



## Is Essential Tremor Predictive of Parkinson's Disease?

### Yes

—Elan D. Louis MD, MSc, Professor of Neurology and Epidemiology, Columbia University, New York, NY, USA

The possible link between essential tremor (ET) and Parkinson's disease (PD) has been a subject of interest and debate for some time. Dating back to the first comprehensive clinical review of ET in 1949,<sup>1</sup> there has been discussion regarding the possibility of a relationship between these two tremor disorders, with clinicians observing that ET patients have a tendency over time to develop PD.<sup>2,3</sup> Interestingly, the converse does not seem to occur (i.e., PD patients developing ET).<sup>2,3</sup> The co-occurrence of the two tremor disorders within the same families is also well-documented.<sup>4</sup>

Three epidemiological studies, including two case-control studies and one population-based prospective study, each provide measures of association that support the notion that there is a link between ET and PD and, furthermore, that the presence of baseline ET increases the risk of developing incident PD during follow-up.<sup>5,6</sup> The magnitude of the increased odds/risks reported in the three epidemiological studies is on the order of 3 to 13.<sup>5</sup> Most important of these was the 2010 prospective, population-based study that was conducted to estimate the incidence of PD in ET patients vs. normal controls.<sup>6</sup> The study sample was comprised of 3,813 elderly persons (age  $\geq 65$  years) residing in three communities in central Spain. The baseline evaluation consisted of an initial screening questionnaire followed by an in-person neurological examination; a follow-up examination was performed after a median time interval of 3.3 years. During that time interval, 6 of 201 (3.0%) ET cases vs. 24 of 3,574 (0.7%) controls developed incident PD (adjusted relative risk [RR] = 4.27, 95% confidence interval [CI] = 1.72 – 10.61,  $p = 0.002$ ).<sup>5,6</sup> Presently, there are no contrary data, either from case-control or prospective studies, to refute the model that ET is a risk factor for PD.<sup>5</sup> Moreover, the evidence from three genetic epidemiological studies is that ET and PD seem to co-occur in families to an extent

### No

—Charles H. Adler, MD, PhD, Professor of Neurology, Mayo Clinic College of Medicine, Mayo Clinic, Scottsdale, AZ, USA, Co-Principal Investigator, Arizona Parkinson's Disease Consortium

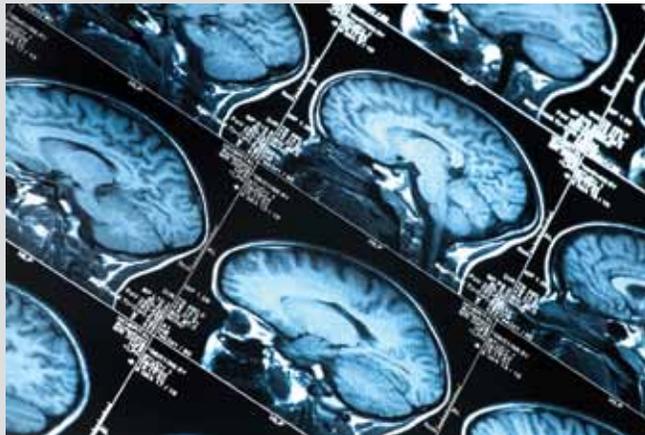
The relationship between essential tremor (ET) and Parkinson's disease (PD) has been debated for years. Whether ET is actually a risk factor for developing PD, or whether the relationship is merely

coincidental remains unclear. A major confounding factor for linking the two is our limited knowledge regarding their etiology. Both PD and ET appear to be syndromes and not diseases with a single cause so a link is difficult to prove. As there is no diagnostic test for either ET or PD, and the only definitive diagnostic finding for either is the presence of Lewy bodies and neuronal loss in the substantia nigra (SN) of subjects with PD, neuropathologic studies is the main focus of this presentation.

Clinically there is overlap between

ET and PD. Both may have rest, postural and kinetic tremor as well as some degree of bradykinesia and rigidity. However, these clinical findings do not guarantee a diagnosis of PD as it is clear that patients with all three cardinal features of PD can have normal dopaminergic imaging (so called Scans Without Evidence of Dopamine Deficiency) and no evidence of Lewy bodies neuropathologically. From a clinical-pathological standpoint there are two ways one can approach determining whether ET and PD are related: 1) Is there an increased occurrence of  $\alpha$ -synuclein staining or Lewy bodies in cases of ET, and 2) Is there an increase in ET in subjects with Lewy body pathology.

The number of autopsied cases of ET has been small. In the first few series there was no evidence of Lewy body pathology, even to the point of some cases with ET and parkinsonian features actually not having Lewy bodies and thus any linking of the two disorders would have been erroneous. More recently multiple pathologic series from a single group of investigators have proposed a link between ET and Lewy bodies. They have published a number of papers building on their case series and while initially the percentage of ET cases with Lewy bodies was greater than in the controls, their more recent papers have shown that there is no difference in Lewy body



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We hope you will enjoy this edition of *Moving Along*. The *Movement Disorder Society* continues to grow through our educational programs, website, journal and annual congress. This issue focuses particularly on our recent meeting in Dublin. Because of the spirited and academic discussion at the 16<sup>th</sup> International Congress, we have asked Dr. Charles H. Adler and Dr. Elan D. Louis to summarize the arguments that were presented regarding the relationship between essential tremor and Parkinson's disease. These reports add pathological description to the rich debate long held by epidemiologists and phenomenologists in the field.

A summary of the Dublin meeting is also provided and reminds of the record attendance (5,100) for the meeting. Congratulations and thanks to organizing committee for a tremendously successful meeting and to award winners listed in the issue. The Basic Movement Disorders Course, held prior to the MDS Congress, was a great success. Our Dublin course organizers renamed the session, "Bloomsday Basic Movement



Disorders Course" in honor of Leopold Bloom, made famous in the classic James Joyce novel, *Ulysses*.

In "My Generation", Dr. Santiago Perez-Lloret, graciously tells us the story of his family and its impact on his training as a physician. Santiago has been fortunate in his career to survive fellowship training from two of our most well-known colleagues, Dr. Marcelo Merello and Dr. Olivier Rascol. We hope you enjoy this section, and celebrate how the growth of our society can lead to such long-lasting friendships.

We are grateful for the support of the staff members of MDS, and the continuing growth of our Movement Disorders family. The editors take great pleasure in congratulating *Moving Along* Managing Editor, Elizabeth (Laur) Clausen, on her wedding, July 21, 2012. She has reminded us that the MDS Secretariat has been extremely busy with weddings and engagements this year: Jen (McTavish) Wolf, Program Manager; Megan Daniels, Program Manager; and Kate (Kirchner) Hausner, Meetings Manager celebrated marriages in 2012, while Kate Breckenridge, Senior Education Program Manager, and Kateri Collins, Program Manager, plan to join the Milwaukee young married couples club in the summer of 2013. Congratulations also to Pam Fierst, Executive Assistant, who welcomed a baby boy to her family in October. Finally, we must announce the birth of Nora Colosimo, Rome, March 28, 2012; a daughter that has stolen her father's heart and his sleep cycle!



Carlo Colosimo, MD



Mark Stacy, MD

**MDS Endorsed Study Groups**

**Benefits for Study Groups are:**

- Official recognition by The *Movement Disorder Society*
- Receiving a letter of recommendation from the MDS President
- Financial support for telephone conferences
- Meeting space during the annual MDS Congress

**Duties and responsibilities of Study Groups:**

- Defining the needs in a specific area of research
- Developing a scientific task on a long-term basis
- Reporting annually on the progress and next steps
- Scientific results should be submitted to the *Movement Disorder Journal*

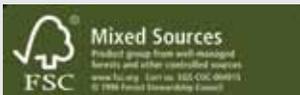
- To the extent possible, Study Group Chairs will assign copyright in rating scales to MDS, which may license rights for use by others.

**Study groups can be approved if:**

- The topic of the study is of major interest in the field of Movement Disorders
- The membership is open to world-wide participation and should include the major researchers in the field
- The members of the Study Group are MDS members (exclusions are possible on special request)

**Application process:**

- Submission of the project, its objectives and aims (timelines and deliverables)
- List of participants





The *Movement* Disorder Society



The interest in our specialty is steadily increasing and I will address two aspects of these developments today. At the 16<sup>th</sup> International Congress in Dublin, 5,144 participants from 82 countries met to learn about the latest in Movement Disorders. Due to the interest

in the Congress this year, MDS increased the number of travel grants it provided to help young neurologists attend the meeting (\$154,000 USD in grants was provided). In addition to the exceptionally high quality program put together by the Congress Scientific Program Committee (CSPC) under the direction of David Burn, the meeting was notable for its Grand Rounds Session, Video Games and Blue Ribbon Highlights. I would like to thank and congratulate the CSPC, Congress Local Organizing Committee (CLOC), and International Congress Oversight Committee (ICOC). While the Society is impressed with the success of the Dublin Congress, we are already preparing for the 17<sup>th</sup> Congress in Sydney. Thank you to all the members and attendees who submitted session ideas. The CSPC has carefully reviewed all suggestions from the membership and incorporated these in a preliminary program that will be available in the near future.

