FINAL PROGRAM





WORLD CONGRESS ON PARKINSON'S DISEASE AND RELATED DISORDERS

A COMPREHENSIVE EDUCATIONAL PROGRAM

LYON / FRANCE

201819 – 22 August



A BETTER THERAPY PLATFORM.

A BETTER PROGRAMMING EXPERIENCE. FOR EVERYONE!

St. Jude Medical Infinity™ DBS system





Segmented directional lead



Upgradeable, recharge-free IPG



Intuitive programming with touch screen iOS[‡] interface

Learn more | Visit Booth C.02

1. Based on technology assessments detailed in Abbott Memos SJM-INF-0815-0007 (2015), #SJM-INF-0815-0008 (2015), and SJM-INF-0815-0012 (2015); Abbott Engineering Reports 90191496, 90229064, 90245356, 90191496, and 90237167; Abbott System Test Report 90207342 (2015); and the St. Jude Medical Infinity™ IPG Clinician's Manual.

Abbott

One St. Jude Medical Dr., St. Paul, MN 55117 USA, Tel: 1 651 756 2000

SJM.com

St. Jude Medical is now Abbott.

Rx Only

Brief Summary: Prior to using these devices, please review the clinician's manual for a complete listing of indications, contraindications, warnings, precautions, potential adverse events, and directions for use. The system is intended to be used with leads and associated extensions that are compatible with the system.

- $^{\scriptscriptstyle\mathsf{TM}}$ Indicates a trademark of the Abbott group of companies.
- ‡ Indicates a third party trademark, which is property of its respective owner.
- @ 2018 Abbott. All Rights Reserved.
- 28299-SJM-ASSFN-0318-0001a | Item approved for international use only.



TABLE OF CONTENTS

Welcome Words	05
Scientific Program	
Floor Plan	08
Session Descriptions and Types	09
Sunday, 19 August 2018, Program Overview	
Sunday, 19 August 2018, Scientific Program	
Monday, 20 August 2018, Program Overview	
Monday, 20 August 2018, Scientific Program	
Tuesday, 21 August 2018, Program Overview	
Tuesday, 21 August 2018, Scientific Program	
Wednesday, 22 August 2018, Program Overview	
Wednesday, 22 August 2018, Scientific Program	28
Poster Exhibition	
Information for Abstract Authors	50
Information for Speakers / Speakers Centre	
Index of Authors and Speakers	
General Congress Information	
Registration	60
Travel Grants	61
How to get there	62
Good to know	63
IAPRD Association	
About the International Association of Parkinsonism and Related Disorders	68
IAPRD Committees	70
Industry	
List of Exhibitors and Map	74
List of Sponsors and Supporters.	
Corporate Sessions.	
Imprint and Data Protection	78

WELCOME WORDS

On behalf of the Board of the International Association of Parkinsonism and Related Disorders, it is our pleasure to welcome you for an exciting and comprehensive educational program at the XXIII World Congress on Parkinson's Disease and Related Disorders in Lyon, France!

Lyon, the second largest city in France, is situated in the Auvergne-Rhône-Alpes region at the confluence of the Rhône and Saône Rivers. Lyon was the ancient capital of Roman Gaul and has a rich and long-standing history. Today, Lyon is a dynamic city attracting an increasing number of companies and talent, notably in biotechnologies. These features attract clinicians and scientists from around the world to gain insights, learn from one another, and advance the field of movement disorders for the benefit of patients worldwide.

The Congress will begin each morning and afternoon with Plenary Sessions providing overviews of the phenomenology, pathophysiology, and current diagnostic and therapeutic strategies of various movement disorders. These sessions will be followed by Parallel Tracks, permitting participants to select specific diagnostic or therapeutic areas for more concentrated study. A highlight of the Congress will be the Grand Parade of Movement Disorders – an evening video session during which faculty and attendees will showcase the most interesting presentations of movement disorders from around the world. Experts will present Skills Workshops – practical sessions on deep brain stimulation surgeries, pump technologies, and botulinum toxin injections – as well as demonstrations on how to examine patients with movement disorders!

The final day will begin with Plenary Sessions on the emerging diagnostic tools and therapies in Parkinson disease and other movement disorders. We will finish with powerful debates on controversial issues facing our specialty today. The Congress will also offer Meet the Professor Sessions to allow young clinicians and scientists to interact with and learn from accomplished senior faculty members. Oral Poster Sessions will allow delegates a chance to share their research discoveries and observations, and Sponsored Sessions will update delegates on the latest areas of focus from our industry partners.

We look forward to an educational and interactive Congress in this beautiful city. Thank you very much for your participation and enjoy the spirit of summer!



Daniel Truong, MD, Prof ho President of IAPRD



Elena Moro, MD, PhD Congress Chair

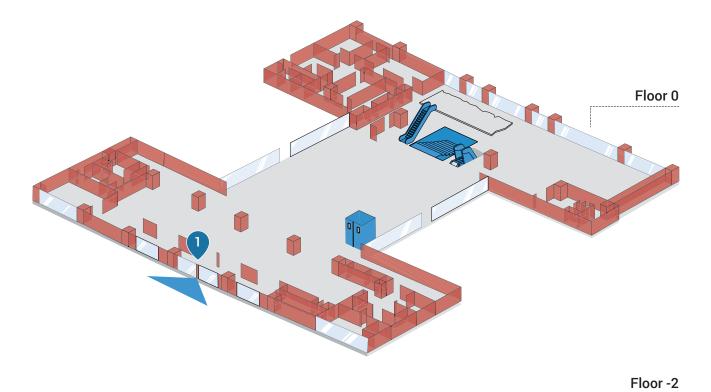


Hubert H. Fernandez, MD Chair, Scientific Program Executive Committee

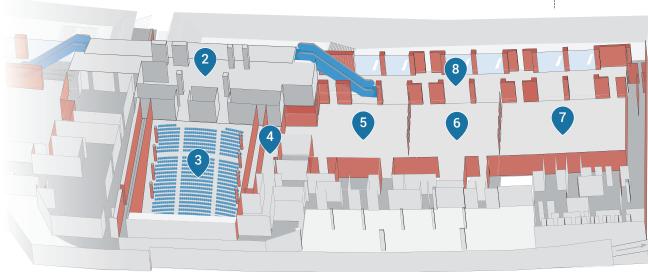
6	

SCIENTIFIC PROGRAM

FLOOR PLAN







- Main Entrance
- 2 Registration / Cloak Room
- 3 Auditorium Lumière
- 4 Speakers Centre

- 5 Forum 1
- 6 Forum 2
- 7 Forum 3 / Exhibition
- 8 Foyer Forum

SESSION DESCRIPTIONS AND TYPES



PLENARY SESSIONS

These sessions will include lectures on phenomenology, and overviews of the pathophysiology, diagnostic and therapeutic approaches to various movement disorders. Each lecture within a plenary theme will be 30 minutes (25 minutes of didactic followed by 5 minutes of Q and A), delivered by world-renowned faculty members.



PARALLEL TRACKS

The sessions within a track are arranged to provide a deep dive into a diagnostic or therapeutic area. Each session will be 30 minutes of interactive lecture (25 minutes of didactic followed by 5 minutes of Q and A).



GRAND PARADE OF MOVEMENT DISORDERS

An evening video session where both faculty and attendees present pre-selected cases from around the globe to showcase the amazing breadth of movement disorders. This event will be co-hosted by two of our most astute and experienced clinical experts.



SKILLS WORKSHOP

Each of these sessions will provide 1.5 hours of practical information and/or demonstrations on the proper utilization of botulinum toxin, deep brain stimulation surgery, pump therapy in Parkinson disease, ultrasound application in movement disorders, and the optimal examination of patients with hypo- and hyperkinetic disorders.



COFFFF WITH THE PROFESSOR

These are brief mentoring sessions sprinkled throughout the duration of the Congress where young and aspiring clinicians and scientists can engage with a renowned faculty member, in a relaxed setting, over a cup of coffee.



Corporate Sessions (over Lunch)

These sessions, sponsored by our industry partners, will all be held during lunchtime.



ORAL POSTER SESSIONS

Poster authors are expected to present their poster and answer questions by the moderator as well as by the audience of the Oral Poster Session Tour. The author or presenter must be registered for the congress.



PARKINSONISM AND RELATED DISORDERS JOURNAL:

SPECIAL SESSION AND AWARDS

A tour de force compilation of the most relevant 2017-2018 articles in Parkinsonism and Related Disorders. Awards will also be given during this session to the Best Clinical Poster and Best Basic/Translation Science Poster prior.

PROGRAM OVERVIEW / SUNDAY, 19 AUGUST 2018

Room	Auditorium Lumière	Forum 1	Forum 2	Foyer Forum	Exhibition Forum 3
11:00 – 12:30	IAPRD Annual General Meeting (for full IAPRD members only)				
12:30 - 13:30					
13:30 – 15:00	The Structure and Function of the Basal Ganglia				
15:00 - 15:30		Coffee	e Break		
15:30 – 17:00	Clinical Presentations of Basal Ganglia Disorders				15:00 – 19:00
17:00 – 17:30		Coffee	e Break		
17:30 –19:00	Opening Ceremony / Melvin Yahr Lectures				Poster Exhibition



	Plenary Session	Auditorium Lumière
13:30 - 15:00	The Structure and Function of the Basal Ganglia Chair: Peter Riederer, Wuerzburg, Germany Chair: Thomas Bruecke, Vienna, Austria	
13:30 - 14:00	Untangling the Neurophysiology of the Basal Ganglia Speaker: <i>Hagai Bergman, Jerusalem, Israel</i>	
14:00 - 14:30	Deconstructing the Neurochemistry of the Basal Ganglia Speaker: <i>Angela Cenci-Nilsson, Lund, Sweden</i>	
14:30 - 15:00	Basal Ganglia Circuits: A Review with Lessons from Neuron Speaker: Michael Okun, Gainesville, United States	nodulation
	Plenary Session	Auditorium Lumière
15:30 - 17:00	Clinical Presentations of Basal Ganglia Disorders Chair: Erik Ch. Wolters, Amsterdam, The Netherlands Chair: Marie Vidailhet, Paris, France	
15:30 - 16:00	Motor Manifestations of Basal Ganglia Disorders Speaker: Hui-Fang Shang, Chengdu, Sichuan, China	
16:00 - 16:30	Behavioral Manifestations of Basal Ganglia Disorders Speaker: <i>Ergun Uc, Iowa City, United States</i>	
16:30 – 17:00	Cognitive Dysfunction in Basal Ganglia Disorders Speaker: Jennifer Goldman, Chicago, United States	
	Plenary Session	Auditorium Lumière
17:30 – 19:00	Opening Ceremony / Melvin Yahr Lectures Chair: Hubert Fernandez, Cleveland, United States Chair: Elena Moro, Grenoble, France	
	Welcome message by Daniel Truong, President IAPRD, Elen Chair and Emmanuel Broussolle, on behalf of the Local Org	
	Lifetime Achievement Award The Brain and Passage of Time Speaker: Yves Agid, Paris, France	
	Melvin Yahr Lecture I My Gut Reaction: The Story of Parkinson Disease from Mou Speaker: Ronald Pfeiffer, Portland, United States	uth to the Colon
	Melvin Yahr Lecture II Searching for the Holy Grail: Lessons Learned from My Jou Scientist Speaker: Michael Schwarzschild, Boston, United States	rney as a Clinician
	At the end of the Opening Ceremony all participants are inv Networking Reception in the exhibition area.	ited to join the

PROGRAM OVERVIEW / MONDAY, 20 AUGUST 2018

Room	Auditorium Lumière	Forum 1	Forum 2	Foyer Forum	Exhibition Forum 3
08:00 - 10:00	Parkinsonism – Capturing the Giant				
10:00 – 10:30		Coffee Break		Coffee with the Professor 1	
10:30 – 12:00	Imaging and Pathology in Parkinsonian Disorders	Other Diagnostic Tools in Parkinsonian Disorders	Examining the Parkinsonian Patient	Oral Poster Session I – Behavior and Cognition, Deep Brain Stimulation	
12:00 - 12:15					
12:15 – 13:45		Corporate Session 1	Corporate Session 2		09:00 – 17:00
					Poster Exhibition
13:45 – 15:15	PD and Parkinson-Plus Therapy – Current Treatments for PD and Parkinson-Plus Syndromes				
15:15 - 15:45		Coffee Break		Coffee with the Professor 2	
15:45 – 17:15	Challenging Features in Parkinsonian Disorders	Alternative and Palliative Therapies in Parkinson Disease	Gastrointestinal Issues in Parkinson Disease supported by Merz Phar- maceuticals GmbH with an unrestricted grant	Oral Poster Session II – Ataxias, Tics, and / or Myo- clonus, Dystonia, Gait and Other MD, Tremors	
17:15 – 17:45		Coffee Break		Coffee with the Professor 3	
17:45 – 19:15	Parkinson Disease Care in Unique Settings	Practical Issues on Deep Brain Stimulation Therapy for PD	Pumps and Infusions in Parkinson Disease	Oral Poster Session III – Parkinson Disease	



	Plenary Session	Auditorium Lumière
08:00 - 10:00	Parkinsonism – Capturing the Giant Chair: Elena Moro, Grenoble, France Chair: Daniel Truong, Fountain Valley, United States	
08:00 - 08:30	The Colorful Clinical Spectrum of Parkinsonism Speaker: Roongroj Bhidayasiri, Bangkok, Thailand	
08:30 - 09:00	Revisiting the Definition of Parkinson Disease Speaker: Daniela Berg, Tübingen, Germany	
09:00 - 09:30	Victories and Losses in the Search for Elusive Parkinson Bi Speaker: Lorraine Kalia, Toronto, Canada	iomarkers
09:30 - 10:00	Environment and Genes: How They Create the Perfect Store Speaker: Caroline Tanner, San Francisco, United States	m
	Coffee with the Professor	Foyer Forum
10:00 - 10:30	Coffee with the Professor 1 Kailash Bhatia, London, United Kingdom	
	Parallel Tracks	Auditorium Lumière
10:30 - 12:00	Imaging and Pathology in Parkinsonian Disorders Chair: Ioannis Isaias, Wuerzburg, Germany	
10:30 - 11:00	Focus on Morphological Imaging in Parkinsonian Disorders Speaker: Stephane Lehericy, Paris, France	•
11:00 - 11:30	Focus on Functional Imaging in Parkinsonian Disorders Speaker: Stephane Thobois, Lyon, France	
11:30 - 12:00	Current Pathological Understanding of Parkinsonian Disord Speaker: Peter Riederer, Wuerzburg, Germany	ders
	Parallel Tracks	Forum 1
10:30 - 12:00	Other Diagnostic Tools in Parkinsonian Disorders Chair: Raymond Rosales, Quezon City, Philippines	
10:30 - 11:00	How Sleep Studies are Shedding Light on our Understanding Parkinsonian Disorders Speaker: Ronald Postuma, Montreal, Canada	ng of
11:00 - 11:30	Can the Gut be the Missing Piece in Uncovering PD Pathog Speaker: Pascal Derkinderen, Nantes, France	enesis?
11:30 - 12:00	Acknowledging the Giant Elephant: The Utility of Cognitive and Behavioral Assessments in PD Speaker: Jaime Kulisevsky, Barcelona, Spain	

	Skills Workshop	Forum 2
10:30 - 12:00	Examining the Parkinsonian Patient Chair: Shinsuke Fujioka, Fukuoka, Japan	
10:30 - 11:00	How To Examine a Parkinsonian Patient Like an Expert Speaker: Leonard Verhagen, Chicago, United States	
11:00 – 11:30	Recognizing Red Flags that Suggest Parkinson-Plus Syndromes Speaker: Roongroj Bhidayasiri, Bangkok, Thailand	
11:30 - 12:00	Learning from Experience: Pitfalls and Misconceptions in Parkinsonian Presentations Speaker: Alberto Albanese, Milan, Italy	
	Oral Poster Presentation Foy	er Forum
10:30 - 12:00 OP-01	Oral Poster Session I – Behavior and Cognition, Deep Brain Stimulation (4 minutes oral presentations followed by 1 minute Q&A) Moderator: Daniel Weintraub, Philadelphia, United States Moderator: Raja Mehanna, Houston, United States	
OP-01-01	Freezing of gait in Parkinson's disease: Is it just a motor problem or more Speaker: Moulika Mandal, Mumbai, India	re?
OP-01-03	Cognition in subjects with REM sleep behavior disorder and cumulative prodromal Parkinson's disease Speaker: Géraldine Hipp, Belvaux, Luxembourg	signs of
OP-01-04	Visuospatial working memory and executive function deficits in single-multiple-domain amnestic mild cognitive impairment: A combined ERP sLORETA study Speaker: Lihua Gu, Nanjing, China	
OP-01-05	Cognitive and histopathological phenotypes in new rat models of cortice synucleinopathy Speaker: M. Angela Cenci, Lund, Sweden	al
OP-01-06	Association between post-operative delirium and Parkinson disease follommon US surgical procedures Speaker: Bhavpreet Dham, Rochester, United States	lowing
OP-01-07	Cortical 123I-FP-CIT binding deficits are associated with mild cognitive impairment in Parkinson's disease Speaker: Andrea Pilotto, Brescia, Italy	
OP-01-08	Subthalamic deep brain stimulation for advanced Parkinson's disease b the 5-year follow-up Speaker: Anna Gamaleya, Moscow, Russian Federation	eyond
OP-01-09	Deep brain stimulation of the nucleus basalis of Meynert as a treatment Parkinson's Disease Dementia: A systematic review of animal studies Speaker: Muhammad Nazmuddin, Groningen, Netherlands	for

