

# Moving Along

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## Evolving Concepts in Dementia in Movement Disorders

—David J Burn Professor of Movement Disorder Neurology, Institute for Ageing and Health, Newcastle University, UK

Movement Disorders are traditionally associated with pathology of the basal ganglia, although dysfunction in other sub-cortical and cortical structures is also now recognised in many of these disorders. It is therefore unsurprising that cognitive impairments and full-blown dementia are not uncommon in the context of conditions previously considered to be primary motor disorders. This increased recognition extends, for example, to essential tremor, where global cognitive performance and executive function may be reduced compared with age-matched controls (1), and to executive cognitive deficits in primary dystonia (2), while a cumulative incidence of dementia in Parkinson's disease (PD) of almost 80% is higher than previously thought (3).

Dementia may be the dominant or initial presentation of neurodegenerative diseases previously considered to be the domain of the movement disorder specialist. This may lead to diagnostic confusion and delay. Examples here include corticobasal degeneration (4) and the "frontal" type of progressive supranuclear palsy (5). Dementia in many movement disorders is also frequently associated with considerable neuropsychiatric co-morbidity (6). Neuropsychiatric symptoms result in loss of quality of life and cause carer distress, yet they may be poorly recognised and under-treated. Depression may even precede onset of the motor disorder in PD, dystonia and Huntington's disease.

In recent years, the assessment of cognition and definition of dementia in movement disorders has assumed greater significance. The use of scales such as the Frontal Assessment Battery, Mattis Dementia Rating Scale or Addenbrooke's Cognitive Examination may not only quantify the pattern and severity of cognitive deficits in movement disorders, but they may also provide information that can be helpful in differential diagnosis. The limitations of "catch-all" diagnostic criteria for dementia such as the Diagnostic and Statistical Manual criteria have also been recognised, resulting in the generation of disease-specific criteria, for example dementia associated with Parkinson's disease (7, 8).

Dementia in several movement disorders, and probably best

characterised for PD, may be both clinically and pathologically heterogeneous. There are multiple reasons that account for such heterogeneity, including topographical, pathological, neurochemical and genetic factors. "Protein aggregation" neurodegenerative

disorders frequently display mixed pathology. Thus, interaction between aggregation of  $\alpha$ -synuclein and  $\beta$ -amyloid has been demonstrated (9), while the role of vascular pathology in the dementia associated with movement disorders is poorly established.

Following the spectacular success of dopaminergic replacement therapy to treat the motor features of PD, similar approaches have met with only limited benefits for the dementias associated with movement disorders. Cholinesterase inhibitors may provide clinically significant cognitive and neuropsychiatric benefits in PD (10), supported by multiple lines of evidence for marked cholinergic deficiency underpinning the dementia and psychotic features in this synucleinopathy, but questions remain regarding the optimal use of these agents and their cost-effectiveness. Cholinesterase inhibitors do not benefit the frontosubcortical dementia of PSP

and may indeed worsen mobility and ability to perform activities of daily living in some patients (11). The same drugs have been shown to have either no (12), or limited efficacy (13) in the treatment of Huntington's disease.

As medical and surgical interventions improve our management of motor disorders, there is a concern that these treatments are "right-shifting the curve" in terms of the cumulative incidence and severity of non-motor problems such as dementia. There is therefore an urgent need to develop novel treatment approaches to the management of dementia associated with movement disorders.

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With the 12th International Congress of Parkinson's Disease and Movement Disorders in Chicago approaching, *Moving Along*, the official newsletter of The *Movement* Disorder Society, will bring you a mix of society news and scientific and public policy updates.

A focus of this issue's articles is the emerging concepts of dementia in Movement Disorders, and some of the strategies that are being devised to combat the associated medical and societal problems.

Is it surprising that a society founded to further the knowledge of and care for patients with Movement Disorders chooses dementia as one of its important areas of activities? In fact, it is not surprising at all; rather it clearly reflects the scientific development of recent years. It has become clear that in any cross-sectional study as many as 40% of all patients with Parkinson's disease (PD) may develop dementia, and this number is even considerably higher in late stages of the disease. And not only has it become evident that the motor syndrome of PD is only "the tip of the iceberg" of what is now often called the "Parkinson Complex", there is also increasing evidence that there is considerable overlap and cross-talk between the  $\alpha$ -synucleinopathies, such as PD and Lewy-body dementia, and the major other dementing neurodegenerative diseases, such as Alzheimer's disease and the group of tau and TDP-43 frontotemporal dementias on the level of genes, proteins and clinical symptoms.

With the progress that has been made in treating the motor symptoms of PD with novel drugs, better pharmacokinetics and deep brain stimulation, the treatment of non-motor symptoms such as dementia has become one of the major concerns in late disease stages and their recognition and management is therefore an important task for Movement Disorder specialists. On the other hand, on the level of pathogenesis, the cross talk between PD and other neurodegenerative processes may in fact hold important clues to unravel the molecular sequence of events that cause neurodegeneration. If we understand the interactive effects of  $\alpha$ -synuclein, tau, amyloid precursor protein (APP) and TDP-43 on the genetic and on the protein level, if we learn about the similarities and the differences in how the formed aggregates spread through the central nervous system, it may well help us to better find the "rosetta stone" of pharmacologic intervention that might slow down or even halt the pathogenic cascade.

The field of scientific and clinical challenges is ever expanding. At the upcoming congress in Chicago, you may find a few answers, but almost certainly many more unanswered questions. This of course should encourage us all to continue *Moving Along*.

The editors are looking forward to seeing you all in Chicago.



Irene Litvan, MD



Thomas Gasser, MD



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

**Editorial Policy**

As part of its democratic commitment, MDS welcomes the input of all its members about the features and articles that appear in this newsletter. Have a comment or question? Each issue will include responses in the "Letters to the Editor" section. All materials submitted become the property of MDS.

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The Movement Disorder Society is committed to its mission of providing members with the latest developments and practical advice for the diagnosis, treatment and management of Movement Disorders. Integral to the Society's overall strategy for realizing this goal is the creation and implementation of high quality Movement Disorders educational programs.

Under the leadership of both regional and international educational committees, MDS is able to produce educational material in a variety of formats that meet the needs of local audiences as well as those of our international membership. During 2007, committee members worked tirelessly creating 112 hours of continuing medical education instruction reaching over 3,727 physicians world-wide. A listing of the 2008 MDS offerings can be found on page 8. If you haven't already taken advantage of these programs, I encourage you to do so.

To plan these educational offerings, the MDS work groups take advantage of data gathered from members through MDS membership needs assessment surveys and course evaluations. If you have additional ideas or comments about future programming, please feel free to contact one of the committee chairpersons below who are continuously working with their committees in pursuit of our mandate of educating physicians throughout the world.

#### International Educational Committees

MDS Education Committee – Cynthia Comella, Chairperson

MDS- International Congress Oversight Committee – Warren Olanow, Chairperson

MDS- Congress Scientific Program Committee – Serge Pzedborski, Chairperson

MDS- Congress Local Organizing Committee – Cynthia Comella and Kathleen Shannon, Co-Chairs

#### Regional Educational Committees

MDS-AOS Education Committee – Louis Tan and Shu-Leong Ho, Co-Chairs

MDS-ES Education – Wolfgang Oertel, MDS-ES Chairperson

Looking ahead, the Society will convene the 12<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, the premier scientific meeting in Movement Disorders, in Chicago, IL, USA, June 22-26, 2008.

Future congress sites include Paris, June 7-11, 2009; Buenos Aires, June 13-17, 2010; Toronto, June 5-9, 2011.