Participation is very important for our Society and is constantly increasing. One indicator is the membership grew by 6% in 2011 and by 14% in 2012, in addition to a record 356 members who have guided Society projects this year. Our field is enriched by the tireless efforts of these members who provide input on the best way to improve the care of patients suffering from Parkinson's disease and the many neurological diseases that result in movement disorders.

The *Movement* Disorder Society is preparing a next step to fulfill its mission to promote research into causes, prevention and treatment of movement disorders. The larger we grow the more important role our Society can have in the world-wide efforts to fight Parkinson's disease and other movement disorders. This new initiative builds on the truly international nature of MDS, which is one of its greatest strengths. By collaborating with one another, researchers and clinicians from all over the world can study topics which are of high priority to better understand and treat movement disorders. They can look at the many facets of the diseases, their causes and their management in countries all over the world. By combining the impactful research from different countries and fields, the Society will generate a huge additional value. The Society will continue to foster these collaborations and encourage scientific developments.

As a result of this growing demand for international collaboration and participation, MDS is launching MDS Endorsed Study Groups. MDS announced this new forum to help researchers who are committed to cooperative planning, implementation and reporting of research studies which need international participation in order to meet their goals. These groups have been created to promote research into causes, prevention and treatment of movement disorders. MDS is not and cannot be a funding source for these groups, but as the premier international professional society dedicated to advancing the neurological sciences pertaining to movement disorders, MDS will use its influence to encourage support and recognition.

MDS members can apply for endorsement of a study group in areas where clinical studies for etiology, diagnosis and/or treatment or collaborative basic science research are needed and can be accomplished on an international scope. The duration of each MDS Endorsed Study Group is unlimited, but the MDS Officers will re-evaluate the need for the study group after each four-year period. For more information, please see the box at the bottom of the adjacent page and on [www.movementdisorders.org](http://www.movementdisorders.org).

As our field expands and more colleagues around the globe get involved, the more we are able to encourage scientific developments in our field. I would like to thank those who participated in the recent MDS Membership Satisfaction Survey. Your input and guidance on the future direction of the Society and our field is deeply appreciated. It was with these results that the Society recently embarked on a strategic planning process to identify priorities in the coming years. Your participation has been vital for the effective and innovative leadership of our specialty.

Günther Deuschl, MD  
MDS President, 2011-2013

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## Record Attendance Numbers Reached in Dublin!

The 16<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, held in Dublin, Ireland on June 17-21, 2012, was the most successful and highest attended MDS Congress thus far! Filled with history and tradition, beautiful scenery, vibrant night life, flourishing culture and warm and friendly people, Dublin proved to be a perfect setting for 5,100 people to come together to network and to learn about the latest research and perspectives in the field of Movement Disorders. Everyone's participation made for several highlights during the week:

- 5,100 total people registered (including press and exhibitors)
- 82 countries represented
- 151 Travel Grants awarded
- 182 faculty members participated in the Scientific Sessions
- 1,598 posters and 38 late-breaking posters accepted
- 4 Therapeutic Plenary Sessions
- 9 Plenary Sessions
- 19 Parallel Sessions
- 8 Teaching Courses
- 7 Video Sessions
- 15 Skills Workshops
- 16 Guided Poster Tours
- 41 companies exhibited
- 22 representatives from the press attended

Prof. David John Burn led the Congress Scientific Program Committee (CSPC) to make every effort to ensure that the science for the 16<sup>th</sup> International Congress was diverse and educational. The 2012 Scientific Program incorporated Therapeutic Plenary Sessions, Corporate Therapeutic Symposia, Plenary and Parallel Sessions, Teaching Courses, Video Sessions, Skills Workshops, Controversies, Blue Ribbon Highlights, Poster Sessions and Guided Poster Tours. There were 13 sessions that were related to this year's theme of "The perils and promises of genetics in movement disorders," which allowed participants to have an educational and comprehensive overview on this subject.

This year, a record number of abstracts were accepted. Therefore, MDS built four marquee buildings for the posters next door to the Convention Centre Dublin (CCD) to better accommodate a large amount of delegates in the poster viewing area. As well as being the highest attended meeting the CCD has had since it opened in 2010, this was also the first time that any group has put posters in self-built marquees before.

All eight Teaching Courses from the 16<sup>th</sup> International Congress are available on DVD-ROM for purchase which includes slides, audio, video and the accompanying syllabi. All 13 Themed Courses are also available on DVD-ROM for purchase which includes slides, audio, and video. To order these DVDs, please visit <http://www.mdscongress2012.org/>.

The first official evening of the 16<sup>th</sup> International Congress commenced with the Welcome Ceremony on Sunday, June 17. The Chair of the Congress Local Organizing Committee, Prof. Timothy Lynch, opened the evening by introducing The Taoiseach (the prime minister of Ireland), Enda Kenny, who gave the official welcome address to the delegates. MDS President Günther Deuschl distributed the following awards during the Welcome Ceremony:

### Honorary Member Awards:

Mark Hallett, *Bethesda, MD, USA*  
Eduardo Tolosa, *Barcelona, Spain*

### President's Distinguished Service Award:

Hubert Fernandez, *Cleveland, OH, USA*  
Marcelo Merello, *Buenos Aires, Argentina*

### Stanley Fahn Award:

Andrew Lees, *London, United Kingdom*

### C. David Marsden Award:

John Hardy, *London, United Kingdom*

### Junior Awards

Marios Politis, *London, United Kingdom*  
Norbert Brüggemann, *Lübeck, Germany*  
Karin Tuschl, *London, United Kingdom*

Additionally, 151 Travel Grants were distributed. Please see page 6 for more information on these awards.

The presentation of awards was followed by a performance by the famous Irish accordionist, Sharon Shannon and her band. Halfway into their performance, the Celtic Dance Fusion joined them on stage for an unforgettable concert that left everyone sitting at the edge of their seats, tapping their feet and wanting more. After the Ceremony, the band continued to play in the foyer while people enjoyed dancing, wine and good company.

For the first time ever, MDS hosted an event at The National Concert Hall on Tuesday, June 19 along with the RTÉ Orchestra. The evening was filled with discussion and a full concert performance with Irish traditional phenomenon Lúnasa. Professor Steven Frucht led the talk on the science of learning music and the effect this has on the brain.

This Congress introduced a unique new session to the Scientific Program called The Movement Disorders Grand Rounds Session, which was held on Tuesday, June 19. The session invited six local patients to participate in a live-audience diagnostic question-and-answer session with a panel of MDS experts. The purpose of the session was for the audience to observe an on-the-spot examination and diagnosis of a patient by some of the top experts in the field of Movement Disorders.

The session was very well received by Congress delegates with over 700 in audience attendance. Special thanks go to the local doctors and chairs for their hard work and involvement in the development of this session, and to the volunteer patients for their enthusiasm and participation.

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## Record Attendance Numbers Reached in Dublin! continued from page 4

About 2,000 delegates gathered to watch unique movement disorder cases on the evening of Wednesday, June 20 during the 5<sup>th</sup> Annual MDS Video Games. The cases presented were selected from a large number of submissions by an international panel of reviewers. Led by the Masters of Ceremony Anthony Lang and Kapil Sethi, the world-renowned Panel of Experts engaged the audience by guiding them through the thought process of diagnosing challenging cases.

The ten cases that were presented to the Panel of Experts and the three short cases that were shown from the Masters of Ceremony came from Movement Disorder Centers around the world which offered an enjoyable spirit of competition to this event. The Gold medal was awarded to Tartu University Hospital in Estonia (presented by Liis Sabre; Neurosyphilis), the Silver medal was awarded to Centro Hospitalar de Porto in Portugal (presented Joana Damasio; NCL freezing), and the Bronze medal was awarded to Westmead Hospital (presented by Ainhi Ha; AV fistula).