OP-01-10	Long-term effect of subthalamic deep brain stimulation in young- and late-onset Parkinson's disease: 10-year follow-up study Speaker: Mi Sun Kim, Seoul, Republic of Korea	
OP-01-11	Bilateral GPi DBS improves medically intractable postural and kinetic tremor in patients with Parkinson's disease Speaker: Chong Sik Lee, Seoul, Republic of Korea	
OP-01-12	Non-motor symptoms in dystonia patients and influence of deep brain stimulation and botulinum toxin on them Speaker: Vladimira Vuletic, Rijeka, Croatia	
OP-01-13	The subthalamic nucleus activity at gait initiation in Parkinson's disease Speaker: <i>Ioannis Isaias, Wuerzburg, Germany</i>	
OP-01-14	Long-term clinical outcome of deep brain stimulation for PKAN syndrome Speaker: Victoria Gonzalez, Montpellier, France	
OP-01-15	Finding ways to improve axial symptoms in patients with chror Parkinson's disease Speaker: Jessica Karl, Chicago, United States	nic STN DBS for
OP-01-16	Battery longevity of neurostimulators in Parkinson-disease: A historic cohort study Speaker: Anna Luce Sette, Grenoble, France	
OP-01-17	Suicide after STN-DBS in Parkinson' disease: Who, when and h Speaker: Giulia Giannini, Bologna, Italy	now to prevent?
	Corporate Session	Forum 1
12:15 - 13:45	Corporate Session 1: Please see page 77	
	Corporate Session	Forum 2
12:15 - 13:15	Corporate Session 2: Please see page 77	
	Plenary Session Au	uditorium Lumière
13:45 - 15:15	PD and Parkinson-Plus Therapy – Current Treatments for PD a Parkinson-Plus Syndromes Chair: Tanya Simuni, Chicago, United States Chair: Franck Durif, Clermont Ferrand, France	nd
13:45 - 14:15	Current Approach to PD Motor Treatment: An Emerging Conser Speaker: Marcelo Merello, Buenos Aires, Argentina	nsus?
14:15 - 14:45	Addressing the Behavioral and Cognitive Complications in PD Speaker: Irena Rektorova, Brno, Czech Republic	
14:45 - 15:15	Progress in the Treatment of Parkinson-Plus Syndromes Speaker: Irene Litvan, San Diego, United States	

	Coffee with the Professor	Foyer Forum
15:15 - 15:45	Coffee with the Professor 2 Caroline Tanner, San Francisco, United States	
	Parallel Tracks A	uditorium Lumière
15:45 - 17:15	Challenging Features in Parkinsonian Disorders Chair: Pramod Pal, Bengaluru, Karnataka, India	
15:45 – 16:15	Preventing Falls and Fractures: The Approach to Freezing and Speaker: <i>Ioannis Isaias, Wuerzburg, Germany</i>	Gait Instability
16:15 - 16:45	A Deep Dive into the Sea of Dysautonomic Complication in PD Speaker: Paola Sandroni, New York, United States	
16:45 – 17:15	Sensible Strategies for Sleep Dysfunction in the PD Patient Speaker: Christian Baumann, Zurich, Switzerland	
	Parallel Tracks	Forum 1
15:45 - 17:15	Alternative and Palliative Therapies in Parkinson Disease Chair: <i>Hrishikesh Kumar, West Bengal, India</i>	
15:45 - 16:15	The Evidence of Exercise in Enhancing the Management of PD Speaker: Bettina Debu, Grenoble, France	
16:15 - 16:45	The Ever Expanding Role of Botulinum Toxins in Parkinsonian Speaker: <i>Mark Lew, Los Angeles, United States</i>	Disorders
16:45 – 17:15	Completing the Chapter of Care: End of Life Issues in PD Speaker: Miguel Coelho, Lisbon, Portugal	
	Parallel Tracks	Forum 2
15:45 – 17:15	Gastrointestinal Issues in Parkinson Disease supported by Merz Pharmaceuticals GmbH with an unrestricted go Chair: Ronald Pfeiffer, Portland, United States	rant
15:45 - 16:15	How Relevant is Nutrition in PD Care and Management? Speaker: Emanuele Cereda, Pavia, Italy	
16:15 - 16:45	Upper Gastrointestinal Challenges in Parkinson Disease Speaker: <i>Heinz Reichmann, Dresden, Germany</i>	
16:45 – 17:15	Lower Gastrointestinal Challenges in Parkinson Disease Speaker: Ronald Pfeiffer, Portland, United States	
	Oral Poster Presentation	Foyer Forum
15:45 - 17:15 OP-02	Oral Poster Session II – Ataxias, Tics, and/or Myoclonus, Dyst Gait and Other Movement Disorders, Tremors (4 minutes oral presentations followed by 1 minute Q&A) Moderator: Maria Stamelou, Athens, Greece Moderator: Diego Torres-Russotto, Omaha, United States	onia,

OP-02-02	Frequencies, genetic, clinical and radiologic characterization of spinocerebellar ataxia in Korea Speaker: Minkyeong Kim, Seoul, Republic of Korea	
OP-02-04	Subcortical brain areas correlate genetic characteristics in spinocerebellar ataxia type 2 patients Speaker: Dibashree Tamuli, New Delhi, India	
OP-02-05	Clinical and genetic aspects of Huntington's disease in 11 Malian families: The largest cohort genetically confirmed in Sub-Saharan Africa Speaker: Abdoulaye Bocoum, Bamako, Mali	
OP-02-06	Immunogenicity of daxibotulinumtoxinA for injection in adults with cervical dystonia from a phase 2 dose-escalation multicenter study Speaker: Dirk Dressler, Hannover, Germany	
OP-02-07	Intero- and exteroceptive mirroring and overflow movements are useful in assessing writer's cramp Speaker: Shi-Ni Tan, Singapore, Singapore	
OP-02-08	Hyperkinetic movement disorders induced by mirtazapine: Unusual case report and clinical analysis of reported cases Speaker: Won Tae Yoon, Seoul, Republic of Korea	
OP-02-09	Deep brain stimulation parameters for dystonia: A systematic review Speaker: Bakhtigul Kholmuratova, Tashkent, Uzbekistan	
OP-02-10	Approach to health care shaped by Generational Expectations (the AGE study): Patients' preferences for healthcare providers Speaker: Diana Hengartner, Cleveland, United States	
OP-02-11	Effects of long-term valbenazine on tardive dyskinesia and patient-reported outcomes: Results from the KINECT 4 study Speaker: Scott Siegert, San Diego, United States	
OP-02-13	The neural mechanism of freezing of gait in patients with Parkin Speaker: Nicolò G. Pozzi, Wuerzburg, Germany	nson's disease
	Coffee with the Professor	Foyer Forum
17:15 - 17:45	Coffee with the Professor 3 Vincenzo Bonifati, Rotterdam, The Netherlands	
	Skills Workshop	Forum 1
17:45 – 19:15	Practical Issues in Deep Brain Stimulation Therapy for PD Chair: Elena Moro, Grenoble, France	
17:45 – 18:15	Patient Selection: Combining Evidence with Experience Speaker: Jens Volkmann, Wuerzburg, Germany	
18:15 – 18:45	Pearls and Pitfalls in DBS Programming Speaker: <i>Joohi Jimenez-Shahed, Houston, United States</i>	
18:45 - 19:15	When Things Don't Go As Planned: Troubleshooting in DBS Speaker: Raja Mehanna, Houston, United States	

	Skills Workshop	Forum 2
17:45 - 19:15	Pumps and Infusions in Parkinson Disease Chair: Thomas Mueller, Berlin, Germany	
17:45 – 18:15	Apomorphine Infusion: Setting up and Troubleshooting Speaker: Marcelo Merello, Buenos Aires, Argentina	
18:15 - 18:45	Levodopa Intestinal Gel: Setting up and Troubleshooting Speaker: David Grabli, Paris, France	
18:45 – 19:15	Which Pump to Use? Optimal Patient Selection for Each Advance Speaker: Emmanuel Flamand-Roze, Paris, France	ed Therapy
	Parallel Tracks Aud	itorium Lumière
17:45 – 19:15	Parkinson Disease Care in Unique Settings Chair: Yaroslau Compta Hirnyi, Barcelona, Spain	
17:45 – 18:15	When Time is of the Essence: Managing Care in Emergency Situal Speaker: Pramod Pal, Bengaluru, Karnataka, India	ations
18:15 - 18:45	What To Do When Your Parkinson Patient Has To Undergo Surger From Pre- to Post-Operative State Speaker: Leonard Verhagen, Chicago, United States	ry:
18:45 – 19:15	Are We Really Ready for Telemedicine and Distance Health? Speaker: Mark Guttman, Toronto, Canada	
	Oral Poster Presentation	Foyer Forum
17:45 – 19:15 OP-03	Oral Poster Session III – Parkinson Disease (4 minutes oral presentations followed by 1 minute Q&A) Moderator: Rupam Borgohain, Hyderabad, India Moderator: Theresa Zesiewicz, Tampa, United States	
OP-03-01	Nilotinib increases dopamine metabolism and reduces oligomeri alpha-synuclein ratio in Parkinson's disease Speaker: Fernando Pagan, Washington DC, United States	c:total
OP-03-02	Clinical subtypes of excessive daytime sleepiness in Parkinson's Speaker: Olga lakovleva, Moscow, Russian Federation	disease
OP-03-03	Neuroprotective effects of Ethnodyn Neuro® (SNC-1), a natural prayurvedic traditional medicine, on in vitro models of Parkinson's Speaker: <i>Alexandre Henriques, Gardanne, France</i>	
OP-03-04	Propensity of Mucuna Pruriens to offset rotenone-induced bioch behavioral and oxidative dysfunctions in mice: Implications for Parkinson's disease Speaker: Dharmendra Khatri, Mumbai, India	emical,

OP-03-05	Effect of Tai Chi exercise to reduce falls and improve balance performance in Parkinson's disease: A meta-analysis Speaker: Hsin-Hsuan Liu, Taipei, Taiwan
OP-03-06	Is Parkinson's disease with history of agent orange exposure different from idiopathic Parkinson's disease? Speaker: YoungSoon Yang, Seoul, Republic of Korea
OP-03-07	α-Synuclein induced dopaminergic neurons mitochondrial dysfunction via cytochrome c oxidase subunit 2 Speaker: Danyu Lin, Guangzhou, China
OP-03-08	Dopaminergic treatment and speech in Parkinson's disease: Acoustic analysis and correlation with motor features and dyskinesia Speaker: Francesco Cavallieri, Modena, Italy
OP-03-09	Video game-based dexterity training in patients with Parkinson's disease: A pilot feasibility study Speaker: Judith Jantine Willemijn van Beek, Lucerne, Switzerland
OP-03-10	PROtein, LEucine And vitamin D Enhancing Rehabilitation (PRO-LEADER) in patients with Parkinson's disease or parkinsonism: An RCT Speaker: Emanuele Cereda, Pavia, Italy
OP-03-11	Parkinson's disease: Social determinants of quality of life of patients in the central belt of Ghana Speaker: Vida Obese, Kumasi, Ghana
OP-03-12	Exploration of the regulation of miR-4639-5p expression and its role in the pathogenesis of Parkinson's disease Speaker: Lu He, Shanghai, China
OP-03-13	Biochemical studies in the brain of transgenic drosophila as a model of Parkinson's disease treated by ropinirole silver nanocomposite (RAgNC) Speaker: Falaq Naz, Aligarh, India
OP-03-14	Rifampicin inhibits rotenone-induced inflammation by improving lysosomal function and autophagic flux in microglia Speaker: Yanran Liang, Guangzhou, China
OP-03-15	Effects of transcranial magnetic stimulation on hypokinetic dysarthria in Parkinson's disease Speaker: Lubos Brabenec, Brno, Czech Republic
OP-03-16	Bradykinesia assessment using evolutionary algorithms in Parkinson's disease: Clinical validation Speaker: Chao Gao, Shanghai, China
OP-03-18	Genomic variants associated with cognitive impairment in Parkinson's disease Speaker: Sun Ju Chung, Seoul, Republic of Korea
OP-03-19	Tear proteins as possible biomarkers for Parkinson's disease Speaker: Mark Lew, Los Angeles, United States

PROGRAM OVERVIEW / TUESDAY, 21 AUGUST 2018

Room	Auditorium Lumière	Forum 1	Forum 2	Foyer Forum	Exhibition Forum 3
08:00 – 10:00	Hyperkinetic Disorders I — The Three Other Giants: Chorea, Tics and Dystonia				
10:00 – 10:30		Coffee Break		Coffee with the Professor 4	
10:30 – 12:00	Revisiting Tardive Dyskinesias	Botulinum Toxin Use in Hyperkinetic Disorders	Examining the Hyperkinetic Patient	Oral Poster Session IV – Imaging, Genetics and Biomarkers, Other Parkinsonian Disorders	
12:00 – 12:15					
12:15 – 13:45			Corporate Session 3		09:00 – 17:00 Poster Exhibition
13:45 – 15:15	Hyperkinetic Disorders II – The Smaller Giants: Tremors, Ataxia and Movement Disorders in Children				
15:15 – 15:45		Coffee Break		Coffee with the Professor 5	
15:45- 17:15	Other Hyperkinetic Disorders	Surgical Therapies for Hyperkinetic Disorders	Rare and Misdiagnosed Movement Disorders	Oral Poster Session V – Parkinson Disease	
17:15- 18:00		Spotlight Debate: Should we worry that pimavanse- rin might indeed increase mortality amongst Parkin- son patients with psycho- sis? supported by Acadia® Pharmaceuticals with an unrestricted grant			
			Wine and Cheese Reception		
18:00 – 20:00	Grand Parade of Movement Disorders				
	y Session	Skills Workshop Oral Poster Session	Grand Parade Coffee with	e Session the Professor	Corporate Sessions (over Lunch)

	Plenary Session	Auditorium Lumière
08:00 - 10:00	Hyperkinetic Disorders I – The Three Other Giants: Chorea Chair: Raymond Rosales, Quezon City, Philippines Chair: Vincenzo Bonifati, Rotterdam, The Netherlands	, Tics and Dystonia
08:00 - 08:30	Meeting The Diverse Family of Hyperkinetic Disorders Speaker: Kailash Bhatia, London, United Kingdom	
08:30 - 09:00	Greatest Lessons Learned in Huntington's Disease Speaker: <i>Tiago Mestre, Ottawa, Canada</i>	
09:00 - 09:30	Tics, Tourette's and Stereotypies: Birds of the Same Feather Speaker: Davide Martino, Calgary, Canada	er that Do Not Flock
09:30 - 10:00	The Colorful Spectrum of Dystonia and the Evolution of its Speaker: Marie Vidailhet, Paris, France	Classification
	Coffee with the Professor	Foyer Forum
10:00 - 10:30	Coffee with the Professor 4 Tanya Simuni, Chicago, United States	
	Skills Workshops	Forum 1
10:30 - 12:00	Botulinum Toxin Use in Hyperkinetic Disorders Chair: <i>Dirk Dressler, Hannover, Germany</i>	
10:30 - 11:00	Do's and Don'ts in Botulinum Toxin Injections for Cervical I Speaker: Joohi Jimenez-Shahed, Houston, United States	Dystonia
11:00 - 11:30	Injection Principles When Targeting the Face and Mouth Speaker: Dirk Dressler, Hannover, Germany	
11:30 - 12:00	Pearls and Pitfalls in Botulinum Toxin Injections for Limb D Spasticity	ystonia and
	Speaker: Raymond Rosales, Quezon City, Philippines	
	Parallel Tracks	Auditorium Lumière
10:30 - 12:00	Revisiting Tardive Dyskinesias Chair: Emmanuel Broussolle, Lyon, France	
10:30 - 11:00	Setting the Record Straight: Nosology of Tardive Syndromo Speaker: Daniel Truong, Fountain Valley, United States	e
11:00 – 11:30	Who Gets It and Why? A Review of the Risk Factors and Hy Mechanisms for Tardive Dyskinesias Speaker: Karen Frei, Loma Linda, United States	pothesized
11:30 - 12:00	Current Treatment Options for Tardive Dyskinesias Speaker: Hubert Fernandez, Cleveland, United States	

	Skills Workshop Forum 2
10:30 - 12:00	Examining the Hyperkinetic Patient Chair: Irena Rektorova, Brno, Czech Republic
10:30 - 11:00	How To Examine the Hyperkinetic Patient Like a Master Clinician Speaker: <i>Zoltan Mari, Cleveland, United States</i>
11:00 – 11:30	Recognizing Clues from the Eyes: Ophthalmological Examination in Movement Disorders Speaker: Vivek Lal, Chandigarh, India
11:30 - 12:00	Making a Confident Diagnosis of Functional Movement Disorders through Signs and Symptoms Speaker: Alberto Espay, Cincinnati, United States
	Oral Poster Presentation Foyer Forum
10:30 - 12:00 OP-04	Oral Poster Session IV – Imaging, Genetics and Biomarkers, Other Parkinsonian Disorders (4 minutes oral presentations followed by 1 minute Q&A) Moderator: Jennifer Goldman, Chicago, United States Moderator: Eng-King Tan, Singapore, Singapore
OP-04-01	Imaging biomarkers for freezing of gait in patients with Parkinson's disease Speaker: Ruwei Ou, Chengdu, China
OP-04-02	Pathway based genetic markers reveals relation between stroke and Parkinson's disease Speaker: Himanshu Narayan Singh, Delhi, India
OP-04-03	A novel co-activation pattern analysis of resting-state fMRI networks in Parkinson's disease reveals reduced network dynamics that correlate with motor symptom severity Speaker: Ryan Walsh, Phoenix, United States
OP-04-04	Early Parkinson's disease is distinguished by a structural network backbone identified through graph theoretical analysis of diffusion MRI Speaker: Ryan Walsh, Phoenix, United States
OP-04-05	Oligogenic inheritance in Parkinson disease explained by multiple mitochondrial and lysosomal gene mutations Speaker: Stefanie Smolders, Antwerp, Belgium
OP-04-06	Distinct between-network functional connectivity changes in Parkinson's disease: A follow-up study Speaker: Patricia Klobusiakova, Brno, Czech Republic
OP-04-07	Diagnostic utility of a targeted resequencing technique of next generation sequencing in detecting copy number changes in PARK2 Speaker: Yun Joong Kim, Anyang, Republic of Korea