Other exciting developments include the creation of a "Case of the Month" program available on the MDS Web site, which highlights interesting cases and includes a video presentation and questions and answers summarizing the learning points of the case. Instructions on how members can submit their interesting cases are available on the site. Under the direction of Susan Fox, this program is certain to grow in scope and represents one of the many innovative educational concepts derived from the MDS educational committees. While on the Website, I encourage you to visit the site; there have been some major changes that I think you will find very attractive and useful. We are also in the midst of a search for 2 Website Editors who will direct the expansion and development of this important component of the Society's educational/informational offering to its members.

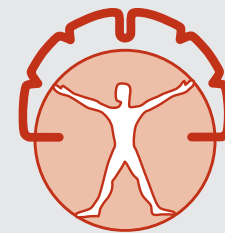
As far as regional offerings, the MDS European Section is pleased to offer the MDS-ES Summer School for Young Neurologists, which will be held in Marburg, Germany, 11<sup>th</sup>-13<sup>th</sup> July, 2008. The aim of this activity is to attract young neurologists who are considering sub-specialisation in Movement Disorders, and to give them the opportunity to examine a wide range of Movement Disorders patients under the supervision of an international expert faculty.

In Asia and Oceania, the MDS Section is focused on increasing educational opportunities in the underserved areas of their region. After hosting a very successful regional conference, the MDS Asia and Oceanian Section has spent significant time establishing criteria and developing a process by which members can request funding for support of local offerings. The first such course receiving funding will take place in Varanasi, India.

In Latin America, the MDS Education Committee is planning an educational course on the treatment of Parkinson's disease, which will be held in Rio de Janeiro in November 2008. Under the direction of Francisco Eduardo Cardoso, it is anticipated that this program will include case-based discussion designed to extract the current practices in Parkinson's disease management.

Providing outstanding educational programming that meets the needs of local audiences as well as international members is one way in which MDS strives to advance the science and medical knowledge in the field of Movement Disorders. I look forward to bringing you updates on the progress of the Society's growing educational programming. Please continue to reference the MDS journal, the Web site at [www.movementdisorders.org](http://www.movementdisorders.org) and this newsletter for information regarding current and future offerings.

Anthony E. Lang, MD, FRCPC  
MDS President 2007-2009



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## MDS Honorary Membership Award Presentation

The MDS Awards Committee is pleased to announce that Prof. Alim Benabid of Grenoble University Joseph Fourier in Grenoble, France; and Dr. Mahlon DeLong of Emory University in Atlanta, GA, USA, will receive Honorary Membership Awards in 2008.

Each year MDS presents up to two Honorary Membership Awards recognizing individuals who have made extraordinary contributions to the field of Movement Disorders and/or to The *Movement* Disorder Society.

Please join us for the presentation of these prestigious awards, which will occur during the Opening Ceremony of the 12<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders on June 22, 2008 beginning at 7:30 p.m. at the Hilton Chicago.

## New MDS Unified Parkinson's Disease Rating Scale (MDS-UPDRS) to be introduced at the 12th International Congress

The *Movement* Disorder Society has sponsored an international effort to revise the UDPRS and the new scale (MDS-UPDRS), which will be introduced formally at the 12<sup>th</sup> International Congress in Chicago. The MDS-UPDRS is based on the original UDPRS, but addresses ambiguities and weaknesses of the earlier scale and incorporates several non-motor elements of PD.

The MDS-UPDRS has successfully completed clinimetric testing in the English version.

Official non-English translations and further testing of the MDS-UPDRS scale are planned for future clinical trials.

If you are interested in understanding the background, development, new features, and caveats of MDS-UPDRS, please plan on attending the How to do it-Skills Workshop at the 12<sup>th</sup> International Congress: The MDS-UPDRS: How to apply the new UPDRS in practice and research settings on Wednesday, June 25, 2008 from 5p.m. – 7p.m.

## De Novo Parkinson's Disease:

# Diagnosis AND Treatment

September 13, 2008 –  
San Francisco, California

### Registration Process and Rates

Participants can receive more information or register for the De Novo Parkinson's Disease: Diagnosis and Treatment workshop by contacting MDS via phone at +1 414-276-2145 or via e-mail at [cbreckenridge@movementdisorders.org](mailto:cbreckenridge@movementdisorders.org). Registration is also available on-line at [www.movementdisorders.org](http://www.movementdisorders.org).

### Registration Fees

EARLY/REDUCED REGISTRATION FEE	FULL REGISTRATION FEE
On or Before August 29, 2008	After August 29, 2008
Junior Registrant* (\$75 USD)	Junior Registrant* (\$100 USD)
MDS Member (\$150 USD)	MDS Member (\$200 USD)
Non-Member (\$200 USD)	Non-Member (\$250 USD)

\*Applies to MDS Junior Members, Residents, Fellows, and those training in healthcare or scientific research. Status must be certified in writing and submitted with payment.



It has been a quiet time for the AOS since the Singapore meeting in October 2007.

Although a number of educational meetings have been suggested by members for the AOS in the next 12 months, only one application has so far been received from Dr. Deepika Joshi in Varanasi, India. Dr. Joshi plans to run a two-day course on Movement Disorders. Faculty members have been recruited from AOS countries and the program hopes to attract over 100 delegates.

I would like to urge all members of the AOS to please submit requests for funding support to the Section's Education Committee for any meeting that is being planned over the next 12–18 months. Requests can be submitted on the MDS-AOS Web site: [www.movementdisorders.org/sections/aos](http://www.movementdisorders.org/sections/aos).

Organization for the 2<sup>nd</sup> AOPMC meeting to be held in New Delhi, India is progressing well and plans are also underway for the 3<sup>rd</sup> AOPMC meeting to be held in Taipei in 2010.

We have had a disappointing response to our AOS educational needs survey. The delegates at the Shanghai meeting excelled themselves with a large proportion of returned responses, however the responses from the Singapore meeting were few, as were the requests for online submission and from the meeting in Thailand.

The information we seek in the survey is purely to understand the spectrum of educational needs within the AOS and the level of training, education and experience of the clinicians. We are also interested in the medical infrastructure available in each region as well as pharmacological availability of drugs.

All this information will assist the AOS Education Committee to plan the type and format of future meetings in as many regions as possible in the AOS in the future. We would like to cater education according to each areas need.

Please help us to help you in this regard and ensure that as many survey forms are returned. The forms are also available on the MDS Web site under the AOS section.

We look forward to meeting many members of the Section at the upcoming International Congress, June 22-26, 2008 in Chicago, IL, USA. Please kindly note that all people living or working in the AOS region are invited to attend the AOS General Assembly meeting which will take place on Tuesday, June 24, 2008 at 1:30 pm in the Williford Room at the Chicago Hilton.

Robert Iansek, PhD, FRACP  
Chairman, MDS-AOS



## Not receiving MDS e-mail?

Add MDS to your  
safe sender list.

[info@movementdisorders.org](mailto:info@movementdisorders.org)  
[congress@movementdisorders.org](mailto:congress@movementdisorders.org)

The screenshot shows the Microsoft Outlook interface. The 'Junk E-mail' menu is open, and the 'Add Sender to Safe Senders List' option is highlighted. A yellow box with an arrow points to this option, with the text 'Select "Add Sender to Safe Senders List"'. Another yellow box with an arrow points to the 'Actions' menu, with the text 'Select "Actions"'. A third yellow box with an arrow points to the 'Junk E-mail' menu, with the text 'Select "Junk E-mail"'. The email content shows a preview of the Movement Disorders Journal, Vol. 23, Issue 3, with the title 'Movement Disorders Journal Preview - Vol. 23, Issue 3' and the sender 'MDS [info@movementdisorders.org]'. The journal preview includes the logo of The Movement Disorder Society and the text 'MDS News' and 'Movement Disorders - Official Journal of the Movement Disorder Society Volume 23, Issue 3, Pages 315-472 (15 February 2008)'.



