

PROGRAMME BOOK

**World Society for Stereotactic
and Functional Neurosurgery**
BERLIN . GERMANY



WSSFN

26-29 JUNE 2017

INTERCONTINENTAL BERLIN

17th Quadrennial Meeting
EMERGING TECHNIQUES AND INDICATIONS

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**World Society for Stereotactic
and Functional Neurosurgery**
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WSSFN

On behalf of the entire Scientific Committee, it is our pleasure to welcome you to the XVII Quadrennial Meeting of the World Society of Stereotactic and Functional Neurosurgery in Berlin. We have crafted an outstanding program that showcases excellent science, technological advances and workshops focusing on education and training. The first day of the conference features a series of ten workshops. For the subsequent three days, the focus will be on emerging techniques and indications, with the main keynote talks highlighting the historical context and important developments in this field. Our outstanding keynote talks will move along hand in hand with outstanding oral presentation sessions which take place in the morning and as parallel sessions in the afternoon. We will continue the format of Flash oral presentation sessions, in a forum where excellent research meets conciseness of presentation. Wrap up sessions in the afternoon will encourage discussion of science and controversies of the day.

This year's meeting will have several additional components that will highlight our activities. An exhibit featuring the history of stereotactic and functional neurosurgery will be showcased for the first time. We encourage all of you to visit it, and as you do so, consider how much our field has developed in a very short time.

We trust that the attendees will enjoy the social events of the Congress. The gala dinner will take place at the Kosmos venue in the former East Berlin. This historical evening is not to be missed, as we travel back in history, evaluate the changing forces of a nation and in turn focus on the forces that move our own field forward.

As it is customary, a number of awards will be presented at the Quadrennial meeting. Our honored Spiegel & Wycis and Tasker awardees will be celebrated on Tuesday June 27. The closing session of the conference will also include the award ceremony for the Riechert and Mundinger awards as well as the best science presented at the meeting.

It has been a true pleasure for us to work with the Scientific Committee. The wisdom, experience and vision of this group are unparalleled. We are truly indebted to the sense of collegiality and collaboration and thank each one of them: Joachim Krauss, our Society President, Michael Schulder, Konstantin Slavin, Jin Woo Chang, Marwan Hariz, Sameer Sheth, Joseph Neimat, Paresh Doshi, Takaomi Taira, as well as Andres Lozano, Osvaldo Vilela Filho and Jürgen Voges.

We look forward to meeting each and every one of you in Berlin!



Mojgan HODAIE, Chair

Scientific Committee, WSSFN XVII Quadrennial Meeting, Berlin



Jean REGIS, Co-Chair

Scientific Committee, WSSFN XVII Quadrennial Meeting, Berlin



WSSFN

Welcome Message from the WSSFN President

Dear colleagues, dear guests and friends of WSSFN,

Welcome to the **17th Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery** in June 2017 in Berlin! The motto of the meeting this time is Emerging Techniques and Indications. This is the opportunity to learn about the most exciting new developments in functional and stereotactic neurosurgery, to see cutting edge technology, to update your knowledge and to meet peers from all around the world.

WSSFN has been growing at an unprecedented pace within the past few years reflecting both multitude and diversity. WSSFN now is a true and vibrant world society operating all over the globe! After the mutual benefit had been launched, negotiations were started with several continental and regional societies for stereotactic and functional neurosurgery. Now the seeds have become trees. In addition to the American (ASSFN) and the European (ESSFN) societies, five other societies have become affiliated with WSSFN – the societies from India (ISSFN), from Japan (JSSFN), from Korea (KSSFN), from the Middle East (MSSFN), and from Latin America (SLANFE). What was a club of friends a couple of decades ago has become a world wide net for scientific exchange, innovation, mutual support and education.

Stereotactic and functional neurosurgery has become one of the most important areas of added competence within neurosurgery. It is the field with the biggest progress being made and it has a larger impact than ever before. Actually, the concepts of our superspecialty have penetrated the whole field of neurosurgery changing its core forever.

WSSFN has become a very busy society. In addition to the big quadrennial meetings we have organized Interim meetings concentrating more on education, and we sponsor more focused conferences by the label "Under the auspices of WSSFN". We have established several committees concerned with special topics such as Psychiatric Surgery, Education, Scientific Research and Industrial Relations. We stay connected with our membership via our website and regular newsletters. And our journal Stereotactic and Functional Neurosurgery has become an attractive medium to publish your research.

WSSFN welcomes you in Berlin with a most attractive program. The Scientific Program Committee has been working hard to prepare a program that we are sure will be of great interest and stimulate discussion. There will be workshops, breakfast seminars, plenary and parallel sessions, award ceremonies, debates, sponsored lunch symposia, oral and poster presentations of the newest research, a history exhibition, and an Intensive Course for Industry professionals. And last not least, this is the time to meet old friends and to make new friends in a most pleasant atmosphere.

Have a good time and enjoy the conference,

Joachim K. KRAUSS, Hannover, Germany
President WSSFN





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World Society for Stereotactic and Functional Neurosurgery



SUBJECT: EACCME accreditation granted EACCME-15672-G

We are pleased to inform you that your application for European accreditation for:

17th Quadrennial Meeting World Society for Stereotactic and Functional Neurosurgery

Venue: Berlin, Germany

Event code: 74

was granted **24** European CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME).

European Accreditation

European Accreditation is granted by the EACCME in order to allow participants who attend the above-mentioned activity to validate their credits in their own country.

Accreditation Statement

Accreditation by the EACCME confers the right to place the following statement in all communication materials including the registration website, the event programme and the certificate of attendance. The following statements must be used without revision:

»The 'World Society for Stereotactic and Functional Neurosurgery' (or) '17th Quadrennial Meeting World Society for Stereotactic and Functional Neurosurgery' is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.«

»The '17th Quadrennial Meeting World Society for Stereotactic and Functional Neurosurgery Congress' is designated for a maximum of (or 'for up to') 24 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.«

»Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.«

»Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.«

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Logo

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Feedback report

The EACCME requires you to provide a feedback report of the event within four weeks of its completion together with a copy of the list of participants and the results of the individual feedback assessments by participants.

Brussels, 18. 5. 2017 The UEMS – EACCME Secretariat

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WSSFN
 Main Topics

Movement Disorders

Parkinson's disease
 Tremor
 Dystonia
 Tourette

Psychiatric Disorders

Depression
 OCD
 Schizophrenia
 Addiction

Epilepsy

Deep brain stimulation
 Vagal nerve stimulation
 Neuropace
 LITT

New Indications for DBS

Alzheimers dementia
 Obesity

Pain

Trigeminal neuralgia
 Spinal cord stimulation
 Peripheral field stimulation
 Intrathecal drug administration
 DBS/MCS

Spasticity

Baclofen
 Selective dorsal rhizotomy, neurotomy
 Botox

Restorative Neurosurgery

Gene therapy
 Stem cell therapy
 Spinal cord regeneration

Radiosurgery

Functional radiosurgery
 Progress in stereotactic radiosurgery

Novel Technologies

Advanced imaging modalities
 Robotic neurosurgery
 Focused ultrasound

Neuro-ethics

Treatment of psychiatric disorders
 Expanding indications for DBS

Neuroimaging for Functional Neurosurgery

Intraoperative MRI and CT
 Advanced MRI modalities
 Diffusion tensor imaging

Debate Sessions

Microelectrode recordings
 Psychosurgery

Other Topics

Risk and complication avoidance in DBS surgery
 Functional neurosurgery in developing countries
 Microsurgical techniques in functional neurosurgery



WSSFN About

STEREOTACTIC AND FUNCTIONAL NEUROSURGERY A Contemporary Definition by Members of the WSSFN and ESSFN

Stereotactic surgery dates back to 1908, one century ago, when Sir Victor Horsley and Robert Clarke introduced their new apparatus to insert a probe or needle under accurate control into subcortical structures in an experimental animal model.

The definition of Stereotactic and Functional Neurosurgery was debated formally for the first time, in 1973 during the first meeting of the World Society for Stereotactic and Functional Neurosurgery (Philip L. Gildenberg). Since this period, general neurosurgery has made great progress influenced by new technical developments (minimally-invasive surgery, image-guided surgery, neuronavigation, radiosurgery, frameless brain biopsy, etc).

On the other hand, many particular topics remained within the frame of the special field of stereotactic and functional neurosurgery (for example movement disorders surgery, pain surgery, CNS drug-infusion, cell therapy, etc). Within this context an appropriate contemporary definition of Stereotactic and Functional Neurosurgery is sought. The following definition is a synthesis and a consensus after discussion among a group of experts.

Synthesis of propositions from A. Lozano, M. Hariz, P. L. Gildenberg, J. K. Krauss, S. Blond, G. Broggi, and Y. Lazorthes concluded that Stereotactic and Functional Neurosurgery is a branch of neurosurgery that utilizes dedicated structural and functional neuroimaging to identify and target discrete areas of the brain and to perform specific interventions (for example ablation, neurostimulation, neuromodulation, neurotransplantation, and others) using dedicated instruments and machinery in order to relieve a variety of symptoms of neurological and other disorders and to improve function of both the structurally normal and abnormal nervous system.

Interested in becoming a member?

Visit the WSSFN web site for further information and get the detailed process to apply for membership.

www.wssfn.org/members

Note that WSSFN members include, individual WSSFN, ASSFN, ESSFN, JSSFN Board members, SLANFE, ISSFN, MSSFN and KSSFN.

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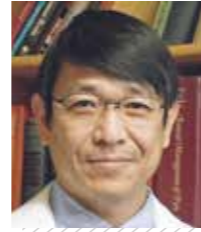
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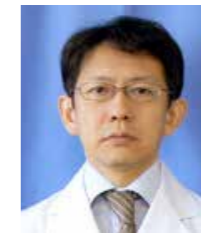
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WSSFN Biosketches of Plenary Keynote Lecturers

KL1 - KL12



Joachim K. KRAUSS
(GERMANY)

Professor Joachim K. Krauss is Director and Chairman of the Department of Neurosurgery at Medical School Hannover, Germany. He received his MD degree at the Medical Faculty of the University of Freiburg, Germany, for his experimental work in neuropharmacology of the basal ganglia. He trained in neurology, and later in stereotactic and functional neurosurgery, and general neurosurgery with Professors Mundinger and Seeger in Freiburg. Thereafter, he moved to Houston, Texas, to collaborate with Drs Grossman and Jankovic. He went back to Europe to establish functional neurosurgery in Berne, Switzerland, and in Mannheim, Germany. He became Associate Professor at the University of Heidelberg, Germany, and served as Adjunct Associate Professor at Baylor College of Medicine, Houston, Texas.

Dr. Krauss is President of the World Society for Stereotactic and Functional Neurosurgery since 2013, and Honorary and Past President of the European Society for Stereotactic and Functional Neurosurgery. He is an active member of several international societies, committees and advisory boards. One of his missions is to bridge the gap between Neurosurgery and Neurology why he is also active in the Movement Disorders Society where he served as Chair of the Task Force Neurosurgery and as Co-Chair of the Task Force Deep Brain Stimulation for Dystonia, and where he continues his activities in several task forces and working groups.

He has published more than 400 scientific manuscripts and book chapters, and he has edited four books in the field of functional neurosurgery. He introduced pallidal deep brain stimulation for cervical dystonia in 1997, and spinal cord stimulation for orthostatic tremor in 2002. He received several awards including the Oppenheim prize for his work in dystonia. He runs an active laboratory together with Professor Schwabe dedicated to the study of animal models of movement disorders and behaviour. His current research interests include experimental and clinical studies on the treatment of movement disorders, with a special focus on dystonia, but also psychiatric disorders and other applications of deep brain stimulation. In the past few years he put a particular focus on education and training.

KL2



Marwan HARIZ
(UK)

Marwan Hariz received the baccalauréat in Beirut, Lebanon at the Lycée franco-Libanais, then studied medicine in Reims, France and in Umeå, Sweden. He trained in Neurosurgery in Umeå, with Lauri Laitinen as main mentor. He received a PhD in 1990 in stereotactic neurosurgery. In 2002, he was recruited as professor to the United Kingdom's first chair of functional Neurosurgery at the National Hospital for Neurology and Neurosurgery, and Institute of Neurology, Queen Square, London, where he contributed to establish a multidisciplinary clinical-academic unit of functional Neurosurgery, and introduced the concept of MRI-guided and MRI-verified functional stereotactic neurosurgery, without the use of micro-electrode recording. His main interests are in surgery for movement disorders and psychiatric illness, in the history of this field, in ethics of functional neurosurgery, and in critical appraisal of published literature in these areas. He has published over 290 scientific papers and book chapters. He holds an adjunct professorship at university of Umeå, Sweden.

He has published over 290 scientific papers and book chapters. He holds an adjunct professorship at university of Umeå, Sweden.

KL6



Andres LOZANO
(CANADA)

Neurosurgeon, Krembil Neuroscience Centre, University Health Network Professor and Chairman of Neurosurgery, University of Toronto Dr. Lozano received his MD degree at the University of Ottawa and his neurosurgical training and PhD degree in Neurobiology at McGill. He received post-doctoral training in movement disorders at Queens Square, London, UK and in cell and molecular biology in Toronto. He is the Professor and Chairman of Neurosurgery at the University of Toronto and holds both the RR Tasker Chair in Functional Neurosurgery at the University of Toronto and the Toronto Western Hospital and a Tier 1 Canada Research Chair in Neuroscience. He has an active laboratory dedicated to the study of neuronal degeneration and regeneration and Functional Neurosurgery.

Dr. Lozano has over 500 publications, serves on the board of several international organizations and is a founding member of the scientific advisory board of the Michael J. Fox Foundation. He is the most cited neurosurgeon in the world according to Thompson Reuters. He has received a number of awards including the Olivecrona Medal and the Pioneer in Medicine award, has been elected a Fellow of the Royal Society of Canada and the Canadian Academy of Health Sciences, has received the Order of Spain, has been recognized as an Officer of the Order of Canada. He is best known for his work in Deep Brain Stimulation (DBS). He has been involved in training over one hundred physicians from throughout the world, with the hope that this will mean better access for patients to neurosurgical treatments to alleviate some of the debilitating effects of Neurological and Psychiatric disorders.

KL7



Bart NUTTIN
(BELGIUM)

Bart Nuttin, born August 9, 1959, is married to Claire Borghgraef and has 4 children, Laura, Bram, Matthias and Dries. He is chief of clinic at the University Hospitals Leuven and is specialized in functional and stereotactic neurosurgery. He is Coordinator of Research of the Group of Biomedical Sciences, KU Leuven. He is professor and teaches courses in neuroscience in the faculties of Medicine and FaBeR. He heads the lab of Experimental Functional Neurosurgery, located within the Research Group of Neurosurgery and Neuroanatomy. His main research is on electrical brain stimulation for psychiatric disorders and of lesion cavity wall. He is and has been leading a series of master degree theses and PhD theses. He was coordinator of the Erasmus Mundus project EMMAPA. He was Ombudsman for PhD students in the Group of Biomedical Sciences KU Leuven. He is or has been treasurer of the ESSFN, chairman of the Committee of Neurosurgery for Psychiatric Disorders of the World Society for Stereotactic and Functional Neurosurgery (WSSFN), president of the Belgian Society for Stereotactic and Functional Neurosurgery, president of the Benelux Neuromodulation Society and member of the Council of the «Europ.ische Akademie zur Erforschung von Folgen wissenschaftlich-technischer Entwicklungen Bad Neuenahr-Ahrweiler GmbH». He holds a chair 'Stereotactic Neurosurgery for Psychiatric Disorders', supported by Medtronic Inc. He has / had several research contracts with Medtronic, 3WIN, the European Commission, the Research Council of the University, the Flemish Government (SBO) and the "Fonds voor Wetenschappelijk Onderzoek Vlaanderen (FWO)".