The *Movement* Disorder Society would like to thank all of the institutions and national Movement Disorder groups who submitted a Letter of Intent at the start of this process and would especially like to thank those who were selected to present their case during the MDS Video Games. A DVD-ROM of the MDS Video Games is

available for purchase by ordering from the MDS website at <http://www.mdscongress2012.org/>. Please watch the website for more information about upcoming deadlines if you are interested in participating in the 6<sup>th</sup> Annual MDS Video Games to be held in Sydney on June 19, 2013.

To claim CME credit for your participation in the MDS 16<sup>th</sup> International Congress, please visit <http://www.mdscongress2012.org/cme/> and complete the on-screen instructions using your registration file number.

The *Movement* Disorder Society would also like to extend their gratitude to faculty, supporters, exhibitors and delegates for coming to Dublin and for helping make the 16<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders another successful meeting! As James Joyce said himself, "When I die, Dublin will be written in my heart."

Mark your calendars! MDS is already planning for the 17<sup>th</sup> International Congress in Sydney, Australia on June 16-20, 2013. Please visit our website for current details regarding this Congress at <http://www.mdscongress2013.org/> or contact the International Secretariat at [congress@movementdisorders.org](mailto:congress@movementdisorders.org) with any questions.

## 2012 MDS Awards Announced

During the 16<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, June 17-21, 2012 in Dublin, the Society was proud to honor the following MDS award recipients:

### 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 (MDS).*

#### 2012 Recipients

Marcelo Merello <i>Buenos Aires, Argentina</i>	Hubert Fernandez <i>Cleveland, OH, USA</i>
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Previous recipients of the President's Distinguished Service Award include Oscar Gershanik (2011), Anthony Lang (2010), Serge Przedborski (2009), Cynthia Comella (2008), C. Warren Olanow (2007), Eduardo Tolosa (2006), Stanley Fahn (2005), and Mark Hallett (2004).

### Honorary Member Award

The Honorary Member Award recognizes individuals who have made extraordinary contributions to the field of Movement Disorders or otherwise to The Movement Disorder Society.

#### 2012 Recipients

Mark Hallett <i>Bethesda, MD, USA</i>	Eduardo Tolosa <i>Barcelona, Spain</i>
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Previous recipients of the Honorary Member Award (formerly the Career Award) include John GL Morris (2011), Masaya Segawa (2011), Ann Graybiel (2010), Andrew Lees (2010), Yoshikuni Mizuno (2009), Ira Shoulson (2009), Alim Benabid (2008), Mahlon DeLong

(2008), Eldad Melamed (2007), Ali H. Rajput (2007), Niall Quinn (2006), Patrick McGeer (2006), Peter Jenner (2005), Thomas Chase (2005), Roger C. Duvoisin (2004), Hiroshi Shibasaki (2004), Yves Agid (2004), Stanley Fahn (2002), Oleh Hornykiewicz (2002) and Gerald Stern (2002).

### Junior Awards

*Three Junior Award recipients were selected based on their significant contribution to research in the field of Movement Disorders.*

#### 2012 Recipients

Marios Politis <i>London, United Kingdom</i>	Norbert Brüggemann <i>Lübeck, Germany</i>
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**Karin Tuschl**  
*London, United Kingdom*

Previous recipients of the Junior Award include Alexander Schmidt (Clinical 2011), George Tofaris (Basic Science 2011), Roberto Cilia (Clinical 2010), Raphael Hourez (Basic Science 2010), Helen Ling (Clinical 2009), Carlos Juri (Basic Science 2009), Luke Massey (Clinical 2008), Binith Cheeran (Basic Science 2008), Christine Daniels (Clinical 2007), Myriam Khondiker (Basic Science 2007), Andre Troiano (Clinical 2006), Akiko Imamura (Basic Science 2006), Peter Novak (Clinical 2005), Nutan Sharma (Basic Science 2005), David Williams (Clinical 2004), Pedro Gonzalez-Alegre (Basic Science 2004), Sylvie Raoul (Clinical 2002) and Jan Raethjen (Basic Science 2002).

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**2012 MDS Awards Announced** continued from page 5**Travel Grants**

MDS Travel Grants are offered annually in partial support of International Congress delegates in financial need to facilitate their travel to and participation in the International Congress of Parkinson's Disease and Movement Disorders.

**2012 Recipients**

- Hesham Abboud**  
*Strongsville, OH, USA*
- Aderbal Aguiar**  
*Florianopolis, Brazil*
- Rizwan Akhtar**  
*Philadelphia, PA, USA*
- Albert Akpalu**  
*Accra, Ghana*
- Amy Amara**  
*Birmingham, AL, USA*
- Moumita Bagchi**  
*Kolkata, India*
- Bettina Balint**  
*Heidelberg, Germany*
- Diego A. Ballesteros**  
*Monte Grande, Argentina*
- Nazanin Baradaran**  
*Vancouver, BC, Canada*
- Amit Batra**  
*New Delhi, India*
- Pedro Braga Neto**  
*Fortaleza Ceara, Brazil*
- Norbert Brüggemann**  
*Lübeck, Germany*
- Lena Burbulla**  
*Tübingen, Germany*
- Meghan Campbell**  
*St. Louis, MO, USA*
- Lama Chahine**  
*Philadelphia, PA, USA*
- Florence Chang**  
*Rochester, MN, USA*
- Tyler Cheung**  
*Los Angeles, CA, USA*
- Sara Cipriani**  
*Charlestown, MA, USA*
- Barbara Connolly**  
*Toronto, ON, Canada*
- Mario Cornejo-Olivas**  
*Lima, Peru*
- Toumany Coulibaly**  
*Bamako, Mali*
- Julien Cremers**  
*Liege, Belgium*
- Alexander Crizzle**  
*Gainesville, FL, USA*
- Dany Cuello-Almarales**  
*Holguin, Cuba*
- Kathrin Czarnecki**  
*Washington, DC, USA*
- Xiaojuan Dan**  
*Beijing, China*
- Andres Deik**  
*New York, NY, USA*
- Francesca Di Biasio**  
*Pozzilli, Italy*
- Flavia Dona**  
*Sao Paulo, Brazil*
- Antoine Duquette**  
*Brookline, MA, USA*
- Thomas Durcan**  
*Montreal, QC, Canada*
- Jennifer Durphy**  
*Saratoga Springs, NY, USA*
- Sheila Eichenseer**  
*Chicago, IL, USA*
- Alev Erogullari**  
*Lübeck, Germany*
- Michelle Ferreira**  
*Davie, FL, USA*
- Renzo Figari Jordan**  
*Baltimore, MD, USA*
- Karen Freimann**  
*Lübeck, Germany*
- Ines Goerendt**  
*Hamburg, Germany*
- Lior Greenbaum**  
*Ramat Gan, Israel*
- Stefan Groiss**  
*Fukushima, Japan*
- Angela Hardwick**  
*Gainesville, FL, USA*
- Anhar Hassan**  
*Gainesville, FL, USA*
- Aaron Haug**  
*Aurora, CO, USA*
- Amy Hellman**  
*Philadelphia, PA, USA*
- Christopher Hess**  
*Teaneck, NJ, USA*
- Daniel Huddleston**  
*Atlanta, GA, USA*
- Philippe Huot**  
*Toronto, ON, Canada*
- Tabish Hussain**  
*Islamabad, Pakistan*
- Mazen Jabre**  
*Byblos, Lebanon*
- Milena Jankovic**  
*Belgrade, Serbia*
- Marcus Janssen**  
*Maastricht, Netherlands*
- Han-Yeong Jeong**  
*Seoul, Korea*
- Lorraine Kalia**  
*Toronto, ON, Canada*
- Harikesh Kalonia**  
*Haryana, India*
- Suk Yun Kang**  
*Seoul, Korea*
- Eleanna Kara**  
*London, United Kingdom*
- Chayut Kasemsuk**  
*Bangkok, Thailand*
- Leo Kelly**  
*Chicago, IL, USA*
- Annie Killoran**  
*Rochester, NY, USA*
- Mi Jung Kim**  
*Seoul, Korea*
- Young Eun Kim**  
*Anyang-si, Korea*
- Hee Jin Kim**  
*Seoul, Korea*
- Katsuo Kimura**  
*Inuyama, Japan*
- Omesh Kulkarni**  
*Boston, MA, USA*
- Kishore Kumar**  
*Lübeck, Germany*
- Pardeep Kumar**  
*New Delhi, India*
- Sheng-Han Kuo**  
*New York, NY, USA*
- Jose Laffita-Mesa**  
*Holguin, Cuba*
- Travis Larsh**  
*Cincinnati, OH, USA*
- Temitope Lawal**  
*Lagos, Nigeria*
- Will Lee**  
*Melbourne, Australia*
- Johannes Levin**  
*Munich, Germany*
- Thien Thien Lim**  
*Tanjung Bunga, Malaysia*
- Corneliu Luca**  
*Miami, FL, USA*
- Martina Mancini**  
*Beaverton, OR, USA*
- Louise-Laure Mariani**  
*Montrouge, France*
- Jacqueline Medrano-Montero**  
*Holguin, Cuba*
- Tiago Mestre**  
*Toronto, ON, Canada*
- Shahnaz Miri**  
*Tehran, Iran*
- Kin Mok**  
*London, United Kingdom*
- James Morley**  
*Philadelphia, PA, USA*
- Mariana Moscovich**  
*Gainesville, FL, USA*
- Karen Murphy**  
*Sydney, Australia*
- Bogdan Neagu**  
*Thornhill, ON, Canada*
- Zhen Ni**  
*Toronto, ON, Canada*