OP-04-08	Investigating glucocerebrosidase (GBA) gene mutations in Parkinson's disease Speaker: <i>Ee Chien Lim, Singapore, Singapore</i>	
OP-04-09	Correlations between white matter lesions and cognitive impairment in Parkinson's disease Speaker: Celeste Yan Teng Chen, Singapore, Singapore	
OP-04-10	Diagnostic utility of acute levodopa challenge test: Beyond levodopa responsiveness Speaker: Mrinal Kumar Acharya, Kolkata, India	
OP-04-11	Onset and progression of pathologic atrophy in patients with Huntington disease in Uzbekistan Speaker: Farkhod Yunusov, Tashkent, Uzbekistan	
OP-04-12	Frontal intermittent rhythmic delta activity (FIRDA) as a marker of Dementia with Lewy Body (DLB). A resting state conventional EEG study Speaker: Stefano Calzetti, Parma, Italy	
OP-04-13	Comparison of dystonia between Parkinson's disease and atypical parkinsonism: The clinical usefulness of dystonia distribution and characteristics in the differential diagnosis of parkinsonism Speaker: Won Tae Yoon, Seoul, Republic of Korea	
OP-04-14	Striato-nigral and cortical 123I-FP-CIT dopaminergic defi Lewy bodies and Parkinson's disease Speaker: <i>Andrea Pilotto, Brescia, Italy</i>	cits in dementia with
	Corporate Session	Forum 2
12:15 - 13:45	Corporate Session 3: Please see page 77	
	Plenary Session	Auditorium Lumière
13:45 - 15:15	Hyperkinetic Disorders II – The Smaller Giants: Tremors, A Disorders in Children Chair: Maria Stamelou, Athens, Greece	Ataxia and Movement
13:45 - 14:15	Developing a Steady Approach to Shaking: The Classification of Tremors Speaker: Diego Torres-Russotto, Omaha, United States	
14:15 - 14:45	Organizing the Chaotic World of Ataxia Speaker: Theresa Zesiewicz, Tampa, United States	
14:45 - 15:15	The Unique Spectrum of Pediatric Movement Disorders Speaker: Jennifer Friedman, San Diego, United States	
	Coffee with the Professor	Foyer Forum
15:15 - 15:45	Coffee with the Professor 5 Michael Schwarzschild, Boston, United States	

	Parallel Tracks	Auditorium Lumière
15:45 - 17:15	Other Hyperkinetic Disorders Chair: Rupam Borgohain, Hyderabad, India	
15:45 - 16:15	What's Old and New in Myoclonus? Speaker: John Caviness, Phoenix, United States	
16:15 - 16:45	The Evaluation and Treatment of Restless Legs and Periodi Sleep Speaker: William Ondo, Houston, United States	c Leg Movements of
16:45 - 17:15	The Approach to Paroxysmal Movement Disorders Speaker: Eng-King Tan, Singapore, Singapore	
	Skills Workshop	Forum 1
15:45 - 17:15	Surgical Therapies for Hyperkinetic Disorders Chair: <i>Marie Laure Welter, Paris, France</i>	
15:45 - 16:15	DBS for Dystonia: Have We Finally Cracked the Code for Ou Speaker: <i>Elena Moro, Grenoble, France</i>	tcome Consistency?
16:15 – 16:45	DBS for the Treatment Tremors, Tourette's and Chorea Speaker: Michele Tagliati, Los Angeles, United States	
16:45 – 17:15	Ultrasound and Lesioning Therapies in Movement Disorders Speaker: <i>Binit Shah, Charlottesville, United States</i>	s
	Parallel Tracks	Forum 2
15:45 - 17:15	Rare and Misdiagnosed Movement Disorders Chair: Rukmini Mridula Kandadai, Mumbai, India	
15:45 – 16:15	Spotting and Successfully Treating Wilson's Disease Speaker: Peter Hedera, Nashville, United States	
16:15 – 16:45	One Only Sees What One Knows: Recognizing Autoimmune Speaker: Thien T. Lim, George Town, Malaysia	Disorders
16:45 - 17:15	The Diverse Spectrum of Metabolic and Infectious Moveme Speaker: Yih-Ru Wu, Taoyuan, Taiwan	nt Disorders
	Oral Poster Presentation	Foyer Forum
15:45 - 17:15 OP-05	Oral Poster Session V – Parkinson Disease (4 minutes oral presentations followed by 1 minute Q&A) Moderator: Alberto Albanese, Milan, Italy Moderator: Hui-Fang Shang, Chengdu, China	
OP-05-01	Subcortical steps of visual processing are altered in de nov disease patients Speaker: Emmanuelle Bellot, Grenoble, France	o Parkinson's

OP-05-02	Recommendations for the organization of team care in Parkinson's disease: Practice-based evidence from 20 expert centers around the world Speaker: Danique Radder, Nijmegen, The Netherlands
OP-05-03	Effect of istradefylline on non-motor symptoms of Parkinson's disease: A sub-analysis of a 1-year observational study in Japan (J-FIRST) Speaker: Yasushi Shimo, Tokyo, Japan
OP-05-04	Pain: A marker of prodromal Parkinsons disease? Speaker: Mrinal Kumar Acharya, Kolkata, India
OP-05-05	A randomized controlled trial of DA-9701 on gastric motility in patients with Parkinson's disease Speaker: Cheol Min Shin, Seongnam, Republic of Korea
OP-05-06	Promoter identification and transcriptional regulation of the anti-inflammation gene CD200R1 in Parkinson's disease Speaker: Lu He, Shanghai, China
OP-05-07	Long-term efficacy and safety of incobotulinumtoxinA treatment for sialorrhoea in Parkinson's disease and other neurologic conditions Speaker: Fernando Pagan, Washington, United States
OP-05-08	Long-term prognosis and survival of new Parkinson's disease subtypes Speaker: Eduardo De Pablo-Fernández, London, United Kingdom
OP-05-09	Acute dopaminergic neurotoxicity of alpha-synuclein oligomers is mediated by microglial cells Speaker: Noëlle Callizot, Gardanne, France
OP-05-10	Nonlinearities in outcome-specific hazard of motor and nonmotor long-term complications of Parkinson's disease Speaker: Stéphane Prange, Bron, France
OP-05-11	Early serotonergic lesion promotes the emergence and severity of motor symptoms in monkeys Speaker: Mathilde Millot, Lyon, France
OP-05-12	Safety of sublingual apomorphine film (APL-130277) for the treatment of OFF episodes in patients with Parkinson's disease: Results from a phase 3 double-blind, placebo-controlled trial Speaker: Rajesh Pahwa, Kansas City, United States
OP-05-13	Therapeutic potential of a prolyl hydroxylase Inhibitor FG-4592 for Parkinson's diseases Speaker: Yuncheng Wu, Shanghai, China
OP-05-14	Sodium oxybate for excessive daytime sleepiness and sleep disturbance in Parkinson's disease: A randomized clinical trial Speaker: Fabian Buechele, Zurich, Switzerland

A novel adenosine A2A receptor antagonist KW-6356 in early Parkinson's OP-05-15 disease: A randomized controlled trial for efficacy and safety Speaker: Tetsuya Maeda, Morioka, Japan OP-05-16 A novel mGlu4 compound displays anti-parkinsonian and anti-dyskinetic activity in primate models of Parkinson's disease Speaker: Delphine Charvin, Plan-les-Ouates, Switzerland OP-05-17 Efficacy and safety of incobotulinumtoxinA for upper-limb essential tremor in a randomised, double-blind, placebo-controlled trial using kinematics-guided clinical decision support Speaker: Mandar Jog, London, Canada OP-05-18 Comparison of botulinum toxin injections in forearm FLexor plus EXtensor muscles versus flexor muscles alone for the treatment of Essential hand Tremor (FLEX ET) Speaker: Shnehal Patel, Cleveland, United States OP-05-19 Beyond cerebellar involvement: Abnormal subcortical volumes in essential tremor Speaker: Shweta Prasad, Bangalore, India

Parallel Tracks Forum 1

17:15 – 18:00 Spotlight Debate: Should we worry that pimavanserin might indeed increase

mortality amongst Parkinson patients with psychosis?

supported by Acadia® Pharmaceuticals with an unrestricted grant

Moderator: Karen Frei, Loma Linda, United States

Yes, we should

Speaker: Daniel Weintraub, Philadelphia, United States

No, we should not

Speaker: Zoltan Mari, Cleveland, United States

Questions and Answers

Grand Parade of Movement Disorders

Auditorium Lumière

18:00 – 20:00 Grand Parade of Movement Disorders

Chair: Kailash Bhatia, London, United Kingdom

Chair: Alberto Albanese, Milan, Italy

Video presenters:

Chloé Laurencin, Lyon, France Wael Ibrahim, Cairo, Egypt Soaham Desai, Anand, India Marie Vidailhet, Paris, France

Emanuel Flamand-Roze, Paris, France

Maria Stamelou, Athens, Greece

Rukmini Mridula Kandadai, Mumbai, India Thien Thien Lim, George Town, Malaysia Jirada Sringean, Bangkok, Thailand

Time for Questions and Answers will follow presentation of each video case.

4TH INTERNATIONAL CONGRESS ON TREATMENT OF DYSTONIA

2019

HANNOVER-GERMANY

8 – 11 May

Hannover Congress Centrum

Save the Date

www.treatment-of-dystonia.org

PROGRAM OVERVIEW / WEDNESDAY, 22 AUGUST 2018

Room	Auditorium Lumière	Forum 1	Forum 2	Foyer Forum	Exhibition Forum 3
08:00 - 10:00	Diagnostic and Therapeutic Updates – The Most Promising Diagnostic Tools and Therapies in Movement Disorders				
10:00 – 10:30		Coffee Break		Coffee with the Professor 6	
10:30 – 11:30	Controversies in Movement Disorders – Debating Scientific and Practical Issues				
11:30 – 12:30	Parkinsonism and Related Disorders Journal: Special Session and Awards				



	Plenary Session Audito	orium Lumière
08:00 - 10:00	Diagnostic and Therapeutic Updates – The Most Promising Diagnostic and Therapies in Movement Disorders Chair: Stephane Thobois, Lyon, France Chair: Elena Moro, Grenoble, France	ostic Tools
08:00 - 08:30	A Peek into the Next Generation of Diagnostic Tools in Movement I Speaker: Jon Stoessl, Vancouver, Canada	Disorders
08:30 - 09:00	Therapeutic Update I: Where Are We in PD Neuroprotection? Speaker: Tanya Simuni, Chicago, United States	
09:00 - 09:30	Therapeutic Update II: The Next Chapter in Symptomatic PD Treatr Speaker: Hubert Fernandez, Cleveland, United States	ment
09:30 - 10:00	Therapeutic Update III: Where are Surgical Therapies Headed in Mo Disorders? Speaker: Joachim Krauss, Hannover, Germany	ovement

SCIENTIFIC PROGRAM / WEDNESDAY, 22 AUGUST 2018

	Coffee with the Professor	Foyer Forum
10:00 - 10:30	Coffee with the Professor 6 Marie Vidailhet, Paris, France	
	Plenary Session	Auditorium Lumière
10:30 - 11:30	Controversies in Movement Disorders – Debating Scientific Chair: Alessandro Di Rocco, New York, United States Chair: Erik Ch. Wolters, Amsterdam, Netherlands	c and Practical Issues
10:30 - 11:00	Do Inflammation and Immunity Play an Important Role in P Pro: Yes, inflammation and immunity play an important role Dennis Dickson, Jacksonville, United States Con: No, inflammation and immunity do not play an important re Etienne Hirsch, Paris, France	e in PD pathogenesis
11:00 - 11:30	Is Genetic Testing Under Utilized in PD and Other Movement Disorders? Pro: Yes, genetic testing is under-utilized in PD and other movement disorders Vincenzo Bonifati, Rotterdam, The Netherlands Con: No, genetic testing is not under-utilized in PD and other movement disorders Andreas Puschmann, Lund, Sweden	
	Plenary Session	Auditorium Lumière
11:30 - 12:30	Parkinsonism and Related Disorders Journal: Special Sessio Chair: Vincenzo Bonifati, Rotterdam, Netherlands Chair: Hubert Fernandez, Cleveland, United States	n and Awards
11:30 - 11:40	Update on Parkinsonism and Related Disorders Speaker: <i>Hubert Fernandez, Cleveland, United States</i> Speaker: <i>Vincenzo Bonifati, Rotterdam, Netherlands</i>	
11:40 - 12:00	Best Basic / Translational Science Articles published in PRI Speaker: Andreas Puschmann, Lund, Sweden	D
12:00 - 12:20	Best Clinical Science Articles Published in PRD Speaker: Eng-King Tan, Singapore, Singapore	
12:20 - 12:30	Best Poster Awards Speaker: Peter Riederer, Wuerzburg, Germany	
	Closing Words and Announcing Montreal 2019	



WORLD CONGRESS ON PARKINSON'S DISEASE AND RELATED DISORDERS

MONTREAL / CANADA



www.iaprd-world-congress.com

2019 16 - 19 June



Topic: Basic N	euroscience Forum 3
P 002	Lead acute intoxication alters dopaminergic system and locomotor performance in Meriones shawi <u>Tamegart L</u> . ¹ , Bouyatas M.M. ² , Abbaoui A. ² , Gamrani H. ² ¹ Cadi Ayyad University, Biology, Marrakech, Morocco, ² Cadi Ayyad University, Marrakesh, Morocco
P 009	L-theanine recues quinolinic acid induced motor dysfunction and striatal neurotoxicity: Reduction in oxido-nitrosative stress and restoration of striatal neurotransmitters level <u>Jamwal S.</u> ¹ , Kumar P. ² ¹ SPES, Baddi University of Emerging Sciences and Technologies, Pharmacology, Baddi, India, ² MRS Punjab Technical University, Department of Pharmaceutical Sciences and Technology, Bathinda, India
P 010	Intranigral inoculation of Parkinson's disease linked mutation G51D alpha-synuclein firbils induces Lewy-like pathology in mice Hayakawa H.¹, Baba K.¹, Ikenaka K.¹, Nakatani R.¹, Choong CJ.¹, Tsuda H.¹, Nagano S. Nagai Y.², Ikeuchi T.³, Mochizuki H.¹ ¹Osaka University, Department of Neurology, Osaka, Japan, ²Osaka University, Department of Neurotheraputics, Osaka, Japan, ³Niigata University, Department of Molecular Genetics, Niigata, Japan
P 011	Role of metformin in diabetic aging female rat brain: A future therapy for neurodegenerative diseases <u>Kumar P.</u> ¹, Baquer N.¹ ¹Jawaharlal Nehru University, School of Life Sciences, New Delhi, India
P 012	Aloe arborescens and Curcuma longa protect against acute copper exposure induced the neurobehavioral characteristics of Parkinson's disease in rats Abbaoui A. ¹ Cadi Ayyad University, Faculty of Sciences Semlalia Marrakech
P 013	Impaired dopaminergic and serotonergic innervations in thioacetamide induced acute hepatic encephalopathy may be linked to hypolocomotion El Khiat A. ¹ Cadi Ayyad University, Faculty of Sciences semlalia Marrakech
P 014	Study on the operation time of deep brain stimulation for Parkinson's disease <u>Guo Q.</u> ¹ The First Affiliated Hospital of Sun Yat-sen University
P 015	2014-2016 worldwide bibliometric snapshot of the scientific literature on Parkinson's disease <u>Cornu J.</u> ^{1,2} , Robert C. ^{3,4} , Wilson C.S. ⁵ , Arreto CD. ^{6,7} ¹ Hopital Bretonneau, Paris, France, ² Hopital Corentin Celton, Issy-les-Moulineaux, France, ³ Université Paris Descartes, Paris, France, ⁴ Gliaxone, Saint Germain sous Doue, France, ⁵ School of Information Systems, Technology and Management, University of New South Wales, UNSW, Sydney, Australia, ⁶ Université Paris Descartes, Faculté de Chirurgie Dentaire, Montrouge, France, ⁷ Hôpital Bretonneau, HUPNVS, AP-HP, Paris, France
P 017	Clinical correlations between Parkinson's disease and vascular parkinsonism: New retrospective review from Uzbekistan <u>Umarov A.</u> ¹ , Rakhimbaeva G. ¹ ¹Tashkent Medical Academy, Department of Neurology, Tashkent, Uzbekistan
P 020	The role of apoproteins in the development of Parkinson's disease Azizova D. Tashkent Medical Academy, Medical Biochemistry, Tashkent, Uzbekistan

P 021 Combined administration of an A2A receptor antagonist and a 5-HT1A/1B receptor

agonist reverses neuroinflammation in the 6-OHDA model of Parkinson's disease

Costa G.1, Serra M.1, Morelli M.1,2,3, Pinna A.3

¹University of Cagliari, Monserrato, Italy, ²National Institute of Neuroscience, Cagliari, Italy, ³National Research Council of Italy, Institute of Neuroscience, Cagliari, Italy

P 022 Prevention of Parkinson's disease using natural biological additives

Azizova D.1, Sobirova R.2

¹Tashkent Medical Academy, Medical Biochemistry, Tashkent, Uzbekistan, ²Tashkent Medical Academy, Tashkent, Uzbekistan

Topic: Imaging, Genetics and Biomarkers

P 023 Cerebral microbleeds in dementia with Lewy bodies is not characteristic

Poliakova T.1

¹Russian Medical Academy for PostGraduated Education, Neurology, Belgorod, Russian Federation

P 026 Evaluation of the 70 kDa heat shock protein (Hsp70) plasma level in Parkinson's disease and GBA-associated Parkinson's disease patients