## Visiting Professor Program a Success in Delhi, India



*Kapil Sethi, P.K. Sethi, Host Kiran Bala, and Eduardo Tolosa.*

The *Movement Disorder Society's* Visiting Professor Program-2007 was held at Institute of Human Behaviour & Allied Sciences, Delhi, India on November 23<sup>rd</sup> & 24<sup>th</sup>, 2007. The visiting professors of the program were:

- Dr. Kapil D. Sethi, Professor of Neurology, Augusta, Georgia, USA
- Prof. E. Tolosa, Professor of Neurology, Barcelona, Spain.

The hosts were:

- Prof. Meena Gupta, Director, IHBAS
- Dr. Kiran Bala, Organizing Secretary
- Prof. Madhuri Bihari, Chairperson Scientific Committee

The program included 6 sessions spread over 2 days:

### Day-1

- An Over view of Movement Disorders
- Parkinson's Disease
- Interesting cases of Parkinson's Disease

### Day-2

- Video sessions on interesting cases of Dystonias, Parkinson's Disease, RLS and other Movement Disorders
- Psychogenic Movement Disorders
- Update on Tourette Syndrome
- Iatrogenic Movement Disorders
- Skills Workshops on use of Botulinum Toxin in Focal Dystonias

The delegates appreciated the knowledge and skills of both of the experts and it was an educational program in a real sense for all of the delegates. The collection of video clippings was marvelous. The approach to patients with Parkinson's disease at various stages as discussed by the experts on patients during Session-III was informative, as well as educative. There was an active discussion by the local faculty as well as delegates. The clarity of eliciting various bed side signs was appreciated by the PG students.

Since the program was held at a Neuropsychiatry Institute, the session on Psychogenic Movement Disorders was of special interest for PG students, as well as faculty. Interesting videos and cases presented attracted active participation from the delegates.

Hands on workshops on Botulinum Toxin in Focal Dystonia were of great help for many young neurologists interested in this practice area. They were given hands on training by the local faculty Prof. Meena Gupta & Prof. Madhuri Bihari.

The program was attended by 178 delegates from all over India. The delegates included neurophysicians, general physicians interested in neurological disorders, trainees in neurology, psychiatry and rehabilitation services. The program was awarded 11 hours of CME accreditation by Delhi Medical Council.

**The Movement Disorder Society**  
**VISITING PROFESSOR PROGRAM**

The aim of MDS Visiting Professorships is to educate physicians and healthcare professionals in underrepresented regions of the world about Movement Disorders. Since its first offering in 2003, the Society's Education Committee has developed Visiting Professor Programs in South Africa, Romania, India, Tunisia, China and Chile.

The MDS Visiting Professors have implemented programs at local institutions utilizing:

- Didactic lectures
- Clinical case presentations
- Interactive seminars
- Practical workshops

If you are aware of, or currently located in, a region that could benefit from this program, please contact the MDS International Secretariat in order to submit an application.

Please visit [www.movementdisorders.org](http://www.movementdisorders.org) or e-mail [bnelezen@movementdisorders.org](mailto:bnelezen@movementdisorders.org) for more information.

**The guidelines for  
The Movement Disorder Society's  
Visiting Professor Program have been updated:**

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For more information please visit  
[www.movementdisorders.org/education/visiting/](http://www.movementdisorders.org/education/visiting/) or contact  
[info@movementdisorders.org](mailto:info@movementdisorders.org), or +1-414-276-2145.

## Movement Disorders activities in Europe continue to expand!

Dear Colleagues,

We are very excited to be organising the first MDS-ES Summer School for Young Neurologists in Marburg, Germany, 11<sup>th</sup>-13<sup>th</sup> July, 2008. The aim of this activity is to attract young neurologists who are considering sub-specialization in Movement Disorders, and to give them the opportunity to examine a wide range of Movement Disorders patients under the supervision of an international expert faculty.

The Summer School will start on Friday afternoon with a series of introductory lectures, and an evening social event enabling participants, faculty and patients to meet. Saturday morning will start with a session on how to examine a Movement Disorders patient, and continue with hands-on examinations, with groups of four students rotating through a series of 12 cases. This will be followed mid-afternoon by a session on imaging in Movement Disorders, and a video presentation demonstrating botulinum toxin injections. All participants will be asked to bring a video or slide presentation of an interesting patient or difficult case, and for this next session will break into four groups for presentation and discussion of their cases. A video dinner on Saturday evening will give participants a chance to test their new-found diagnostic skills! The Sunday morning session will discuss patient management plans, and will be followed by presentation of the best eight case history presentations from the previous day, with the presenters competing for a free registration to the MDS 2009 Congress. The morning will conclude with a discussion forum, giving all participants an opportunity to evaluate the Summer School. Registration is restricted to 48 places. The registration fee includes meals and accommodation, and costs \$100 for MDS junior members and \$200 for non-members, who will be offered a one-year complimentary MDS junior membership. We have 20 bursaries to support travel and accommodation costs for participants from Eastern Europe.

Our invited faculty represents a European geographic distribution as well as a wide base of specialist expertise, and includes David Brooks; Bastiaan Bloem; Katrin Buerk; Richard Dodel; Joaquim Ferreira; Dr. Günther Höglinger; Wolfgang Oertel; Werner Poewe; Niall Quinn; Evzen Ruzicka; Claudia Trenkwalder, and Jens Volkmann.



We are most grateful to Boehringer Ingelheim, TEVA, UCB, Solvay, Medtronic, Novartis, and Roche for their support of this new MDS-ES educational activity, and their help in introducing young neurologists to the field of Movement Disorders.

There are two further Dopamine Transporter Imaging Workshops planned at venues in Europe during 2008, and one in early 2009. You will be very welcome to attend one of the following venues:

Venue	Workshop Director	Date
Madrid	Francisco Grandas, MD	31st October, 2008
Toulouse	Olivier Rascol, MD	5th December, 2008
Glasgow	Donald Grosset, MD	5th February, 2009

For further details about workshops and bursaries please contact Catherine Breckenridge: [cbreckenridge@movementdisorders.org](mailto:cbreckenridge@movementdisorders.org)

Finally, please remember that MDS-ES is responsible for the Movement Disorders programming at the EFNS Congress, which this year takes place in Madrid from 23-26th August. We have lined up an excellent program and look forward to seeing you there!

Thank you for your support of these MDS-ES initiatives.