## 2012 MDS Awards Announced continued from page 6

**Odinachi Oguh**  
*Chicago, IL, USA*

**Srivadee Oravivattanakul**  
*Cleveland, OH, USA*

**Serene Paul**  
*Blaxland, Australia*

**Jose Pedroso**  
*Sao Paulo, Brazil*

**Tasneem Peeraully**  
*Singapore*

**Gregory Pelicao**  
*Rio de Janeiro, Brazil*

**Zhongxing Peng Chen**  
*Gainesville, FL, USA*

**Sitthi Petchrutchatachart**  
*Nonthaburi, Thailand*

**David Peterson**  
*La Jolla, CA, USA*

**Camila Piccinin**  
*Sao Paulo, Brazil*

**Anna Pilipovich**  
*Moscow, Russia*

**Luiza Piovesana**  
*Campinas, Brazil*

**Ian Prescott**  
*Toronto, ON, Canada*

**Cecilia Prudente**  
*Atlanta, GA, USA*

**Mashiar Rahman**  
*Jeonju, Korea*

**Lucia Ricciardi**  
*Rome, Italy*

**Silvia Rios Romenets**  
*Montreal, QC, Canada*

**Roberto Rodriguez-Labrada**  
*Holguin, Cuba*

**Sergio A. Rodriguez-Quiroga**  
*Buenos Aires, Argentina*

**Liana Rosenthal**  
*Columbia, MD, USA*

**Ian Rossman**  
*Cleveland, OH, USA*

**Ignacio Rubio-Agusti**  
*London, United Kingdom*

**Anna Sadnicka**  
*London, United Kingdom*

**Anna Sailer**  
*London, United Kingdom*

**Rodolfo Savica**  
*Rochester, MN, USA*

**Lucia Schottlaender**  
*London, United Kingdom*

**Claudia Schulte**  
*Tübingen, Germany*

**Manu Sharma**  
*Tübingen, Germany*

**Leah Shiong Shu**  
*Manila, Philippines*

**Christos Sidiropoulos**  
*Farmington, MI, USA*

**Inder Singh**  
*New Delhi, India*

**Meredith Spindler**  
*Philadelphia, PA, USA*

**Carla Stefani**  
*Buenos Aires, Argentina*

**Claire Stevens**  
*Sydney, Australia*

**Ichiro Takumi**  
*Kawasaki, Japan*

**Sanjeev Taneja**  
*New York, NY, USA*

**Aanchal Taneja**  
*Dallas, TX, USA*

**Juan Tartari**  
*Buenos Aires, Argentina*

**Sirinan Tazen**  
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**Kristen Terpstra**  
*London, ON, Canada*

**Avner Thaler**  
*Tel Aviv, Israel*

**Mary Ann Thenganatt**  
*New York, NY, USA*

**Sherri Thiele**  
*Scarborough, ON, Canada*

**Amanda Thompson**  
*Gainesville, FL, USA*

**Iris Tien**  
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**Sule Tinaz**  
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**Aleksandra Tomic**  
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**Theresa Towle**  
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**Yevgen Trufanov**  
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**Karin Tuschl**  
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**Chizoba Umeh**  
*Ellicott City, MD, USA*

**Thiago Vale**  
*Belo Horizonte, Brazil*

**Celia Van Der Merwe**  
*Cape Town, South Africa*

**Christina Vaughan**  
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**Luis Velazquez-Perez**  
*Holguin, Cuba*

**Tuhin Virmani**  
*New York, NY, USA*

**Rinske Vlamings**  
*Maastricht, Netherlands*

**Jeff Waugh**  
*Medford, MA, USA*

**Anne Weissbach**  
*Lübeck, Germany*

**Kang-Ping Xiong**  
*Suzhou, China*

**Hui-Jun Yang**  
*Seoul, Korea*

**Sooyeoun You**  
*Seoul, Korea*

**JinYoung Youn**  
*Seoul, Korea*

**Ji-Young Yun**  
*Seoul, Korea*

**Heidemarie Zach**  
*Vienna, Austria*

**Alessandra Zanon**  
*Bolzano, Italy*

*The 2012 Travel Grant Program was partially supported by an unrestricted educational grant from Merz Pharmaceuticals, LLC.*



## 2013 International Congress Travel Grant Program

The *Movement Disorder Society* (MDS) is offering up to 100 travel grants of a maximum amount of \$2,000 USD each in partial support of International Congress delegates in financial need to facilitate their travel to and participation in the 17<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders in Sydney, Australia, June 16-20, 2013.

International Congress registration fees will be waived for all travel grant recipients, and the amount of each travel grant given will be determined by the Awards Committee, based on criteria including the applicant's location in relation to the 2013 International Congress.

The deadline to submit the official Online Travel Grant Application is **January 11, 2013**. Successful awardees will be notified at the end of February 2013.

For more information or to submit the Travel Grant Application online, please go to <http://www.mdscongress2013.org/abstracts/travel-grants.php>.

## Bloomsday Basic Movement Disorders Course

—Sean O’Riordan, MD, FRCPI, Consultant Neurologist, St. Vincent Hospital, Dublin, Ireland and Claudia Trenkwalder, MD, Chair, Paracelsus-Elena Hospital, Kassel, Germany

The recent Basic Movement Disorders Course held at the Royal College of Physicians of Ireland building in Dublin was a great success. The course was held on Bloomsday, June 16, so named to mark the date of Leopold Bloom’s adventures in James Joyce’s classic novel, *Ulysses*. The course was well-attended, with more than 70 eager participants from 19 countries. It provided a valuable overview of the evaluation and management of common movement disorders and was held immediately before the 16<sup>th</sup> International Congress. Participants included students, allied health professionals, nurses, geriatricians, general practitioners and neurologists.

To mark the Bloomsday association, Professor Fergus Shanahan, Consultant Physician and Joycean expert, delivered an outstanding, thought-provoking, lecture titled “James Joyce and Medicine”.

Through a series of nine lectures, attendees received a broad overview of movement disorders assessment and management strategies. Many helpful videos were demonstrated to illustrate the talks and there was plenty of audience participation with the use of an Audience Response System to enhance interactive learning. Feedback from course participants was excellent.

The Course Co-Directors, Prof. Claudia Trenkwalder and Dr. Sean O’Riordan, would like to thank their fellow faculty members,

Prof. Fergus Shanahan, Dr. Raymond Rosales, Dr. Carlo Colosimo, Dr. Janis Miyasaki, Dr. Timothy Counihan, Dr. Victor Fung, Prof. Joaquim Ferreira and Dr. Roongroj Bhidayasiri for making the day such a success.



Faculty and attendees at the Bloomsday Basic Movement Disorders Course in Dublin, Ireland.



The *Movement Disorder Society*

## New on the MDS website!

Take the new online training and exercise program for the Unified Dyskinesia Rating Scale (UDysRS) on The *Movement Disorder Society's* website

The UDysRS training is available wherever you have Internet access. Enhance your knowledge for personal use and patient care or for rater training for clinical studies\*

\*MDS members can take the training for FREE for personal use, but fees apply for use in funded clinical trials.

For more information, visit  
<http://udysrs.movementdisorders.org>

UDS-001-181

## Busy? Now you can listen to Journal abstracts anytime, anywhere!

—Hubert Fernandez, MD, Head, Movement Disorders, Cleveland Clinic, Cleveland, Ohio, USA and Marcelo Merello, MD, PhD, Head, Movement Disorders, FLENI, Buenos Aires, Argentina, MDS Website Co-Editors

We are pleased to announce that beginning with the May 2012 issue of *Movement Disorders*, you will be able to download and listen to podcasts of the abstracts of research articles published in each issue of the Journal.