<u>Senkevich K.</u>^{1,2,3}, Miliukhina I.^{1,3}, Gracheva E.¹, Berkovich O.³, Pchelina S.^{1,2,3}, Multhoff G.⁴. Shevtsov M.^{3,4,5}

¹Institute of Experimental Medicine, Saint-Petersburg, Russian Federation, ²Petersburg Nuclear Physics Institute named by B.P. Konstantinov of National Research Centre «Kurchatov Institute», Saint-Petersburg, Russian Federation, ³First Pavlov State Medical University of St. Petersburg, Saint-Petersburg, Russian Federation, ⁴Klinikum rechts der Isar, Technical University of Munich (TUM), Munich, Germany, ⁵Institute of Cytology of the Russian Academy of Sciences (RAS), Saint-Petersburg, Russian Federation

P 027 A rare fatal Familial parkinsonism in elderly with early respiratory failure

Krishnan P.1, Sarma G.R.K.2, Murgod U.1, Roy A.K.1, Srinivas M.1

¹Manipal Hospital, Neurology, Bangalore, India, ²St Johns Medical College and Research Centre, Neurology, Bangalore, India

P 029 Application of convolutional neural networks in the diagnosis of Parkinson's disease dementia based on magnetic resonance imaging

Ringryk F1 Suwalska A1 Kocot S1 Sinda L2 Robek-Rillewicz R

Binczyk F.¹, Suwalska A.¹, Kocot S.¹, <u>Siuda J.</u>², Bobek-Billewicz B.W.³, Tarnawski R.⁴, Polanska J.¹, Rudzinska-Bar M.²

¹Silesian University of Technology, Faculty of Automatic Control, Electronics and Computer Science, Gliwice, Poland, ²Medical University of Silesia, School of Medicine in Katowice, Department of Neurology, Katowice, Poland, ³Oncology Center - Maria Skłodowska-Curie Institute, Branch in Gliwice, Department of Radiology and Diagnostic Imaging, Gliwice, Poland, ⁴Oncology Center - Maria Skłodowska-Curie Institute, Branch in Gliwice, III Department of Radiotherapy and Chemotherapy, Gliwice, Poland

P 030 DAT scan abnormalities in juvenile Westphal variant of Huntington's disease

Pedouim F.1, Dashtipour K.1, Frei K.1

¹Loma Linda University, Neurology, Loma Linda, United States

P 031 Influence of alpha-synuclein promoter (Rep1) polymorphism on cognition,

disability and plasma alpha-synuclein levels in Parkinson's disease

Ng A.¹, Tan J.¹, Zhao Y.², Zhonghao L.¹, Ng S.¹, Ng E.¹, Tan E.K.¹, Tan L.¹

¹National Neuroscience Institute, Neurology, Singapore, Singapore, ²Singapore General Hospital, Research, Singapore, Singapore

P 032 The role of 18F-FP-CIT PET in differentiation of progressive supranuclear palsy and frontotemporal dementia in the early stage

Lee P.H.1, Yoo H.S.1, Chung S.J.1, Sohn Y.H.1

¹Yonsei University College of Medicine, Department of Neurology, Seoul, Republic of Korea

P 034 Association analysis of DRD2 rs2283265 and DRD1 rs4532 with Parkinson's disease and multiple system atrophy in a large Chinese population

<u>Gu X.</u>¹, Chen Y.¹, Cao B.¹, Ou R.¹, Zhang L.¹, Hou Y.¹, Wei Q.¹, Song W.¹, Shang H.¹ West China Hospital, Sichuan University, Department of Neurology, Chengdu, China

P 035 Early brain metabolic changes in patients with Parkinson's disease and its correlation to the risk of falling

Brumberg J.¹, Pozzi N.², Marotta G.³, Buck A.¹, Volkmann J.², Pezzoli G.⁴, <u>Isaias I.</u>²

¹University Hospital Wuerzburg, Nuclear Medicine, Wuerzburg, Germany, ²University Hospital Wuerzburg,
Neurology, Wuerzburg, Germany, ³Fondazione IRCCS Ca' Granda – Ospedale Maggiore Policlinico, Nuclear
Medicine, Milan, Italy, ⁴ASST G. Pini-CTO, Centro Parkinson, Milan, Italy

Spg 11 gene mutation associated autosomal recessive hereditary spastic paraplegia presenting with partially levodopa responsive parkinsonism, stereotypy and cognitive decline

Desai S.1, Singh S.1, Patel V.2, Sheth J.3

P 036

¹Pramukhswami Medical College and Shree Krishna Hospital, Neurology, Anand, India, ²Pramukhswami Medical College and Shree Krishna Hospital, Radiology, Anand, India, ³FRIDGE HOUSE, Genetics, Ahmedabad, India

P 037 Gene-lifestyle interactions in Parkinson's disease

<u>Chen C.Y.T.</u>¹, Ong Y.L.^{1,2}, Deng X.¹, Li H.H.³, Ng E.¹, Kumar P.M.^{1,2}, Au W.L.¹, Ratnagopal P.^{1,2}, Tan L.¹, Tan E.K.^{1,2}

¹National Neuroscience Institute, Neurology, Singapore, Singapore, ²Duke-NUS Graduate Medical School, Singapore, Singapore, ³Singapore General Hospital, Health Services Research, Singapore, Singapore



Topic: Deep Brain Stimulation and Functional Neurosurgery

P 040 Improvement of apraxia of eyelid opening in a patient with Parkinson's disease

following the change of the directional lead for subthalamic nucleus deep brain

stimulation

<u>Kadowaki T.</u>¹, Hamaguchi M.¹, Shiina T.¹, Shingo T.², Sakuramoto H.¹, Suzuki K.¹, Hirata K.¹ Dokkyo Medical University, Department of Neurology, Mibu, Japan, ²Dokkyo Medical University, Department

of Neurosurgery, Mibu, Japan

P 041 Toe dystonia in Parkinson's disease: Impact of subthalamic nucleus deep brain

stimulation

<u>Laurencin C.</u>^{1,2}, Montaut S.³, Danaila T.^{1,2}, Mertens P.¹, Vial C.¹, Thobois S.^{1,2}

¹Hopital Neurologique Pierre Wertheimer, Lyon, France, ²Institut des Sciences Cognitives, Bron, France,

³Hôpital de Hautepierre, Hôpitaux Universitaires de Strasbourg, Strasbourg, France

P 042 Long term outcome of the subthalamic nucleus DBS for advanced Parkinson's

disease: An eight years follow-up study in China

Guo Q.1

¹The First Affiliated Hospital of Sun Yat-sen University

P 043 The long-term development of excessive daytime sleepiness after subthalamic

deep brain stimulation in patients with Parkinson's disease

Jung Y.J.¹, Kim H.-J.², Lee W.-W.³, Lee T.J.¹, Ryu S.Y.¹, Lee S.B.¹, Jeon B.²

¹Daejeon St.Mary's Hospital, The Catholic University of Korea, Neurology, Daejeon, Republic of Korea, ²Movement Disorder Center, Seoul National University Hospital, Parkinson Study Group, Seoul National University, Neurology, Seoul, Republic of Korea, ³Nowon Eulji Medical Center, Eulji University, Neurology,

Seoul, Republic of Korea

P 044 Usefulness of directional deep brain stimulation in patients with movement disorders

Contreras Pinto M.¹, Saavedra J.S.¹, Roldan P.¹, Muñoz E.¹, Rumia J.¹, Vallderiola F.¹

¹Hospital Clinic - Universidad de Barcelona, Barcelona, Spain

P 045 Predicting patient discharge disposition subsequent to deep brain stimulation

surgery: A pilot study

Farrokhi F.1

¹Virginia Mason, Neurosurgery, Seattle, United States

P 046 Meta-analysis of mortality following subthalamic and pallidal deep brain

stimulation for patients with Parkinson's disease

Negida A.¹, Shalash A.²

¹School of Medicine, Zagazig University, Zagazig, Egypt, ²Ain Shams University, Parkinson's disease and

Movement Disorders Unit, Cairo, Egypt

Topic: Parkinson Disease

P 047 Evaluation of genetic changes of polymerase chain reaction in patients with PD

in early stage

Salohiddinov M.1

¹Tashkent Medical Academy, Neurology, Tashkent, Uzbekistan

P 050 Influence of the stage in Parkinson's Disease on the level of cognitive impairment in people over 65 years of age

Mollinedo Cardalda I.¹, Resúa B.², Díaz-Pache C.³, Millán-Calenti J.⁴, Cancela J.M.²
¹University of Vigo, Research group HealthyFit, Institute of Health Research Galicia Sur (IISGS), Hospital
University Complex of Pontevedra (CHOP), SERGAS, Vilagarcía de Arousa, Spain, ²University of Vigo, Research
group HealthyFit, Institute of Health Research Galicia Sur (IISGS), Hospital University Complex of Pontevedra
(CHOP), SERGAS, Pontevedra, Spain, ³Asociación Provincial de Parkinson, Pontevedra, Spain, ⁴University of A
Coruña, Gerontology Research Group, Biomedical Research Institute of A Coruña (INIBIC), Hospital University
Complex of A Coruña (CHUAC), SERGAS, A Coruña, Spain

P 056 Use of safinamide in Parkinson's disease patients over 70 years with dyskinesias and pharmacological psychosis

<u>Rodríguez-Sanz A.</u>¹, Mascías Cadavid J.¹, Vivancos Matellano F.¹
¹Hospital Universitario La Paz, Madrid, Spain

P 058 A non-motor symptom unheard of? Hearing loss in Mexican patients with Parkinson's disease

<u>Castillo Torres S.A.</u>¹, Cerda-Contreras C.¹, Soto Galindo G.A.², Estrada-Bellmann I.¹, Treviño-González J.L.²

¹Universidad Autónoma de Nuevo León, Servicio de Neurología, Monterrey, Mexico, ²Universidad Autónoma de Nuevo León, Centro Universitario de Otorrinolaringología y Cirugía de Cabeza y Cuello, Monterrey, Mexico

P 059 Development of anti-Parkinsonism poly herbal sustained release formulation composed of potential traditional plant extracts

Jain A.1, Jain S.2, Bhargav S.3

¹Bhagyoday Tirth Pharmacy College, Pharmacy, Sagar, India, ²Bhagyoday Tirth Pharmacy College, Sagar, India, ³United Institute of Pharmacy, Allahabad, India

P 060 Microarray analysis upon a synthetic α-synuclein induced model reveals some susceptibility genes in Parkinson's disease

Tao E.

P 063

¹The Sun Yat-sen Memorial Hospital of Sun Yat-sen University, Department of Neurology, Guangzhou, China

P 061 Postural instability in patients with Parkinson disease and its correction by balance therapy

<u>Akbarkhodjaeva Z.</u>¹, Rakhimbaeva G.¹, Saidvaliev F.¹ ¹Tashkent Medical Academy, Neurology, Tashkent, Uzbekistan

P 062 Insomnia due to restlessness restricted to the perianal region in a patient with Parkinson's disease

Okamura M.¹, Suzuki K.¹, Hirata K.¹

¹Dokkyo Medical University, Neurology, Tochigi, Japan

Worsening of dyskinesia following the change of peptic ulcer treatment in a patient with Parkinson's disease under the levodopa-carbidopa intestinal gel infusion therapy

<u>Sakuramoto H.¹</u>, Kadowaki T.¹, Tomohiko S.¹, Fujita H.¹, Suzuki K.¹, Hirata K.¹¹Dokkyo Medical University, Kitakobayashi, Mibu, Tochigi, Japan

P 064 Investigation of sleep duration, sedentary behavior, and physical activity in idiopathic Parkinson disease

Aktar B.1, Donmez Colakoglu B.2, Balci B.1

¹Dokuz Eylül University School of Physical Therapy and Rehabilitation, Izmir, Turkey, ²Dokuz Eylül University, Department of Neurology, Izmir, Turkey

P 069 Measurement of Parkinson's disease patients functional ability before and after physiotherapy: A case series Cousins J.¹, Lindahl A.², Leighton N.² Warwick Medical School, Coventry, United Kingdom, 2University Hospital Coventry and Warwickshire, Coventry, United Kingdom P 070 Rotenone induced Parkinson's disease model: Analysis of PARK2 and PINK1 genes expression Abdul Razzak Z.^{1,2}, Abbas G.¹, Rafi K.^{1,2}, Usman Simjee S.^{1,2} International Center for Chemical and Biological Sciences (ICCBS), H.E.J. Research Institute of Chemistry, Karachi, Pakistan, 2International Center for Chemical and Biological Sciences (ICCBS), Dr. Panjwani Center for Molecular Medicine and Drug Research, Karachi, Pakistan P 071 The late effects of traumatic brain injury – leading to Parkinson disease – a prospective study Fatima A.1, Zaidi S.S.A.2 ¹Singapore General Hospital, Lahore, Pakistan, ²Wecare Medical Centre, Lahore, Pakistan P 072 Is restless legs syndrome (RLS), a prodromal feature of Parkinson's disease (PD), associated to small fiber pathology? Calzetti S.1, Bellanova M.F.2, Saccani E.2, Negrotti A.1, Capozzi A.2, Pietrini V.2 ¹Neurology Unit Azienda Ospedaliero-Universitaria of Parma, Parma, Italy, ²Neuropathology Lab Azienda Ospedaliero-Universitaria of Parma, Parma, Italy P 073 Does the side of onset of motor symptoms in parkinsonian patients have an impact on the global clinical phenotype? Lazzeri G.1, Franco G.1, Trezzi I.1, Borellini L.2, Monfrini E.1, Frattini E.1, Ardolino G.2, Cogiamanian F.2, Di Fonzo A.1 IRCCS Foundation Ca' Granda Ospedale Maggiore Policlinico, Dino Ferrari Center, Neuroscience Section, Department of Pathophysiology and Transplantation, University of Milan, Milano, Italy, 2IRCCS Foundation Ca' Granda Ospedale Maggiore Policlinico, U.O. Neurofisiopatologia, Milano, Italy P 074 Instrumental evaluation of autonomic nervous system disfunction in idiopathic Parkinson's disease <u>Doregowska M.¹</u>, Toś M.², Malkiewicz J.², Kaczmarczyk A.¹, Siuda J.¹, Rudzińska-Bar M.¹ ¹Medical University of Silesia, Department of Neurology, Katowice, Poland, ²Medical University of Silesia, Students Scientific Association, Katowice, Poland P 075 Effective rehabilitation program for Parkinson's disease – from National **Hospital Organization Japan** Hasegawa K.1, NHO TSPD Study Group ¹National Hospital Organization, Sagamihara National Hospital, Neurology, Sagamihara, Japan P 076 Interrelation between chronic pain syndrome and cognitive and affective disturbances in patients with Parkinson's disease Stepanchenko K.1 ¹Kharkiv Medical Academy of Postgraduate Education, Department of Neurology, Kharkiv, Ukraine P 078 Effect of ventricle size on development of freezing of gait in Parkinson's disease ¹Inje University, Neurology, Goyang-si, Republic of Korea P 079 Non-motor symptoms of Parkinson's disease: Evaluation of urinary disorders Karbozova K.1

Kyrgyz State Medical Academy, Neurology and Clinical Genetics Department, Bishkek, Kyrgyzstan

P 082 The impact of levodopa induced dyskinesia on the quality of life in Parkinson's disease patients

Prakash K.M.¹, Lim E.-C.¹, Nadkarni N.², Lye W.-K.², Tan E.-K.¹

¹National Neuroscience Institute, Singapore, Singapore, ²Duke NUS Medical School, Centre of Quantitative Medicine, Singapore, Singapore

P 083 Prevalence and associations for depression in patients with Parkinson's disease: A Sri Lankan experience

Herath T.1

¹National Hospital of Sri Lanka, Kandy, Sri Lanka

P 085 Metabolic and functional changes in the eye as a manifestation of the systemic neurodegeneration at parkinsonism

Kim A.¹, Pavlenko T.², Pavlova E.¹, Chesnokova N.², Ugrumov M.^{1,3}

¹Koltzov Institute of Developmental Biology of Russian Academy of Sciences, Moscow, Russian Federation, ²Helmholtz Moscow Research Institute of Eye Diseases of Ministry of Health of the Russian Federation, Moscow, Russian Federation, 3National Research University Higher School of Economics, Moscow, Russian Federation

P 086 Acute lethargic state after abrupt apomorphine withdrawal in Parkinson's disease

> Cavallieri F.^{1,2}, Fraix V.^{2,3,4}, Meoni S.^{2,3,4}, Krack P.⁵, Moro E.^{2,3,4}, Castrioto A.^{2,3,4} ¹St. Agostino-Estense Hospital, University of Modena and Reggio Emilia, Department of Neuroscience, Modena, Italy, ²CHU de Grenoble, Movement Disorders Unit, Neurology Department, Grenoble, France, ³Univ. Grenoble Alpes, Grenoble Institut des Neurosciences, Grenoble, France, Inserm, U1216, Grenoble, France, Faculty of Medicine, University of Geneva, Department of Clinical Neurosciences (Neurology), Geneva, Switzerland

P 089 **Evaluations of additive effect of two indigenous medicinal plants Cedrus** Deodara and Mucuna pruriens towards the treatment of Parkinson's disease Jain S.1, Jain A.1, Bhargav S.2

> ¹Bhagyoday Tirth Pharmacy College, Pharmacy, Sagar, India, ²United Institute of Pharmacy, Pharmacy, Allahabad, India

P 090 ON is not always ON: When non-motor fluctuations do not match motor fluctuation conditions

> Del Prete E.^{1,2}, Schmitt E.¹, Meoni S.¹, Fraix V.¹, Castrioto A.¹, Pelissier P.¹, Ceravolo R.², Moro E.1