He is or has been treasurer of the ESSFN, chairman of the Committee of Neurosurgery for Psychiatric Disorders of the World Society for Stereotactic and Functional Neurosurgery (WSSFN), president of the Belgian Society for Stereotactic and Functional Neurosurgery, president of the Benelux Neuromodulation Society and member of the Council of the «Europ.ische Akademie zur Erforschung von Folgen wissenschaftlich-technischer Entwicklungen Bad Neuenahr-Ahrweiler GmbH». He holds a chair 'Stereotactic Neurosurgery for Psychiatric Disorders', supported by Medtronic Inc. He has / had several research contracts with Medtronic, 3WIN, the European Commission, the Research Council of the University, the Flemish Government (SBO) and the "Fonds voor Wetenschappelijk Onderzoek Vlaanderen (FWO)".

KL11



Alim BENABID
(FRANCE)

Professor Benabid obtained his medical degree in 1970 and his Ph.D. in Physics in 1978. and had a sabbatical fellowship in the laboratory of Preclinical Neuropharmacology of Floyd Bloom, at the Salk Institute La Jolla California from 1979 to 1980. Alim Louis Benabid was appointed Professor at Grenoble University, (Neurosurgery and Experimental Medicine 1978-1983, Neurosurgery and Biophysics 1984-2007).

From 1988 to 2007, he was the Director of the research laboratory INSERM unit 318, (Preclinical Neurosciences), and from 1989 to 2007, Head of the Neurosurgery Department (University Hospital of Grenoble, Professor of Biophysics at Grenoble University), Coordinator of the Claudio Munari Center (Surgery of Epilepsy and Movement Disorders, Hospital Ni Guardia in Milan, Italy 1998-2002), Staff consultant (Cleveland Clinic Foundation, Ohio 2000-2002).

Professor Benabid has centered his scientific activity on the approach of neurosurgical pathologies (brain tumors and movement disorders, namely Parkinson's disease). He developed robotic stereotactic surgery which (biopsies and therapeutics acts in functional targets).

Activities of Alim Louis Benabid can be described under three themes: Neurosurgical robotics and brain imaging. Experimental therapeutics in neuro-oncology (surgical methods, particularly stereotactic, application of robotics to functionally eloquent zones, implantation of radioactive isotopes, stereotactic biopsies of brain tumors for diagnostic and research purposes. A brain tumor tissue bank has been elaborated, on which molecular biology is being conducted). Experimental therapeutics in Functional Neurosurgery (High frequency stereotactic inhibition of surgical targets. Its remarkable efficacy and very low morbidity, allowed its application to other targets, as well as to other indications, notably mental disorders). Currently his activity is oriented toward the understanding of mechanisms of action of deep brain stimulation at high frequency, the development of innovative methods in diagnosis and treatment, particularly neuroprotective, to alter the evolution of neurodegenerative disorders, such as Parkinson's disease. Since 2007, he has joined the French Commission of Atomic Energy as a Scientific Adviser and is Chairman of the Board of the new Clinatex Institute which he initiated and which is devoted to the application of nanotechnologies to Neurosciences. Two flagship programs are currently developed: Brain Computer Interfaces for Tetraplegic patients, and Deep Brain Irradiation by Near Infrared Photons, to induce Neuroprotection in Parkinson's Disease. Alim Louis Benabid is a member of the Institut Universitaire de France, of the French Academy of Sciences, of the French Academy of Medicine and of the Royal Academy of Medicine of Belgium, and he received several Doctorate Honoris Causa degrees (University of Galway, Ireland, University of London, Ontario, Canada, McGill University, Montreal Quebec, and University of Porto, Portugal). He received numerous Prizes, including the 2014 Lasker Prize, and the 2015 Breakthrough Prize in Biological Sciences.

Biosketches of the Scientific Program Chairs



Jean REGIS
(FRANCE)

Jean Regis, MD, is full professor of Neurosurgery at the Aix Marseille university (Marseille, France), and Neurosurgeon at the timone university hospital where he currently serves as head the stereotactic, functional Neurosurgery and Radiosurgery Department. honorary professor of Neurosurgery at Tokyo Women Medical university (TWMU) since 2003, his basic research activity (INSERM UMR Institut de Neurosciences des Systèmes) is focused on radiosurgery of epilepsy in experimental models and cerebral cortex gyration modeling his clinical research activity is dedicated to advance imaging applied to surgery of the cortex and the functional applications of radiosurgery and specially its application to Epilepsy.

He co-authored >360 peer-reviewed articles referenced in PubMed.

Vice president of the European Association of Neurosurgical societies (EANS) 2007 - 2011, Secretary of the European Society for Stereotactic and Functional Neurosurgery (ESSFN), President of the International Stereotactic Radiosurgery Society (ISRS) 2011-2013, President of the European Gamma Knife Radiosurgery Society (EGKS) 2011-2015, President of the Société Française de Neurochirurgie (SFNC).

Member of the board of directors of the World Society for Stereotactic and Functional Neurosurgery (WSSFN). He is reviewer for several main international journals.



Mojgan Hodaie,
(CANADA)

Dr. Mojgan Hodaie is staff neurosurgeon at the Toronto Western Hospital, University Health Network and the Surgical co-Director of the Joey and Toby Tanenbaum Family Gamma Knife Centre at the Toronto Western Hospital. Dr. Hodaie holds the rank of Professor in the Department of Surgery at the University of Toronto, and is a member of the largest functional neurosurgery team in Canada, with expertise in all forms of neuromodulation including deep brain stimulation, spinal cord stimulation and baclofen pumps for the management of spasticity. Dr. Hodaie has a special clinical and research interest in the treatment of trigeminal neuralgia and facial pain.

Dr. Hodaie's research focuses primarily on structural MRI imaging in functional neurosurgery, with a special focus in facial neuropathic pain. She has published key papers in the area on methodology of small fiber tractography, and structural neuroanatomical changes in the gray and white matter in facial neuropathic pain. Her most recent projects involve multimodal imaging approaches to the study of facial pain and trigeminal neuralgia.

Dr. Hodaie has also a strong interest in international neurosurgical education, and has spearheaded a number of projects in the field, addressing strategies to strengthen neurosurgical capacity in low and middle income countries. She is a member of the executive board of the Foundation for International Education in Neurological Surgery (FIENS) and the founder of the NEURONproject (Neurosurgical Education with Universal Reach Online, www.neuronproject.org). She has been a member of the Board of Directors of the World Society for Stereotactic and Functional Neurosurgery since 2009, and is honored to have contributed to the scientific committee for several WSSFN meetings including Tokyo 2013, Mumbai 2015 and Berlin 2017.

Keynote Lecturers

KL3

HISTORY OF PSYCHOSURGERY IN POSTWAR GERMANY



Lara RZESNITZEK
(GERMANY)

KL4

LOCAL FIELD POTENTIALS IN MOVEMENT DISORDER SURGERY



Andrea KUEHN
(GERMANY)

KL5

HIFU-FROM BLOOD BRAIN BARRIER TO FUNCTIONAL NEUROSURGERY



Jin Woo CHANG
(KOREA, REPUBLIC OF)

KL8

NEURAL TRANSPLANTATION



Stephane PALFI
(FRANCE)

KL9

IMAGING THE BRAINSTEM-7T AND BEYOND



Aviva ABOSCH
(USA)

KL10

NON-INVASIVE STIMULATION FOR COGNITIVE ENHANCEMENT



Bahram MOHAMMADI
(GERMANY)

KL13

FACIAL PAIN



Kim BURCHIEL
(USA)

KL14

CONTROVERSIES IN MD TREATMENT HIFU VS RADIOSURGERY



Jean REGIS
(FRANCE)

KL15

NEW DBS ELECTRODES



François ALESCH
(AUSTRIA)



WSSFN The Regional Societies Presidents



SLANFE Latin America José D. Carrillo-Ruiz	ESSFN Europe Damianos Sakas	MSSFN Middle East Ahmed Alkhani	KSSFN Korea Young Hwan Ahn	JSSFN Japan Hidehiro Hirabayashi	ASSFN North America Emad Eskandar	ISSFN India Paresh Doshi
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Awardees

The WSSFN leadership is pleased to announce two awards in honor of deceased Professors Traugott Riechert (1905-1983) and Fritz Munding (1924-2012).



WSSFN Riechert Award

The aim of the Riechert award is to promote and initialize basic or clinical research projects in the field of stereotactic and functional neurosurgery.



WSSFN Munding Award

The aim of the Munding award is to recognize important publications which have been published by WSSFN members in the field of functional and stereotactic neurosurgery.

Spiegel-Wycis and Tasker Awardees	Tasker Award	Munding Award	Riechert Award
Yves Lazorthes	Francisco Velasco	David Roberts	Itzhak Fried
Dario Englot	Hemmings Wu		

The Country Ambassadors

Thank you to all the Country Ambassadors who are assisting in providing information to their colleagues

- | | | |
|-------------------------------|--------------------------------|-------------------------------|
| Ahmed ALKHANI, (Saudi Arabia) | Jocelyne BLOCH, (Switzerland) | Ron ALTERMAN, (United States) |
| Clement HAMANI, (Canada) | Oswaldo VILELA FILHO, (Brazil) | Terry COYNE, (Australia) |
| Ghanem ALSULAITI, (Qatar) | Patric BLOMSTEDT, (Sweden) | Tipu AZIZ, (United Kingdom) |
| Hiroki TODA, (Japan) | Rick SCHUURMAN, (Netherlands) | Walid GHANY, (Egypt) |
| Jairo ESPINOZA, (Colombia) | Roberto SPIEGELMANN, (Israel) | |

WSSFN Travel Awards

The World Society is pleased to continue its offer of travel grants to residents and fellows participating in the XVII Quadrennial Meeting of the WSSFN in Berlin. The purpose of these grants is to encourage excellent science, facilitate attendance to the meeting and further education and training in stereotactic and functional neurosurgery across the world.

The interest in travel grants for the Berlin meeting has surpassed all previous meetings. This is in turn a clear evidence of increasing interest and research opportunities for our trainees. The Society continues its mandate of on international education and training in stereotactic and functional neurosurgery. We hope that through attendance of this meeting and increasing international collaborations, we can increase the geographical footprint of stereotactic and functional neurosurgery in areas where this important subspecialty is still limited.

It has been a pleasure to participate in the selection of the awardees. I would like to acknowledge the invaluable contributions of Dr. Sameer Sheth, Columbia University, in the selection of the awardees.

Mojgan Hodaie, Chair
Scientific Committee, WSSFN XVII Quadrennial Meeting

The travel grant awardees of the XVII Quadrennial Meeting of the WSSFN are:

- | | | | |
|---|--|--|---|
| AFRICA | ASIA | EUROPE | AMERICA |
| Heba Mohammed Osman Azouz
<i>Egypt</i> | Na Young Jung
<i>Republic of Korea</i> | Harith Akram
<i>United Kingdom</i> | Garrett P. Banks
<i>United States of America</i> |
| Timothy Samaila
<i>Nigeria</i> | Jeong Hwa Kim
<i>Republic of Korea</i> | Emmanuel De Schlichting
<i>France</i> | Jesus O. Beltran
<i>Mexico</i> |
| | Chang Kyu Park
<i>Republic of Korea</i> | Philippe De Vloo
<i>Belgium</i> | Sarah Bick
<i>United States of America</i> |
| | Seong-Cheol Park
<i>Republic of Korea</i> | Elad Etingold
<i>Israel</i> | Dario Englot
<i>United States of America</i> |
| | Jie Ren
<i>China</i> | Maria Ángeles Garcia Pallero
<i>Spain</i> | Mauricio A.E. Liquidano,
<i>Mexico</i> |
| | Adi Sulistyanto
<i>Indonesia</i> | Ann-Kristin Helmers
<i>Germany</i> | Cameron A. Elliott
<i>Canada</i> |
| | Ryosuke Tomio
<i>Japan</i> | Aaron Lawson McLean
<i>Germany</i> | Nicholas Au Yong
<i>United States of America</i> |
| | | Bobby Sachdev
<i>United Kingdom</i> | |



WSSFN General information A-Z

WSSFN 2017 will take place at
Intercontinental Berlin, Germany

A

APP!

WSSFN 2017 Smartphone Application
All information on WSSFN 2017 will also be available on the congress app:
Detailed program / Faculty / Abstracts / Presentations / Maps & Directions / Search tool / Exhibition floor plan / General information
Please download it on your mobile device (appStore/playStore) : WSSFN 2017

ABSTRACT BOOK

The abstract book will be published by **KARGER**
www.karger.com
Each attendee will receive a USB Stick including the abstract book.

ACCREDITATION

The 17th Quadrennial Meeting of World Society Stereotactic and Functional Neurosurgery.
Event code: 74 was granted 24 European CME credits (ecmec) by the european accreditation council for continuing medical education (eaccme).
See uems-eaccme® certificate on page4.
Learn more about uems-eaccme® accreditation :
<https://www.uems.eu/>

B

BADGES

A name badge will be provided on site. For security and regulation purposes, wearing the badge is compulsory at all times inside the congress venue, the exhibition area and at the congress dinner. Should you lose your badge, please go to the Welcome Area for assistance.

BREAKFAST SESSIONS

Parallel Breakfast Sessions will take place:
From **Tuesday June 27 through Thursday, June 29**
From **7:30- 8:15**
Please refer to the detailed program for more information on the topics.

C

CATERING AND NETWORKING EVENTS

Coffee breaks, lunch and Welcome Reception are included in the registration fee and will take place in the Exhibition Area. Presentation of your badge will be required to access the Exhibition.

Opening Hours

	Monday JUNE 26	Tuesday JUNE 27	Wednesday JUNE 28	Thursday JUNE 29
MORNING COFFEE BREAK	10:00 10:30	10:30 10:45	10:00 10:30	10:00 10:30
LUNCH BREAK	12:00 14:00	12:30 14:30	12:00 14:00	13:00 14:15
AFTERNOON COFFEE BREAK	16:00 16:30	16:00 16:15	15:45 16:15	16:45 17:15
NETWORKING EVENTS	Welcome Reception 18:30 20:30	Presidential Dinner	Congress Dinner	

Please note that lunch boxes will be available at sponsored luncheon seminars & symposia, on June 27 & 28. The lunch boxes will be distributed to the seminar attendees at the room entrance before the seminar starts, although the number is limited.

CERTIFICATE OF ATTENDANCE

Certificates of attendance will be automatically delivered by email to all participants, no later than 1 week after the congress.

CLOAKROOM

A cloakroom is located next to the Welcome desk. Please note that WSSFN does not take any responsibility for lost items in the cloakroom.
The cloakroom is open at the following hours:

Monday June 26, 2017	8:00	19:30
Tuesday June 27, 2017	7:00	19:00
Wednesday June 28, 2017	7:00	19:00
Thursday June 29, 2017	7:00	19:00

CONGRESS DINNER

The WSSFN dinner will take place at the Kosmos, Karl-Marx-Allee 131a, 10243 Berlin
Wednesday June 28, 2017 - At 20:00
The ticket per person is 75€. For registrations, please come to the Welcome Desk. Buses will take you directly from the Intercontinental to the Kosmos.