With best regards,

Wolfgang Oertel

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**The Movement Disorder Society's Educational Offerings**

<p><b>Live Courses</b></p>	<p><b>Dopamine Transporter Imaging in Neurological Practice Workshops</b>                  October 31, 2008 – Madrid, Spain                  December 5, 2008 – Toulouse, France                  February 5, 2009 – Glasgow, Scotland</p> <p><b>12th International Congress of Parkinson's Disease and Movement Disorders</b>                  June 22-26, 2008 - Chicago, Illinois, USA</p> <p><b>MDS- ES – European Summer School</b>                  July 11-13, 2008 – Marburg, Germany</p> <p><b>DeNovo Parkinson's Disease</b>                  September 13, 2008 – San Francisco, California, USA</p> <p><b>The Many Faces of Dystonia: A Frequently Misdiagnosed Disorder</b>                  November 1, 2008 – Dallas, Texas, USA</p> <p><b>2nd Asian and Oceanian Parkinson's Disease and Movement Disorder Congress</b>                  February 15-17, 2009 - New Delhi, India</p> <p><b>Second International Conference on Psychogenic Movement Disorders and Other Conversion Disorders</b>                  April 2-4, 2009 – Washington DC, USA</p>
<p><b>Web-based Learning</b></p>	<p><b>Online CME Programs</b>                  Levodopa: The Gold Standard in the Treatment of Parkinson's Disease                  Targeting A2A Receptors in Parkinson's Disease                  London DTI</p> <p><b>Case of the Month Program</b> – Visit the MDS Web site each month to review interesting cases and answer questions. Instructions on how to submit your cases are posted online.</p> <p><b>Slide Sets</b>                  Ataxia                  Chorea                  The Diagnosis and Management of Dystonia                  Myoclonus: Disagnosis and Treatment                  Parkinsonism                  Restless Leg Syndrome                  Tics and Tourette Syndrome</p> <p><b>Teaching Course Syllabus</b>                  Current Treatment of Parkinson's Disease: Motor Symptoms                  Intersection of Sleep and MD: Evaluation &amp; Treatment                  Current Management of PD: Non Motor Symptoms                  Pediatric Movement Disorders in the Office Setting: Diagnosis and Treatment</p> <p><b>Video Library</b> -The library contains the video supplements from the Movement Disorders Journal. The library is equipped with a search feature that will allow you to search the videos by author, topic, or volume and issue.</p>
<p><b>Journal CME</b></p>	<p>23.6 May 2008: "Clinical Characteristics of Restless Legs Syndrome in End-Stage Renal Failure and Idiopathic RLS Patients"</p> <p>23.5 April 2008: "Predictors of Deterioration in Health-Related Quality of Life in Parkinson's Disease: Results from the DATATOP Trial"</p> <p>23.4 March 2008: "Glial Reactions in Parkinson's Disease"</p> <p>23.3 February 2008: "The Role of Executive Function and Attention in Gait"</p> <p>23.2 January 2008: "A Systematic Review of Prevalence Studies of Depression in Parkinson's Disease"</p> <p>23.1 January 2008: "Paradoxes of Functional Neurosurgery: Clues from Basal Ganglia Recordings"</p> <p>22.16 December 2007: "Benign hereditary chorea revisited: a journey to understanding"</p> <p>22.15 November 2007: "Levodopa Responsiveness in Disorders with Parkinsonism: A Review of the Literature"</p> <p>22.14 October 2007: "Fragile X-Associated Tremor/Ataxia Syndrome: Clinical Features, Genetics, and Testing Guidelines"</p> <p>22.13 October 2007: "Prognostic Factors for the Progression of Parkinson's Disease: A Systematic Review"</p> <p>22.12 September 2007: "Clinical diagnostic criteria for dementia associated with Parkinson's disease"</p> <p>22.11 August 2007: "Quality of life and related concepts in Parkinson's disease: a systematic review"</p> <p>22.10 July 2007: "Levodopa-induced dyskinesias"</p> <p>22.9 July 2007: "Gene transfer therapy for neurodegenerative disorders"</p> <p>22.8 June 2007: "Diagnostic criteria for psychosis in Parkinson's disease: report of an NINDS, NIMH work group"</p> <p>22.7 May 2007: "Caregiver burden in Parkinson's disease"</p>



## Government Support for Neurodegenerative Disease Research

—Thomas Gasser, MD, Department of Neurodegenerative Diseases, Hertie-Institute for Clinical Brain Research, University of Tübingen, Tübingen, Germany

Neurodegenerative diseases, particularly Alzheimer's and Parkinson's disease, are increasingly recognized as major public health concerns of the coming years. Due to the demographic development in industrialized countries, the prevalence of these age-dependent diseases are certain to increase considerably in the future, challenging both the medical and social systems.

There has been an astounding progress in recent years in our understanding of the molecular pathogenesis of these disorders. Many of the key proteins involved have been identified, as for example the amyloid precursor protein (APP) in Alzheimer's disease, alpha-synuclein in Parkinson's disease and Lewy-body dementia, and tau in the group of frontotemporal dementias, to name just a few of the most common ones. A lot has been learned about the genetics of these diseases, and about the molecular pathways and interactions of the associated proteins. However, what is still lacking is an efficient translation of this new knowledge into novel treatments.

Many countries have recognized the challenge and have earmarked considerable funds for research into the pathogenesis and treatment of dementias and other neurodegenerative diseases. In 2007, the German government has vowed to dedicate 60 Million Euro per year to translational research on neurodegenerative diseases, starting in 2009. The largest share of this money will be used to establish a "German Center for Neurodegenerative Diseases", which will be closely attached to a university center to provide the necessary infrastructure to allow translation into the clinic. The Center will be complemented by a number of partner institutions, which will also receive funds from the federal government, to bring in their specific existing expertise.

Following a national call, the center and the partner institutions have now been selected: The new German Center for Neurodegenerative Diseases in Germany will be located in Bonn. Major Partner Institutions will be the Hertie-Institute for Clinical Brain Research in Tübingen, and the Universities of München, Magdeburg and Göttingen, while the University of Witten-Herdecke was chosen as a partner institution that will be expected to focus on health care research and the Universities of Rostock and Greifswald will focus on the demographics of neurodegeneration.

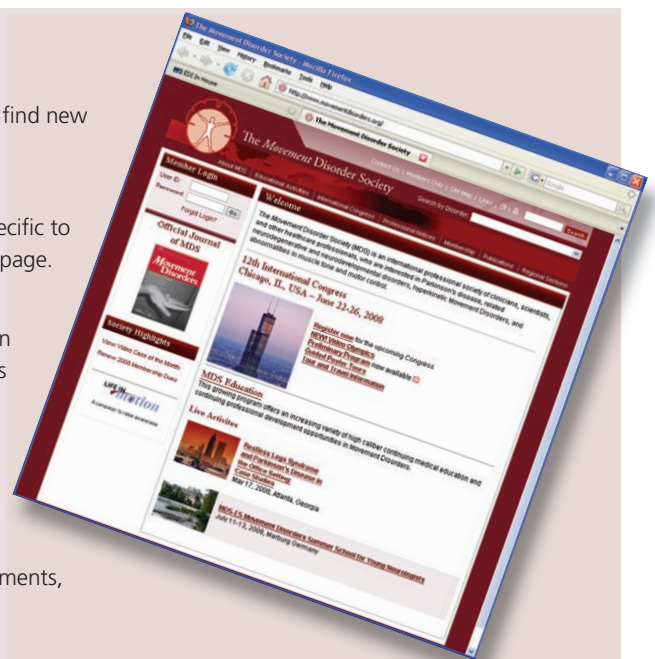
While researchers unanimously welcomed the allocation of funds to this important area, opinions about the way this money will be spent were quite diverse. Many clinical and basic scientists fear that initiatives like this one are only part of a process by which political institutions try to gain influence on the content and the direction of scientific research. While nobody doubts the right of the funding bodies to expect results which help to resolve the pressing problems of medicine and society as a whole, there remains the danger that a major source of innovation, namely non-directed curiosity in an atmosphere of academic freedom, may become more and more an exotic enclave in a research landscape that is dominated by modern buzz-words like "translation", or "-omics" of all sorts. The major discoveries in medicine and biomedical research have often resulted from accidental observations, and cannot, with any degree of confidence, be predicted, let alone planned.

So, while major national initiatives like this one in Germany are certainly an important component fuelling the progress of biomedical research, we should never forget that it is always the researcher, the post-doc, the graduate student, or the clinician listening to his/her patient, who will bring medical science forward.