> Movement Disorders Unit, Division of Neurology, CHU Grenoble, Grenoble Alpes University, INSERM1216, Grenoble, France, ²Department of Clinical and Experimental Medicine, Neurology Unit, University of Pisa, Pisa, Italy

P 091 Trunk exercise program for Parkinson's disease

Cheon S.-M.1, Kim J.W.1

¹Dong-A University School of Medicine, Neurology, Busan, Republic of Korea

P 092 The neuropsychiatric fluctuations scale for Parkinson's disease: A pilot study Schmitt E.1

¹C.H.U de Grenoble, Neurology, Movements Disorders, Grenoble Cedex, France

P 093 The impact of impulsivity on quality of life in drug-naive Parkinson's disease Ryu D.-W.1, Kim J.-S.1

¹Catholic University, Neurology, Seoul, Republic of Korea

P 094 The cost-effectiveness of specialized nursing interventions for people with Parkinson's disease: protocol of a randomized controlled trial

Radder D.^{1,2}, de Vries N.^{1,2}, Lennaerts H.³, Munneke M.^{1,2}, Bastiaan B.^{1,2}

¹Radboud University Medical Center, Department of Neurology, Nijmegen, Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands, 3Radboud University Medical Center, Department of Anaesthesiology, Pain and Palliative Care, Nijmegen, Netherlands

37

P 095	Sleep behavior disorder Liu Y.¹, Zhu X.¹, Zhang X.¹, Feng Y.¹, Kuo SH.², Ondo W.G.³, Wu Y.¹ ¹Department of Neurology, Shanghai General Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China, ²Department of Neurology, College of Physicians and Surgeons, Columbia University, New York, United States, ³Department of Neurology, Methodist Hospital, Houston, United States
P 096	Investigation to expand application sites of rotigotine transdermal patch Kujirai H.¹, Aoyama N.¹, Abe K.¹, Takahashi M.¹, Inaba A.¹, Orimo S.¹¹Kanto Central Hospital, Neurology, Setagaya-ku, Japan
P 097	The polymorphism of SREBF1 Gene rs11868035 G/A is associated with susceptibility to Parkinson's disease in a Chinese population <u>Lou F.</u> ¹ , Li M. ² ¹ First Affiliated Hospital of China Medical University, Shenyang, China, ² The Fourth Affiliated Hospital of China Medical University, Shenyang, China
P 098	Quantitative keyboard measurement correlates with changes in subthalamic nucleus LFPs of Parkinson's disease patients treated with dopaminergic medication better than UPDRS subscores Ozturk M.¹, Abosch A.², Francis D.¹, Wu J.³, Jimenez-Shahed J.⁴, Ince N.F.¹ ¹University of Houston, Houston, United States, ²University of Colorado, Aurora, United States, ³Medtronic, Minneapolis, United States, ⁴Baylor College of Medicine, Houston, United States
P 100	Brain-derived neutrophic factor and lipid profile in Parkinson's disease Alomari M.¹, Khalil H.², Khabour O.³ ¹Jordan University of Science and Technology, Rehabilitation Sciences, Irbid, Jordan, ²Jordan University of Science and Technology, Rehabilitation Sciences, Irib, Jordan, ³Jordan University of Science and Technology, Medical Laboratory Science, Irbid, Jordan
P 101	Fatigue in Parkinson's disease: Correlates and its effects on ability of daily living <u>Chen YK.</u> ¹ , Xiao WM. ¹ , Liu YL. ¹ , Lu ZH. ² , Li W. ¹ , Fu XL. ¹ ¹ Dongguan People's Hospital, Dongguan, China, 2Guangdong Medical University, Dongguan, China
P 103	Thai bamboo dance: Improvements in gait, balance and foot clearance for Parkinson's disease Khongprasert S.¹, Wangyapongsataporn K.¹, Bhidayasiri R.² Chulalongkorn University, Faculty of Sports Science, Bangkok, Thailand, Chulalongkorn Center of Excellence for Parkinson's disease and Related Disorders, King Chulalongkorn Memorial Hospital, Thai Red Cross Society, Bangkok, Thailand
P 104	Effectiveness and safety of continuous infusion of levodopa-carbidopa intestinal therapy for patients with advanced Parkinson's disease: A single center experience <u>Vuletic V.</u> ¹ University Hospital Centre Rijeka, Medical Faculty Rijeka, Department of Neurology, Rijeka, Croatia
P 106	Russian validation study of the Berg balance scale Zimin A. ¹ , Yusupova D. ¹ Research Center of Neurology, Moscow, Russian Federation

P 107 Assessing Tele-Health Outcomes in Multiyear Extensions of Parkinson's Disease trials (AT-HOME PD): Design of a long-term observational study

Simuni T.¹, Schneider R.², Anthwal S.², Kayson E.², Omberg L.³, Tarolli C.G.², Bataille L.⁴, Macklin E.⁵, Dorsey E.R.², Mangravite L.³, Schwarzschild M.A.⁵

¹Northwestern University Feinberg School of Medicine, Neurology, Chicago, United States, ²University of Rochester, Rochester, United States, ³Sage Bionetworks, Seattle, United States, ⁴Michael J Fox Foundation, New York, United States, ⁵Massachusetts General Hospital, Boston, United States

P 108 Neuroprotective effect of Naringin loaded solid lipid nanoparticles via induction of GDNF in MPP+ induced Parkinson's disease in animal model

Rahman M.1,2, Kumar V.2

¹Shalom Institute of Health and Sciences, SHIATS, Pharmaceutical Sciences, Allahabad, India, ²Sam Higgin-bottom University of Agriculture, Technology & Sciences (SHUATS), Pharmaceutical Sciences, Allahabad, India

P 109 Decreased striatal dopamine and neuropsychiatric symptoms in patients with Parkinson's disease

Lim E.1, Oh Y.1, Kim J.1

¹Department of Neurology, College of Medicine, The Catholic University of Korea, Neurology, Seoul, Republic of South Korea

P 110 Patterns of movement disorders among HIV/AIDS patients: A cross sectional study Belay L.¹

¹Ethiopian Federal Police Commission Referral Hospital, Neurology, Addis Ababa, Ethiopia

P 111 Unraveling gut microbiota in Parkinson's disease and atypical parkinsonism

<u>Cereda E.</u>¹, Barichella M.², Cilia R.², Severgnini M.³, Cassani E.², Bolliri C.², Caronni S.², Ferri V.², Cancello R.⁴, Faierman S.², Pinelli G.^{2,5}, Ceccarini C.³, De Bellis G.³, Zecca L.³, Consolandi C.³, Pezzoli G.²

¹Fondazione IRCCS Policlinico San Matteo, Pavia, Italy, ²ASST G.Pini-CTO, ex ICP, Parkinson Institute, Milano, Italy, ³Institute of Biomedical Technologies, Italian National Research Council, Milano, Italy, ⁴Istituto Auxologico Italiano, IRCCS, San Michele Hospital, Experimental Research Laboratory on Obesity, Milano, Italy, ⁵Ospedale Classificato Moriggia Pelascini di Gravedona, Dipartimento Riabilitazione Malattia di Parkinson e Disturbi del Movimento, Gravedona, Italy

P 112 A phase 2A study of nilotinib in patients with advanced and early Parkinson's disease study design

Simuni T.¹, Fiske B.², Merchant K.³, Coffey C.S.⁴, Matthews H.⁵, Wyse R.K.⁵, Brundin P.⁶, Simon D.K.⁷, Schwarzschild M.⁸, Weiner D.⁹, Adams J.¹⁰, Venuto C.¹⁰, Trusso L.¹⁰, Baker L.¹⁰, Kostrzebski M.¹⁰, Ward T.¹, Rafaloff G.¹¹

¹Northwestern University Feinberg School of Medicine, Neurology, Chicago, United States, ²The Michael J Fox Foundation, New York, United States, ³TransThera Consulting Co., Portland, United States, ⁴University of Iowa, Iowa City, United States, ⁵The Cure Parkinson's Trust, London, United Kingdom, ⁶Van Andel Research Institute, Grand Rapids, United States, ⁷Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, United States, ⁸Massachusetts General Hospital, Charlestown, United States, ⁹Lumos Pharma Consultant, Austin, United States, ¹⁰University of Rochester, Rochester, United States, ¹¹Parkinson's Disease Patient Research Advocate, Marlboro, United States

P 113 The comparison of gut biogeography of the gut bacterial microbiota in Parkinson's disease

Hirayama M.¹, Ito M.², Minato T.¹, Maeda T.³, Ohno K.²

¹University Graduate School of Medicine, Department of Pathophysiological Laboratory Sciences, Nagoya, Japan, ²Nagoya University Graduate School of Medicine, Division of Neurogenetics, Center for Neurological Diseases and Cancer, Nagoya, Japan, ³School of Medicine, Iwate Medical University, Department of Internal Medicine, Morioka, Japan

P 114 Clinical correlation of serum insulin-like growth factor-1 levels in patients with Parkinson's disease and related disorders

<u>Suzuki K.¹</u>, Kadowaki T.¹, Fujita H.¹, Watanabe Y.¹, Matsubara T.¹, Suzuki S.¹, Ishii Y.¹, Okamura M.¹, Shiina T.¹, Sakuramoto H.¹, Hamaguchi M.¹, Matsubara M.¹, Hirata K.¹ ¹Dokkyo Medical University, Department of Neurology, Tochigi, Japan

P 115 Serum uric acid is associated with cognitive decline in de novo patients with Parkinson's disease

Baik J.S.¹, Ma H.I.², Han S.W.¹

¹Sanggye Paik Hospital / Inje University, Department of Neurology, Seoul, Republic of South Korea, ²Saced Heart Hospital / Hallym University, Department of Neurology, Anyang-si, Republic of South Korea

P 116 Home mobility system for monitoring patients with Parkinson's disease:
Validation with actigraphy

Shin C.1, Ahn T.-B.1

¹Kyung Hee University Hospital, Seoul, Korea, Republic of South Korea

P 118 Can coenzyme Q10 and creatine slow the progress of Parkinson's disease? Negida A.¹, Shalash A.²

¹School of Medicine, Zagazig University, Zagazig, Egypt, ²Ain Shams University, Parkinson's Disease and Movement Disorders Unit, Cairo, Egypt

P 119 Carrier mediated delivery system bearing dopamine for effective management of parkinsonism

Bhargava S.1, Bhargava V.2

¹Himalayan University, Kanpur, India, ²GTB Hospital, Kanpur, India

P 120 A phase 3 study of isradipine as a disease modifying agent in patients with early Parkinson's disease (STEADY-PD III): Baseline characteristics and study update Simuni T.¹, Holloway R.², Oakes D.³, Hodgeman K.³, Greco B.³, Henderson S.³, Biglan K.³, Lowell J.³, Tarolli C.³, Lungus C.⁴, Parkinson Study Group

¹Northwestern University Feinberg School of Medicine, Neurology, Chicago, United States, ²University of Rochester, Neurology, Rochester, United States, ³University of Rochester, Rochester, United States, ⁴National Institute of Neurological Disorders and Stroke, Bethesda, United States

P 121 Neuropsychiatric and behavior changes in Parkinson's disease patients with impulse control disorder after switching-off dopamine agonist by levodopa/carbidopa slow-release formulations

<u>Lee J.-Y.</u>¹, Cho J.², Jeon B.³, Koh S.-B.⁴, Yoon W.T.⁵, Kim J.W.⁶, REIN-PD investigators ³Seoul National University-SMG Boramae Medical Center, Neurology, Seoul, Republic of Korea, ²Samsung Medical Center, Sungkyunkwan University School of Medicine, Neurology, Seoul, Republic of Korea, ³Seoul National University College of Medicine, Neurology, Seoul, Republic of Korea, ⁴Korea University Guro Hospital, Seoul, Republic of Korea, ⁵KangBuk Samsung Hospital, Sungkyunkwan University College of Medicine, Neurology, Seoul, Republic of Korea, ⁶Dong-A University School of Medicine, Seoul, Republic of Korea

P 122 Microstructural changes in white and grey matter related to apathy, depression and anxiety in de novo Parkinson's disease patients

<u>Prange S.</u>¹, Metereau E.¹, Maillet A.¹, Lhommée E.², Klinger H.³, Pelissier P.², Ibarrola D.⁴, Heckemann R.A.⁵, Broussolle E.³, Castrioto A.², Tremblay L.¹, Sgambato V.¹, Krack P.⁶, Thobois S.³

¹CNRS, Institut des Sciences Cognitives, Physiopathology of basal ganglia, UMR 5229, Bron, France, ²Université de Grenoble, Grenoble Institut des Neurosciences, Grenoble, France, ³Hopital Neurologique Pierre Wertheimer, Centre expert Parkinson, Bron, France, ⁴CERMEP, Bron, France, ⁵University of Gothenburg, MedTech West, Sahlgrenska University Hospital, Gothenburg, Sweden, ⁶Hôpitaux Universitaires de Genève, Service de Neurologie, Genève, Switzerland

P 123	Gait patterns in Parkinson's disease with or without cognitive impairment <u>Kim S.</u> ¹ , Yang Y. ¹ , Ha S. ¹ , Han J.H. ¹ Veterans Health Service Medical Center, Seoul, Republic of Korea
P 124	Effect of striatal dopamine depletion on cognition in de novo Parkinson's disease Lee P.H. ¹ , Baik J.S. ² , Chung S.J. ¹ , Yoo H.S. ¹ , Oh J.S. ³ , Kim J.S. ³ , Sohn Y.H. ¹ 'Yonsei University College of Medicine, Neurology, Seoul, Republic of South Korea, ² Inje University College of Medicine, Neurology, Seoul, Republic of South Korea, ³ University of Ulsan College of Medicine, Nuclear Medicine, Seoul, Republic of South Korea
P 125	Socio-biological cues and saccade generation in Parkinson's disease <u>Kocoglu K.¹</u> , Colakoglu B.D.², Cakmur R.², Akdal G.², Hodgson T.³ ¹Dokuz Eylül University, Department of Neuroscience, Izmir, Turkey, ²Dokuz Eylül University, Department of Neurology, Izmir, Turkey, ³University of Lincoln, School of Psychology, Lincoln, United Kingdom
P 126	Waking-day patterns of motor complications in Parkinson's disease and the effect of ADS-5102 Patni R.¹, Pahwa R.², Tanner C.M.³, Johnson R.¹, Howard R.⁴, Hauser R.A.⁵ Adamas Pharmaceuticals, Inc., Emeryville, United States, University of Kansas Medical Center, Kansas Clty, United States, University California San Francisco and San Francisco Veterans Affairs Medical Center, San Francisco, United States, Veridical Solutions, Del Mar, United States, University of South Florida, Tampa, United States
P 128	Effective diagnostic and treatment methods in vascular parkinsonism and Parkinson's disease: Temporhythmal correction <u>Akramova D.</u> ¹ , Rakhimbaeva G. ¹ , Kuranbaeva S. ² ¹ Tashkent Medical Academy, Neurology, Tashkent, Uzbekistan, ² Tashkent Medical Academy, Tashkent, Uzbekistan
P 132	New clinical research: The role of OncoMarkers in Parkinson's disease and vascular parkinsonism <u>Akramova D.</u> Tashkent Medical Academy, Neurology, Tashkent, Uzbekistan
P 134	A randomized, double blind, placebo controlled, single ascending dose, safety and pharmacokinetic/pharmacodynamic study of INP103 in the presence of benserazide, to L-dopa responsive Parkinson's patients Shrewsbury S.¹, Lehn A.², Satterly K.³, Swardstrom M.¹, Hoekman J.³ Impel NeuroPharma, Clinical Development, Seattle, United States, Mater Hospital, Brisbane, Australia, Impel NeuroPharma, Life Sciences, Seattle, United States
P 135	Spectral fingerprints of impulse control disorders in Parkinson's disease Spay C. ¹ , Lio G. ² , Cilia R. ³ , Ballanger B. ¹ , Boulinguez P. ¹ Centre de Recherche en Neurosciences de Lyon, Bron, France, ² Institut des Sciences Cognitives Marc Jeannerod, Bron, France, ³ Parkinson Institute, ASST Gaetano-Pini-CTO, Milan, Italy
P 136	Treatment approaches to pain in Parkinson disease: A systematic review Sy M.A.C. ¹ , Rosales R. ¹ Department of Neurology & Psychiatry, Parkinson and Disorders of Movement Center, University of Santo Tomas Hospital, Manila, Philippines
P 137	REM sleep behavior disorder in parkinson disease: Association with blunted heart rate variability on standing Gil Y.E. ¹ , Yoon J.H. ¹

¹Ajou University Hospital, Department of Neurology, Suwon, Republic of Korea

P 138 Efficacy of incobotulinumtoxinA in patients with sialorrhoea, as assessed using the modified Radboud Oral Motor Inventory for Parkinson's disease (mROMP)

<u>Jost W.H.</u>¹, Friedman A.², Michel O.³, Oehlwein C.⁴, Slawek J.^{5,6}, Bogucki A.⁷, Ochudlo S.⁸, Banach M.⁹, Pagan F.¹⁰, Flatau-Baqué B.¹¹, Csikós J.¹¹, Blitzer A.^{12,13,14}

¹Parkinson-Klinik Ortenau, Wolfach, Germany, ²Medical University of Warsaw, Warsaw, Poland, ³Vrije Universiteit Brussel, Brussels, Belgium, ⁴Neurological Outpatient Clinic for Parkinson Disease and Deep Brain Stimulation, Gera, Germany, ⁵Medical University of Gdansk, Gdansk, Poland, ⁶St Adalbert Hospital, Gdansk, Poland, ⁷Medical University of Łódź, Łódź, Poland, ⁸Medical University of Silesia, Katowice, Poland, ⁹Jagiellonian University, Krakow, Poland, ¹⁰Georgetown University, Washington, United States, ¹¹Merz Pharmaceuticals GmbH, Frankfurt am Main, Germany, ¹²Columbia University College of Physicians and Surgeons, New York, United States, ¹³Icahn School of Medicine at Mt. Sinai, New York, United States, ¹⁴NY Center for Voice and Swallowing Disorders, New York, United States