CONGRESS LANGUAGE

The official congress language is English. The submitted abstracts, general correspondence and congress sessions are in English. No simultaneous translation will be provided.

CURRENCY

Payments for the Congress will be accepted in EUR (€), Cash and Credit Card only (Visa, American Express or MasterCard).

D

DISCLAIMER

The Organizing Committee, MCO Congrès or Intercontinental Hotel will not accept liability for losses of whatever nature incurred by participants and/or accompanying persons or for loss or damage to their luggage and/or personal belongings.

E

EMERGENCIES

Emergency (fire service and ambulance): 112
Police: 110
You can refer at all times to the staff in the Welcome Area.

EXHIBITION OPENING HOURS

Monday June 26, 2017	8:30	18:00
Welcome Reception	18:00	19:30
Tuesday June 27, 2017	8:30	17:30
Wednesday June 28, 2017	8:30	17:30
Thursday June 29, 2017	8:30	18:45

I

INSURANCE

Participants are advised to provide their own personal insurance. The organizers cannot be held responsible for any damages.

INTERNET

Free Wi-Fi will be available throughout the duration of the meeting.

L

LOST AND FOUND

Lost items should be returned to the **Registration Desk**. Should you lose anything, please report to the Registration Desk.

O

ORAL PRESENTATIONS

All presentations must be uploaded onto the congress computer system. Lecture rooms are equipped with a beamer, 16:9 screen (also suitable for 4:3 ppt presentations). Please prepare your presentation in electronic version in 16:9 or 4:3 ratio. Please visit the speaker's preview room at your earliest convenience. Your presentation should be uploaded and validated no later than 2 hours before the session starts, or the day before, if the presentation is in one of the morning sessions. MAC OS X presentations will be uploaded to the congress computer system as well. Staff members will be available to help preparing and validating the presentations.

Specific exceptions may be allowed for invited speakers upon individual agreement with the technical staff in case of a complicated video content. The presenter is responsible for having necessary video adaptors for private laptop connection ready. For opening hours of the speaker's preview room, please cf. Speaker's Preview Room section.

P

PCO

The professional Congress organizer (MCO Congrès) is located at the registration desk.
Headquarters: Villa Gaby-285 Corniche JF Kennedy
13007 Marseille, France. Tel.: +33 (0) 495 093 800

POSTER AREA AND POSTER SESSIONS

The poster area is located in the Pavillon room.

S

SPEAKER'S PREVIEW ROOM

The Speaker's Preview Room, located next to the plenary (Potsdam Office), is available for moderators and speakers/oral presenters to prepare their sessions. All speakers are kindly requested to hand in their presentation in the Speakers (Preview) Room minimum 60 minutes prior to the beginning of their session.
The Speakers (Preview) Room is open during the following hours:

Monday June 26, 2017	8:00	17:00
Tuesday June 27, 2017	7:00	18:00
Wednesday June 28, 2017	7:00	18:00
Thursday June 29, 2017	7:00	18:00

T

TELEPHONE

The international access code for Berlin / Germany is **0049**. Remove the "0" from the city / area code when dialing international.
We ask all Congress delegates to put their mobile phones on silent mode or turn it off, during all congress sessions.

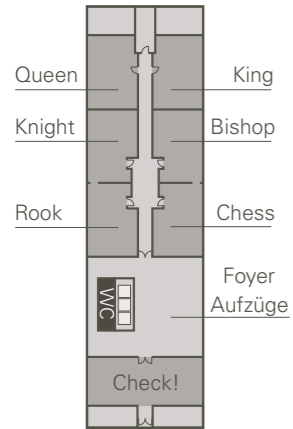
W

WELCOME DESK

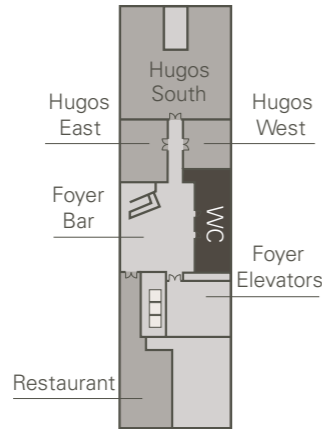
The welcome desk is open at the following hours:

Monday June 26, 2017	8:00	17:00
Tuesday June 27, 2017	7:00	18:00
Wednesday June 28, 2017	7:00	18:00
Thursday June 29, 2017	7:00	18:00

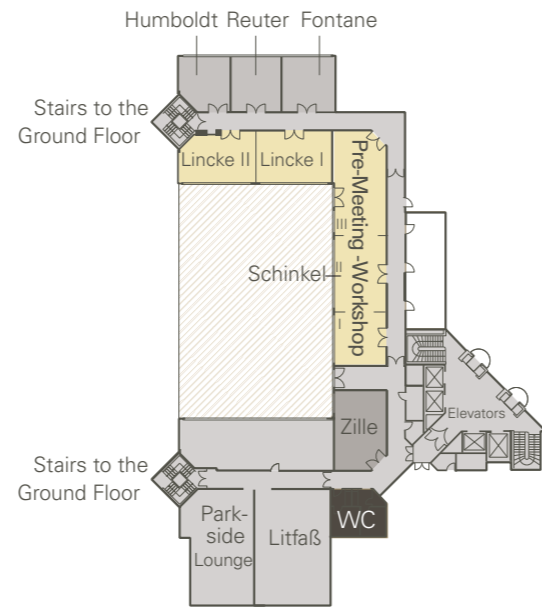
CONFERENCES FLOOR 2ND FLOOR



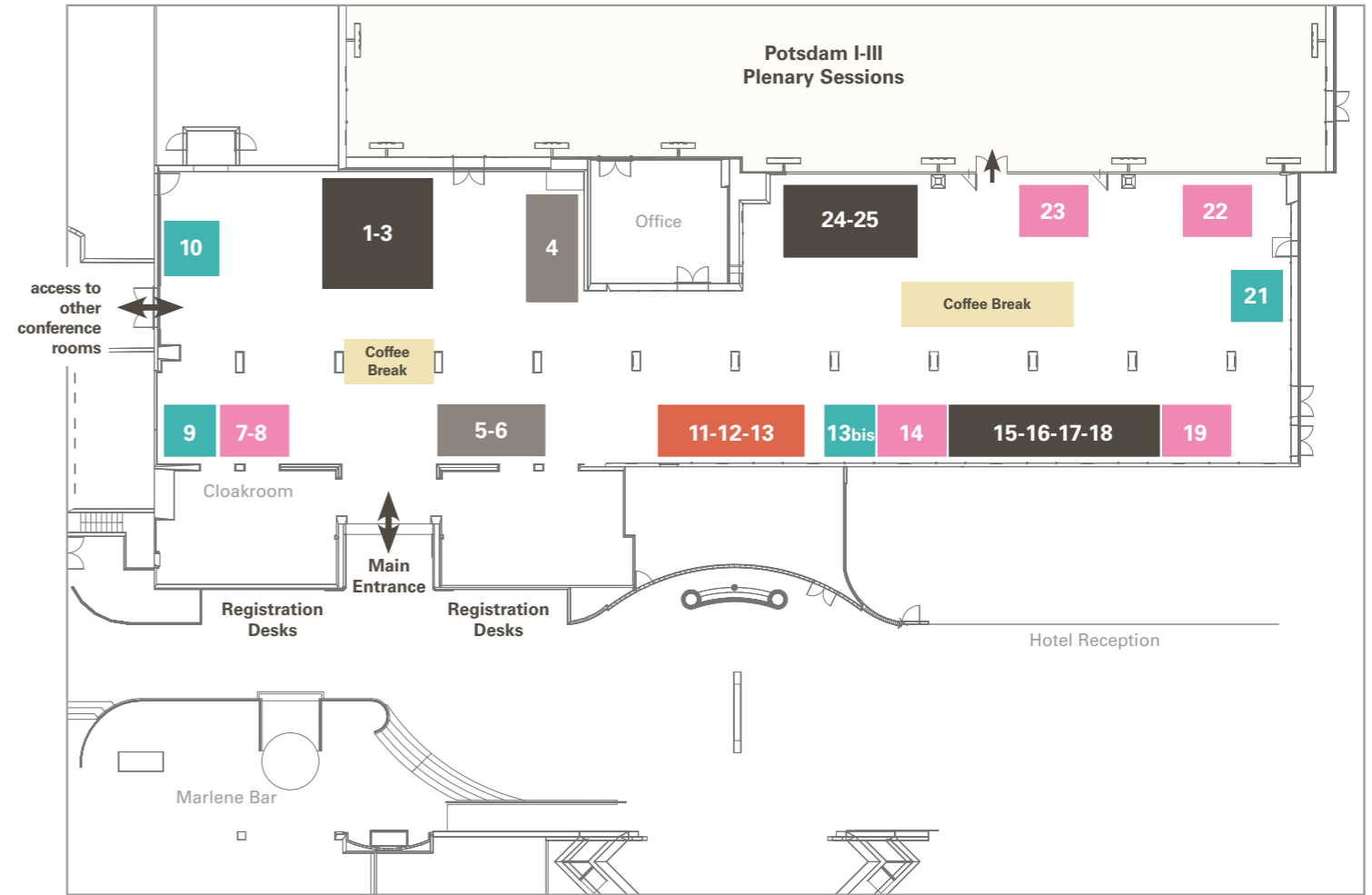
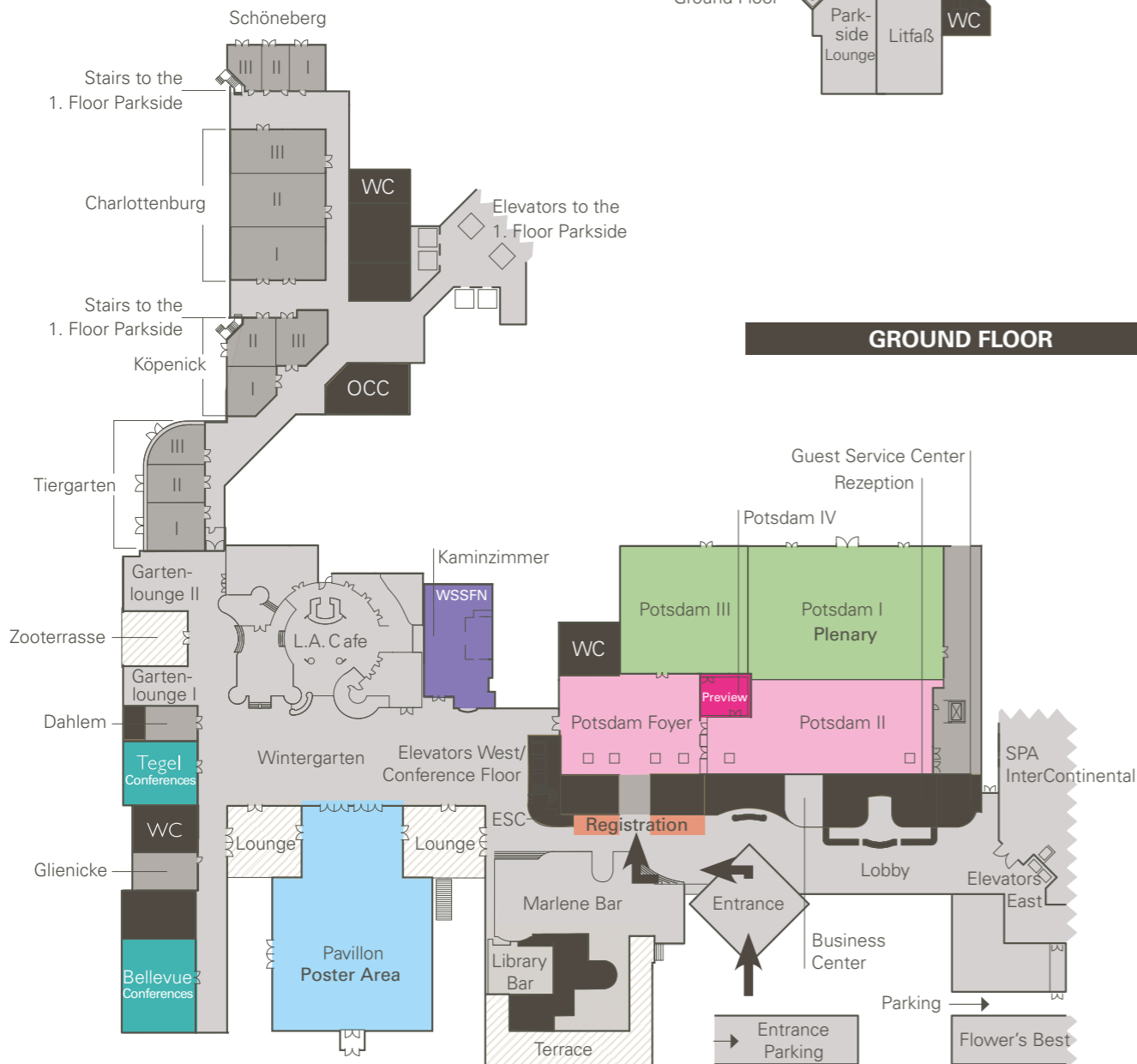
HUGOS RESTAURANT



PARKSIDE 1ST FLOOR




GROUND FLOOR




EXHIBITORS	BOOTH NUMBER
ALPHA OMEGA	19
BIOINDUCTION	10
BOSTON SCIENTIFIC	01-03
BRAINLAB	5-6
ELEKTA	11-13
FHC Inc	14
INOMED	21
INSIGHTEC	4
KARGER	13b
MEDTRONIC	24-25
NANS	9
RENISHAW MAYFIELD-DIXI MEDICAL	23
SCENERAY	22
ST JUDE	15-18
ZIMMER BIOMET ROBOTICS	7-8

PRE-MEETING

WORKSHOPS

	Potsdam I-III	Bellevue
09:00-12:00	PMW1 ELECTROPHYSIOLOGY WORKSHOP <i>Coordinator: William D. HUTCHISON</i> <i>Moderators: Hagai BERGMAN, Erich RICHTER</i>	PMW2 EPILEPSY WORKSHOP <i>Coordinator: Faisal AL-OTAIBI</i> <i>Moderators: Claudio POLLO, Igor TRIFONOF</i>
12:00-14:00		
14:00-18:00	PMW8 LESIONING WORKSHOP <i>Coordinator: Jin Woo CHANG</i> <i>Moderators: Jin Woo CHANG, Emil ISAGULYAN</i>	PMW10 SURGERY FOR PSYCHIATRIC DISORDERS WORKSHOP <i>Coordinators: Marwan HARIZ, Bart NUTTIN, Keith MATTHEWS</i>
18:30-20:30	OPENING RECEPTION IN THE EXHIBITION AREA	