### Enjoy New Features at the MDS Web Site

On March 3, 2008, MDS launched its new Web site. Visitors to the Web site will find new features such as:

- Additional Navigation Option**  
 Navigate through the Web site by *disorder*, finding news and development specific to each disorder. Find this new feature in the upper right-hand side of each web page.
- One-Time Log In**  
 The new one-time log in feature provides MDS members the ease of logging in once, in the MDS Web site, and gaining full access to the *Movement Disorders Journal* articles. This will now eliminate logging in a second time at the Wiley Interscience web site.
- Log In Access Throughout the Web Site**  
 Once logged in at the new Web site, MDS members will have access to all areas within the site which are available to members only. These areas include the Video Case of the Month, Video Library of all journal video supplements, Teaching Slide Sets, and the Online Membership Directory.



## Call for 2009 Supported Meeting Applications

The *Movement* Disorder Society is now accepting applications from meeting organizers who wish to receive financial support for scientific meetings in the year 2009. MDS will be offering a total amount of \$70,000 USD to support scientific meetings in 2009, with an additional \$30,000 USD in funding available only for meeting organizers who have Affiliate Member status with the Society.

To apply, meeting organizers must submit a proposed program, including lecture topics, faculty, and a budget for the meeting along with the completed Supported Meetings application. Supported Meeting applications are available on the MDS Web site: [www.movementdisorders.org/events/supported\\_and\\_endorsed/](http://www.movementdisorders.org/events/supported_and_endorsed/).

In addition to the grant monies, MDS will promote all Supported Meetings in the Society's publications, including the *Movement Disorders* journal, the *Moving Along* newsletter, and on the MDS Web site. In return, meeting organizers who receive grants must agree to:

1. Credit The *Movement* Disorder Society for its support of the meeting in all meeting publications and announcements.
2. Provide MDS with copies of all meeting literature including program, abstracts, proceedings and promotional materials.

3. Provide complimentary space for The *Movement* Disorder Society to display the MDS exhibit booth and literature during their meeting.
4. Provide one complimentary page in the meeting program for an advertisement provided by The *Movement* Disorder Society.
5. Submit a final report including attendance numbers and reconciled budget within 60 days of completion of the meeting.
6. In the case of excess revenues being realized, the meeting organizers will arrange repayment of the seed grant to MDS.

**The deadline for submission of completed applications to the International Secretariat is July 7, 2008.**

For further information regarding Supported Meetings (with funding) or to request an application form, please contact:

The *Movement* Disorder Society (MDS)  
 Attn: Supported Meetings Program  
 555 East Wells Street, Suite 1100  
 Milwaukee, WI 53202-3823 USA  
 Tel: +1 414-276-2145  
 Fax: +1 414-276-3349  
 E-mail: [pfirst@movementdisorders.org](mailto:pfirst@movementdisorders.org)

## MDS Affiliate Member Societies

The *Movement* Disorder Society (MDS) believes that, as our specialty continues to grow, a continuous dialogue on a global level will become increasingly important to bring clinicians, researchers and policy makers together for the exchange of the latest developments in the diagnosis and treatment of Movement Disorders.

It is with this goal in mind that we invite 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.

Being an Affiliate Member Society entitles your organization to:

- Announce MDS Affiliated 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.
- Receive MDS mailings on future International Congresses and educational programs, as well as the official newsletter of the MDS, *Moving Along*.

To become an MDS Affiliate Member please submit a formal letter of application as well as the following supporting documents:

- A recent annual report of the activities of your organization
- An organizational mailing list, to include e-mail addresses if available
- A copy of your group's Constitution and Bylaws

Please kindly note that in order to be considered for Affiliate Membership, all of the above documents must be received. Also 15% of your group's members and all members of your executive committee must be current members of MDS.

No application fee is required to file for Affiliate Membership status, simply send the letter of application and supporting documentation to:

MDS International Secretariat  
 555 E. Wells Street, Suite 1100  
 Milwaukee, Wisconsin 53202-3823, USA  
 Fax: +1 414-276-3349  
 E-mail: [pfirst@movementdisorders.org](mailto:pfirst@movementdisorders.org)

## Dopamine Transporter Imaging in Neurological Practice

The DTI workshops continue in 2008 with recent sessions in Naples, Italy and Innsbruck, Austria. Participants have traveled from across Europe, North America, and South America to be educated in the potential implications and appropriate use of dopamine transporter imaging (DTI) in neurological practice.

The DTI Program Planning Committee oversees the general curriculum of the series, while course directors tailor aspects of each workshop to their intended audience. The goal of the series is to present a balanced view of the value of DTI studies in comparison with other clinical measures now in practice. Workshops include lectures from leaders in the field, case-study presentations, and some hands-on experience with DAT-SPECT analysis.

A previous participant described the experience as *“A meeting of experts. Excellent level of discussion!”*

If you are interested in learning more or want to register for an upcoming workshop, please contact Catherine Breckenridge at [cbreckenridge@movementdisorders.org](mailto:cbreckenridge@movementdisorders.org), or visit our website at [www.movementdisorders.org](http://www.movementdisorders.org)

### Up-coming DTI session locations in 2008 & 2009!

Travel grants are available!

**Madrid, Spain ■ Friday, October 31**

Course director: Francisco Grandas, MD

**Toulouse, France ■ Friday, December 5**

Course director: Olivier Rascol, MD

**Glasgow, Scotland ■ Thursday, February 5, 2009**

Course director: Donald Grosset, MD

## 2<sup>nd</sup> International Brainstorming Conference on Parkinson’s Disease

On May 16 and 17, scientists gathered in Louisville, Kentucky, for the 2<sup>nd</sup> International Brainstorming Conference on Parkinson’s Disease. The first conference of this kind convened three years ago, in June, 2005, by Dr. Irene Litvan, MD and Raymond Lee Leiby, professor of Parkinson’s disease research. The results of the discussions were published in two papers in the *Journal of Neuro pathology and Experimental Neurology* (1, 2), summarizing the present knowledge on the etiopathogenesis of Parkinson’s disease (PD) and suggestions for future research.

This year’s conference had an even more ambitious aim: to suggest a revision and expansion of present diagnostic criteria for Parkinson’s disease, taking into account recent knowledge on pathology, genetics, and clinical manifestations of the disease. Several areas have been identified that were felt to have changed in major ways, which should be reflected in the classification schemes and criteria used in research and clinical practice. In particular:

- To recognize the importance of the “prodromal” phases of PD, which are characterized by a whole array of non-motor symptoms, such as depression, RBD, excessive daytime sleepiness and constipation;
- To accommodate the rapid growth of knowledge in genetic causes of parkinsonism and LBD;
- To take into account new developments in the pathologic classification of Lewy-body disorders;
- To revise the UK Brain Bank Criteria, including additional levels of certainty.

As a result of the lively and productive, sometimes controversial discussions at this meeting, two papers will be written in order to carry the discussion to the Movement Disorders community at large.

1. Litvan I, Chesselet MF, Gasser T, Di Monte DA, Parker D, Jr., Hagg T, et al. The etiopathogenesis of Parkinson disease and suggestions for future research. Part II. *J Neuro pathol Exp Neurol* 2007;66(5):329-36.
2. Litvan I, Halliday G, Hallett M, Goetz CG, Rocca W, Duyckaerts C, et al. The Etiopathogenesis of Parkinson Disease and Suggestions for Future Research. Part I. *J Neuro pathol Exp Neurol* 2007;66(4):251-257.