P 139 Impact of injection guidance techniques on the efficacy and safety of incobotulinumtoxinA for sialorrhoea

<u>Michel O.</u>¹, Jost W.H.², Friedman A.³, Oehlwein C.⁴, Slawek J.^{5,6}, Bogucki A.⁷, Ochudlo S.⁸, Banach M.⁹, Pagan F.¹⁰, Flatau-Baqué B.¹¹, Csikós J.¹¹, Blitzer A.^{12,13,14}

¹Vrije Universiteit Brussel, Brussels, Belgium, ²Parkinson-Klinik Ortenau, Wolfach, Germany, ³Medical University of Warsaw, Warsaw, Poland, ⁴Neurological Outpatient Clinic for Parkinson Disease and Deep Brain Stimulation, Gera, Germany, ⁵Medical University of Gdansk, Gdansk, Poland, ⁶St Adalbert Hospital, Gdansk, Poland, ⁷Medical University of Lódź, Łódź, Poland, ⁸Medical University of Silesia, Katowice, Poland, ⁹Jagiellonian University, Krakow, Poland, ¹⁰Georgetown University, Washington D.C., United States, ¹¹Merz Pharmaceuticals GmbH, Frankfurt am Main, Germany, ¹²Columbia University College of Physicians and Surgeons, New York, United States, ¹³Icahn School of Medicine at Mt. Sinai, New York, United States, ¹⁴NY Center for Voice and Swallowing Disorders, New York, United States

P 140 Efficacy of sublingual apomorphine film (APL-130277) for the treatment of OFF episodes in patients with Parkinson's disease: Results from the phase 3 double-blind, placebo-controlled trial

<u>Factor S.</u>¹, Isaacson S.², Sciarappa K.³, Bhargava P.⁴, Vakili G.³, Blum D.³, Olanow C.W.⁵, Navia B.⁶

¹Emory University, Atlanta, United States, ²PDMDC of Boca Raton, Boca Raton, United States, ³Sunovion Pharmaceuticals Inc., Marlborough, United States, ⁴Sunovion Pharmaceuticals Inc., Malborough, United States, ⁵Mount Sinai School of Medicine, New York, United States, ⁶Sunovion Pharmaceuticals, Clinical Research, Marlborough, United States

P 141 Opicapone as adjunctive therapy to levodopa in patients with Parkinson's disease and motor fluctuations: Global impressions of change compared to placebo and entacapone

Ferreira J.¹, Lees A.², <u>Siegert S.</u>³, Board T.³, Santos A.⁴, Pinto R.⁴, Lopes N.⁴, Nunes T.⁴, Rocha J.-F.⁴, Soares-da-Silva P.^{4,5}

¹Hospital de Santa Maria, Lisbon, Portugal, ²University College London, London, United Kingdom, ³Neurocrine Biosciences, Inc., San Diego, United States, ⁴BIAL-Portela & Ca SA, Sao Mamede do Coronado, Portugal, ⁵University Porto, Porto, Portugal

Topic: Other Parkinsonian Disorders

P 142 When PSP and CBD overlap: A case report

Niţu E.-B.¹, Mitrea D.-A.¹

¹Neuroaxis-Neurology Clinic, Neurology, Bucharest, Romania

P 144 Effects of green tea extract on Parkinsonism and related disorders; neuroleptic anxiety syndrome, growth & pain

Malik T.1, Haleem D.J.2,3

¹National University of Health Sciences, Basic Sciences, Physiology, Lombard, United States, ²The University of Karachi, Neurochemistry & Biochemical Neuropharmacology Research Laboratory, Department of Biochemistry, Karachi, Pakistan, ³Panjwani Center of Molecular Medicine, ICCBS, Karachi, Pakistan

P 145 Features of the course of Parkinson's disease in congenital anomalies of cerebral vessels

Norboboev A.1

¹Tashkent Medical Academy, Neurology, Tashkent, Uzbekistan

P 147 Pharmacologic approaches in dementia with Lewy bodies: Lessons learned from a case series

Amodeo K.1, Hegeman Richard I.1

¹University of Rochester, Neurology, Rochester, United States

P 148 Levosulpride induced persistent movement disorders: Case series

Mehta S.1, Lal V.1

¹PGIMER, Neurology, Chandigarh, India

P 149 Single photon emission computer tomography in the differentiation of progressive supranuclear palsy, corticobasal syndrome and multiple system atrophy

Alster P.1, Koziorowski D.1, Królicki L.2, Friedman A.1

¹Medical University of Warsaw, Neurology, Warsaw, Poland, ²Medical University of Warsaw, Nuclear Medicine, Warsaw, Poland

P 150 Movement disorders in bilateral striatopallidodentate calcinosis (Fahr's syndrome): An analysis of 9 patients

Burzhunova M.¹, Garabova N.¹, Goytemirova P.¹

RUDN University, Moscow, Russian Federation

P 153 Memory enhancing effect of combined alcoholic extract of cedrus ceodara loud and Vitex Nirgundi in scopolamine-induced cognitive impairment in mice <u>Jain S.</u>⁷, Jain A.², Bhargav S.³

¹Bhagyoday Tirth Pharmacy College, Pharmacy, Sagar, India, ²Bhagyoday Tirth Pharmacy College, Sagar, India, ³United Institute of Pharmacy, Pharmacy, Allahabad, India

P 154 Characterization of constipation in multiple system atrophy using Rome III diagnostic criteria

Mishima T.¹, Fujioka S.¹, Inoue K.¹, Fukae J.¹, Tsuboi Y.¹
¹Fukuoka University, Neurology, Fukuoka, Japan

P 156 Risk of Parkinson disease associated with prokinetics from Korean National Health Insurance service claims data

Ma H.-I.¹, Jang S.-M.², Baik J.S.³, Kang J.H.⁴, Kim Y.J.¹

¹Hallym University College of Medicine, Neurology, Anyang, Republic of Korea, ²Gachon University, Pharmacy, Incheon, Republic of Korea, ³Sanggye Baik Hospital Inje University, Neurology, Seoul, Republic of Korea, ⁴Jeju National University College of Medicine, Neurology, Jeju, Republic of Korea

P 157 Levodopa-induced dyskinesias impact patient's quality of life in Parkinson's disease in Singapore

Lim E.C.¹, Nadkarni N.V.², Lye W.K.², Prakash K.M.^{1,3}, Tan E.K.^{1,3}

¹National Neuroscience Institute, Neurology, Singapore, Singapore, ²DUKE-NUS Graduate Medical School, Centre of Quantitative Medicine, Singapore, Singapore, ³Singapore General Hospital, Department of Neurology, Singapore, Singapore

Topic: Behavior and Cognition

P 159 Relationship of performance in judgment tasks with executive function tasks and theory of mind in patients with Alzheimer's disease and subjects with mild cognitive impairment Basante Avendaño R.A.¹, Sosa Ortiz A.L.², Acosta Castillo I.² ¹National Institute of Neurology and Neurosurgery, Psychiatry, Mexico, Mexico, ²National Institute of Neurology and Neurosurgery, Cognitive Aging and Dementias, Mexico, Mexico P 161 Neuroprotective role of 17β estradiol against amyloid beta neurotoxicity in synaptosomes of aging female rats Kumar P.1, Baguer N.1 ¹Jawaharlal Nehru University, School of Life Sciences, New Delhi, India P 162 Principles of non-pharmacological therapy in patients with Parkinson's diseases Maxamatjanova N.^{1,2} ¹Tashkent Medical Academy, Tashkent, Uzbekistan, ²Tashkent Medical Academy, Neurological Diseases, Tashkent, Uzbekistan P 164 Identifying the association of depression and distress in Pakistani patients diagnosed with parkinsonism syndrome Fatima A.1. Zaidi S.S.A.2 ¹Sir Ganga Ram Hospital, Lahore, Pakistan, ²Wecare Medical Centre, Lahore, Pakistan P 165 Features of cognitive functions in parkinsonism Tolibov D.1. Rakhimbaeva G.1 ¹Tashkent Medical Academy, Tashkent, Uzbekistan P 166 The views of adults with Huntington's disease on assisted dying in Uzbekistan: A qualitative exploration Yunusov F.1, Rakhimbaeva G.1 ¹Tashkent Medical Academy, Tashkent, Uzbekistan P 167 Cognitive dysfunction in multiple system atrophy-C Han J.H.1, Yang Y.S.1 ¹Veterans Health Service Medical Center, Department of Neurology, Seoul, Republic of South Korea P 170 Assessment of cognitive disorders in Parkinson's disease (PD) Tolibov D.1, Rakhimbaeva G.1 ¹Tashkent Medical Academy, Tashkent, Uzbekistan P 171 New assessments of cognitive disorders in patients with parkinsonism in Uzbekistan

¹Tashkent Medical Academy, Department of Neurology, Tashkent, Uzbekistan

Umarov A.1, Rakhimbaeva G.1, Rakhimova S.1

Topic: Dystonia / Tremors

P 172 Bilateral pallidotomy in patients with generalized dystonia in Uzbekistan

Nosirjonov M.1

¹Tashkent Medical Academy, Tashkent, Uzbekistan

P 173 Sensorimotor plasticity in writer's cramp parallels clinical improvement after botulinum toxin injections

Fournier M.^{1,2,3}, De Oliveira Godeiro Junior C.⁴, Harquel S.⁵, Raffin E.⁶, David O.², Moro E.^{2,7,8}
¹CHU Grenoble Alpes, La Tronche, France, ²Grenoble Institute of Neurosciences, Grenoble, France, ³Université
Grenoble Alpes, BSHM, Saint Martin d'Hères, France, ⁴Universidade Federal do Rio Grande do Norte, Departamento
de Medicina Integrada, Natal, Brazil, ⁵LPNC - CNRS UMR 5105 | IRMaGe - CNRS UMS 3552, Université Grenoble
Alpes, BSHM, Grenoble, France, ⁶Campus Biotech - UPHUMMEL, Rm H4-03 194.084, Brain Mind Institute, SV, Ecole
Polytechnique Fédérale de Lausanne (EPFL), Genève, Switzerland, ⁷CHU Grenoble Alpes, Movement Disorders Unit,
Division of Neurology, CHU of Grenoble, Grenoble, France, ⁸Université Grenoble Alpes, Grenoble, France

P 175 Ultrasound echogenicity of the nuclei raphe as marker of depressive disorders

in the cervical dystonia

<u>Krzak-Kubica A.</u>¹, Ochudło S.¹, Gawryluk J.¹, Pawlicki K.², Rudzińska-Bar M.¹

¹Medical University of Silesia, Department of Neurology, Katowice, Poland, ²Medical University of Silesia, Department of Biophysics, Katowice, Poland

P 176 Orthostatic tremor complicated by spinal cord schwannoma

Kim H.S.¹

¹Bundang CHA Medical Center/ CHA University, Neurology, Bundang-gu, Republic of Korea

Topic: Chorea, Athetosis and Ballism

P 179 Case report: Chorea gravidarum persisting after delivery

Frei K.1, Kamen C.1

¹Loma Linda University, Loma Linda, United States

P 181 Neuroprotective role of cinnamaldehyde against 3-nitropropionic acid-induced

oxidative stress in a rat model of Huntington's disease

Kumar A.1, Farhat B.1

¹Jamia Millia Islamia (A central University), Department of Biosciences, New Delhi, India

P 182 Psychosocial impact of African families structure among patients with

Huntington's disease

Bocoum A.¹, Cissé L.¹, Coulibaly T.¹, Ouloguem M.², Diallo S.H.³, Maiga B.B.¹, Coulibaly T.¹, Dembélé K.¹, Coulibaly S.P.⁴, Taméga A.¹, Yalcouyé A.¹, Diarra S.¹, Fischbeck K.⁵, Diop S.⁶, Maiga Y.³, Guinto C.O.¹, Landouré G.¹,⁵

¹Teaching Hospital of Point G, Neurology, Bamako, Mali, ²Teaching Hospital of Kati, Internal Medecine, Bamako, Mali, ³Teaching Hospital of Gabriel Touré, Neurology, Bamako, Mali, ⁴Teaching Hospital of Point G, Psychiatry, Bamako, Mali, ⁵Neurogenetics Branch, NINDS, NIH, Bethesda, United States, ⁶U.S.T.T-B, FMOS, DER Public Heath, Bamako, Mali

Topic: Ataxias, Tics, and/or Myoclonus

P 183 Taking a step back to reframe the approach – an interesting case of tardive

tourettism

Kurz T.1, Seigler D.2, Char L.3

¹University of California Riverside, Psychiatry, March Air Reserve Base, United States, ²University of California Riverside, Psychiatry, Riverside, United States, ³California Baptist University, Riverside, United States

P 184 Incidence of oculopalatal myoclonus in post-stroke patients

Tadjenov M.1

¹Tashkent Medical Academy, Neurology, Tashkent, Uzbekistan

P 186 Clinical manifestations of SYNE1 mutation related cerebellar ataxia from Korea

Kim J.S.¹, Kim M.¹, Cho J.¹, Moon Y.²

¹Samsung Medical Center, Sungkyunkwan University School of Medicine, Neurology, Seoul, Republic of Korea,

²Konkuk University Medical Center, Seoul, Republic of Korea

P 187 The prevalence of restless legs syndrome in Edirne and its districts

concomitant comorbid conditions and secondary complications

Güler S.^{1,2}, Caylan A.^{1,2}, Turan N.³

¹Trakya University Faculty of Medicine, Department of Neurology, Edirne, Turkey, ²Trakya University Faculty of Medicine, Department of Family Medicine, Edirne, Turkey, ³Trakya University Faculty of Medicine, Department of Biostatistics, Edirne, Turkey

P 188 A case of propriospinal myoclonus: Secondary form or a sleep disorder?

Baker N.1, Frei K.1

¹Loma Linda University, Neurology, Loma Linda, United States

P 189 Effects of different training programs on postural control and beta event-related

desynchronization in individuals with Parkinson's disease: A pilot study

Cheng F.-Y.1, Wang R.-Y.2, Yang Y.-R.2, Wu Y.-R.3, Cheng S.-J.4

¹Mackay Medical College, Institute of Long-term care, New Taipei City, Taiwan, ²National Yang-Ming University, Department of Physical Therapy and Assistive Technology, Taipei, Taiwan, ³Chang Gung Memorial Hospital, Department of Neurology, Linkou, Taiwan, ⁴Mackay Memorial Hospital, Department of Neurology, Taipei, Taiwan

P 190 Delayed onset progressive spastic cerebellar ataxia and cerebellar atrophy as a

delayed complication of heat stroke

Desai D.1, Desai S.2

¹Pramukhswami Medical College, Medicine, Anand, India, ²Pramukhswami Medical College and Shree Krishna Hospital, Neurology, Anand, India

Topic: Gait and Other Movement Disorders

P 192 Influence of the level of cognitive impairment on gait parameters in older adults and diagnosed with Parkinson's disease

Mollinedo Cardalda I.¹, Pérez R.², Souto T.³, Spuch C.⁴, Cancela J.M.¹

¹University of Vigo, Research group HealthyFit, Institute of Health Research Galicia Sur (IISGS), Hospital University Complex of Pontevedra (CHOP), SERGAS, Vilagarcía de Arousa, Spain, ²University of Vigo, Research group HealthyFit, Institute of Health Research Galicia Sur (IISGS), Hospital University Complex of Pontevedra (CHOP), SERGAS, Pontevedra, Spain, ³University of Vigo, Asociación Provincial de Parkinson, Pontevedra, Spain, ⁴Institute of Health Research Galicia Sur (IISGS), Hospital University Complex of Pontevedra (CHOP), SERGAS. Pontevedra. Spain

P 193 The prevalence of essential tremor in Edirne and its districts concomitant comorbid conditions

Güler S.1, Caylan A.2, Turan N.3

¹Trakya University Faculty of Medicine, Department of Neurology, Edirne, Turkey, ²Trakya University Faculty of Medicine, Department of Family Medicine, Edirne, Turkey, ³Trakya University Faculty of Medicine, Department of Biostatistics, Edirne, Turkey

P 197 A male patient showing abnormal gait, dysarthria and psychotic symptoms followed by genetic diagnosis

Choi E.J.¹, Lee D.G.², Kim J.O.¹, Kim D.H.¹, Sohn S.Y.¹, Jang S.H.¹, Kim J.G.¹, Lee S.J.¹, Yoon S.J.¹

¹Eulji University, Department of Neurology, Daejeon, Republic of Korea, ²University of Waterloo, Department of Biomedical Sciences, Waterloo, Canada

P 199 Approaching health care shaped by Generational Expectations (The AGE Study): Generational perspective related to time

<u>Lin J.</u>¹, Hengartner D.¹, Rasameesoraj T.¹, Hogue O.¹, Li Y.¹, Wenzel O.¹, Laplante E.¹, Liang J.¹, Fernandez H.¹, Yu X.X.¹

¹Cleveland Clinic, Movement Disorders, Cleveland, United States

P 200 A study of correlation between screening tools for cognitive decline and gait status using three-dimensional gait analysis

Kim H.-T.1

¹Hanyang University, College of Medicine, Seoul, Republic of Korea

P 201 A validity study of wearable accelerometer for estimating gait in Parkinson's disease

Ahn J.-Y.1

¹Seoul Medical Center, Seoul, Republic of Korea

P 205 Approaching health care shaped by Generational Expectations (The AGE Study): A perspective on technology and research

<u>Rasameesoraj T.</u>¹, Hengartner D.¹, Lin J.¹, Hogue O.¹, Li Y.¹, Wenzel O.¹, Laplante E.¹, Liang J.¹, Fernandez H.¹, Yu X.X.¹