	Tegel	Lincke I-II	Schinkel I-II
09:00-12:00	PMW4 PAIN SURGERY WORKSHOP <i>Coordinator: Marc SINDOU</i> <i>Moderators: Wolfgang HAMEL, Chris HONEY</i>	PMW3 RADIOSURGERY WORKSHOP <i>Coordinator: Jean RÉGIS</i> <i>Moderators: Moto HAYASHI, Roberto SPIEGELMAN</i>	PMW5 TREATMENT OF TOURETTE'S SYNDROME WORKSHOP <i>Coordinator: Yasin TEMEL</i> <i>Moderators: Rees COSGROVE, Mansour PARVARESH</i>
12:00-14:00	SSW1 Satellite symposium sponsored by WSSFN NEUROMODULATION ZUR BEHANDLUNG PSYCHIATRISCHER ERKRANKUNGEN <i>Coordinator: Jürgen VOGES</i>		SSW2 Satellite symposium sponsored by WSSFN GLOBAL BRAIN INITIATIVES - IMPLICATIONS FOR FUNCTIONAL NEUROSURGERY <i>Coordinators: Joseph NEIMAT, Mark RICHARDSON</i>
14:00-18:00	PMW7 STEREOTACTIC AND FUNCTIONAL NEUROSURGERY WORKSHOP FOR INDUSTRY <i>Coordinator: Michael SCHULDER</i> <i>Moderators: Paresh DOSHI, Michael SCHULDER</i>	PMW6 DBS WORKSHOP <i>Coordinator: Erlick PEREIRA</i> <i>Moderators: Angelo FRANZINI, Jorge GURIDI</i>	PMW9 EDUCATION & TRAINING WORKSHOP in collaboration with ESSFN and WSSFN Education Committees <i>Coordinators: Jean RÉGIS, Joachim KRAUSS</i> <i>Moderators: Jean RÉGIS, Joachim KRAUSS</i>
18:30-20:30	OPENING RECEPTION IN THE EXHIBITION AREA		

ROOMS
ROOMS

09:00-12:00	PRE-MEETING WORKSHOPS	
PMW1	ELECTROPHYSIOLOGY WORKSHOP -Coordinator: William D. HUTCHISON <i>Moderators: Hagai BERGMAN, Erich RICHTER</i>	Potsdam I-III
	<ul style="list-style-type: none"> •Techniques in microelectrode recording. William HUTCHISON •Physiology of the thalamus and basal ganglia in movement disorder surgery. Zvi ISRAEL •Current models of basal ganglia circuitry. Hagai BERGMAN •Basal ganglia physiology in animal models. Mesbah ALAM •Selected cases - recordings and interpretation. Brigitte PIALLAT •Effect of sedation and anesthesia on recordings. Alexandre EUSEBIO •Neural rhythms in MD surgery. Sameer SHETH 	
PMW2	EPILEPSY WORKSHOP -Coordinator: Faisal AL-OTAIBI <i>Moderators: Claudio POLLO, Igor TRIFONOF</i>	Bellevue
	<ul style="list-style-type: none"> •Assessment of surgical patients. Youssef COMAIR •The role of adjunct testing in epilepsy. Faisal AL-OTAIBI •Electrocorticography. Antonio FERREIRA GONCALVES •StereoEEG recordings. Nitin TANDON •Temporal lobectomy. Claudio POLLO •Functional imaging. Dario ENGLLOT •Laser ablation in epilepsy. Chengyuan WU •How epilepsy helps us understand cognition and memory. Itzhak FRIED •MEG. Masaki IWASAKI 	
PMW4	PAIN SURGERY WORKSHOP -Coordinator: Marc SINDOU <i>Moderators: Wolfgang HAMEL, Chris HONEY</i>	Tegel
	<ul style="list-style-type: none"> •Trigeminal neuralgia and facial pain. Marc SINDOU •Spinal cord stimulation. Josh ROSENOW •DREZ lesioning. Peter KONRAD •DBS for pain. Alex GREEN •Surgical treatment of headache syndromes. Denys FONTAINE •Motor cortex stimulation. Gaston SCHECHTMANN •Sphenopalatine ganglion stimulation. Jocelyn BLOCH •DRG stimulation. Jan VESPER 	
PMW3	RADIOSURGERY WORKSHOP -Coordinator: Jean RÉGIS <i>Moderators: Motohiro HAYASHI, Roberto SPIEGELMAN</i>	Lincke I-II
	<ul style="list-style-type: none"> •Fundamentals of radiosurgery-from frames to physics. Antonio DE SALLES •Radiosurgery for benign tumors. Marc LEVIVIER •Radiosurgery for acoustic neuromas. Jean RÉGIS •Radiosurgery for metastatic disease. David MATHIEU •Functional radiosurgery. Roberto MARTINEZ-ALVAREZ •Radiosurgery for treatment of arteriovenous malformations. Roman LISCAK 	
PMW5	TREATMENT OF TOURETTE'S SYNDROME WORKSHOP -Coordinator: Yasin TEMEL <i>Moderators: Rees COSGROVE, Mansour PARVARESH</i>	Schinkel I-II
	<ul style="list-style-type: none"> •Overview of Tourette's syndrome. Ludvic ZRINZO •Psychiatric issues in Tourette's. Kirsten MUELLER-VAHL •Surgical patient selection. Yasin TEMEL •Treatment of Tourette with GPi stimulation. Veerle VISSER-VANDEWALLE •Treatment of Tourette with GPe stimulation. Oswaldo VILELA FILHO •Treatment of Tourette with thalamic stimulation. Terry COYNE 	
9:00-11:30	OFFICER'S MEETING	Kaminzimmer
12:00-14:00	SATELLITE SYMPOSIUM SPONSORED BY WSSFN	
SSW1	NEUROMODULATION ZUR BEHANDLUNG PSYCHIATRISCHER ERKRANKUNGEN Coordinator: Jürgen VOGES <i>Speakers: Prof. Dr. med. Th. Schläper, Univ.-Freiburg; Prof. Dr. med. Dr. phil. A. Heinz, Univ.-Hospital, Charité Berlin, Prof. Dr. med. V. Coenen, Univ.-Freiburg, Prof. Dr. med. J. Voges, Univ.-Magdeburg</i>	Tegel
SSW2	GLOBAL BRAIN INITIATIVES - IMPLICATIONS FOR FUNCTIONAL NEUROSURGERY Coordinators: Joseph NEIMAT, Mark RICHARDSON	Schinkel I-II

14:00-18:00	LESIONING WORKSHOP -Coordinator: Jin Woo CHANG <i>Moderators: Jin Woo CHANG, Emil ISAGULYAN</i>	Potsdam I-III
PMW8	<ul style="list-style-type: none"> •Historical aspects of lesioning -from Cooper's cryolesioning to HiFU. Takaomi TAIRA •Lesioning using invasive methods. Tipu AZIZ •Radiosurgical lesioning. Sun HA PAEK •Stereotactic laser ablation surgery. Robert GROSS •Lesioning using HiFU. Nir LIPSMAN •Lesioning for unusual movement disorders. Takaomi TAIRA •Increasing the accuracy of lesioning procedures. Mojgan HODAIE 	
PMW10	SURGERY FOR PSYCHIATRIC DISORDERS WORKSHOP Coordinators: Marwan HARIZ, Keith MATTHEWS, Bart NUTTIN	Bellevue
	<ul style="list-style-type: none"> •Introduction: Is surgery for psychiatric disorders really needed? Marwan HARIZ •DBS for OCD: why it is not flying like DBS for PD? Bart NUTTIN •Two failed trials of DBS for depression; what went wrong? Andres LOZANO •What happened to STN DBS for OCD? Luc MALLET •When is a patient with OCD treatment refractory? David CHRISTMAS •When is a patient with major depression treatment refractory? Raphaëlle RICHIERI •Long-term outcome of DBS for OCD with emphasis on side-effects. Rick SCHUURMAN •DBS for addiction. Jürgen VOGES •DBS for post-traumatic stress disorder (PTSD). Ali R. REZAI •Ablative surgery for aggressiveness. Oswaldo FILELA-VILHO •DBS for obesity. Antonio DE SALLES •Surgery for anorexia nervosa. Bomin SUN •DBS for Gilles de la Tourette syndrome. Veerle VISSER-VANDEWALLE •Imaging of psychiatric brain circuitries. Sameer SHETH •Animal models for psychiatric disorders. Christelle BAUNEZ •How to proceed? Why is the field stagnating? Are psychiatrists averse to psychiatric surgery? Why is it still experimental? All Faculty •Closing talk: Ideal requirements for neurosurgery to become accepted credible treatment of refractory patients. Keith MATTHEWS 	
PMW7	STEREOTACTIC AND FUNCTIONAL NEUROSURGERY WORKSHOP FOR INDUSTRY Coordinator: Michael SCHULDER <i>Moderators: Paresh DOSHI, Michael SCHULDER</i>	Tegel
	<ul style="list-style-type: none"> •A primer of neurodegenerative disorders. Suneil KALIA •Introduction to movement disorder surgery-targets, techniques and indications. Paresh DOSHI •Preoperative patient assessment-how do we select surgical candidates? Jens VOLKMANN •Novel indications for treatment. Michael SCHULDER •The delicate art of programming - What are the key issues? Jörg MÜLLER •Movement disorders - the patient's perspective and impact on quality of life. Gun-Marie HARIZ •What I always wanted to know about Functional Neurosurgery-(but was afraid to ask...). All Faculty 	
PMW6	DBS WORKSHOP -Coordinator: Erlick PEREIRA <i>Moderators: Angelo FRANZINI, Jorge GURIDI</i>	Lincke I-II
	<ul style="list-style-type: none"> •Methods of stereotaxy, Cartesian coordinates, frame application. Romain CARRON •Targets, frames and maximizing targeting accuracy. Patric BLOMSTEDT •Nexframe and Starfix systems. Joseph NEIMAT •Neuromodulation for movement disorders-technique, indications and current outcomes. Stephan CHABARDES •Neuromodulation for epilepsy. Dirk VAN ROOST •Neuromodulation for novel indications: Depression, Alzheimers, Anorexia. Clement HAMANI •DBS complications. Maria Fiorella CONTARINO •Neuromodulation for pain. Erlick PEREIRA 	
PMW9	EDUCATION AND TRAINING WORKSHOP in collaboration with ESSFN and WSSFN Education Committees -Coordinators: Jean RÉGIS and Joachim KRAUSS <i>Moderators: Jean RÉGIS, Joachim KRAUSS</i>	Schinkel I-II
	<ul style="list-style-type: none"> •Stereotactic and Functional Neurosurgery across the globe-The diverse aspects of treatment. Jairo ESPINOSA •A comprehensive fellowship in SFN - What should it include? Zelma KISS •Stereotactic and Functional Neurosurgery in Taiwan. Jung TUNG LIU •Setting up a DBS program in Indonesia. Achmad FAHMI •Starting a functional neurosurgery group. Akmal HUSSAIN •Setting up an epilepsy center. Andy PARRENT •Stereotactic and Functional Neurosurgery in Africa. Graham FIEGGEN •Stereotactic and Functional Neurosurgery in South America. Fabian PIEDIMONTE •Stereotactic and Functional Neurosurgery in Tunisia. Guenane LAKHDAR, Benaissa ABDENNEBI 	
18:30-20:30	OPENING RECEPTION ON MONDAY EVENING	

Potsdam I-III

7:30-8:15	BS2	Imaging in Stereotactic and Functional Neurosurgery <i>Moderators: Nader POURATIAN, Tejas SANKAR</i> <i>Speakers: Juan Antonio BARCIA, Volker COENEN, Dario ENLOT, Nader POURATIAN</i>
8:30-9:00	KL1	WSSFN Presidential address <i>Speaker: Joachim KRAUSS</i>
9:00-9:30	KL2	The History of Stereotactic and Functional Neurosurgery <i>Moderators: Ali REZAI, Jurgen VOGES</i> <i>Speaker: Marwan HARIZ</i>
9:30-10:30	OPS01	Oral presentations <i>Moderators: Moderators: Ali R. REZAI, Juergen VOGES</i>
10:30-10:45	COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
10:45-11:45	OPS02	Oral presentations <i>Moderators: Emad ESKANDAR, Joseph NEIMAT</i>
11:45-12:30	AW	WSSFN Distinguished Award Ceremony & Presentations <i>Moderators: Emad ESKANDAR, Joseph NEIMAT</i>
12:30-14:30	[Hatched area]	
14:30-15:00	KL3	History of Psychosurgery in postwar Germany <i>Moderators: Alex GREEN, Ali SAVAS</i> <i>Speaker: Lara RZESNITZEK</i>
15:00-16:00	OPS03	Oral presentations <i>Moderators: Alex GREEN, Ali SAVAS</i>
16:00-16:15	COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
16:15-17:15	FP1	Flash presentations <i>Moderators: Alireza GHARABAGHI, Jan MEHRKENS</i>
17:15-17:45	WU1	PLENARY SESSION: Wrap up session - 3 presenters: <i>Moderators: Harith AKRAM, Vibhor KRISHNA, Hemmings WU</i>
17:45-18:30	[Hatched area]	
20:00	PRESIDENT'S DINNER AT THE INTERCONTINENTAL (Upon invitation only)	

Bellevue

BS1	Challenging cases in Neuromodulation <i>Moderators: Maximilian MEHDORN, Fabian PIEDIMONTE</i> <i>Speakers: Terry COYNE, Paresh DOSHI, Shiro HORISAWA</i>
[Hatched area]	
WSSFN Presidential address <i>Speaker: Joachim KRAUSS</i> in Potsdam I-III	
The History of Stereotactic and Functional Neurosurgery <i>Moderators: Ali REZAI, Jurgen VOGES</i> <i>Speaker: Marwan HARIZ</i> in Potsdam I-III	
[Hatched area]	
COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
[Hatched area]	
LIS1	INDUSTRY-SPONSORED LUNCH SYMPOSIUM <i>(contents page 46)</i>
KL5	HIFU-from Blood brain barrier to Functional Neurosurgery <i>Moderators: Aviva ABOSCH, Angelo LAVANO</i> <i>Speaker: Jin Woo CHANG</i>
OPS04	Oral presentations <i>Moderators: Aviva ABOSCH, Angelo LAVANO</i>
COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
FP2	Flash presentations <i>Moderators: Jung-Il LEE, Constantin TULEASCA</i>
PLENARY SESSION: Wrap up session - 3 presenters: <i>Moderators: Harith AKRAM, Vibhor KRISHNA, Hemmings WU</i> in Potsdam I-III	
[Hatched area]	
PRESIDENT'S DINNER AT THE INTERCONTINENTAL (Upon invitation only)	

Tegel

BS3	Maximizing the success of your research publication <i>Moderators: Tipu AZIZ, Philip CORNU</i> <i>Speakers: Tipu AZIZ, Stéphan CHABARDES, David ROBERTS</i>
[Hatched area]	
[Hatched area]	
[Hatched area]	
COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
[Hatched area]	
LIS2	INDUSTRY-SPONSORED LUNCH SYMPOSIUM <i>(contents page 46)</i>
KL4	Local field potentials in movement disorder surgery <i>Moderators: Jocelyn BLOCH, Alon MOGILNER</i> <i>Speaker: Andrea KUEHN</i>
OPS05	Oral presentations <i>Moderators: Jocelyne BLOCH, Alon MOGILNER</i>
COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
FP3	Flash presentations <i>Moderators: Mohammed MAAROUF, Alexandre RAINHA CAMPOS</i>
CT1	Clinical Trials Session 1 <i>Moderators: Nir LIPSMAN, Adriana Lucía LÓPEZ RÍOS</i>
SST	INDUSTRY-SPONSORED SYMPOSIUM <i>(contents page 46)</i>
PRESIDENT'S DINNER AT THE INTERCONTINENTAL (Upon invitation only)	

