated for approved therapeutic indications: Interim analysis of a large ongoing phase IV prospective observational cohort study (MDs on BOTOX\* Utility-MOBILITY) in Canada

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991	Periodic leg movements during sleep in narcoleptic patients with or without restless legs syndrome E. Antelmi, C. Franceschini, S. Vandi, R. Ferri, G. Plazzi (Bologna, Italy)	1002	Where is the core of the volcano? The undetermined origin of primary restless legs syndrome B. Isak, K. Agan, A. Pehlivan, K. Uluc, T. Tanridag, O. Us (Istanbul, Turkey)		
992	Sonographic abnormalities of brainstem structures of restless legs syndrome: Comparison between idiopathic RLS and RLS in Parkinson's disease J.S. Baik, J.H. Park, J.H. Lee (Seoul, Korea)	1003	Neurophysiological approach to the complex organization in spine: A study on F-wave duration and cutaneous silent period in patients with primary restless legs syndrome B. Isak, K. Uluc, C. Salcini, K. Agan, T. Tanridag, O. Us (Istanbul, Turkey)		
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<i>))</i> 1	diencephalospinal pathway in the non human primate: Potential implications for restless legs syndrome Q. Barraud, I. Obeid, I. Aubert, H. Contamin, W. Mazier,		K. Stiasny-Kolster, C. Trenkwalder, D. Garcia-Borreguero, L. Bauer, F. Grieger, E. Schollmayer, R. Kohnen, on Behalf of the SP790 Study Group (Nuremberg, Germany)		
995	G. Barriere, F. Tison, E. Bezard, I. Ghorayeb (Bordeaux, France)  Transcranial sonography in differential diagnosis of restless legs syndrome  M. Budisic, Z. Trkanjec, A. Lovrencic Huzjan, D. Azman,	1006	Periodic limb movements in obstructive sleep apnea-hypopnea syndrome patients R. Chen, LL. Zhao, JY. Huang, KP. Xiong, MY. Zhao, CF. Liu (Suzhou, Jiangsu, China)		
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  P. Kanovsky, M.P. Barnes, I. Pulte, P. Minnasch, S. Grafe, for the NT 201 Spasticity Study Groups (Olomouc, Czech Republic)
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- 1023 Analysis of surgical intrathecal [i.t.] baclofen [ITB] implant results emphasizing revision surgery in a mixed pediatric/adult population

  N. Roosen, Y. Awaad, K. McIntosh, M. Waines (Dearborn, Michigan, USA)

- Surgical complications with intrathecal baclofen (ITB) management experience in children (<16-years-old) and adults N. Roosen, K.A. McIntosh, Y.M. Awaad (Wyandotte, Michigan, USA)</p>
- Juvenile parkinsonism due to a novel SPG 15 mutation J. Schicks, M. Synofzik, H. Petrusson, P. Bauer, L. Schöls (Tuebingen, Germany)
- The unexpected mutation frequency of SPG4 gene in Chinese AD-HSP patients
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- 1028 Double-blind controlled randomized study of the use of levetiracetam to treat tics in children and adolescents with Tourette syndrome
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- 1030 Quantitative wearable monitoring of Tourette motor tics M. Bernabei, E. Preatoni, M. Mendez, L. Piccini, M. Porta, M. Sassi, D. Servello, G. Andreoni (Milano, Italy)
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   J. Damasio, M.J. Edwards, A. Alonso, P. Scwingenschuh,
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   U. Dashdorj, B. Tserensodnom, B. Jigjidsuren (Ulaanbaatar, Mongolia)
- Cortical excitability in Tourette patients differential effects of voluntary movements and median nerve stimulation
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1048	R.J. Giannaula (Buenos Aires, Argentina)  Electrophysiological correlates of lithium tremor	1063	Essential tremor: Factors influencing the quality of life S. Telarovic (Zagreb, Croatia)
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1049	Is the central component of physiologic tremor a positive predictive factor for the incidence of a pathologic tremor?  H. Hellriegel, I. Petrovic, F. Pawlas, G. Deuschl, J. Raethjen (Kiel, Germany)	1065	Is botulinum toxin treatment useful in patients with tremor? S. Vohanka, B. Micankova, S. Skutilova (Brno, Czech Republic)
1050	(Kiel, Germany)  The effects of transcranial magnetic stimulation on electromyographic characteristics in primary writing tremor patients	1066	Direct evidence for central oscillators underlying neuropathic tremor D. Weiß, R. Govindan, A. Rilk, W. Tobias, B. Sorin, K. Rejko, A. Gharabaghi (Tubingen, Germany)
	M.R. Ljubisavljevic, M. Cukic, A. Kalauzi, S. Filipovic, I. Fatima (Al Ain, United Arab Emirates)	1067	Orthostatic tremor: A review of 40 cases T.C. Yaltho, J. Jankovic, W.G. Ondo (Houston, Texas, USA)



### 14th International Congress of Parkinson's Disease and Movement Disorders

Notes	



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# The Movement Disorder Society

# Certifies that

Disease and Movement Disorders on June 13-17, 2010 at Sheraton Buenos Aires Hotel and has attended The Movement Disorder Society's 14th International Congress of Parkinson's Convention Center located in Buenos Aires, Argentina.

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2010 Congress Scientific Program Christopher G. Goetz, MD Committee Chair

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2010 Congress Scientific Program Committee Co-Chair Oscar Gershanik, MD



# 15<sup>TH</sup> INTERNATIONAL CONGRESS OF PARKINSON'S DISEASE AND MOVEMENT DISORDERS



# SAVE THE DATE

October 4, 2010 — Abstract Submission Opens December 1, 2010 — Registration Opens January 7, 2011 — Abstract Submission Closes April 12, 2011 — Early Registration Deadline May 10, 2011 — Final Registration Deadline June 5-9, 2011 — 15th International Congress of Parkinson's Disease and Movement Disorders





# Dopaminergic and non-dopaminergic systems: the tango of Parkinson's disease

Corporate Therapeutic Symposium Monday 14th June 13:00 -14:00

Retiro Room Sheraton Buenos Aires Hotel and Convention Center San Martin, Buenos Aires

Co-chairs: Professor Anthony Schapira Professor Oscar Gershanik