## MDS Presents New Online Feature: Case of the Month

### Test your clinical skills!

A 60 year old man presented difficulty holding a pen and abnormal movement of his right hand...

Case of the Month (COM) is the new MDS online feature that presents unique and challenging Movement Disorders cases. Members are invited to answer questions after reviewing the video and case history, and are provided with the expert’s analysis.

Visit the MDS Web site each month to review interesting cases.

### Submit your own video:

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 Disorders experts. For information about submission requirements, including video format and patient consent forms, please visit the MDS Web site at <http://movementdisorders.org/education/caseofthemoth/submit.php>.

MDS would like to offer special thanks to Case of the Month Editor Dr. Susan Fox for her efforts in launching this valuable MDS member benefit.





**Announcements**

**THE PROGRESSIVE SUPRANUCLEAR PALSY ASSOCIATION**

Research Fellowship Grant Announcements for 2008

The PSP Association announces that funding for research fellowships is available. Applicants should apply in the first instance to the Sara Koe PSP Research Centre, 1 Wakefield Street, London WC1N 1PJ or by email to s.stoneham@ion.ucl.ac.uk., submitting a brief proposal giving an outline of their research project with an estimate of costs to cover salary and some laboratory consumables. Following peer review successful applicants will be asked to complete a full grant application. Preference will be given to 3 year research fellows.

**Progressive Supranuclear Palsy Study**

The University of Louisville Movement Disorder Program, is seeking patients with progressive supranuclear palsy for a multi-center study to identify environmental and genetic risk factors associated with the disease. Subjects will be provided with a physical and neuropsychological examination, will be asked to provide a blood sample for DNA testing and will take part in a detailed phone interview. This study is sponsored by the National Institutes of Health (NIH). Subjects can be seen at eight medical centers throughout the United States. For more information please call 1-866- PSP- 0448 (1-866-777-0448).

**MDS Accepting Applications for the Visiting Professor Program**

The *Movement* Disorder Society (MDS) is currently accepting applications for countries interested in hosting a Visiting Professor in the MDS-sponsored Visiting Professor Program. The MDS Visiting Professor Program provides educational opportunities in Movement Disorders to regions of the world that are under represented in MDS and do not have regular access to educational programs in Movement Disorders. For more information or applications for this program, please click on the following link, <http://www.movementdisorders.org/education/visitingprofessor.shtml> or contact Bridgit Nelezen, MDS Education Program Manager, at +1 414-276-2145.

**Fourth International Neuroacanthocytosis Symposium**

The Institute of Neurology, Queen Square, National Hospital for Neurology and Neurosurgery, Welcome Centre for Human Genetics, Oxford University, and Advocacy for Neuroacanthocytosis Patients are pleased to announce the Fourth International Neuroacanthocytosis Symposium: Bridging clinical and basic aspects, July 1-2, 2008 in Oxford and London.

**Tuesday July 1 - Queen Square, London**

Clinical aspects of chorea-acanthocytosis and McLeod syndrome; muscle and nerve pathology; and syndromes related to neuroacanthocytosis, including Huntington's disease, Huntington's disease-like 2 PKAN, FAPED, & chronic granulomatous disease.

**Wednesday July 2 - Oxford**

Basic science of neuroacanthocytosis; VPS genes and proteins; XK and Kell genes and proteins; animal models of neurodegenerative basal ganglia diseases; mechanisms of red cell membrane shape changes.

To propose papers or posters for presentation at the symposium or for more details contact:

Glenn Irvine, Advocacy for Neuroacanthocytosis Patients, glenn@naadvocacy.org, TEL: +44 20 7937 2938.

**Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders**

The Parkinson Study Group, The Movement Disorder Society, Huntington Study Group, Cooperative Ataxia Group, Dystonia Study Group, Myoclonus Study Group, Tourette Syndrome Study Group and, Tremor Research Group in association with the American Neurological Association, will sponsor the 22nd Annual Symposium to be held in Salt Lake City, Utah at The Grand America Hotel on Sunday, September 21, 2008 from 8:15 a.m. – 1:45 p.m., preceding the meeting of the American Neurological Association. The symposium will consist of peer-reviewed platform and poster presentations designed to communicate recent research advances in the field of Parkinson's disease, Huntington's disease, ataxia, dystonia, myoclonus, Tourette's syndrome, tremor and other movement disorders to professionals in neurology and related disciplines. Practitioners, educators, and researchers are invited to attend. Abstracts of platform and poster presentations representing original material will be published in *Movement Disorders*. NO REGISTRATION FEE OR ADVANCE REGISTRATION IS REQUIRED. Deadline for submission of regular abstracts is May 16, 2008 and late-breaking abstracts on June 13, 2008. More information and an abstract form can be obtained on the PSG website at [www.Parkinson-Study-Group.org](http://www.Parkinson-Study-Group.org).

**Join the International RLS Study Group**

We are inviting individuals with a special interest in Movement Disorders to join the International Restless Legs Syndrome Study Group (IRLSSG).

The IRLSSG is responsible for:

- Developing the criteria for the essential clinical features of Restless Legs Syndrome (RLS).
- Developing and validating a severity rating scale for RLS.
- Defining the clinical criteria for measuring Periodic Limb Movements in Sleep.

IRLSSG members are currently carrying out joint linkage studies in an attempt to find the gene(s) responsible for RLS symptoms. The IRLSSG has advised pharmaceutical companies on the experimental design of therapeutic trials, and IRLSSG members have participated in several large industry-sponsored RLS treatment trials.

There are two types of membership:

1. VOTING MEMBERS

- a) Individuals with a doctoral degree or equivalent who are currently working in areas related to RLS research or clinical practice.

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b) Students or para-professionals (including study coordinators and technicians) who provide evidence of significant contributions to the field within the past five years (such as working with an RLS support group) or one or more publications in the field.

## 2. NON-VOTING MEMBERS

Students or para-professionals who have not published or made significant contributions to the field may apply for non-voting membership.

Excluded from membership are individuals working full time for for-profit organizations with potential conflicts of interest, such as pharmaceutical companies.

Membership is free. To apply, please submit a letter of intent and attached curriculum vitae to Dr. Marco Zucconi at [zucconi.marco@hsr.it](mailto:zucconi.marco@hsr.it).

## Job Postings

### Faculty Positions in Neuromodulation, Medical School, University of Minnesota

The University of Minnesota Medical School, its newly founded Institute of Translational Neuroscience, and its partner, University of Minnesota Physicians seek to hire faculty in the research area of Neuromodulation.

1) Director of Neuromodulation: The successful applicant will be a midcareer clinician investigator who can direct an integrated clinical neuromodulation program being developed by the departments of Neurology, Neurosurgery and Psychiatry. Appointment is possible in any of the clinical neuroscience departments according to the individual's background and interests. The collaborating departments share a single administrative center. The successful applicant is expected to have clinical experience and a research program that uses neuromodulation to treat diseases/disorders of the nervous system.

2) Professor of Neuromodulation: The successful applicant will be a physician-translational neuroscientist at the Assistant, Associate, or Full Professor level in the tenure track who is expected to have an established research program that uses neuromodulation to treat diseases/disorders of the nervous system. Appointment is possible in any of the clinical neuroscience departments and/or Department of Neuroscience.

Applicants should send a current curriculum vitae, statement of research interests and intentions, and three letters of reference to: Neuromodulation Search Committee

Attention: Walter C. Low, Ph.D., Chair, Search Committee  
Department of Neurosurgery, University of Minnesota  
2001 Sixth Street SE  
Minneapolis, MN 55455 USA  
or [lowwalt@umn.edu](mailto:lowwalt@umn.edu)

The University of Minnesota is an equal opportunity educator and employer.