ROOMS
7:30-8:15 PARALLEL SESSIONS: BREAKFAST SESSIONS

BS1	CHALLENGING CASES IN NEUROMODULATION <i>Moderators: Maximilian MEHDORN, Fabian PIEDIMONTE</i> <i>Speakers: Terry COYNE, Paresh DOSHI, Shiro HORISAWA</i>	Bellevue
BS2	IMAGING IN STEREOTACTIC AND FUNCTIONAL NEUROSURGERY <i>Moderators: Nader POURATIAN, Tejas SANKAR</i> <i>Speakers: Juan Antonio BARCIA, Volker COENEN, Dario ENGLLOT, Nader POURATIAN</i>	Postdam I-III
BS3	MAXIMIZING THE SUCCESS OF YOUR RESEARCH PUBLICATION <i>Moderators: Tipu AZIZ, Philip CORNU</i> <i>Speakers: Tipu AZIZ, Stephan CHABARDES, David ROBERTS</i>	Tegel

PLENARY SESSIONS: KEYNOTE LECTURES

8:30-9:00	KL1-WSSFN PRESIDENTIAL ADDRESS <i>Speaker: Joachim K. KRAUSS</i>	Potsdam I-III
9:00-9:30	KL2-THE HISTORY OF STEREOTACTIC AND FUNCTIONAL NEUROSURGERY <i>Moderators: Ali REZAI, Jurgén VOGES</i> <i>Speaker: Marwan HARIZ</i>	Potsdam I-III

9:30-10:30 OPS01-PLENARY SESSION: ORAL PRESENTATIONS Potsdam I-III
Moderators: Ali R. REZAI, Juergen VOGES

OP01	Conscious Behaviors Following Bilateral Pallido-Thalamic Low Frequency Stimulation in Patients with Continuing Disorders of Consciousness. <i>Jean-Jacques LEMAIRE, Anna SONTHEIMER, Bénédicte PONTIER, Jérôme COSTE, Thierry GILLART, Jean GABRILLARGUES, Fabien FESCHET, Bruno PEREIRA</i>	
OP02	A randomised controlled trial of Deep Brain Stimulation in Severe Refractory Obsessive Compulsive Disorder. <i>Ludvic ZRINZO, Himanshu TYAGI, Tom FOLTYNIE, Patricia LIMOUSIN, Lynne DRUMMOND, Naomi FINEBERG, Keith MATTHEWS, Eileen JOYCE, Marwan HARIZ</i>	
OP03	Stereotactic radiosurgery capsulotomy for refractory OCD: Lesion location and connectivity analysis in 30 patients. <i>Garrett BANKS, Nicole MCLAUGHLIN, Pranav NANDA, Euripedes MIGUEL, Jason SHEEHAN, Zhiyuan XU, Antonio LOPES, Marcelo HOEXTER, Marcelo BASTISTUZZO, Danika PAULO, Noren GEORG, Benjamin GREENBERG, Steven RASMUSSEN, Sameer SHETH</i>	
OP04	Deep Brain Stimulation of the Medial Forebrain Bundle: Marked Responses in Treatment Resistant Depression. <i>Albert FENOY, Paul SCHULZ, Sudhakar SELVARAJ, Christina BURROWS, Giovana ZUNTA SOARES, Joao QUEVEDO, Jair SOARES</i>	
OP05	Sweet Spot of antidystonic effect in pallidal neurostimulation: a European multicentre imaging study. <i>Martin M REICH, Florian LANGE, Jonas ROTHANS, Andreas HORN, Fritz WODARG, Joachim RUNGE, Mattias ÅSTRÖM, Nicolo POZZI, Frank STEIGERWALD, Karsten WITT, Robert NICKL, Philip PLETTIG, Matthias WITTSTOCK, Gerd-Helge SCHNEIDER, Volker Arnd COENEN, Philipp MAHLKNECHT, Werner POEWE, Wilhelm EISNER, Cordula MATTHIES, Volker STURM, Ioannis ISAIAS, Andrea KÜHN, Joachim K KRAUSS, Guenther DEUSCHL, Jens VOLKMANN</i>	

10:30-10:45 COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
10:45-11:45 OPS02-PLENARY SESSION: ORAL PRESENTATIONS Potsdam I-III
Moderators: Emad ESKANDAR, Joseph NEIMAT

OP06	A phase I pilot study of magnetic resonance-guided focused ultrasound pallidotomy for Parkinsonian dyskinesia. <i>Na Young JUNG, Chang Kyu PARK, Si Woo LEE, Sang Keum PAK, Eun Jeong KWEON, Won Seok CHANG, Hyun Ho JUNG, Jin Woo CHANG</i>	
OP07	Comparing 12 month treatment outcomes for intensive psychological therapy (ITP) and Anterior Cingulotomy (ACING) for severe OCD. <i>Karen WALKER, David CHRISTMAS, Keith MATTHEWS</i>	

ROOMS

OP08	Gamma Knife subthalamotomy for Parkinson's disease: A prospective trial. <i>Jean REGIS, Romain CARRON, Alexandre EUSEBIO, Tatiana WITJAS</i>	
OP09	Quantifying activation of the hyperdirect pathway during subthalamic deep brain stimulation. <i>Kabilar GUNALAN, Bryan HOWELL, Cameron MCINTYRE</i>	
OP10	Estimation of effective target area in the globus pallidus during deep brain stimulation for Tourette syndrome. <i>Johannes JOHANSSON, Ladan AKBARIAN-TEFAGHI, Harith AKRAM, Ludvic ZRINZO, Patricia LIMOUSIN, Eileen JOYCE, Marwan HARIZ, Karin WÄRDELL, Tom FOLTYNIE</i>	

11:45-12:30 AW-PLENARY SESSION: AWARDS CEREMONY Potsdam I-III

WSSFN Distinguished Awards Ceremony and Presentations
Moderators: Emad ESKANDAR, Joseph NEIMAT
 - Yves Lazorthes, Toulouse (France): Spiegel and Wycis Award
Introduced by Joachim K. KRAUSS
 - Francisco Velasco, Mexico (Mexico): Spiegel and Wycis Award
Introduced by Michael SCHULDER
 - David Roberts, Hanover (USA): Tasker Award
Introduced by Jin Woo CHANG

12:30-14:30 LIS1-LIS2-INDUSTRY-SPONSORED LUNCH SYMPOSIA (Contents page 46) Bellevue - Tegel
12:30-14:30 MEET2-WSSFN BOARD OF DIRECTOR'S MEETING Kaminzimmer
14:30-15:00 PARALLEL SESSIONS: KEYNOTE LECTURES

KL3	HISTORY OF PSYCHOSURGERY IN POSTWAR GERMANY <i>Moderators: Alex GREEN, Ali SAVAS</i> <i>Speaker: Lara RZESNITZEK</i>	Potsdam I-III
KL4	LOCAL FIELD POTENTIALS IN MOVEMENT DISORDER SURGERY <i>Moderators: Jocelyn BLOCH, Alon MOGILNER</i> <i>Speaker: Andrea KÜHN</i>	Tegel
KL5	HIFU-FROM BLOOD BRAIN BARRIER TO FUNCTIONAL NEUROSURGERY <i>Moderators: Aviva ABOSCH, Angelo LAVANO</i> <i>Speaker: Jin Woo CHANG</i>	Bellevue

15:00-16:00 OPS03-PARALLEL SESSIONS: ORAL PRESENTATIONS Potsdam I-III
Moderators: Alex GREEN, Ali SAVAS

OP11	Crucial white matter tracts involved in successful sIMFB DBS in major depression. <i>Volker Arnd COENEN, Thomas Eduard SCHLAEPFER, Bettina H BEWERNICK, Jan BOSTROEM, Elke HATTINGEN, Horst URBACH, Meng LI</i>	
OP12	Six-month outcomes of tractography targeted subgenual cingulate DBS for treatment resistant depression. <i>Zelma Ht KISS, Sandra GOLDING, Darren CLARK, Aaron MACKIE, Ramasubbu RAJ</i>	
OP13	Characterizing capsulotomy targets for OCD based on frontal structural connectivity. <i>Pranav NANDA, Justin OH, Garrett BANKS, Yagna PATHAK, Sameer SHETH</i>	
OP14	Graphical analysis of lead position in regard to outcome for nucleus accumbens/anterior limb of internal capsule (Nacc/ALIC) deep brain stimulation (DBS) in obsessive compulsive disorder (OCD). <i>Martin KLEHR, Daniel HUYS, Maxim RYZHKOV, Rutger NIJLUNSING, Veerle VISSER-VANDEWALLE</i>	
OP15	Identifying brain regions implicated in OCD using simultaneous EEG-fMRI. <i>Yagna PATHAK, Noam SCHNECK, Pranav NANDA, Marina GERSHKOVICH, Helen SIMPSON, Paul SAJDA, Sameer SHETH</i>	

ROOMS
15:00-16:00 OPS04-PARALLEL SESSIONS: ORAL PRESENTATIONS Bellevue

Moderators: Aviva ABOSCH, Angelo LAVANO

- OP16** Deep brain stimulation in the caudal Zona incerta for essential head tremor: Long-term results.
Patric BLOMSTEDT, Rasmus STENMARK P.
- OP17** Comparison of 1.5, 3.0 and 7.0-Tesla MRI for STN targeting in DBS.
Maarten BOT, Okker VERHAGEN, Rick SCHUURMAN, Pepijn VAN DEN MUNCKHOF
- OP18** Defining the dorsolateral STN using 7-Tesla MRI. *Maarten BOT, Okker VERHAGEN, Vincent ODEKERKEN, Rob DE BIE, Rick SCHUURMAN, Pepijn VAN DEN MUNCKHOF*
- OP19** Frequency and Characterization of Lead Revision and Removal Rates following DBS from the Product Surveillance Registry. *Steven FALOWSKI, Peter KONRAD, Mya SCHIESS, Stephane PALFI, Gayle JOHNSON, Todd WEAVER, Joachim K. KRAUSS*
- OP20** Impact of segmented leads in deep brain stimulation. *Vesper JAN, Jarek MACIACZYK, Philipp SLOTTY*

15:00-16:00 OPS05-PARALLEL SESSIONS: ORAL PRESENTATIONS Tegel

Moderators: Jocelyne BLOCH, Alon MOGILNER

- OP21** How does vagal nerve stimulation modify functional connectivity? A study based on intracerebral EEG recordings and comparison between 'on' and 'off' stimulation periods.
Romain CARRON, Stanislas LAGARDE, Elsa VIDAL, Francesca BONINI, Jean RÉGIS, Fabrice BARTOLOMEI
- OP22** Comparative Analysis of pre- and post-operative Magnetoencephalography for Patients with Medically Intractable Epilepsy.
Chang Kyu PARK, Na Young JUNG, Si Woo LEE, Won Seok CHANG, Hyun Ho JUNG, Jin Woo CHANG
- OP23** Clinical Outcome and Location of Active Contacts in the Centromedian Thalamic Nucleus Deep Brain Stimulation in Refractory Epilepsy.
Son BYUNG-CHUL, Shon YOUNG-MIN, Choi JIN-GYU, Ha SANG-WOO, Ko HAK-CHOEL
- OP24** Magnetic resonance-guided stereotactic laser amygdalohippocampotomy for mesial temporal lobe epilepsy is not inferior to anterior temporal lobectomy. *Matthew STERN, Jon WILLIE, Daniel DRANE, Rebecca FASANO, Amit SAINDANE, Bruno SOARES, Nigel PEDERSEN, Robert GROSS*
- OP25** Relevant behavioral events may be signaled by the Centromedian-Parafascicular Complex.
Anne-Kathrin BECK, Kerstin SCHWABE, Mahmoud ABDALLAT, Pascale SANDMANN, Joachim K. KRAUSS

16:00-16:15 COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
16:15-17:15 FP1-PARALLEL SESSIONS: FLASH PRESENTATIONS Potsdam I-III

Moderators: Alireza GHARABAGHI, Jan MEHRKENS

- OF01** Improvement of consciousness after severe traumatic brain injury with deep cerebellar stimulation.
Miroslav GALANDA, Tomas GALANDA, Jana MISTINOVA, Peter JOMBIK, Maria KLUZOVA
- OF02** The importance of somatotopy to achieve clinical benefit in motor cortex stimulation for pain relief.
Afif AFIF, Luis GARCIA-LARREA, Patrick MERTENS
- OF03** High-density spinal cord stimulation for chronic neuropathic pain: a prospective observational study.
Aaron LAWSON MCLEAN, Susanne FRANK, Denise FEIERABEND, Rolf KALFF, Jan WALTER, Rupert REICHART
- OF04** Limbic Leucotomy for Self-Injurious Behavior: Long term follow-up of two cases.
Rees COSGROVE, Erdong CHEN, Bruce PRICE, Darin DOUGHERTY
- OF05** Intraoperative neurophysiological monitoring in Dorsal Rhizotomy for Spasticity. Usefulness in a prospective series of 10 spastic diplegic patients. *George GEORGOULIS, Andrei BRINZEU, Marc SINDOU*

ROOMS

- OF06** The «iron sights» method to determine the orientation of directional deep brain stimulation electrodes using 3D rotational fluoroscopy. *Peter C. REINACHER, Marie T. KRÜGER, Mukesh SHAH, Roland ROELZ, Carolin JENCKNER, Karl EGGER, Volker Amd COENEN*
- OF07** Two Birds with One Stone: Single electrode Deep Brain Stimulation for dual targeting at dual frequency for the treatment of chronic pain. *Milo HOLLINGWORTH, Hugh SIMMS-WILLIAMS, Anthony PICKERING, Neil BARUA, Nikunj PATEL*
- OF08** New imaging insights in the technique of Motor Cortex Stimulation.
Erkan KURT, Dylan HENSEN, Maroeska ROVERS, Robert VAN DONGEN, Ruben Saman VINKE
- OF09** Delineation of cerebellar-thalamic fibers for deep brain stimulation. *Juergen SCHLAIER, Anton BEER, Max LANGE, Claudia FELLNER, Alexander BRAWANSKI, Judith ANTHOFER*
- OF10** Threats to DBS patients posed by the ethical debate about personal identity changes. *Sabine MÜLLER*

16:15-17:15 FP2-PARALLEL SESSIONS: FLASH PRESENTATIONS Bellevue

Moderators: Jung Il LEE, Constantin TULEASCA

- OF11** Effects of 5 weeks fornix deep brain stimulation in a transgenic Alzheimer rat model.
Aurelie LEPLUS WUERTZER, Denys FONTAINE, Frederic CHECLER, Lydia KERKERIAN LE GOFF
- OF12** Lateral Cerebellar Nucleus Stimulation Promotes Motor Recovery In A Rodent Model Of Traumatic Brain Injury.
Hugh CHAN, Connor WATHEN, Nicole MATHEWS, Jessica COOPERRIDER, Hyun-Joo PARK, Kenneth BAKER, Andre MACHADO
- OF13** DBS of the STN causes Impulsive Responses to Bursts of Evidence.
Dennis LONDON, Michael POURFAR, Alon MOGILNER
- OF14** Clinical Trial on Deep Brain Stimulation in subiculum for mesial temporal lobe epilepsy, an 18 months of follow-up.
Gustavo AGUADO CARRILLO, Manola CUELLAR HERRERA, Daruni VÁZQUEZ BARRÓN, Francisco VELASCO CAMPOS, Ana Luisa VELASCO MONROY
- OF15** Altered somatosensory cortex neuronal activity in a rat model of Parkinson's disease and levodopa-induced dyskinesias.
Mesbah ALAM, Regina RUMPEL, Xingxing JIN, Christof VON WRANGEL, Sarah TSCHIRNER, Joachim K KRAUSS, Claudia GROTHE, Andreas RATZKA, Kerstin SCHWABE
- OF16** Characteristic features of cortical and pallidal alpha and beta oscillations during ipsilateral and contralateral movements in Parkinson's disease. *Nicholas AUYONG, Mahsa MALEKMOHAMMADI, Andrew HUDSON, Nader POURATIAN*
- OF17** Response to Deep Brain Stimulation is Associated with Increased Resting State Connectivity in the Associative Basal Ganglia Circuit. *Anup BHATTACHARYA, John PEARCE, Mahdi ALIZADEH, Jennifer MULLER, Daniel KREMENS, Tsao-Wei LIANG, Ashwini SHARAN, Feroze MOHAMED, Chengyuan WU*
- OF18** Identification of a Resting State Biomarker for Prediction of Disease Severity in Parkinson's Disease.
Anup BHATTACHARYA, John PEARCE, Mahdi ALIZADEH, Jennifer MULLER, Daniel KREMENS, Tsao-Wei LIANG, Ashwini SHARAN, Feroze MOHAMED, Chengyuan WU
- OF19** Spikes and Field Potential Oscillations in the Nucleus Accumbens during Impulsivity: Evidence from Mice and Man.
Hemmings WU, Kai MILLER, Zack BLUMENFELD, Williams NOLAN, Vinod RAVIKUMAR, Karen LEE, Bina KAKUSA, Mathew SACCHET, Max WINTERMARK, Daniel CHRISTOFFEL, Brian RUTT, Helen BRONTE-STEWART, Brian KNUTSON, Robert MALENKA, Casey HALPERN
- OF20** Assessing the impact on bradykinesia and dyskinesia in patients with Parkinson's disease undergoing deep brain stimulation using a novel and objective automated assessment tool.
Bobby SACHDEV, Philip BUTTERY, Robert MORRIS