First, you will need to download a free QR code scanner from your smartphone's app store. Then look for the QR code in the Table of Contents of each issue and simply snap a picture of it with your smartphone. You will then be instantly redirected to the podcasts on the MDS website.



With the Society's new web-based media player, listen to individual podcasts of interest, or you may listen to the entire podcast report on your smartphone, tablet or from any desktop computer. The state-of-the-art media player works on the latest platforms for iPad®, iPhone®, Android™ and BlackBerry® mobile devices.



## Video Case Regional Section Competition Winners Announced at 16<sup>th</sup> International Congress

For the first time, the Society held a friendly competition among the three regions (AOS, ES, PAS) for best video case representing a movement disorder. Fifteen cases were submitted by members from around the world, including Taiwan, Sweden, Canada, Italy, United States, Spain, India, Ireland and Poland.

The cases were narrowed down to seven and then reviewed by the Web Editorial Board, with three finalists selected. The first place winner received an Amazon gift card worth \$200 and all winners received certificates and were acknowledged during the MDS Video Games at the 16<sup>th</sup> International Congress in Dublin, Ireland.

The three winners' cases may be viewed on the MDS website.

The winners are:

### FIRST PLACE – European Section

“A 32-year-old presents with headache during first trimester” submitted by Dr. Allan McCarthy, Ms. Jennifer Dineen, Prof. Timothy Lynch and Mr. Killian O'Rourke of The Dublin Neurological Institute, The Mater Misericordiae University Hospital in Dublin, Ireland.

### SECOND PLACE – Asian Oceanian Section

“A floppy boy who went to school” submitted by Dr. Gurusidheshwar Wali, Neurospecialties Centre, India, with Dr. Nenad Blau and Dr. Beat Thöny, University Children Hospital, Switzerland.

### THIRD PLACE – Asian Oceanian Section

“A Taiwanese woman presents with involuntary movement of the right upper limb and motor disability of the left upper limb” submitted by Dr. Yi-Cheng Tai and Prof. Ruey-Meei Wu, National Taiwan University Hospital, Taiwan.

### A ‘Thank You’ to Nine Who Served

The Co-Editors would like to extend their sincere thanks and appreciation to nine MDS members who served on the Web Editorial Board through the 2012 International Congress. They are:

David John Burn, *UK*  
Susan Fox, *Canada*  
Joseph Jankovic, *USA*  
Meike Kasten, *Germany*  
Jaime Kulisevsky, *Spain*  
Kelly Lyons, *USA*  
Elena Moro, *Canada*  
Glenn Stebbins, *USA*  
Leo Verhagen, *USA*



Dr. Allan McCarthy receives the award on behalf of his team for the first MDS Website Case of the Month video competition.

## Health Professionals (Non-Physician) Special Interest Group meets at 16<sup>th</sup> International Congress to set plans in motion

—Mariella Graziano, BSc (Hons), Luxembourg, MDS Health Professionals (Non-Physician) Special Interest Group



The 16th International Congress of Parkinson's Disease and Movement Disorders successfully took place in Dublin, Ireland with encouraging outcomes for all health professionals. Our Special Interest Group (SIG) organizational meeting was well attended by nurses, physiotherapists, occupational and speech therapists, medical practitioners as well as other health professionals.

Professor Lynn Rochester presented a transformational evidence-based framework for the physical therapies in Parkinson's, highlighting the need to consider the interplay between motor and non-motor symptoms when planning a physiotherapy program. Prof. Rochester showed that whilst evidence for some strategies, exercises and physical activity programs is established, the validity of some interventions requires confirmation. One of the present challenges is to identify the dose and intensity of physical activities and exercises according to disease stage, age, medication status, social situation and co-morbidities. Her inspiring presentation showed that clinical research in this domain is rapidly advancing and clinical guidelines need to be updated to keep pace with emerging evidence.

Dr. Lisette Bunting-Perry and Ms. Gwyn Vernon delivered a lively dual presentation on The Edmond J. Safra Visiting Nurse Faculty Program. This initiative was launched in 2009 with funding from The Edmond J. Safra Foundation. The goal is to infuse knowledge into undergraduate schools of nursing. The model is based on the concept of "train the trainer" and fills a knowledge gap identified by a 2008 national survey of top US Schools of Nursing.

All three presentations are available for viewing on the Health Professionals webpage at [www.movementdisorders.org/healthprofessionals](http://www.movementdisorders.org/healthprofessionals).

The Dublin Congress included a number of international standard plenary sessions, parallel sessions and workshops run by nurses, allied health professionals and other members of our special interest group. We were proud to hear the excellent presentations from our members, including: Prof. Fay Horak, Prof. Lynn Rochester, Prof. Alice Nieuw-

boer, Dr. Marten Munneke, Mr. Steve Smith, Mr. Brian Magennis, and others. These were of a very high standard and highly relevant to clinical practice.

Health professional poster presentations at the Dublin MDS conference were also numerous and well attended. Abstracts pertaining to genetics, gait-balance-exercise, quality of life, models of care, speech/swallowing, cognition-neuropsychology and psychiatry are available on the *Movement Disorders Journal* website, [www.movementdisordersjournal.com](http://www.movementdisordersjournal.com).

A large number of health professional participants attended the pre-Congress activities which took place on June 16. One such event, the Bloomsday Basic Movement Disorders Course, drew over 70 family physicians, general neurologists, trainees, nurses, physiotherapists and other health professionals. The aim of this particular course was to offer basic understanding of movement disorders and provide a foundation for participants, who were also attending the Congress the following week.

Another well-attended course, which attracted physiotherapists from across Ireland, was "Multidisciplinary Management of Atypical Parkinsonism Including Progressive Supranuclear Palsy (PSP), Multi-system Atrophy (MSA), Corticobasal Degeneration (CBD) and Lewy Body Dementia (LBD)." It was organized by the Chartered Physiotherapists in Neurology and Gerontology (CPNG) together with The Association of Physiotherapists in Parkinson's disease in Europe (APPDE).

It is encouraging to see the increasing presence and contribution of Health Professional (Non-Physician) at the MDS annual Congress. Please take a few minutes to complete the Needs Assessment Survey accessible on the MDS website ([www.movementdisorders.org/healthprofessionals](http://www.movementdisorders.org/healthprofessionals)). This will allow us to get to know you better and how best meet your professional needs.

Scan the QR code above with your smartphone to go directly to the MDS Health Professionals (Non-Physician) SIG webpage.



## MDS Website Raffle Winners Announced

At the International Congress held in Dublin this past June, 284 delegates answered a short online survey with questions about MDS website features. Delegates were able to take the survey at the MDS booth on an iPad, or from any mobile device or computer during the week of Congress.

Three winners were randomly selected from among the entries, with each winner receiving an iPad® Wi-Fi (32GB) to take home from the meeting.

The winners were:

MDS member Dr. Lillian Lee, *Philippines*  
MDS member Dr. Hing Lung Ip, *Hong Kong*  
MDS member Dr. Roser Ribosa-Nogue, *Spain*

Thank you to all who entered! Your feedback about the website is very valuable to MDS and will help us deliver the tools and resources you need as a member of the Society.

## My Generation: Dr. Santiago Perez-Lloret

—Santiago Perez-Lloret, MD, PhD, CPI; Marcelo Merello, MD, PhD, Buenos Aires, Argentina; Olivier Rascol, MD, PhD, Toulouse, France



Dr. Santiago Perez-Lloret tells us about his family, education and early medical career:

**Dr. Perez-Lloret:** I was born in a family whose history may reflect the cultural development of Argentina. My grandfather owned some land in the countryside where he grew cereal grains and raised cattle. Those were the lands that his father

had rented half a century earlier, after arriving to Argentina from Spain at the dawn of the 19<sup>th</sup> century. My grandfather used to tell us that while visiting those lands, before renting them, his father was invited to a barbecue, using cattle's skulls as seats during lunch!

There has been a lot of water under the bridge since those days. My grandfather was unable to realize his dream of becoming a physician, as he had to take over the farm. Nonetheless, by his inspiration, my father and his sisters moved to Buenos Aires and went to the university. My father became a physician and met my mother, who was a clinical biochemist.

I grew up in Buenos Aires, surrounded by *Tango* and *bohème*. I've always liked to explore and know things and I realized that medicine was a splendid art, mixing humanistic and hard sciences content. I started working in the Neuroscience Laboratory at the University of Buenos Aires when I was 20 years old, under the direction of Dr. Daniel Cardinali. He accompanied me during my first unsteady steps in science and had been a source of inspiration for my work ever since. After carrying on animal studies on chronobiology, I took part in several clinical projects about sleep and chronobiological disorders as well as the efficacy and safety of melatonin for their treatment.