### Movement Disorder Fellowship

The University of Louisville, Division of Movement Disorders in Louisville, KY is offering one- or two-year fellowships for qualified applicants beginning July 2008. Training will emphasize the diagnosis and treatment of a wide range of movement disorders, with exposure to deep brain stimulation and botulinum toxin injections. Fellows will be encouraged to participate in clinical research studies with opportunities to publish. Applicants must be US board-eligible in Neurology. Candidates should send their CV, personal statement and three letters of recommendation to: Irene Litvan, M.D., Division of Movement Disorders, University of Louisville, 220 Abraham Flexner Way, Suite 1503, Louisville, KY 40202.

### BC/BE Neurologist at Park Nicollet Clinic

Park Nicollet Clinic, located in suburban Minneapolis, MN, is seeking a BC/BE Neurologist with subspecialty expertise in Movement Disorder to join a well established and expanding Neurology department and its excellent nursing staff. This is an exciting fulltime opportunity for an individual to provide services half time in the Neurology department at Park Nicollet and half time for Struthers Parkinson's Center, the largest center of its kind in the Midwest and designated Center of Excellence by the National Parkinson Foundation. Research and teaching opportunities are available.

Park Nicollet Health Services is an integrated care system that includes Methodist Hospital and Park Nicollet Clinic. Named one of the nation's "100 Top Hospitals" in 2005, Methodist Hospital is recognized as an area leader in many specialties. Park Nicollet Clinic is one of the largest multispecialty clinics in the United States, providing care in 45 medical specialties and subspecialties. Excellent benefit package is offered.

Minneapolis, also known as the City of Lakes, has extensive recreational and cultural activities, including orchestra, theater, professional sports, the Mall of America and a large international airport.

Send CV to Stasi Johnson, Clinician Recruitment, Park Nicollet Health Services, 3800 Park Nicollet Boulevard, Minneapolis, MN 55416; fax (952) 993-0212; email [johnnsm@parknicollet.com](mailto:johnnsm@parknicollet.com). For more information call (952) 993-2703 or toll free (866) 807-8945.

## Advertisement Placement Information

Advertising in Moving Along is free to non-profit organizations! For more information, contact: Elizabeth Laur, Membership Manager 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: [elaur@movementdisorders.org](mailto:elaur@movementdisorders.org)  
Please note all ads appear in paragraph format.  
When forwarding your ad, please indicate any bolding or capitalization.

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**Neurologist – Kalamazoo, Michigan**

Bronson Neurological Services has an outstanding clinical opportunity in southwest Michigan for an energetic Neurologist with interest/experience in Movement Disorder or Dementia to lead their Neurodegenerative Program. Individual must be BE/BC and be willing to serve a multi-disciplinary patient population including regional clinics in Southwest Michigan. Full-time, hospital employed position with competitive compensation and comprehensive benefits. Bronson Methodist Hospital, a tertiary referral center serving all of southwest Michigan and northern Indiana, maintains a dedicated Neurovascular Unit for focused care, is a Certified Primary Stroke Center by the Joint Commission and is a Level 1 Trauma Center. For more information about Bronson Methodist Hospital go to [www.bronsonhealth.com](http://www.bronsonhealth.com).

Kalamazoo, located between Detroit and Chicago, offers diverse cultural opportunities, economic diversification and very affordable real estate. Public, private and parochial schools are recognized for their academic excellence. For more information about Kalamazoo visit [www.kalamazoomi.com](http://www.kalamazoomi.com). Contact Cadace Lee at 800-594-9022, or e-mail: [leeca@bronsonhg.org](mailto:leeca@bronsonhg.org).

**Parkinson Research Foundation - Movement Disorders Fellowship**

The University of South Florida, in Tampa, FL is offering a unique Movement Disorders Fellowship (1 or 2 yrs) sponsored by the Parkinson Research Foundation ([www.parkinsonresearchfoundation.org](http://www.parkinsonresearchfoundation.org)). The position will begin in July or August 2008. Training will include the diagnosis and treatment of a wide range of movement disorders, with emphasis on Parkinson's Disease and Huntington's Disease. The candidate will have the chance to collaborate with Neurosurgery in treating patients who require deep brain stimulation. In addition, the candidate will have the opportunity to work at least 2 days a week in basic research in the laboratory of Dr. Sanchez-Ramos, with a focus on stem cell biology and regenerative medicine. The training program will be tailored to the special goals of the candidate, keeping in mind that those individuals who want to publish both basic and clinical research papers are most likely to benefit from this program. The Parkinson Research Foundation Fellowship is geared for the individual who seriously plans an academic career. Applicants must be US board-eligible in Neurology. Candidates should send their CV, personal statement and three letters of recommendation to: Juan Sanchez-Ramos, PhD, M.D., Dept of Neurology (MDC 55), University of South Florida, 12901 Bruce B. Downs Blvd. Tampa, FL 33612; please email the personal statement and CV to: [jsramos@health.usf.edu](mailto:jsramos@health.usf.edu)

**Movement Disorder Specialist/New 55,000 Sq. Ft. Brain Institute**

University Based, Southwest

- Director of Movement Disorders
- Exciting opportunity to be part of the new Brain Institute
- New institute was designed by world famous Frank Gehry
- Affiliate with the University and work at the new institute
- Research and clinical trials a major part of this opportunity
- Majority of Research in Alzheimer's and Movement Disorders
- Assistant, associate or full professorship based on experience

Desert Southwest/No State Income Tax

Please contact Vince Zizzo at 800-606-9439 x-128 or e-mail at [vzizzo@carsonkolb.com](mailto:vzizzo@carsonkolb.com)

**PALM SPRINGS – Build a Movement Disorder Service**

Desert Regional Medical Center in sunny Palm Springs, California is seeking multiple BE/BC neurologists to develop a Movement Disorder service within its Institute of Clinical Orthopedics and Neurosciences, ICON.

ICON, a hospital-based clinic on the DRMC campus, offers a multi-discipline approach to patient care including neurologists, neurosurgeons and orthopedists. Advanced technologies for deep brain stimulation for movement disorders and Parkinson's Disease are available, but YOU will be able to CHOOSE additional technology to develop the movement disorder service.

Desert Regional Medical Center is a 361-bed hospital and Level II trauma center; the largest hospital outside of the Los Angeles area. DRMC's staff of 400 physicians will provide a large referral base for your practice. Likewise, your practice should prosper as the regional Palm Springs population of 500,000 residents is projected to double by 2015.

Seeking BE/BC neurologists.

Fellowship-training preferred but not required.

Visit [www.cjrkasearch.com](http://www.cjrkasearch.com) for more job information. Job# 21480.

**Austin, Texas, NSC Fellowship Trained Movement Disorders Neurologist Needed**

Neurology Solutions Consultants, P.A., a private practice movement disorders clinic in Austin, Texas is seeking a full time, board-certified or board-eligible neurologist. Completion of a movement disorders fellowship is required.

The successful and motivated candidate will join a growing interventional program consisting of another fellowship trained neurologist, a certified nurse practitioner and an experienced physical therapist. We have an established DBS program integrating both the neurosurgeon and neurologist in the OR. Experience in movement disorders research, botulinum toxin and intrathecal pump therapies will be preferred.

For information about NSC, visit [www.neurologysolutions.com](http://www.neurologysolutions.com).

Interested individuals should send or e-mail ([rizor@yahoo.com](mailto:rizor@yahoo.com)) personal statements and CVs to Rob Izor, MD, director of NSC.