16:15-17:15 FP3-PARALLEL SESSIONS: FLASH PRESENTATIONS Tegel

Moderators: Mohammad MAAROUF, Alexandre RAINHA CAMPOS

- OF21** LRRK2+ R1441G and G2019S-related Parkinson's disease: are these mutations a distinctive inclusion criteria for DBS surgery?
Edume RUIZ DE GOPEGUI, Gaizka BILBAO, Juan Carlos GÓMEZ, Imanol LAMBARRI, Koldo BERGANZO, Beatriz TIJERO, Ainara DOLADO, Josu MENDIOLA, Olivia RODRIGUEZ, Rafael VILLORIA, Jose I PIJOÁN, Julene ESCUDERO, Iñigo POMPOSO

Potsdam I-III	
7:30-8:15	<p>BS5</p> <p>Challenging cases in epilepsy <i>Moderators:</i> Shabbar DANISH, Nitin TANDON <i>Speakers:</i> Robert GROSS, Kai LEHTIMAKI, Dirk VAN ROOST</p>
8:30-9:00	<p>KL6</p> <p>Emerging indications: disorders of memory, behaviour, mood and metabolism <i>Moderators:</i> Hidehiro HIRABAYASHI, Michael SCHULDER <i>Speaker:</i> Andres LOZANO</p>
9:00-10:00	<p>OPS06A</p> <p>Oral presentations <i>Moderators:</i> Hidehiro HIRABAYASHI, Michael SCHULDER</p>
10:00-10:30	COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
10:30-11:30	<p>OPS06B</p> <p>Oral presentations <i>Moderators:</i> Arthur CUKIERT, Veerle VISSER-VANDEWALLE</p>
11:30-12:00	<p>KL7</p> <p>Why have we had so many failed trials? <i>Moderators:</i> Arthur CUKIERT, Veerle VISSER-VANDEWALLE <i>Speaker:</i> Bart NUTTIN</p>
12:00-13:00	<p>LIS3-LIS4</p> <p>INDUSTRY-SPONSORED LUNCH SYMPOSIA <i>(contents page 46)</i></p>
13:00-14:00	
14:15-14:45	<p>KL8</p> <p>Neural transplantation <i>Moderators:</i> Hiroki TODA, Ethan TAUB <i>Speaker:</i> Stephane PALFI</p>
14:45-15:45	<p>OPS07</p> <p>Oral presentations <i>Moderators:</i> Hiroki TODA, Ethan TAUB</p>
15:45-16:15	COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
16:15-17:15	<p>FP4</p> <p>Flash presentations <i>Moderators:</i> Ahmed ALKHANI, Ryoong HUH</p>
17:15-17:45	<p>WU2</p> <p>Wrap up session - 3 presenters: <i>Moderators:</i> Keyoumars ASHKAN, Adrian LAXTON, Ido STRAUSS</p>
20:00	CONGRESS DINNER

Bellevue	Tegel
<p>BS4</p> <p>Radiosurgery for psychiatric disease, epilepsy, pain <i>Moderators:</i> Antonio DE SALLES, Marc LEVIVIER <i>Speakers:</i> Rees COSGROVE, Antonio DE SALLES, Motohiro HAYASHI</p>	<p>BS56</p> <p>Spasticity/Intrathecal baclofen treatment-indications, pearls and challenges <i>Moderators:</i> Nico ENSLIN, Patrick MERTENS <i>Speakers:</i> Nico ENSLIN, Patrick MERTENS, Marc SINDOU</p>
<p>Emerging indications: disorders of memory, behaviour, mood and metabolism <i>Moderators:</i> Hidehiro HIRABAYASHI, Michael SCHULDER - <i>Speaker:</i> Andres LOZANO</p> <p>in Potsdam I-III</p>	
COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
<p>Why have we had so many failed trials? <i>Moderators:</i> Arthur CUKIERT, Veerle VISSER-VANDEWALLE - <i>Speaker:</i> Bart NUTTIN</p> <p>in Potsdam I-III</p>	
<p>LIS5</p> <p>INDUSTRY-SPONSORED LUNCH SYMPOSIUM <i>(contents page 46)</i></p>	
<p>KL9</p> <p>Imaging the brainstem 7T and beyond <i>Moderators:</i> Volker COENEN, Mooseong KIM <i>Speaker:</i> Aviva ABOSCH</p>	<p>KL10</p> <p>Non-invasive stimulation for cognitive enhancement <i>Moderators:</i> Guido NIKKHAH, Cristina TORRES <i>Speaker:</i> Bahram MOHAMMADI</p>
<p>OPS08</p> <p>Oral presentations <i>Moderators:</i> Volker COENEN, Mooseong KIM</p>	<p>OPS09</p> <p>Oral presentations <i>Moderators:</i> Guido NIKKHAH, Cristina TORRES</p>
COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
<p>FP5</p> <p>Flash presentations <i>Moderators:</i> Saleh BAEESAH, Jairo ESPINOSA</p>	<p>FP6</p> <p>Flash presentations <i>Moderators:</i> Jung Tung LIU, Andre MACHADO</p>
<p>Wrap up session - 3 presenters: <i>Moderators:</i> Adrian LAXTON, Ashkan KEYOUMARS, Ido Strauss</p> <p>in Potsdam I-III</p>	<p>CT2</p> <p>Clinical Trials Session 2 <i>Moderators:</i> Albert FENOY, Craig VAN HORNE</p>
CONGRESS DINNER	

ROOMS
7:30-8:15 PARALLEL SESSIONS: BREAKFAST SESSIONS

- BS4** **RADIOSURGERY FOR PSYCHIATRIC DISEASE, EPILEPSY, PAIN** **Bellevue**
Moderators: Antonio DE SALLES, Marc LEVIVIER
Speakers: Rees COSGROVE, Antonio DE SALLES, Moto HAYASHI
- BS5** **CHALLENGING CASES IN EPILEPSY** **Postdam I-III**
Moderators: Shabbar Danish, Nitin Tandon
Speakers: Robert GROSS, Kai A LEHTIMAKI, Dirk VAN ROOST
- BS6** **SPASTICITY/INTRATHECAL BACLOFEN TREATMENT INDICATIONS, PEARLS AND CHALLENGES** **Tegel**
Moderators: Nico ENSLIN, Patrick MERTENS
Speakers: Nico ENSLIN, Patrick MERTENS, Marc SINDOU

8:30-9:00 PLENARY SESSION: KEYNOTE LECTURE

- KL6** **EMERGING INDICATIONS: DISORDERS OF MEMORY, BEHAVIOUR, MOOD AND METABOLISM** **Potsdam I-III**
Moderators: Hidehiro HIRABAYASHI, Michael SCHULDER
Speaker: Andres Lozano

9:00-10:00 OPS06A-PLENARY SESSION: ORAL PRESENTATIONS **Potsdam I-III**

- Moderators: Hidehiro HIRABAYASHI, Michael SCHULDER*
- OP26** Image-guided and image-verified DBS in a surgical theatre equipped with an MRI scanner: A 5-year experience.
R. Saman VINKE, Jonathan A. HYAM, Tsinsue CHEN, Thomas FOLTYNIE, Patricia LIMOUSIN, Marwan HARIZ, Ludvic ZRINZO
- OP27** Different stimulus response properties and short-term plasticity in subthalamic and nigral neurons in patients with Parkinson's disease. *Luka MILOSEVIC, Suneil KALIA, Mojgan HODAIE, Andres LOZANO, Milos POPOVIC, William Duncan HUTCHISON*
- OP28** Outcomes of a prospective, multicenter international registry of Deep Brain Stimulation for Parkinson's disease.
Jan VESPER, Karsten WITT, H. Maximilian MEHDORN, Andrea KÜHN, Michael T. BARBE, Veerle VISSER-VANDEWALLE, Monika PÖTTER-NERGER, Wolfgang HAMEL, Carsten BUHMANN, Paul ELDRIDGE, Roshini JAIN, Heleen SCHOLTES, Alex WANG, Guenther DEUSCHL
- OP29** The evolution of automatic microelectrode guided navigation for deep brain stimulation surgery.
Zvi ISRAEL, Dan VALSKY, Hagai BERGMAN
- OP30** Nucleus accumbens projections: validity and reliability of fiber reconstructions based on high-resolution diffusion-weighted MRI. *Thilo RUSCHE, Jörn KAUFMANN, Kristian LOEWE, Jürgen VOGES*

10:00-10:30 COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
10:30-11:30 OPS06B-PLENARY SESSION: ORAL PRESENTATIONS **Potsdam I-III**

- Moderators: Arthur CUKIERT, Veerle VISSER-VANDEWALLE*
- OP31** Surgical approach to the superolateral branch of the medial forebrain bundle (slMFB) for DBS in depression.
Volker Amd COENEN, Peter Christoph REINACHER, Jan BOSTROEM, Bettina H BEWERNICK, Susanne GRESCHUS, Burkhard MAEDLER, Horst URBACH, Thomas Eduard SCHLAEPPER
- OP32** Functional connectivity alterations of brainstem arousal centers in temporal lobe epilepsy. *Dario ENGLLOT, Pierre-Francois D'HAESE, Peter KONRAD, Monica JACOBS, John GORE, Bassel ABOU-KHALIL, Victoria MORGAN*

ROOMS

- OP33** Double-blind Randomized Trial of V1 Trigeminal Stimulation for Refractory Major Depression.
Alessandra GORGULHO, Fernando FERNANDES, Camila LASAGNO, Priscila BUENO, Lucas DAMIAN, Otavio BERWANGER, Ricardo A. MORENO, Antonio DE SALLES
- OP34** Deploying autologous peripheral nerve grafts in patients with Parkinson's disease at the time of deep brain stimulation surgery. *Craig VAN HORNE, Jorge QUINTERO, Julie GURWELL, Amelia ANDERSON-MOONEY, Andrew WELLEFORD, John LAMM, John SLEVIN, Greg GERHARDT*
- OP35** Direct Electrical Stimulation of the Amygdala Enhances Event-Specific Declarative Memory in Humans.
Cory INMAN, Joseph MANNS, Kelly BIJANKI, David BASS, Stephan HAMANN, Daniel DRANE, Rebecca FASANO, Christopher KOVACH, Robert GROSS, Jon WILLIE

11:30-12:00 PLENARY SESSION: KEYNOTE LECTURE **Potsdam I-III**

- KL7** **WHY HAVE WE HAD SO MANY FAILED TRIALS?**
Moderators: Arthur CUKIERT, Veerle VISSER-VANDEWALLE
Speaker: Bart NUTTIN

COMMITTEE MEETINGS

- 12:00-14:00 MEET4-PSYCHIATRIC COMMITTEE MEETING** **Tegel**
- 12:00-12:30 MEET5-SCIENCE COMMITTEE MEETING** **Kaminzimmer**
- 12:30-13:00 MEET6-INDUSTRY COMMITTEE MEETING** **Glienicke**
- 12:30-13:00 MEET7-EDUCATION COMMITTEE MEETING** **Kaminzimmer**
- 12:00-14:00 LIS3-LIS4-LIS5 INDUSTRY-SPONSORED LUNCH SYMPOSIA** *(Contents page 46)* **Potsdam I-III - Bellevue**

14:15-14:45 PARALLEL SESSIONS: KEYNOTE LECTURES

- KL8** **NEURAL TRANSPLANTATION** **Potsdam I-III**
Moderators: Ethan TAUB, Hiroki TODA
Speaker: Stephane PALFI
- KL9** **IMAGING THE BRAINSTEM-7T AND BEYOND** **Bellevue**
Moderators: Volker COENEN, Ashwin VISWANATHAN
Speaker: Aviva ABOSCH
- KL10** **NON-INVASIVE STIMULATION FOR COGNITIVE ENHANCEMENT** **Tegel**
Moderators: Guido NIKKHAH, Cristina TORRES
Speaker: Bahram MOHAMMADI

14:45-15:45 OPS07-PARALLEL SESSIONS: ORAL PRESENTATIONS **Potsdam I-III**

- Moderators: Hiroki TODA, Ethan TAUB*
- OP36** Sonication conditions influencing the efficacy and safety of blood-brain barrier modulation by low-intensity focused ultrasound. *Shin JAEWOO, Chang WON SEOK, Cho JAE SUNG, Lee JIHYUN, Na YOUNG CHUL, Jin Woo CHANG*
- OP37** Diffusion metrics and fiber tracts changes after MRI-Guided high intensity focused ultrasound surgery in a swine model.
Jidan ZHONG, Matthew WALKER, Adam WASPE, Looi THOMAS, Karolina PIORKOWSKA, James DRAKE, Mojgan HODAIE
- OP38** Segmenting the anterior limb of the internal capsule by structural connectivity: a potential tool for neuromodulatory targeting. *Pranav NANDA, Garrett BANKS, Yagna PATHAK, Justin OH, Sameer SHETH*

ROOMS

OP39 Localizing Ventral Intermediate nucleus of the thalamus using primary fiber direction. **Garrett BANKS, Nora VANEGAS-ARROYAVE, Sameer SHETH**

OP40 Caudate is involved in human associative learning. **Sarah BICK, Emad ESKANDAR**

14:45-15:45 OPS08-PARALLEL SESSIONS: ORAL PRESENTATIONS Bellevue

Moderators: Volker COENEN, Mooseong KIM

OP41 Four year outcomes of a prospective, multicenter study evaluating Deep Brain Stimulation with a new multiple-source, constant-current rechargeable system in Parkinson's disease. **Lars TIMMERMANN, Roshini JAIN, Nic VAN DYCK, Lilly CHEN, Thomas BRÜCKE, Fernando SEIJO, Esther SUAREZ SAN MARTIN, Veerle VISSER-VANDEWALLE, Michael T. BARBE, Steven GILL, Alan WHONE, Mauro PORTA, Domenico SERVELLO, François ALESCH**