In 2003, I came across Parkinson's Disease (PD) serendipitously, but it was a *coup de cœur*. I began working with Prof. Marcelo Merello at the Raul Carrea Institute for Neurological Research in sleep and biological rhythms disorders in PD, while at the same I performed my training as specialist in pharmacology. I later met my wife, Verónica, the most charming, intelligent, and supportive person I have ever known, who also works in PD.

**Dr. Merello:** If drawing young students' interest towards academic medicine is not an easy task to do around the world, it is even a harder chore here in Latin America. That is why, when I met Santiago some years ago, I knew instantly by the way he filled my data base with ideas and data (and most significantly how he spent in advance from his already subsidized account) that he was one of the few young professionals I did not want to lose. Organized, proactive and an avid bookworm, he also did not go unnoticed when the music playing in the background at the lab switched from 'The Killers' or 'Red Hot Chili Peppers' to 'Tango'. Amazing yet true, he is one of the few young Argentines I have ever met in Buenos Aires so crazy over Tango – so much so that during his prolific visit in Toulouse with Olivier Rascol, he wrangled it out to have his own internet tango radio show every Saturday morning broadcasting from Toulouse to the world. Quite a challenge! I have no doubt that, in the short term, Santiago will become someone of reference in Movement Disorders in our region, with a promising academic career.

**Dr. Perez-Lloret:** Prof. Merello introduced me to Prof. Olivier Rascol, and in 2008 he offered us positions at the Toulouse University Hospital Pharmacology Department. In collaboration with Prof. Jean-Louis Montastruc, we did pharmacovigilance in PD. We also followed extensive training in pharmacoepidemiology, clinical pharmacology, and biostatistics. It has been an exciting time, and I'm grateful to Marcelo and Olivier for their continuous support and their wise and cheerful guidance.

**Prof. Rascol:** My first impression when I met Santiago was that it was quite a unique opportunity to work with a young clinical pharmacologist curious of movement disorders. There are indeed very few young doctors worldwide with the ambition of combining expertise in both fields, while there is so much to be done in this area. As promised by his mentor in Buenos Aires, Prof. Merello Santiago proved during his fellowship to be curious and open-minded, creative, competent, hard working and reliable. He actively contributed in Toulouse into many different original projects, including clinical trials to test the efficacy and safety of new antiparkinsonian medications, based on novel designs and novel clinical outcomes. He ran several pharmacovigilance and pharmacoepidemiological projects, generating and manipulating local and national databases to better understand drug consumption and adverse drug reactions in Parkinson's disease and other movement disorders. Santiago developed excellent skills for all these tasks and generated numerous good publications from all these works. His professionalism and good character are unanimously appreciated by his colleagues of the Toulouse neuro-pharmacological unit and clinical research center. He is now an achieved clinical pharmacologist expert in movement disorders, one of the very few of his generation. This is a strong and original background. He might use it well back in Latin America. But I guess that such a background, combined with his perfect mastery of the Spanish, French and English languages, might also offer him innovative opportunities in future academic or industrial clinical research European programs.

**Dr. Perez-Lloret:** We were surprised from the very beginning by the differences between Buenos Aires and Toulouse. It was not only the size difference (about 15 vs. 1 million people) but also the way of living and thinking. Buenos Aires is, according to a tango song by Eladia Blazquez, "a challenging but rewarding beautiful, young woman". It is a land of opportunities where everything is to be made, but you have to be able to rapidly adapt to changing, demanding and sometime violent circumstances. On the other hand, Toulouse is a 2,000 year-old, lovely and peaceful city. French people are very ordered and respectful. France is a rich and culturally-developed country, and there are few places offering a comparable quality of life. Argentina is an "adolescent" country, still struggling in uncertain dark waters. But I'm confident we will get there; Latin-America still has much to offer to the rest of the world! We left Argentina seeking to get insights and tools that might help our country. We hope to come back someday and apply everything taught to us by the great French people.



## Werner Poewe, MD

*Chair, MDS-ES*

What a pleasure it was for European Section members to participate in the Movement Disorder Society Congress in Dublin - a superb Congress in a wonderful European city! It was good to see a European entry announced during the Video Olympics as a prize winner in the Case of the Month video competition. The case from Ireland 'A 32-year-old presents with headache during first trimester' was submitted by Dr. Allan McCarthy and colleagues, and can be viewed on the MDS website.

From Dublin, it was less than three weeks to the Summer School in Paris organized by Marie Vidailhet - the latest in this highly successful program series, enjoyed by students and faculty alike.

In 2012 we saw the last stand-alone EFNS Congress, which took place in Stockholm, September 8-11. A record number of 269 Movement Disorders abstracts were submitted this year. Over the last 10 years our collaboration with EFNS has enabled us to bring Movement Disorders teaching to a general neurology audience, our programs always attracting large audiences and receiving excellent evaluations. The MDS-ES income share from the EFNS Congress Movement Disorders satellite symposia over this 10 year period has exceeded \$1,000,000 USD.

The Section supported two EFNS regional educational activities in May; Angelo Antonini, Alexander Münchau and Susanne Schneider were our invited faculty for the EFNS Academy for Young Neurologists at Staré Splavy in the Czech Republic, and Joaquim Ferreira, Mário Miguel Rosa and Pille Taba represented us at the EFNS Regional Teaching Course in Iasi, Romania. I thank them all for giving so generously of their time for these important outreach activities to Eastern Europe.

The work of the EFNS/MDS-ES Scientist Panel on Parkinson's disease and Other Movement Disorders has continued apace; European recommendations on the Diagnosis of Parkinson's disease went to the EFNS Scientific Committee for final ap-

proval, and Alfredo Berardelli gave a presentation on this topic at the EFNS Congress in Stockholm. The updated summary of our extensive recommendations for the management of early and late Parkinson's disease is in press in the European Journal of Neurology. New Task Forces on Huntington's disease and Essential Tremor are starting work this year, and will lead to new European recommendations being published in 2013.

I hope you have had a chance to look at the newly revamped European section webpage.

Our Section Web Editor, Carlo Colosimo, will welcome your contributions and ideas for the webpage, so please send them to him at [carlo.colosimo@uniroma1.it](mailto:carlo.colosimo@uniroma1.it).

With the end of our annual participation in the EFNS Congress came another change for the European Section, in that we no longer have a dedicated part-time staff member in Europe. The great success of the European Section has led to the creation of new Sections in other regions, and with it the decision to harmonize the management of all Sections within the International Secretariat in Milwaukee. Karen Henley has managed the Section since its inception, and the level of her dedication and service to MDS-ES has been outstanding! Karen's attention to detail and level of professionalism has certainly made my task as Section Chairman a lot easier. During the MDS Business Meeting in Dublin, Karen was awarded a plaque in recognition of her huge contribution and service to MDS-ES.

Werner Poewe  
Chair, MDS-ES

## A Brief Personal History of the European Section

In 1998, MDS was looking for a new management company that could handle its day to day administration as well as its Congresses, and I was part of the team from Executive Director, Inc. that traveled to New York for the interview. I recall being asked a question by Mark Hallett, which I responded to at length and with great enthusiasm, adding as an afterthought “I haven’t actually answered your question, have I!” I knew from this first meeting that I wanted to work with MDS, and I was thrilled when I heard that Executive Director, Inc. had been selected and that I would be providing services to the Society in Europe.

The European Section’s first Chair was Andrew Lees, who oversaw the creation of this first MDS Regional Section – at the time there was some uncertainty about what could and what should be done at a regional level, and it was clear that the success of the European Section would have important implications for the future strategic development of the Society. In 2000, I accompanied the new Section’s leadership to Vienna to

meet the EFNS, where we discussed the terms of a future collaboration and negotiated a major role for MDS-ES in the annual EFNS Congresses, in return for MDS-ES agreeing not to hold competing congresses in Europe. I am happy to see this highly-successful collaboration through to its conclusion with our program of activities in Stockholm.

Over the years, serving the successive Executive Committees and Section Chairs, Andrew Lees, Eduardo Tolosa, Niall Quinn, Wolfgang Oertel, Alfredo Berardelli, and now Werner Poewe, I have had the privilege to work with amazing people, and my role as Associate Executive Director of MDS has become a hugely fulfilling vocation. I will miss my Chairs, all ‘my’ European members, and my friends in MDS enormously, but I hope to keep in touch. Thank you all for your collegiality, support and friendship over the last 13 years.