\* Meetings Sponsored, Supported and/or Endorsed by MDS

**2008****\*June 22-26, 2008**

*12th International Congress of Parkinson's Disease and Movement Disorders.* Chicago, IL, USA. Offered by The Movement Disorder Society. Contact: The Movement Disorder Society, 555 E. Wells Street, Suite 1100, Milwaukee, WI 53202 USA; TEL: +1 414-276-2145; FAX: +1 414-276-3349; E-mail: congress@movementdisorders.org; Web site: www.movementdisorders.org

**June 28-30, 2008**

*Fourth International Neuroacanthocytosis Symposium.* United Kingdom. Contact: Advocacy for Neuroacanthocytosis Patients, Glenn Irvine; TEL: +44 20 7409 0092; Email: glenn@naadvocacy.org; Web site: www.naadvocacy.org.

**\*July 28-31, 2008**

*18th Annual Course - A Comprehensive Review of Movement disorders for the Clinical Practitioner.* Hotel Jerome, Aspen, Colorado, USA. Contact: Center for Continuing Medical Education, Columbia University College of Physicians & Surgeons, 630 Wet 168th Street, Unit 39, New York, NY 10032, USA; TEL: +1-212-305-3334; FAX: +1-212-781-6047; E-mail: cme@columbia.edu; Web site: http://ColumbiaCME.org.

**September 11-13, 2008**

*Parkinson's Disease and other Movement Disorders,* The Homestead, Hot Springs, Virginia, USA. Contact: Sheila Newby, Mayo Clinic, 4500 San Pablo Road, Jacksonville, FL 32224; TEL: +1-904-953-2944; FAX: +1-904-953-2954; E-mail: newby.sheila@mayo.edu; Web site: www.mayo.edu/cme

**September 17-20, 2008**

*American Association of Neuromuscular & Electrodagnostic Medicine (AANEM) Annual Meeting.* Providence, RI, USA. Contact: Shelly Hansen, AANEM, 421 1st Avenue, SW Ste 300E, Rochester, MN 55902 USA; TEL: +1 507-288-0100; FAX: +1 507-288-1225; E-mail: aanem@aanem.org; Web site: www.aanem.org

**September 17-21, 2008**

*11th Congress of the European Society of Hypnosis (ESH).* Vienna, Austria. Contact: Marianne Martin, European Society of Hypnosis, Sternwartestr. 21a/13, Vienna, Austria; TEL: + 431-479-6458; FAX: + 431-440-7290; E-mail: marianne martin-isorec@aon.at; Web site: www.vienna.hypnos.de.

**\*September 19-20, 2008**

*2nd Marburg Symposium on REM Sleep Behavior Disorder: From Early Diagnosis to Therapeutic Intervention.* Marburg, Germany. Contact: Prof. Wolfgang Oertel, Philipps-Marburg University; TEL: +49-6421-2866279; FAX: +49-6421-2867055; E-mail: oertelw@med.uni-marburg.de ; Website: http://neurologie.med.uni-marburg.de.

**September 21, 2008**

*22nd Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders.* American Neurological Association Annual Meeting, Salt Lake City, Utah, USA. Contact: Roseanna Battista, Parkinson Study Group, 1351 Mt. Hope Avenue, Suite 223, Rochester, NY 14620, USA; TEL: +1-585-275-1642; FAX: +1-585-273-1074; E-mail: Roseanna.battista@ctcc.rochester.edu; Website: www.parkinson-study-group.org

**September 25-26, 2008**

*Manganism-Neurotoxicity and the Clinical Syndrome, Tartu, Estonia.* Contact: Estonian Society of Neurologists and Neurosurgeons; TEL: +372-5189319; FAX: +372-7318509; E-mail: Pille.Taba@kliinikum.ee ; Web site: www.kliinikum.ee/nns

**\*October 1-4, 2008**

*Third International Conference on Transcranial Magnetic and Direct Current Stimulation,* University of Goettingen, Germany. Contact: Walter Paulus, MD, University of Goettingen, Germany; TEL: +49-551-396650; FAX: +49-551-398126; E-mail: wpaulus@med.uni-goettingen.de; Web site: www.tms08.uni-goettingen.de

**October 16-19, 2008**

*6th International Congress on Mental Dysfunction in Parkinson's Disease.* Dresden, Germany. Contact: Kenes International - Global Congress Organizers & Association Management Services, 17 Rue du Cendrier, P.O. Box 1726, CH-1211 Geneva 1, Switzerland; TEL: +41-22-908-0488; FAX: +41-22-732-2850; E-mail: pdment@kenes.com; Web site: www.kenes.com/pdment2008

**October 23-26, 2008**

*The Second World Congress on Controversies in Neurology (CONy).* Athens, Greece. Contact: Comtec Med - Medical Congresses, P.O. Box 68, Tel Aviv, 61000 Israel; TEL: +972-3-5666166; Fax: +972-3-566177; E-mail: cony@comtecmed.com; Web site: www.comtecmed.com/cony

**October 29-November 1, 2008**

*The 19th International Symposium on the Autonomic Nervous System.* Kauai, Hawaii. Contact: Anita Zeller, AAS Executive Secretary, American Autonomic Society, 18915 Inca Avenue, Lakeville, MN 55044; TEL: +1-952-469-5837; FAX: +1-952-469-8424, E-mail: zeller.anita@mayo.edu; Web site: www.americanautonomicsociety.org.

**2009****February 15 - 16, 2009**

*7th International Symposium of Asian and Pacific Parkinson's Association (APPA), New Delhi, India;* Conference Secretariat, Room No. 702, Neurosciences Centre, All India Institute of Medical Sciences, New Delhi, 110029, India; TEL: +91-11-26588886; FAX: +01-11-26588166; E-mail: info@apomcindia.com; Web site: www.apomcindia.com.

**\*February 15-17, 2009**

*2nd Asian and Oceanian Parkinson's Disease and Movement Disorders Congress.* Contact: Conference Secretariat, Room No. 702, Neurosciences Centre, All India Institute of Medical Sciences, New Delhi, 110029, India; TEL: +91-11-26588886; FAX: +01-11-26588166; E-mail: info@apomcindia.com; Web site: www.apomcindia.com.

**\*April 2-4, 2009**

*International Symposium on Psychogenic Movement Disorders and Other Conversion Disorders* L'Enfant Plaza Hotel, Washington, DC, USA. Contact: Larissa Sevcik, Program Manager, The Movement Disorder Society, 555 East Wells Street, Suite 1100, Milwaukee, WI 53220 USA; TEL: +1 414-276-2145; FAX: +1 414-276-3349; E-mail: lsevcik@movementdisorders.org

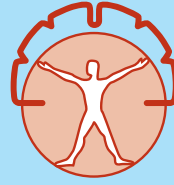
**\* June 7-11, 2009**

*13th International Congress of Parkinson's Disease and Movement Disorders.* Le Palais des Congres de Paris, Paris, France. Offered by The Movement Disorder Society. Contact: The Movement Disorder Society, 555 E. Wells Street, Suite 1100, Milwaukee, WI 53202 USA; TEL: +1 414-276-2145; FAX: +1 414-276-3349; E-mail: congress@movementdisorders.org; Web site: www.movementdisorders.org

**October 24-30, 2009**

*19th World Congress of Neurology, WCN 2009.* Bangkok, Thailand. Contact: Congress Secretariat; E-mail: wcn2009@congrex.com; Web site: www.wcn2009bangkok.com

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**13<sup>TH</sup> INTERNATIONAL CONGRESS  
OF PARKINSON'S DISEASE AND MOVEMENT DISORDERS  
PARIS, FRANCE  
JUNE 7-11, 2009**