OP42 Deep brain stimulation of subthalamic nucleus increases dopamine transporter binding in the ventral striatum in patients with Parkinson's disease. **Takao NOZAKI, Kenji SUGIYAKA, Tetsuya ASAKAWA, Hiroki NAMBA, Masamichi YOKOKURA, Tatsuhiko TERADA, Yasuomi OUCHI**

OP43 Long-term outcome and post-mortem studies of bilateral pallidotomy performed by Roeder and Orthner from Göttingen in the 1960's. **Wolfgang HAMEL, Johannes A KOEPPEN, Dieter MÜLLER, Marwan HARIZ, Christian Ke MOLL, Paul KRACK**

OP44 Clinical Outcomes of Asleep versus Awake Deep Brain Stimulation for Parkinson's Disease. **Kim BURCHIEL, Matthew BRODSKY, Shannon ANDERSON, Chad MURCHISON, Mara SEIER, Jennifer WILHELM, Kitty LEELAAMORNVICHET, Aaron VEDERMAN**

OP45 Surgical Revision Rescues Suboptimal Outcomes in Subthalamic Deep Brain Stimulation for Parkinson's Disease. **Robert NICKL, Martin REICH, Nicolo POZZI, Patrick FRICKE, Frank STEIGERWALD, Jonas ROTHANS, Mattias ÅSTRÖM, Ioannis ISAIAS, Ralf-Ingo ERNESTUS, Jens VOLKMANN, Cordula MATTHIES**

14:45-15:45 OPS09-PARALLEL SESSIONS: ORAL PRESENTATIONS Tegel

Moderators: Guido NIKKHAH, Cristina TORRES

OP46 Interaction patterns of brain activity across space and frequency in obsessive-compulsive disorder. **Katsushige WATANABE, Yasushi OKAMURA, Hiromi KAMO, Ayako ISOO, Sumito SATO, Makoto TANIGUCHI**

OP47 Deep brain stimulation of bed nucleus of stria terminalis in obsessive-compulsive disorder. **Matilda NAESSTRÖM, Patric BLOMSTEDT, Marwan HARIZ, Owe BODLUND**

OP48 Tau Accumulation and Neurodegeneration in Lobotomized Schizophrenic brains: Neuropathological Study coupled with Diffusion Tensor Imaging. **Yasushi OKAMURA, Ito KAWAKAMI, Katsushige WATANABE, Kazuhiro NIIZATO, Kenichi OSHIMA, Kenji IKEDA, Makoto TANIGUCHI, Yoshio HIRAYASU, Masahiko SAITO, Masaaki MATSUSHITA**

OP49 Deep Brain Stimulation (DBS) of the Accumbens Nucleus (NA), Ventral Striatum (VE) and Internal Capsule (IC) for medication resistant Obsessive Compulsive Disorder, multicentric prospective study on eight patients. **Cristina TORRES, Fernando SEIJO, Jesus MUÑIZ, Marta NAVAS, Elena EZQUIAGA, Elisa SEIJO, Juncal SEVILLA, Jesus PASTOR, Pedro GARCIA, Muñiz ISABEL, Vega-Zelaya LORENA, Beatriz LOZANO, Rg SOLA**

OP50 Deep brain stimulation for the early treatment of the minimally conscious state and vegetative state. **Darko CHUDY**

15:45-16:15 COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
16:15-17:15 FP4-PARALLEL SESSIONS: FLASH PRESENTATIONS Potsdam I-III

Moderators: Ahmed ALKHANI, Ryoong HUH

OF31 Fibre based optical techniques for guidance during stereotactic neurosurgery – a review. **Karin WÄRDELL**

OF32 Tractography-based VIM identification for deep brain stimulation: Initial results. **Vibhor KRISHNA, Aboubakr AMER, Francesco SAMMARTINO, Nicole YOUNG, Punet AGRAWAL, Barbara CHANGIZI, Ali REZAI**

OF33 Tailored Deep Brain Stimulation with directional leads for movement disorders: 12 months follow-up of a multicenter series. **Andrea LANDI, David PIRILLO, Massimo PIACENTINO, Giusy GUZZI, Angelo PADOAN, Clarissa CAVANDOLI, Andrea TREZZA, Angelo ANTONINI, Manuela PILLERI, Lorenzo VOLPIN, Erik SGANZERLA, Angelo LAVANO, Domenico D'AVELLA**

ROOMS

OF34 DIRECT DBS: A prospective, multi-center clinical study with blinding for a directional Deep Brain Stimulation (DBS) lead. **Frank STEIGERWALD, Jens VOLKMANN, Cordula MATTHIES, David BLUM, Leon JUAREZ PAZ, Kenny WYNANTS, Ljubomir MANOLA**

OF35 Therapy impedance reflects active contact location and associates with outcome after ANT-DBS in patients with refractory epilepsy. **Kai LEHTIMÄKI, Timo MÖTTÖNEN, Soila JÄRVENPÄÄ, Joonas HAAPASALO, Timo TÄHTINEN, Hannu ESKOLA, Juha ÖHMAN, Jukka PELTOLA**

OF36 Influence of Disease Lateralization in Movement Disorders on Fiber Tracking and Deep Brain Stimulation. **Lutz WEISE, Ron HILL, Johanna QUICK, Andrea HEBB, Matthias SCHMIDT**

OF37 Identifying postoperative structural MRI biomarkers of seizure freedom after temporal lobe epilepsy surgery. **Cameron ELLIOTT, Donald GROSS, B Matt WHEATLEY, Christian BEAULIEU, Tejas SANKAR**

OF38 Focal MRI findings as a positive predictor factor for good outcome in a large series of resective epilepsy surgery procedures. **Arthur CUKIERT, Cristine CUKIERT, Jose BURATTINI, Pedro MARIANI**

OF39 Behavior of post-radiosurgery tumor progression and treatment with magnetic resonance guided laser induced thermal therapy. **Purvee PATEL, Eric HARGREAVES, Shabbar DANISH**

OF40 Evolution of Stereotactic Targeting in Anterior Capsulotomy and Deep Brain Stimulation for Treatment Refractory Obsessive-Compulsive Disorder: A Systematic Review. **Justin OH, Yagna PATHAK, Pranav NANDA, Garrett BANKS, Sameer SHETH**

16:15-17:15 FP5-PARALLEL SESSIONS: FLASH PRESENTATIONS Bellevue

Moderators: Saleh BAEESAH, Jairo ESPINOSA

OF41 Is complete tumor ablation required for optimal tumor control? The effect of the extent of ablation on the rate of recurrence in MgLITT in the treatment of recurrent cerebral metastatic disease. **Mohammed IQBAL, Shabbar DANISH**

OF42 Frequency and Characterization of Speech Problems following DBS from the Product Surveillance Registry. **Mya SCHIESS, Steven FALOWSKI, George PLOTKIN, Stephane PALFI, Thomas WITT, Emmanuel CUNY, Tom THEYS, Kenneth MARTINEZ, Robert PLUNKETT, Yesin TEMEL, Gayle JOHNSON, Todd WEAVER, Joachim K. KRAUSS, Peter KONRAD**

OF43 Cervical and high-thoracic dorsal root ganglion stimulation (DRG) in chronic pain. **Philipp SLOTTY, Stefan SCHU, Jarek MACIACZYK, Vesper JAN**

OF44 Stereotactic thalamotomy and contralateral pallidotomy for Parkinson's disease. **Kostiantyn KOSTIUK, Kostiantyn KOSTIUK, Yuri MEDVEDEV, Andriy POPOV, Maxim SHEVELOV, Varelii CHEBURAKHIN, Nazar VASYLIV, Victor LOMADZE, Sergii DICHKO**

OF45 Visualization and computer-assisted classification of the microelectrode recording data in real time during STN DBS surgery. **Yaroslav PARPALEY, Manuel MACHADO LEMOS RODRIGUES, Sabine SKODDA, Andre WASCHK, Jens KRÜGER**

OF46 Early results of DBS Vs Lesioning in Parkinsons disease in Nepal. **Basant PANT**

OF47 Improved atypical tremor control after DBS directly targeting the dentatorubrothalamic tract. **Albert FENOY, Mya SCHIESS**

OF48 Target-specific deep brain stimulation of the ventral capsule/ventral striatum for the treatment of intractable obsessive-compulsive disorder. **Chencheng ZHANG**

OF49 INTREPID trial: a prospective, double blinded, multi-center randomized controlled trial evaluating Deep Brain Stimulation with a new multiple-source, constant-current rechargeable system in Parkinson's disease. **Jerrold VITEK, Philip A. STARR, Roshini JAIN**

OF50 The cerebello-thalamo-cortical network as the putative target in diffusion tensor imaging tractography - assisted DBS for tremor: an observational case series. **Volker Arnd COENEN, Thomas PROKOP, Bastian SAJONZ, Niels ALLERT, Burkhard MAEDLER, Horst URBACH, Peter Christoph REINACHER**

16:15-17:15 FP6-PARALLEL SESSIONS: FLASH PRESENTATIONS Tegel

Moderators: Andre MACHADO, Jung Tung LIU

OF51 Microsurgical re-decompression for recurrent trigeminal neuralgia after microvascular decompression. **Gökçe HATIPOGLU MAJERNIK, Shadi AL-AFIF, Joachim K. KRAUSS**

OF52 Changes in Intracortical Inhibition and Clinical Symptoms After STN-DBS in Parkinson's Disease. **Masahito KOBAYASHI, Takayuki OHIRA, Ban MIHARA, Takamitsu FUJIMAKI**

ROOMS

- OF53** Deep brain stimulation in routine clinical practice: monocentric study of the battery lifetime of different generations of neurostimulators. *Emmanuel DE SCHLICHTING, Ana-Raquel MARQUES, Aurélien MULLIEZ, Francois GAMPOUROU, Philippe DEROST, Bérangère DEBILLY, Jérôme COSTE, Guillaume COLL, Franck DURIF, Jean-Jacques LEMAIRE*
- OF54** GPi DBS rescue for severe dyskinesia or dystonia following STN DBS in Parkinson's Disease - dual or replacement therapy. *Raymond COOK, Paul SILBERSTEIN, Linton MEAGHER, George FRACCHIA*
- OF55** Differential approach to surgical management of facial pain. *Jamil RZAEV, Galina MOISAK, Elena KULIKOVA, Natalia DENISOVA, Amelin MIKHAIL, Eugenia AMELINA, Aleksandr SEMENOV, Pavel IVANOV, Konstantin SLAVIN*
- OF56** Tractography-guided Stereotactic Anterior Capsulotomy for Depression or OCD: Teaching an Old Procedure New Tricks. *Anujan POOLOGAINDRAN, Adi SULISTYANTO, Trevor HURWITZ, Andrew HOWARD, Christopher HONEY*
- OF57** Long term results of the selective dorsal rhizotomy. *Andrey DEKOPOV, Aleksey TOMSKY*
- OF58** Relationship between body mass index and efforts for optimal conditioning of STN-DBS. *Ryosuke TOMIO, Masahito KOBAYASHI, Ban MIHARA, Takayuki OHIRA, Takamitsu FUJIMAKI*
- OF59** Safe approach to the subthalamic nucleus. *Nelson E. QUINTANAL CORDERO, Rafael RODRÍGUEZ ROJAS*
- OF60** Sacral Nerve Neuromodulation for the Management of Intractable Bowel Incontinence. *Joon CHO, Moo Kyung SEONG, Joon CHO*
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- 17:15-17:45** **WU2-PLENARY SESSION: WRAP UP SESSION-3 presenters** **Potsdam I-III**
Moderators: Keyoumars ASHKAN, Adrian LAXTON, Ido STRAUSS
- 17:15-14:45** **CT2-CLINICAL TRIALS - SESSION 2** **Tegel**
Moderators: Albert FENOY, Craig VAN HORNE
- CT06** Enabling volitional motor control using spinal cord neuromodulation in a human patient with paraplegia. *Peter GRAHN, Dimitry SAYENKO, Meegan VAN STRAATEN, Megan GILL, Jeffrey STROMMEN, Igor LAVROV, Lisa BECK, Margaux LINDE, Jonathan CALVERT, Dina DRUBACH, Andrew THORESON, Cesar LOPEZ, Parag GAD, Aldo MENDEZ, Yury GERASIMENKO, V. Reggie EDGERTON, Kristin ZHAO, Kendall LEE, Kevin BENNET*
- CT07** A phase 1B trial evaluating the safety and feasibility of autologous peripheral nerve grafts in patients with Parkinson's disease. *Craig G VAN HORNE, Jorge E. QUINTERO, Julie A. GURWELL, Amelia J. ANDERSON-MOONEY, Andrew WELLEFORD, John R. LAMM, John T. SLEVIN, Greg A. GERHARDT*
- CT08** Real-time MRI-guided intraputaminatal AADC gene therapy for advanced Parkinson's disease. *Mark RICHARSON, Christine CHADWICK W., Krystof S. BANKIEWICZ, Amber VAN LAAR, Bernard RAVINA, Adrian KELLS, Brendon BOOT, Paul S. LARSON*
- CT09** Deep Brain Stimulation for Treatment Resistant Depression Clinical Trial. *Albert FENOY*
- CT10** Combined Anterior and Posterior Lumbar Rhizotomy for Treatment of Mixed Dystonia and Spasticity in Children with Cerebral Palsy. *Walid ABDEL GHANY, M. NADA, Ma. MAHRAN, Ma. NASEF, M. GABER, T. SABRY, Mh IBRAHIM, Mh TAHA*
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- 18:00-19:00** **COMMITTEE MEETINGS** **Kaminzimmer**
- MEET8** **WFNS STEREOTACTIC AND FUNCTIONAL NEUROSURGERY COMMITTEE**
- 20:00** **CONGRESS DINNER**

Wednesday 28 June - 20:00
WSSFN Congress Dinner at Kosmos


Become a part of German history and wander on the old path of communist East Berlin on the famous Karl-Marx-Allee. The social highlight of the WSSFN Congress will be set in the Kosmos, a vibrant movie theatre built in the 60s, which was completely renovated a few years ago. The seven regional society presidents will share some pleasant anecdotes with attending guests. This is an evening not to be missed! Share a delicious dinner with your colleagues and friends and relax while listening to our live band. Discover this magnificent venue with its «cosmic» atmosphere!