Karen Henley  
Associate Executive Director  
London, United Kingdom



## 5<sup>th</sup> Annual MDS-ES Summer School for Young Neurologists – Paris, France, July 6-8, 2012

The fifth annual MDS-ES Summer School for Young Neurologists was held in Paris, France, on July 6-8, 2012. This course received over 150 applications for less than 50 available spaces. There was a lot of competition, but those who could not attend this time are most welcome for a future course and invited to apply again. The Summer School course was attended by 47 participants from 46 countries, including Western European, Eastern European and African regions. Three delegates from Sub-Saharan Africa were supported through funding from the Task Force on Africa, and 19 travel grants were distributed to those residing in Northern Africa and Eastern Europe.

The course was held at the Hôpital Pitié Salpêtrière and was directed by Marie Vidailhet (Paris, France), Joaquim Ferreira (Lisbon, Portugal), and Bastiaan Bloem (Nijmegen, Netherlands). A further 17 faculty participated in the course: Alberto Albanese (Milan, Italy), Mathieu Anheim (Paris, France), Isabelle Arnulf (Paris, France), Paolo Barone (Naples, Italy), Kailash Bhatia (London, UK), Alexandra Durr (Paris, France), Gilles Fénelon (Paris, France), David Gragli (Paris, France), Andreas Hartmann (Paris, France), Marie Hélène Marion (London, UK), Werner Poewe (Innsbruck, Austria), Niall Quinn (London, UK), Olivier Rascol (Toulouse, France), Evžen Růžička (Prague, Czech Republic), Pille Taba (Tartu, Estonia), Stéphane Thobois (Paris, France), and Gregor Wenning (Innsbruck, Austria).

Day one of the course focused on hypokinetic disorders and included seven plenary lectures on Parkinson's disease from phenomenology (including impulse control disorders and cognitive disturbances) to treatments (pharmacology and deep brain stimulation). Other parkinsonian syndromes such as PSP and MSA were also covered. In addition, and in relation with

the morning lectures, the young neurologists attended, in the afternoon a skills workshop of expert guided patient examinations. During the patient examinations, participants were able to see nine different live patients with expert faculty members. Frequent and rare disorders were presented including DBS in Parkinson's disease, FXTAS, Essential Tremor, orthostatic tremor, PSP, MSA and various types of ataxias including AOA1 and Freidreich.

Day two focused on hyperkinetic disorders and included seven plenary lectures on dystonia, botulinum toxin, tremor, myoclonus, tics, and ataxias. There was a "bring your own patient" session where each student presented a video case of their own, and a skills workshop with nine guided patient examinations, with disorders related to the lectures of the day (various types of dystonia including rare genetic forms and metabolic disorders, Wilson's disease, etc). This was completed by an evening video session with didactic cases presented by various members of the faculty.

Day three addressed simple and complex patient management issues and included six plenary lectures (sleep, treatments) and the 10 chosen student case presentations from the previous day. Of the 10 presentations, three were voted as the winners by the other participants and were awarded free registration to the 17<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders in Sydney, Australia.

The young neurologists were very enthusiastic with the course and especially with the patient examination sessions. The three days were very intense, no time to go sightseeing (it was raining)! Overall the Summer School program was a great success for the MDS-ES. We are already looking forward to the next Winter School course in Tartu, Estonia, in 2013!



The Movement Disorder Society ~ European Section

## EVIDENCE BASED MEDICINE UPDATE ON TREATMENTS FOR PARKINSON'S DISEASE

Register now at [www.movementdisorders.org/education](http://www.movementdisorders.org/education).

MDS-1012-650

**JANUARY 18, 2013 - INNSBRUCK, AUSTRIA**

## 2<sup>nd</sup> International Conference on Knowledge Gaps in Parkinson's Disease and Other Movement Disorders – February 9-11, 2012, Santa Margherita Ligure, Italy

In February 2012, the 2<sup>nd</sup> International Conference on Knowledge Gaps in Parkinson's disease and other Movement Disorders was held in Santa Margherita Ligure – Italy, with the support of the Movement Disorder Society and the Italian Association for Parkinson's disease and Extrapyrarnidal Disorders (LIMPE).

The success of the first “Gaps” conference held in Taormina – Italy, in February 2010 and the numerous unresolved issues in the complex field of movement disorders were strong arguments in favor of organizing a second edition of the symposium, organized by Alberto Espay (Cincinnati, OH, USA), Alfonso Fasano (Rome, Italy) and Francesca Morgante (Messina, Italy) and chaired by Giovanni Abbruzzese (Genoa, Italy).

The conference focused on aspects of Parkinson's disease and other movement disorders that are insufficiently understood or have been recently challenged on genetic, pathogenetic, clinical and/or therapeutic grounds. The three-day symposium assembled 27 leading young and senior clinical scientists aimed at advancing the clinical and scientific disciplines within this field.

Three presidents of The *Movement* Disorder Society attended the meeting: Prof. Anthony Lang (2008-09), Philip Thompson (Past-President) and Günther Deuschl (President). The scientific program addressed knowledge gaps in pathogenesis, nosology, natural history and (disease modifying) treatments of, among other disorders, PD, dystonia, progressive myoclonic encephalopathies, Huntington's disease, and the complex nosography of neuro-degenerations with brain iron accumulation. The role of basal ganglia and motor cortex in volition was also an important part of the agenda for the final day of discussions. Each speaker addressed the main knowledge gaps and closed the lecture with a proposal on how to bridge or minimize them. The 2<sup>nd</sup> International Conference on Knowledge Gaps in Parkinson's disease and other Movement Disorders was deemed a success in every measure, not least by the enthusiastic and active participation of hundreds of delegates. This Congress is held every two years and readers willing to have additional information on previous and future congresses can access [www.gapsinmds.com](http://www.gapsinmds.com).



*Alfonso Fasano, Francesca Morgante and Alberto J. Espay during the conference introduction.*



**Ruey-Meei (Robin) Wu, MD, PhD**  
*Chair, MDS-AOS*

Thank you to all AOS members who attended the 16<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders in Dublin, Ireland, on June 17-21. It was a very successful meeting, and it was good to see so many colleagues present. The AOS region is growing, energized and looking forward to the coming year.

I am happy to report that the AOS membership increased by over 500 people since the last MDS Congress. The largest increases have been in India and Thailand. In addition, in Dublin the AOS Executive Committee approved the first participant in the newly-launched AOS Traveling Fellowship Program. This is an exciting program that we hope will enable education, training and experience in movement disorders across the region and foster long term links between medical training and research sites within the AOS.

Other exciting educational opportunities were the Botulinum Toxin (BoNT) Training Course in Manila, and the 2014 AOPMC in Thailand. The BoNT Training Course was espe-

cially exciting, because it was the first-ever MDS hosted course in the AOS. Dr. Raymond Rosales was the Course Director for this event and worked closely with the MDS Secretariat to organize a very successful course, which was held August 24-25. The planning for the AOPMC is still in the initial stages, but you should plan to attend in Thailand in 2014.

Another current focus is the 2013 election cycle. I am currently working to organize the nominating committee for this election, which will nominate five new members to the AOS Executive Committee for the 2013-2015 term, and three new officers for the 2015-2017 term. The office positions are Chair-Elect, Secretary-Elect and Treasurer-Elect.

Ruey-Meei (Robin) Wu, MD, PhD  
 Chair, MDS-AOS

## The MDS-AOS Botulinum Toxin Training Course in Manila: First of its kind

—Raymond L. Rosales, MD, PhD, Metropolitan Medical Center, Manila, Philippines

On August 24-25, the first-ever MDS-sponsored course in The Philippines took place at the Philippine International Convention Centre. The Botulinum Toxin (BoNT) Training Course was attended by 126 neurologists from the Philippines and several other countries of Asia. This two-day workshop was intended to address the practice gap for botulinum toxin training through didactic lecture from international experts, interactive case discussions, and a patient practicum. The targeted audience for this course were medical practitioners in relevant fields with a working knowledge of the diagnosis and general management of various movement disorders, be the individual a first-time injector, or a newly experienced injector.

The BoNT course had Platinum Sponsorship from Ipsen and Gold Sponsorship from Allergan. The practicum vials were kindly provided by Ipsen, while the support nursing personnel and utilities were provided by the CNS (Center for Neurodiagnostic and Therapeutic Services) of Metropolitan Medical Center. The three assistant faculties also belong to the same hospital. There were a total of 25 Filipino cases with various dystonias, spasticity, and hemifacial spasm, who gave informed consents for the injection demonstration.