¹Cleveland Clinic, Movement Disorders, Cleveland, United States

P 206 Global improvement and patient satisfaction: Results from a long-term, open-label, rollover study of valbenazine in tardive dyskinesia

Lindenmayer J.-P.¹, Verghese C.², Marder S.³, Burke J.⁴, Jimenez R.⁴, Farahmand K.⁴, Siegert S.⁴

¹New York University School of Medicine, New York, United States, ²Keystone Clinical Studies, LLC, Norristown, United States, ³University of California Los Angeles, David Geffen School of Medicine, Los Angeles, United States, ⁴Neurocrine Biosciences, Inc., San Diego, United States

P 207 Efficacy of opicapone in Parkinson's disease patients with motor fluctuations: Results from the BIPARK I study

Ferreira J.¹, Lees A.², Siegert S.³, <u>Board T.</u>³, Santos A.⁴, Pinto R.⁴, Lopes N.⁴, Nunes T.⁴, Rocha J.-F.⁴, Soares-da-Silva P.^{4,5}

¹Hospital de Santa Maria, Lisbon, Portugal, ²University College London, London, United Kingdom, ³Neurocrine Biosciences, Inc., San Diego, United States, ⁴BIAL-Portela & Ca SA, Sao Mamede do Coronado, Portugal, ⁵University Porto, Porto, Portugal

P 208 Switch of double-blind opicapone, entacapone, or placebo to open-label opicapone: Efficacy results of the 1-year extension of study BIPARK I

Ferreira J.¹, Lees A.², Tolosa E.³, Poewe W.⁴, Banach M.⁵, Siegert S.⁶, <u>Board T.</u>⁶, Santos A.⁷, Lopes N.⁷, Rocha J.-F.⁷, Soares-da-Silva P.⁷,

¹Hospital de Santa Maria, Lisbon, Portugal, ²University College London, London, United Kingdom, ³Parkinson Disease Research IDIBAPS, Barcelona, Spain, ⁴Innsbruck Medical University, Innsbruck, Austria, ⁵Jagiellonian University, Cracow, Poland, ⁶Neurocrine Biosciences, Inc., San Diego, United States, ⁷BIAL-Portela & Ca SA, Sao Mamede do Coronado, Portugal, ⁸University Porto, Porto, Portugal

Topic: Late Breaking Abstracts

P 209 Screening of SCN11A in patients with essential tremor

Chan Hui Shan C.¹

¹National Neuroscience Institute, Singapore General Hospital Pte Ltd, Singapore, Singapore

P 210 Generation of isogenic human G2019S Parkinson's model

Dongrui M.1, Jinyan Z.1, Yi Z.2, King T.E.1,3,4

¹Academia, Singapore, Singapore, ²Singapore General Hospital, Dept. of Clinical Research, Singapore, Singapore, ³National Neuroscience Institute of Singapore, Neurology, Singapore, Singapore, ⁴Duke NUS Graduate Medical School, Singapore

P 211 Is there any difference between essential and dystonic head tremor?

Hollý P.1, Ulmanová O.1, Rusz J.1,2, Krupička R.3, Duspivová T.3, Růžička E.1

¹Charles University First Faculty of Medicine and General University Hospital, Dept. of Neurology and Center of Clinical Neuroscience, Prague, Czech Republic, ²Czech Technical University, Faculty of Electrical Engineering, Dept. of Circuit Theory, Prague, Czech Republic, ³Czech Technical University, Faculty of Biomedical Engineering, Dept. of Biomedical Informatics, Kladno, Czech Republic

P 212 LRP10 subcellular localization in human iPS-derived dopaminergic neurons: Implications for LRP10 dysfunction in synucleinopathies

<u>Grochowska M.M.</u>¹, Masius R.¹, Ghazvini M.², Quadri M.L.¹, Mandemakers W.¹, Bonifati V.¹
¹Erasmus Medical Center, Department of Clinical Genetics, Rotterdam, Netherlands, ²iPS Core Facility,
Erasmus Medical Center, Department of Developmental Biology, Rotterdam, Netherlands

P 213 PTRHD1 loss-of-function mutation in an African family with parkinsonism and intellectual disability

<u>Kuipers D.</u>¹, Carr J.², Bardien S.³, Thomas P.², Sebate B.³, Breedveld G.J.¹, van Minkelen R.¹, Brouwer R.W.W.⁴, van Ijcken W.F.J.⁴, van Slegtenhorst M.A.¹, Bonifati V.¹, Quadri M.¹ Erasmus MC, Department of Clinical Genetics, Rotterdam, Netherlands, ²Stellenbosch University, Faculty of Medicine and Health Sciences, Division of Neurology, Cape Town, South Africa, ³Stellenbosch University, Faculty of Medicine and Health Sciences, Division of Molecular Biology and Human Genetics, Cape Town, South Africa, ⁴Erasmus MC, Center for Biomics, Rotterdam, Netherlands





INFORMATION FOR ABSTRACT AUTHORS

The poster and oral poster exhibition of the XXIII World Congress on Parkinson's Disease and Related Disorders is located in the Forum Hall 3 close to the industry exhibition. Posters will be sorted by topics and numbers. The poster exhibition is open to all participants according to the opening times of the industry exhibition.

The poster size is 120cm high and 90cm wide, DIN A0 (portrait format).

Set-up times for posters / oral posters

Sunday, 19 August 2018 10:00 - 15:00

Dismantling

Tuesday, 21 August 2018 17:00 – 18:00

Posters that have not been removed within the indicated time schedule will be removed and disposed.

Oral Poster Presentation

Please note that the time allocated for your presentation is a short 4-minute oral presentation followed by 2 minutes Q&A. Given that there are additional abstracts presenting in the same session, we urge you not to exceed the time limit in order to give the other speakers time for their talks.

The Oral Poster Presentation will take place as a poster walk chaired by renowned specialists. Interested delegates can meet the authors during the time of the Oral Poster Presentation. The presentation will be directly at your poster.

Meet the poster authors during the lunch break at their posters:

Even poster numbers: Monday, August 20, 2018 from 12:15 – 13:15 **Uneven poster numbers:** Tuesday, August 21, 2018 from 12:15 – 13:15

INFORMATION FOR SPEAKERS / SPEAKERS CENTRE

Speakers Centre

The speakers centre is located on 2nd floor / Salon Lumière. Speakers are asked to hand in their CD ROM or USB stick, containing the PowerPoint Format 97-2007, 2010 or 2013 in ppt or pptx format, or AdobeAcrobat Reader (pdf) to guarantee slides will open successfully on an on-site PC. Prepare your presentation in 16:9 format (screens are in 16:9 format).

Speakers are asked to contact the speaker's centre preferably one day before their presentation, or, at the latest, 90 minutes prior to the presentation.

Several PC work stations are provided in the speaker's centre where speakers can also work on their charts. Technical staff will be glad to assist.

The presentation will be transferred to the central congress server and will be available afterwards on a special congress notebook in the hall of presentation. Use of own technical equipment (laptop, MAC) is not allowed.

Opening Hours of the Speakers Centre

Sunday, 19 August 2018	11:30 - 17:30
Monday, 20 August 2018	07:00 - 18:00
Tuesday, 21 August 2018	07:00 - 18:00
Wednesday, 22 August 2018	07:30 - 11:00

The Speakers Centre and technical requirements of the congress are gratefully supported by



INDEX OF AUTHORS AND SPEAKERS

A
Acharya Kumar Mrinal, Kolkata, India
В
Baumann Christian, Zurich, Switzerland.16Bellot Emmanuelle, Grenoble, France.24Berg Daniela, Tübingen, Germany.13Bergman Hagai, Jerusalem, Israel.11Bhatia Kailash, London, United Kingdom.13, 21, 26Bhidayasiri Roongroj, Bangkok, Thailand.13, 14Bocoum Abdoulaye, Bamako, Mali.17Bonifati Vincenzo, Rotterdam, The Netherlands.17, 21, 29Borgohain Rupam, Hyderabad, India.18, 24Brabenec Lubos, Brno, Czech Republic.19Broussolle Emmanuel, Lyon, France.21Bruecke Thomas, Vienna, Austria.11Buechele Fabian, Zurich, Switzerland.25
C
Callizot Noëlle, Gardanne, France25Calzetti Stefano, Parma, Italy.23Cavallieri Francesco, Modena, Italy.19Caviness John, Phoenix, United States24Cenci M. Angela, Lund, Sweden.11, 14Cereda Emanuele, Pavia, Italy16, 19Chabardes Stephan, Grenoble, France77Charvin Delphine, Plan-les-Ouates, Switzerland26Chung Sun Ju, Seoul, Republic of Korea19Coelho Miguel, Lisbon, Portugal16
D
Dayal Vish, London, United Kingdom77Debu Bettina, Grenoble, France16Derkinderen Pascal, Nantes, France13Desai Soaham, Anand, India26Dham Bhavpreet, Rochester, United States14Dickson Dennis, Jacksonville, United States29Di Rocco Alessandro, New York, United States29Dressler Dirk, Hannover, Germany17, 21
Durif Franck, Clermont Ferrand, France

E	
Espay Alberto, Cincinnati, United States	77
F	
Fernandez Hubert, Cleveland, United States	26 77 23
G	
Gamaleya Anna, Moscow, Russian Federation Gao Chao, Shanghai, China Giannini Giulia, Bologna, Italy Goldman Jennifer, Chicago, United States	. 15 . 22 . 15 . 18
Н	
He Lu, Shanghai, China	.24 .17 .18 .14
I	
lakovleva Olga, Moscow, Russian Federation Ibrahim Wael, Cairo, Egypt Isaacson Stuart, Boca Raton, United States Isaias Ioannis, Wuerzburg, Germany	26 77
J	
Jimenez-Shahed Joohi, Houston, United States	
K	
Kalia Lorraine, Toronto, Canada	

INDEX OF AUTHORS AND SPEAKERS

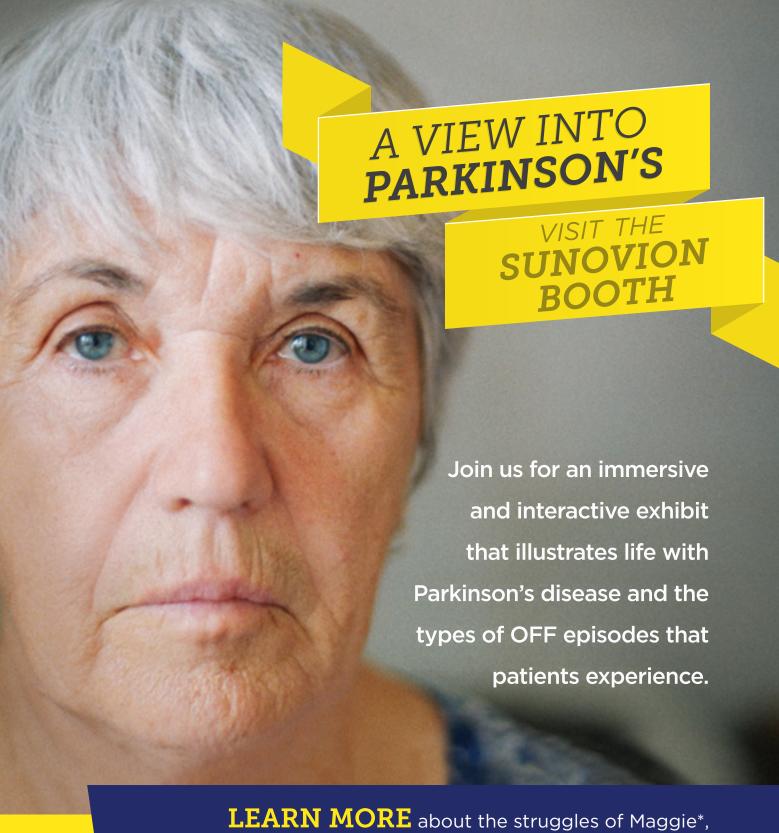
Karl Jessica, Chicago, United States	15
Khatri Dharmendra, Mumbai, India	
Kholmuratova Bakhtigul, Tashkent, Uzbekistan	
Kim Mi Sun, Seoul, Republic of Korea	
Kim Minkyeong, Seoul, Republic of Korea	17
Kim Yun Joong, Anyang, Republic of Korea	22
Klobusiakova Patricia, Brno, Czech Republic	22
Krauss Joachim, Hannover, Germany	28
Kulisevsky Jaime, Barcelona, Spain	13
Kumar Hrishikesh, West Bengal, India	16
L	
Lal Vivek, Chandigarh, India	22
Laurencin Chloé, Lyon, France	
Lee Chong Sik, Seoul, Republic of Korea	
Lehericy Stephane, Paris, France	
Lew Mark, Los Angeles, United States	
Liang Yanran, Guangzhou, China	
Lim Ee Chien, Singapore, Singapore	
Lim Thien T., George Town, Malaysia	
Lin Danyu, Guangzhou, China	•
Litvan Irene, San Diego, United States	
Liu Hsin-Hsuan, Taipei, Taiwan	
Lia Holli Hodall, Talpel, Talwall	
M	
Maeda Tetsuya, Morioka, Japan	
Mandal Moulika, Mumbai, India	
Mari Zoltan, Cleveland, United States	
Martino Davide, Calgary, Canada	
Mehanna Raja, Houston, United States	
Merello Marcelo, Buenos Aires, Argentina	
Mestre Tiago, Ottawa, Canada	
Millot Mathilde, Lyon, France	
Moro Elena, Grenoble, France	
Mueller Thomas, Berlin, Germany	18, 77
KI.	
N	
Naz Falaq, Aligarh, India	19
Nazmuddin Muhammad, Groningen, The Netherlands	
0	
Obese Vida, Kumasi, Ghana	10
Okun Michael, Gainesville, United States	
Ondo William, Houston, United States	
Ou Ruwei, Chengdu, China	
Vu Huwel, Ohelluuu, Olliila	

P Pfeiffer Ronald, Portland, United States......11, 16 R Riederer Peter, Wuerzburg, Germany11, 13, 29 S Shang Hui-Fang, Chengdu, China11, 24 Т

Tan Eng-King, Singapore, Singapore22, 24, 29Tan Shi-Ni, Singapore, Singapore17Tanner Caroline, San Francisco, United States13, 16Teng Chen Celeste Yan, Singapore, Singapore23

INDEX OF AUTHORS AND SPEAKERS

Thobois Stephane, Lyon, France	7
Torres-Russotto Diego, Omaha, United States	}
Truong Daniel, Fountain Valley, United States	
U	
Uc Ergun, Iowa City, United States11	
V	
Verhagen Leonard, Chicago, United States	2
Vidailhet Marie, Paris, France	
Volkmann Jens, Wuerzburg, Germany	
Vuletic Vladimira, Rijeka, Croatia	
W	
Walsh Ryan, Phoenix, United States)
Weintraub Daniel, Philadelphia, United States	
Welter Marie Laure, Paris, France	
Willemijn van Beek Judith Jantine, Lucerne, Switzerland)
Wolters Erik Ch., Amsterdam, The Netherlands)
Wu Yih-Ru, Taoyuan, Taiwan	
Wu Yuncheng, Shanghai, China	j
Υ	
Yang YoungSoon, Seoul, Republic of Korea)
Yoon Won Tae, Seoul, Republic of Korea	
Yunusov Farkhod, Tashkent, Uzbekistan	}
Z	
Zesiewicz Theresa, Tampa, United States	3
, , ,	



LEARN MORE about the struggles of Maggie*, a patient with moderate-to-advanced Parkinson's disease, and the Little Big Things™ that may improve her daily life.

*Fictional patient for illustration only.



GENERAL CONGRESS INFORMATION

Congress Registration Counter

All congress materials and documentations will be available at the congress registration counter located at Foyer Lumière at the Centre de Congès de Lyon.

Opening hours

Sunday, 19 August 2018	10:00 - 19:00
Monday, 20 August 2018	07:00 - 19:00
Tuesday, 21 August 2018	07:00 - 20:00
Wednesday, 22 August 2018	07:30 - 13:00

During these opening hours the congress registration counter can be reached at: +33 472-822 600

Registration Fees

Registration Types	On-site Price
Regular Congress Ticket*	€ 750,00
Reduced Fee**	€ 450,00
Student Ticket***	€ 350,00

^{*}Special conditions for Travel Grant applicants according to website.

The registration fee for delegates includes:

- · Access to the Scientific Sessions
- · Access to the Exhibition
- Free copy of the education book Parkinson Disease and Other Movement Disorders (subject to availability)
- · Certificate of Attendance
- · Welcome Reception on Sunday, 19 August 2018

On-site Registration

On-site registration will be processed on a first come, first served basis. Priority will be given to pre-registered delegates.

Selfprint

Please use the barcode, which should be sent to you via e-mail, to print out your name badge at the provided printing stations.

^{**} Participants from lower & lower middle income countries: List according to WHO criteria on website.

^{***} Students: Copy of student ID required | Residents/Fellows/ Trainees: Born after 1 January 1987 and/or still in training. Copy of official document indicating age or a letter stating training status by employer required.

Name Badge

All participants are requested to wear their name badges at all times during the congress.

Executive Board = Purple Exhibitor = Green Delegate = White

Faculty = Blue Staff = Red

Certification

The European Accreditation Committee in CNS (EACIC) has granted 24.5 CME credits to this event. To obtain your CME credits, please fill in the online event evaluation form at www.eacic.eu.

Deadline: 22 October 2018

Please follow the below steps to receive your CME credits:

· Go to the EACIC website www.eacic.eu

- Click on the CME logo (in the blue bar on the right hand side of the webpage)
- · Choose the option "I am already registered" or "I am not registered"
- · Log on or register
- Choose point 1 or 2
- · Choose the event for which you would like to receive credits
- Complete the evaluation form
- · Press "save"

Your CME certificate will be automatically emailed to the address provided



Certificate of Attendance

Please contact the registration counter to obtain a certificate of attendance.

TRAVEL GRANTS

This years's Congress Travel Awards are gratefully supported by the International Association of Parkinsonism and Related Disorders, the Parkinson's and Movement Disorder Foundation and individual supporters.

The awards are aimed at promoting participation in the Congress by young reserachers world wide. Applicants must to be under the age of 35 at the opening date of the Congress, 19 August 2018. The deadline for Travel Grant applications was 23 April 2018.

Further information is available on the Congress website.

Lyon Convention Centre 50, quai Charles de Gaulle 69463 Lyon, France

How to get there:

The Convention Centre is within walking distance to major hotels, 10 minutes to the Lyon Part Dieu high-speed train station and 30 minutes from the Lyon Saint-Exupéry International Airport.

Arriving by plane: Lyon Saint Exupéry airport is one of the biggest airports in France and is located 30 minutes away from the city center. All major airlines serve Lyon from more than 100 destinations and hubs worldwide. The Rhône express tram runs up to every 15 minutes between airport and city center, travel duration 30 minutes.

Arriving by Train: Lyon is part of the French TGV high-speed network. Long distance trains arrive at Lyon Part Dieu station.

Arriving by car: The Lyon Convention Centre is situated close to the Lyon Périphérique Nord (Northern Ring Road). Parking space is available next to the Convention Centre. Parking fees are not included in the registration fee.

Public Transportation: The Lyon Convention Centre is connected by 3 bus and trolley lines to the Lyon Public transportation system.



Abstract E-Book

The abstract book contains all accepted abstracts that have been submitted by authors from around the globe on topics related to Parkinson disease and other movement disorders. All abstracts have been reviewed by a panel of reviewers and the book is now provided as a download.



Charging station mobile devices

You are welcome to recharge your mobile devices at the Suniovion Pharmaceuticals, Inc. charging lounge in the exhibition area.

Climate

Expect a moderate climate in August with sunny days and temperature up to 28°C.

Cloakroom

A cloakroom is available next to the registration counter. You can also store your luggage there.

Coffee breaks

Coffee and tea are provided during the breaks in the exhibition area and are gratefully supported by Sunovion Pharmaceuticals, Inc.

Currency

The official French currency is the Euro. Exchange of foreign currency is available at the airport, train station, at most hotels, banks and exchange offices.

Disclaimer

The Organizers cannot accept liability for injuries or losses of whatever nature incurred by participants, nor for loss of or damage to their luggage and/or personal belongings.

Language

The official language of the International Association Parkinsonism and Related Disorders is English. However, all participants are encouraged to join discussions regardless of their fluency in English, as the exchange of ideas and critical evaluation of presentation is the main purpose of the entire Congress.

Mobile phones

Participants are kindly requested to keep their mobile phones turned off while attending the scientific sessions.

Personal Insurance

We recommend that all participants take out personal travel and health insurance for their trip.

Press

Journalists should bring their press ID and register at the congress registration counter.

Program Changes

The Organizers cannot assume liability for any changes in the program due to external unforeseen circumstances.

Recording

Cameras, video cameras or audio recording devices are not permitted in the session rooms. Any recording/documentation of sessions is strictly forbidden.

Safety

As in all major cities and congress venues, people should take care of their personal belongings. It is not advised to wear your congress badge outside the XXIII IAPRD Congress activities.

Please have your handbag, bag, backpack etc. ready for inspection by security officers while entering the congress venue.

Smoking Policy

Smoking is not allowed at the venue; the meeting is a non-smoking event.

Visa

France is part of the European Schengen area. The entry formalities for France vary accordingly to the country of origin. A letter of invitation can be issued by the congress and registration office.

WI AN/Wi-Fi

Complimentary Wi-Fi access is available in the Lyon Convention Centre and is gratefully supported by Sunovion Pharmaceuticals, Inc.



IAPRD

About the International Association of Parkinsonism and Related Disorders

More than fifty years ago, the International Association of Parkinsonism and Related Disorders was established by the World Federation of Neurology to promote and monitor research developments, as well as to foster communication among neuroscientists in the field. Today, IAPRD is an international, professional association of clinicians, scientists and other healthcare professionals who are interested in neurodegenerative disorders like Parkinson's disease, secondary parkinsonisms, hyperkinetic and hypokinetic movement disorders, and more generally any disorder affecting muscle tone and motor control. The most common clinical disorders and/or symptoms of interest to us are:

- · Genetic and idiopathic Parkinson's disease and other parkinsonism
- · Genetic and idiopathic disorders with dystonia
- · Huntington's disease and other disorders with chorea
- · Cerebellar disorders
- · Tremor, myoclonus, tics, ballism
- Huntington's diesease, chorea and Gilles de la Tourette's syndrome
- Psychogenic and psychiatric movement disorders
- Movement disorders-related non-motor disorders, such as disorders of the autonomic nervous system, mood disorders, sleep disorders (including: excess daytime sleepiness, REM sleep behaviour disorders, restless legs syndrome, and periodic limb movements), and psychiatric disorders (including: impulse control disorders, executive dysfunction, dementia, delusions and hallucinations)

The IAPRD has associate members, full members, and honorary members. Reasons to become a member:

- Free subscription to our journal
- · Access to hot scientific items
- Discounts to our publications

Further information is available at www.iaprd.org





VERCISE™ Deep Brain Stimulation Systems

Simply Advanced

STIMVIEW™ Technology makes directional programming intuitive and simple.*



*One click buttons make directional programming intuitive and simple

Product available in the European Economic Area (EEA) only. Please check availability with your local sales representative or customer service

Boston Scientific is a Global Company. Vercise Gevia is not currently licensed in accordance with Canadian Law

LITCA 350 0217



Vercise DBS Lead-only system (before Stimulator is implanted) is MR conditional. An MRI examination can be conducted safely when all instructions in the supplemental manual ImageReady* MRI Guidelines for Boston Scientific DBS Systems are followed.

The Vercise* PC Deep Brain Stimulation (DBS) System is indicated for use in unilateral or bilateral stimulation of the subthalamic nucleus (STN) or internal globus pallidus (GPi) for treatment of levodopa-responsive Parkinson's disease which is not adequately controlled with medication and also for treatment of intractable primary and secondary dystonia, for persons 7 years of age and older.

Thalamic stimulation using the Boston Scientific Vergise" PC DBS System is indicated for the suppression of tremor not adequately controlled by medications in patients diagnosed with Essential Tremor or Parkinson's disease

All cited trademarks are the property of their respective owners. CAUTION: The law restricts these devices to sale by or on the order of a physician. Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device. Information for the use only in countries with applicable health authority product registrations.

Not for distribution in France

NM-393421-AB _JUN2017 © 2017 Boston Scientific Corporation or its affiliates. All rights reserved

IAPRD COMMITTEES

Scientific Program Executive Committee

Hubert Fernandez, Chair (USA)

Alberto Albanese (Italy)

Roongroj Bhidayasiri (Thailand)

Mark Lew (USA) Elena Moro (France)

Andreas Puschmann (Sweden)

Peter Riederer (Germany)

Tanya Simuni (USA)

Stephane Thobois (France)

Daniel Truong (USA) Marie Vidailhet (France)

Erik Ch. Wolters (The Netherlands)

Zbigniew Wszolek (USA)

Scientific Program Committee

Tanya Simuni, Chair (USA)

Christian Baumann (Switzerland)

Mohit Bhatt (India)

Emanuele Cereda (Italy) Shengdi Chen (China)

Bettina Debu (France)

Alessandro Di Rocco (USA)

Karen Frei (USA)

Shinsuke Fujioka (Japan)

Etienne Hirsch (France) Jahirul Hoque (Bangladesh)

Ioannis Isaias (Germany)

Saltanat Kamenova (Kazakhstan)

Joachim Krauss (Germany)

Hrishikesh Kumar (India)

Thomas Müller (Germany)

Fernando Pagan (USA)

Rajesh Pahwa (USA)

Pramod Pal (India)

Gulnora Rakhimbaeva (Ukraine)

Paola Sandroni (USA)

Joohi Jimenez-Shahed (USA)

Hui-Fang Shang (China)

Fabrizio Stocchi (Italy)

Jon Stoessl (Canada)

Michele Tagliati (USA)

Marie Laure Welter (France)

Yun-Cheng Wu (China)

Dirk Dressler (Germany)

David Grabli (France)

Abstract Review Committee

Christian Baumann, Chair (Switzerland)

Yih-ru Wu, Co-Chair (Taiwan)

Joohi Jimenez-Shahed (USA)

Eng-King Tan (Singapore) Petr Kanovsky (Czech Republic) Irena Rektorova (Czech Republic)

Award Committee

Peter Riederer, Chair (Germany)

Peter Hedera (USA) Elena Moro (France)

Pramod Pal (India)

Nicolas Phielipp (USA) Paola Sandroni (USA)

Daniel Truong (USA)

Video Review Committee

Marie Vidailhet, Chair (France) Alberto Albanese, Co-Host (Italy) Kailash Bhatia, Co-Host (United Kingdom) Roongroj Bhidayasiri (Thailand)

Emanuel Flamand-Roze (France) Thien Thien Lim (Malaysia) Rukmini Mridula Kandadai (India) Maria Stamelou (Greece)

Local Organizing Committee

Stephane Thobois, Chair (France) Marie Vidailhet, Co-Chair (France) Jean-Philippe Azulay (France) Philippe Damier (France)

Franck Durif (France)
Jean-Luc Houeto (France)
Wassilios Meissner (France)
Christine Tranchant (France)

Industry Liaison Committee

Mark F. Lew, Chair (USA) Alberto Albanese (Italy) Stuart Isaacson (USA) Joachim Krauss (Germany) Rajesh Pahwa (USA) Michele Tagliati (USA) Diego Torres Russotto (USA)

World Congress Ambassador Committee

Zizyo Ak (Uzbekistan)
Jasem Al-Hashel (Kuwait)
Alberto Albanese (Italy)
Oscar Bernal (Colombia)
Tauhidul Islam Chowdhury (Bangladesh)
Roland Dominic G. Jamora (Philippines)
Beom Jeon (Republic of Korea)
Jahirul Hoque (Bangladesh)

Harsha Gunasekara (Sri Lanka) Hrishikesh Kumar (India) Thien Thien Lim (Malaysia) Vladimir Miletić (Croatia) Thomas Müller (Germany) Eng-King Tan (Singapore) Tai Tran (Vietnam) Vladimira Vuletić (Croatia)

INDUSTRY

This event is supported, in part, by funding from industry. All support is managed in strict accordance with CME/CPD accreditation criteria and standards for commercial support.

This section contains information that is promotional in nature, distinct from the scientific/educational elements of the main CME/CPD event.

EXHIBITION FLOOR PLAN

Code of Transparency

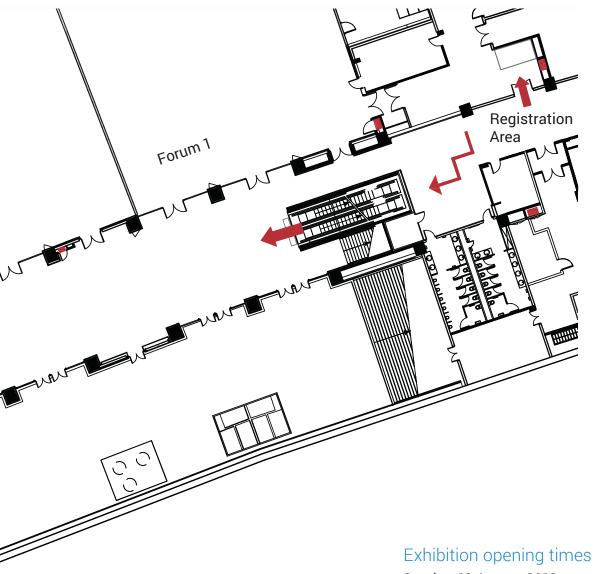
Interplan publishes the conditions and the scope of the support provided by EFPIA member companies to the IAPRD Congress on a voluntary basis. The publication will be carried out before and during the execution of the Congress.

For the industry partners mentioned, we are herewith providing information about their overall support within the framework of the IAPRD Congress 2018.



EXHIBITORS

Company	Booth No.
ABBOTT	C 02
AbbVie, Inc.	C 04
BOSTON SCIENTIFIC	C 05
CNS – CAMPUS NEUROLÓGICO	D 01
EVER Pharma France SAS	C 03
Sunovion Pharmaceuticals	B 01



Sunday, 19 August 2018 14:00 - 20:30 Monday, 20 August 2018 09:00 - 18:00 Tuesday, 21 August 2018 09:00 - 17:30

SPONSORS / SUPPORTERS

We kindly thank all our sponsors for their support! Sponsor names are in alphabetical order.



























We are pleased to inform you that the IAPRD Congress 2018 is COMPLIANT in accordance with the principles and standards set out in the MedTech Europe Code of Ethical Business Practice.

This decision is posted on www.ethicalmedtech.eu

This event is supported, in part, by funding from industry. All support will be managed in strict accordance with CME/CPD accreditation criteria and standards for commercial support.

Monday, 20 August 2018

	Corporate Session	Forum 1
12:15 - 13:45	Debating OFF Phenomenon in Parkinson Disease: Lessons Learned after Chair: Hubert Fernandez, Cleveland, United States	r 40 Years
12:15 - 12:35	Why debating OFF phenomenon remains relevant today as it was 40 ye Speaker: <i>Hubert Fernandez, Cleveland, United States</i>	ars ago
12:35 - 12:55	Position 1: We have made great strides in addressing OFF phenomenor it is time to move on Speaker: <i>Tanya Simuni, Chicago, United States</i>	n in PD;
12:55 - 13:15	Position 2: We have a long way to go in understanding and treating OFF phenomenon in PD Speaker: Alberto Espay, Cincinnati, United States	=
13:15 - 13:45	Panel Discussion Supported by an unrestricted grant from Sunovion Pharmaceuticals	
	Corporate Session	Forum 2
12:15 - 13:15	New Trends and Horizons in Deep Brain Stimulation (DBS) Chair: Elena Moro, Grenoble, France Chair: Stephane Thobois, Lyon, France	
12:15 - 12:35	Is there potential to expand the capabilities of DBS with directionality? Surgical perspective Speaker: Stephan Chabardes, Grenoble, France	
12:35 – 12:55	Short pulse width: Pathway selectivity and therapeutic window outcom Speaker: Vish Dayal, London, United Kingdom	ies
12:55 - 13:15	Directionality – Programming guidelines & workflow perspective: Role of visualization Speaker: Jens Volkmann, Wuerzburg, Germany Supported by an unrestricted grant from Boston Scientific	
	Tuesday, 21 August 2018	
	Corporate Session	Forum 1
12:15 - 13:45	Answering the Most Relevant Questions on Motor Fluctuations in Parkinson	ns Disease
12:15 - 12:35	Why do we keep developing drugs for motor fluctuations in Parkinsons Speaker: <i>Karen Frei, Loma Linda, USA</i>	disease?
12:35 – 12:55	Are the newest treatment options available for motor fluctuations worth their hype? Speaker: Thomas Mueller, Berlin, Germany	
12:55 – 13:15	Are the next generations of drugs under development for motor fluctual more promising than our current armamentarium? Speaker: Stuart Isaacson, Boca Raton, United States	tions
13:15 - 13:45	Panel Discussion Supported by an unrestricted grant from Neurocrine Biosciences and B	sial 77

IMPRINT

Organizer of the scientific conference

IAPRD

The International Association of Parkinsonism and Related Disorders Van Eeghenstraat 83, 1071 EX Amsterdam, The Netherlands

E-Mail: info@iaprd.org Website: www.iaprd.org



Congress and Exhibition Office

INTERPLAN

Congress, Meeting & Event Management AG Office Hamburg Kaiser-Wilhelm-Strasse 93, 20355 Hamburg, Germany

Phone: +49 40 325092-37 / Fax: +49 40 325092-44

E-mail: IAPRD@interplan.de Website: www.interplan.de



DATA PROTECTION

INTERPLAN AG handles all personal data according to the laws of § 4 under the Federal Data Protection Act. For your registration to a congress organized by Interplan, the collecting, saving and processing of your personal data is imperative. This is done solely as a means of the organization and completion of the event. The collected data will only be passed onto third parties that are directly involved with the running of the congress and when the organizational procedure makes this necessary (operator, hotel, visa, social program etc.).

For further information regarding the Data Protection see our website www.iarpd-world-congress.com.

If you do not want to receive information on future congresses related to the subject of this event: Declaration of consent can be retracted at any time by sending a message to Interplan AG, Landsberger Strasse 155, 80687 München, iaprd@interplan.de



WORLD CONGRESS ON PARKINSON'S DISEASE AND RELATED DISORDERS

MONTREAL / CANADA



www.iaprd-world-congress.com

Photo credit: Sebastien Lemyre

2019
16 – 19 June





Debating OFF Phenomenon in Parkinson's Disease: Lessons Learned after 40 Years

Monday, 20 August 2018 12:15 – 13:45 Lunch to be provided - optional

Lyon Convention Centre Forum 1

Program:

- Why debating OFF phenomenon remains relevant today as it was 40 years ago. (Hubert Fernandez, MD)
- Position 1: We have made great strides in addressing OFF phenomenon in PD; it is time to move on. (Tatyana Simuni, MD)
- Position 2: We have a long way to go in understanding and treating OFF phenomenon in PD. (Alberto Espay, MD)
- Panel Discussion

This is a non-CME program sponsored by Sunovion Pharmaceuticals Inc. and the speakers are consultants of Sunovion.



SUNOVION and 🏠 are registered trademarks of Sumitomo Dainippon Pharma Co., Ltd. Sunovion Pharmaceuticals Inc. is a U.S. subsidiary of Sumitomo Dainippon Pharma Co., Ltd. Sunovion Pharmaceuticals Inc., 84 Waterford Drive, Marlborough, MA 01752