One hundred percent of participants either agreed or strongly agreed that the program was relevant to their practice. Effective marketing efforts targeting this group, as well as overwhelming positive evaluative results in learning during the course, indicate that the BoNT Training in Neurological Practice was a highly successful educational effort.





## Jorge L. Juncos, MD

*Chair, MDS-PAS Organizing Committee*

The MDS-PAS looks forward to culminating this transition period with the election of an Executive Committee in 2013. In the past two years it has been our goal to broaden MDS representation across the region and to engage more members in our education mission and other MDS challenges throughout the hemisphere. An important first step was becoming more familiar with each other through planning courses and meeting the singular challenges of each region. While the process progresses, important challenges still remain such as financing the educational activities, increasing the use of the MDS webpage and making better use of technology and partners to achieve our goals. As we continue to develop, we have built cohesiveness and forged a path for PAS members to become better students, teachers, and leaders. The electoral process is a clear vehicle towards promoting leadership in the field, allowing regional leaders to leverage their talent and commitment to our mission globally.

This path has been built one block at a time. In 2012, we had a wide range of activities in every region of PAS. Each initiative succeeded as a function of individual efforts, the guidance of a needs assessment, and the assistance of the MDS committees and staff. Though the MDS global cohesiveness depends in part on having a single administrative language, English, we also recognize that, to meet the needs of our members, educational activities and select materials have to be delivered in the local language. In our case this has meant materials distributed in English, Spanish, Portuguese and French.

During the second half of 2012, PAS has continued to sponsor programs across the hemisphere. For instance, in August, Dr. Emilia Gatto and Prof. Silvia Mora organized a successful three-day Movement Disorders course in Buenos Aires, Argentina. Through the MDS Visiting Professor Program they expanded

their faculty to include Drs. Anthony Lang and Irene Litvan. There were approximately 90 participants, double of that anticipated. In September 2012, PAS hosted its first Botulinum Toxin Training Workshop in Cochabamba, Bolivia, directed by Dr. Janeth Laguna. The course drew participants from six countries and introduced the use of botulinum toxin to movement disorder neurologists in Bolivia, a use heretofore limited to dermatology and cosmetology. On October 2012, Prof. Federico Micheli Sr. presented his second *Jornada Internacional de Movimientos Anormales* in Mendoza, Argentina. This program also took advantage of the MDS Ambassador Program with Professors Rosario Luquin and Peter LeWitt as ambassadors. The Ambassador Program will be tapped again in November at the IV *Central American Congress* in Managua, Nicaragua directed by Dr. Walter Diaz.

In North America, Dr. Mark Stacy completed a successful task force meeting on *Impulse Control Disorders in Parkinson's Disease* in Boston, MA, USA. In November, we look forward to the course *Evidence Based Medicine Update on Treatments for Parkinson's Disease*, hosted by Drs. Susan Fox and Klaus Seppi in Toronto. This course will be showcased again in January 2013 in Innsbruck, Austria. This approach of cultivating and refining courses to be showcased globally follows in the footsteps of the "School for Young Neurologists", a concept that originated in Europe, and successfully adapted in Brazil and early next year in Chile. We hope the US will take advantage of this momentum next year.

The milestones achieved in 2012 are only the beginning of many more opportunities to advance education in movement disorders across the region. This will involve increased collaboration, new technologies, and above all, the building of new personal and institutional bridges across PAS under the educational mission of MDS.

Jorge L. Juncos, MD  
Chair, PAS Organizing Committee

## Dopamine Transporter Imaging in Neurological Practice – Santa Clara, CA, March 31, 2012

—Dr. Caroline Tanner, Director of Clinical Research, The Parkinson's Institute, Sunnyvale, California

The fourth Dopamine Transporter Imaging course in the U.S. was held in Santa Clara, CA, on March 31, 2012. Faculty and participants met at the Embassy Suites Santa Clara in the heart of Silicon Valley. In the morning session J. William Langston, the founder of The Parkinson's Institute, gave an introductory talk on "Redefining Parkinson's Disease" and Dr. Caroline Tanner, the Course Director, discussed "Biomarkers and Parkinson's Disease: A Clinician's Perspective". Dr. Ramesh Gopi covered the principles, analysis and perspective of Dopamine Transporter Imaging, and Dr. Danna Jennings, who participated

as faculty in all four U.S. DTI courses, presented on "Dopamine Transporter Imaging in Parkinson's Disease and Related Disorders: Diagnosis and Differential Diagnosis".

The afternoon session began by covering MRI and Parkinson's disease, presented by Dr. Norbert Schuff. The remainder of the afternoon covered practical considerations and clinical correlations of DTI as well as case study images. This course had 11 attendees with seven attendees claiming CME credit. Although the course was small, the size lent well to discussions and debate on Dopamine Transporter Imaging.

## Is Essential Tremor Predictive of Parkinson's Disease? continued from cover

### Yes

greater than expected by chance alone, with PD patients being more likely than controls to have first-degree relatives with ET.<sup>5</sup>

The epidemiological and genetic epidemiological data are consistent with biological evidence, which further supports the possibility of common disease mechanisms and pathogenesis.<sup>7</sup> Thus, several imaging studies have suggested that there may be some degree of overlap between ET and PD.<sup>5</sup> These findings are further supported by genetic studies, which demonstrate that some of the same genetic variants are associated with both ET and PD.<sup>5,8</sup> More recently, large post-mortem series have demonstrated the presence of more brainstem Lewy bodies in ET cases than in similarly-aged controls, suggesting that there is the presence of Lewy body variant of ET, and raising the possibility that these cases might be at increased risk for developing a more complete Lewy body syndrome (i.e., PD).<sup>9</sup>

The composite data are difficult to ignore. Indeed, a recent editorial on the putative relationship between ET and PD remarked as follows: "Perhaps there are not enough studies to completely end the discussion, but the consistency of the results and the biological plausibility of the association are very strong."<sup>10</sup>

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### No

occurrence in prospectively ascertained ET cases (2/32, 6.3%) than in controls (2/21, 9.5%). Therefore, the conclusion that ET has a "Lewy body variant" was not supported as their number of ET cases grew. Our group has published one of the largest series to date of prospectively ascertained and examined ET cases and we found no difference in Lewy body occurrence between ET case (3/24, 12.5%) and Controls (2/21, 9.5%).

From the opposite angle, if ET were a Lewy body disorder then studies of incidental Lewy body disease (ILBD) might aid in establishing this link. Studies have found that up to 30% of autopsied individuals over age 65 have ILBD so both ET and ILBD are extremely common. Unfortunately, most ILBD studies do not detail the clinical findings in ILBD. We have recently published the finding that there was no difference in the occurrence of ET in ILBD cases (6/13, 46%) compared to Controls (22/55, 40%). There was also no difference in the occurrence of  $\geq 2+$  postural or kinetic tremor of the hands: 4/13 (31%) ILBD and 14/55 (25%) Controls.

A third way to assess association would be neurochemically. It is well-proven that striatal tyrosine hydroxylase levels are low in both PD and ILBD. If ET was a risk factor for PD then we might expect TH levels to be low in ET, or at least in a subgroup of ET cases, but this is not what we found as we recently published.

Epidemiologic studies suggesting ET is a risk factor for PD have many flaws. In one retrospective paper, the occurrence of ET in PD cases was greater than in Parkinson-Plus cases, but this does not link ET to PD as there was no control group for comparison. A second study found a 4x higher incidence of PD in ET cases  $\geq 65$  year old when compared to controls, but the number of incident cases during 3.3 years of follow-up was very small (6/201 ET and 24/3574 Controls) and produced an absolute increased risk of only 2.3%. Also, these cases did not require dopaminergic response for the diagnosis of PD, and had no imaging or pathology to support the diagnosis of PD.

The genetic association between ET and PD has been debated. Currently there is no clearcut evidence that the genes associated with PD, LRRK2, SNCA variants, glucocerebrosidase, LINGO1, or LINGO2, have an association with ET. There is no clear neuro-imaging data linking ET to PD and there is no therapeutic evidence that currently links ET to PD.

In conclusion, to date the overwhelming evidence supports a lack of a link between ET and PD. ET is very common and its occurrence in PD may well be coincidental. Certainly, if there is a biological link then it may be for a subset of ET patients. To move this controversy forward, we need clear diagnostic markers for both disorders along with prospective, controlled studies utilizing longitudinal, standardized assessments for tremor and parkinsonism in subjects

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The *Movement* Disorder Society



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## LETTERS TO THE EDITORS *Your Comments and Questions Are Always Welcome*

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with and without ET along with either neuroimaging (a surrogate marker) or autopsy, the only gold-standard marker, for PD.

## No

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