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Potsdam I-III

7:30-8:15	BS8	Surgical treatment and targets for obsessive compulsive disorder <i>Moderators: Clement HAMANI, Jian Guo ZHANG,</i> <i>Speakers: Keith MATTHEWS, Rick SCHUURMAN, Bomin SUN</i>
8:30-9:00	KL11	Thirty years of deep brain stimulation for disorders - Where are we now ? <i>Moderators: Young Hwan AHN, Konstantin SLAVIN</i> <i>Speaker: Alim BENABID</i>
9:00-10:00	OPS10	Oral presentations <i>Moderators: Young Hwan AHN, Konstantin V. SLAVIN</i>
10:00-10:30	COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
10:30-11:30	OPS11	Oral presentations <i>Moderators: Angelo FRANZINI, István VALÁLIK</i>
11:30-12:00	KL12	Treatment of Dystonia <i>Moderators: Angelo FRANZINI, István VALÁLIK</i> <i>Speaker: Joachim KRAUSS</i>
12:00-13:00	DEB1	DEBATES <i>Moderators: Stephan CHABARDES, Michael KAPLITT</i> Target localization: Microelectrode recordings are no longer necessary <i>Debaters: Marwan HARIZ vs Emad ESKANDAR</i> The controversial history of psychosurgery: what impact does our past have on our future? <i>Debaters: Takaomi TAIRA vs. Michael SCHULDER</i>
13:00-14:00	LUNCH BREAK	
14:15-15:15	MEET9	WSSFN General Assembly
15:15-15:45	KL13	Facial Pain <i>Moderators: Mojgan HODAIE, Ludvic ZRINZO</i> <i>Speaker: Kim BURCHIEL</i>
15:45-16:45	OPS12	Oral presentations <i>Moderators: Mojgan HODAIE, Ludvic ZRINZO</i>
16:45-17:15	COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM	
17:15-18:00	FP7	Flash presentations <i>Moderators: Soha ALOMAR, Ido STRAUSS</i>
18:00-18:45	CLOSING REMARKS / ORAL & POSTERS AWARDS	

Bellevue

BS7
Lesioning surgery for movement disorders
Pearls and pitfalls
Moderators: Benaissa ABDENNEBI, Kostiantyn KOSTIUK
Speakers: Erich FONOFF, Chris HONEY, Andrey SITNIKOV

BS9
Challenging cases in the treatment of pain
Moderators: Zeiad FAYED, Jamil RZAEV
Speakers: Byong CHUL SON, Konstantin SLAVIN, Andreas WLOCH

Thirty years of deep brain stimulation for disorders - Where are we now ?
Moderators: Young Hwan AHN, Konstantin SLAVIN - Speaker: Alim BENABID
in Potsdam I-III

COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM

Treatment of Dystonia
Moderators: Angelo FRANZINI, István VALÁLIK
Speaker: Joachim KRAUSS
in Potsdam I-III

DEBATES
Moderators: Stephan CHABARDES, Michael KAPLITT

Target localization: Microelectrode recordings are no longer necessary
Speakers: MARWAN Hariz vs Emad ESKANDAR
The controversial history of psychosurgery: what impact does our past have on our future?
Speakers: Takaomi TAIRA vs. Michael SCHULDER
in Potsdam I-III

LUNCH BREAK

KL15
New DBS electrodes
Moderators: Faisal AL-OTAIBI, Constantin TULEASCA
Speaker: François ALESCH

KL14
Controversies in MD treatment HiFU vs Radiosurgery
Moderator: Jean CIUREA, Andrey GOLANOV
Speaker: Jean RÉGIS

OPS13
Oral presentations
Moderators: Faisal AL-OTAIBI, Constantin TULEASCA

OPS14
Oral presentations
Moderators: Jean CIUREA, Andrey GOLANOV

COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM

FP8
Flash presentations
Moderators: Wilhelm EISNER, Pawel SOKAL

FP9
Flash presentations
Moderators: Miroslav GALANDA, Krasimir MINKIN

CLOSING REMARKS / ORAL & POSTERS AWARDS

ROOMS
7:30-8:15 PARALLEL SESSIONS: BREAKFAST SESSIONS

- BS7 LESIONING SURGERY FOR MOVEMENT DISORDERS - PEARLS AND PITFALLS** **Bellevue**
Moderators: Kostiantyn KOSTIUK, Benaissa ABDENNEBI
Speakers: Erich FONOFF, Andrey SITNIKOV, Chris HONEY
- BS8 SURGICAL TREATMENT AND TARGETS FOR OBSESSIVE COMPULSIVE DISORDER** **Potsdam I-III**
Moderators: Clement HAMANI, Jian GUO ZHANG
Speakers: Keith MATTHEWS, Rick SCHUURMAN, Bomin SUN
- BS9 CHALLENGING CASES IN PAIN** **Tegel**
Moderators: Zeiad FAYED, Jamil RZAEV
Speakers: Konstantin SLAVIN, Andreas WLOCH, Byong CHUL SON

PLENARY SESSION: KEYNOTE LECTURE-State of the art of Stereotactic and Functional Neurosurgery

- 8:30-9:00 KL11-THIRTY YEARS OF DBS FOR MOVEMENT DISORDERS-WHERE ARE WE NOW?** **Potsdam I-III**
Moderators: Young Hwan AHN, Konstantin SLAVIN
Speaker: Alim BENABID

9:00-10:00 OPS10-PLENARY SESSION: ORAL PRESENTATIONS **Potsdam I-III**
Moderators: Young Hwan AHN, Konstantin V. SLAVIN

- OP51** Hemispheric Analysis of Cerebellar Thalamic Deep Brain Stimulation on Voice Tremor: Is it Left, Right, or Both?
Adi SULISTYANTO, Anujan POOLOGAINDRAN, Olivia CHORNY, Murray MORRISON, Linda RAMMAGE, Zurab IVANISHVILI, Mini SANDHU, Nancy POLYHRONOPOULOS, Natasha SARAI, Christopher HONEY
- OP52** Simultaneous electrical stimulation of DBS electrodes and fMRI in movement disorders. *Stephen JONES, Hyun-Joo PARK, Kenneth BAKER, Pallab BHATTACHARYA, Mark LOWE, Andre MACHADO*
- OP53** Stereotactic accuracy of a compact, mobile intraoperative MRI. *Daniel MARKOWITZ, Dishen LIN, Sussan SALAS, Nina KOHN, Michael SCHULDER*
- OP54** Bilateral VIM Radiosurgery for severe Essential Tremor: preliminary results of a prospective trial.
Jean REGIS, Romain CARRON, Tatiana WITJAS
- OP55** Spinal cord stimulation improves anticipatory postural adjustment and freezing of gait in Parkinson disease in chronic implanted stn-dbs patients: Preliminary Data. *Carolina PINTO DE SOUZA, Carolina DE OLIVEIRA SOUZA, Andrea Cristina PARDINI, Daniel Boari COELHO, Luis Augusto TEIXEIRA, Erich FONOFF*

10:00-10:30 COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
10:30-11:30 OPS11-PLENARY SESSION: ORAL PRESENTATIONS **Potsdam I-III**
Moderators: Angelo FRANZINI, István VALÁLIK

- OP56** Functional Brain Imaging of DBS-treated Essential Tremor.
Amar AWAD, Patric BLOMSTEDT, Göran WESTLING, Johan ERIKSSON
- OP57** Patient-specific model of subthalamic local field potentials recorded from deep brain stimulation electrodes.
Nicholas MAILING, Scott LEMPKA, Cameron MCINTYRE
- OP58** Deep Brain Stimulation OfThe Ventral-Striatum And Ventral-Capsular Area For Post-Stroke Pain Syndrome.
Scott LEMPKA, Donald MALONE, Hu BO, Kenneth BAKER, Alexandria WYANT, Ela PLOW, Paul FORD, Andre MACHADO
- OP59** Radiofrequency stereotactic lesions versus chronic stimulation of anterior thalamic nuclei for treatment of epilepsy.
Andrey SITNIKOV, Yuri GRIGORYAN
- OP60** Feasibility and consistency of chronic visual cortex stimulation for vision restoration using an implanted neurostimulator.
Nader POURATIAN, Abirami MURALIDHARAN, Soroush NIKETEGHAD, Uday PATEL, Jessy DORN, Robert GREENBERG

11:30-12:00 PLENARY SESSION: KEYNOTE LECTURE **Potsdam I-III**
ROOMS

- KL12 TREATMENT OF DYSTONIA**
Moderators: Angelo FRANZINI, István VALÁLIK
Speaker: Joachim KRAUSS

12:00-13:00 DEB1-PLENARY SESSION: DEBATES **Potsdam I-III**
Moderators: Stephan CHABARDES, Michael KAPLITT

- TARGET LOCALIZATION: MICROELECTRODE RECORDINGS ARE NO LONGER NECESSARY**
Debaters: Marwan HARIZ vs Emad ESKANDAR

- THE CONTROVERSIAL HISTORY OF PSYCHOSURGERY: WHAT IMPACT DOES OUR PAST HAVE ON OUR FUTURE?**
Debaters: Takaomi TAIRA vs. Michael SCHULDER

13:00-14:00 LUNCH BREAK
14:15-15:15 MEET9-GENERAL ASSEMBLY **Potsdam I-III**
15:15-15:45 PARALLEL SESSIONS: KEYNOTE LECTURES

- KL13 FACIAL PAIN** **Potsdam I-III**
Moderators: Mojgan HODAIE, Ludvic ZRINZO
Speaker: Kim BURCHIEL

- KL14 CONTROVERSIES IN MD TREATMENT HIFU VS. RADIOSURGERY** **Tegel**
Moderators: Jean CIUREA, Andrey GOLANOV
Speaker: Jean RÉGIS

- KL15 NEW DBS ELECTRODES** **Bellevue**
Moderators: Faisal AL-OTAIBI, Constantin TULEASCA
Speaker: François ALESCH

15:45-16:45 OPS12-PARALLEL SESSIONS: ORAL PRESENTATIONS **Potsdam I-III**
Moderators: Mojgan HODAIE, Ludvic ZRINZO

- OP61** Thalamic Deep Brain Stimulation for neuropathic pain: efficacy at 3 years' follow-up. *Pedro MONTEIRO, Vasco ABREU, Rui VAZ, Pedro ABREU, Virginia REBELO, Maria José ROSAS, Paulo LINHARES, Martin GILLIES, Tipu AZIZ, Erlick PEREIRA*
- OP62** Bifocal thalamic deep brain stimulation for treatment of chronic neuropathic pain. *Mahmoud ABDALLAT, Andreas WLOCH, Joachim K. KRAUSS*
- OP63** Stereotactic anterior cingulotomy for intractable oncological pain. *Ido STRAUSS, Assaf BERGER, Shlomit BEN MOSHE, Tal GONEN, Rotem TELLEM*
- OP64** Extended dorsal root entry zone-lesioning for alleviating intractable arm pain following brachial plexus avulsion injury.
Makoto TANIGUCHI, Keisuke TAKAI, Hirokazu IWAMURO
- OP65** Deep Cerebellar Stimulation For Post-Stroke Motor Recovery: Early Trial Experience.
Kenneth BAKER, Ela PLOW, Scott LEMPKA, Andre MACHADO

15:45-16:45 OPS13-PARALLEL SESSIONS: ORAL PRESENTATIONS **Bellevue**
Moderators: Faisal AL-OTAIBI, Constantin TULEASCA

- OP66** Targeting of the Ventral intermediate Nucleus (VIM) of the Thalamus by Direct Visualization with High-Field MRI 3-Tesla: a follow-up. *Elad ETINGOLD, Roberto SPIEGELMANN*

ROOMS

- OP67** Voxel-based morphometry after Gamma Knife thalamotomy of the Vim for tremor could help discriminating clinical responders from non-responders the Vim nucleus for tremor. **Constantin TULEASCA, Tatiana WITJAS, Elena NAJDENOVSKA, VERGER, Nadine GIRARD, Jerome CHAMPOUDRY, Jean-Philippe THIRAN, Meritxell BACH CUADRA, Marc LEVIVIER, Eric GUEDJ, Jean RÉGIS**
- OP68** Radiofrequency (RF) lesions involving different fiber tract components of Prelemniscal radiations (Raprl) and their effect on individual Parkinson's disease symptoms. **Francisco VELASCO CAMPOS, Mauricio ESQUEDA, Guadalupe GARCIA-GOMAR, Abraham SOTO, Luis CONCHA**
- OP69** Correlations between the clinical results and the MR characteristics of the thalamic lesion in Vim Gammaknife radiosurgery for tremor. **Romain CARRON, Tatiana WITJAS, Giorgio SPATOLA, Cornel TANCU, Jean RÉGIS**
- OP70** Factors affecting stereotactic accuracy in image-guided deep brain stimulator electrode placement. **Kim BURCHIEL, Andrew KO, Aly IBRAHIM, Philippe MAGOWN**

15:45-16:45 OPS14-PARALLEL SESSIONS: ORAL PRESENTATIONS Tegel

Moderator: Jean CIUREA, Andrey GOLANOV

- OP71** Deep brain stimulation in patients with essential tremor using directional lead technology increases the therapeutic window – Preliminary results. **Nanna HARTONG, Imke GALAZKY, Jörn KAUFMANN, Lars BÜNTJEN, Jürgen VOGES**
- OP72** First experience with deep brain stimulation of the ventrolateral thalamus and subthalamic area with directional leads in 9 essential tremor patients. **Miriam SCHAPER, Alessandro GULBERTI, Chi-Un CHOE, Hanna BRAAB, Ute HIDDING, Carsten BUHMANN, Andreas Ak ENGEL, Christian GERLOFF, Manfred WESTPHAL, Johannes A KOEPPEN, Christian Ke MOLL, Monika POETTER-NERGER, Wolfgang HAMEL**
- OP73** Deep brain stimulation for refractory tics associated with Tourette syndrome: NCNP experience. **Masaki IWASAKI, Takanobu KAIDO, Yuiko KIMURA, Naoki IkeGAYA, Yuu KANEKO, Omori MAYU, Taisuke OTSUKI**
- OP74** Meta-analysis of 103 studies assessing adverse events associated with deep brain stimulation surgery and implanted hardware: proposal of categories suited for pro- and retrospective assessments. **Torge HUCKHAGEL, Katja ENGEL, Alessandro GULBERTI, Ute HIDDING, Monika POETTER-NERGER, Christian GERLOFF, Manfred WESTPHAL, Carsten BUHMANN, Christian Ke MOLL, Johannes A KOEPPEN, Wolfgang HAMEL**
- OP75** Real world clinical outcomes using a novel directional lead from a multicenter registry of Deep Brain Stimulation for Parkinson's disease. **Jan VESPER, Veerle VISSER-VANDEWALLE, Michael T. BARBE, Wolfgang HAMEL, Monika PÖTTER-NERGER, Carsten BUHMANN, Jens VOLKMANN, Andrea KÜHN, Alan WHONE, Roshini JAIN, Heleen SCHOLTES, Alex WANG, Guenther DEUSCHL**

16:45-17:15 COFFEE BREAK-VISIT OF THE EXHIBITION-VISIT OF THE POSTERS IN PAVILLON ROOM
17:15-18:00 FP7-PARALLEL SESSIONS: FLASH PRESENTATIONS Potsdam I-III

Moderators: Soha ALOMAR, Ido STRAUSS

- OF61** Stereoelectroencephalography for refractory localization-related epilepsy: initial experience in 50 patients. **Brett YOUNGERMAN, Justin OH, Yagna PATHAK, Garrett BANKS, Sameer SHETH, Neil FELDSTEIN, Guy MCKHANN**
- OF62** Clinical accuracy of customized stereotactic fixtures for Stereo-EEG. **Hong YU, Constantin PISTOL, Franklin ROLAND, Andrei BARBORICA**
- OF63** SEURAT: A semi-automated pipeline to localize and visualize intracranial electrodes. **Yagna PATHAK, Timothy DYSTER, Justin OH, Elliot SMITH, Sameer SHETH**
- OF64** Stimulation of the anterior nucleus of thalamus in patients with refractory epilepsy has a major effect on the number of seizures with impaired awareness. **Jukka PELTOLA, Soila JÄRVENPÄÄ, Sirpa RAINESALO, Timo MÖTTÖNEN, Joonas HAAPASALO, Juha ÖHMAN, Kai LEHTIMÄKI**
- OF65** Magnetic Resonance Guided Laser Interstitial Thermal Therapy for Mesial Temporal Lobe Epilepsy: A Single Institution Case Series. **Brett YOUNGERMAN, Justin OH, Emily CORRIGAN, Garrett BANKS, Neil FELDSTEIN, Sameer SHETH, Guy MCKHANN**
- OF66** Anatomical location of the Anteromedial Globus Pallidus internus nucleus (GPI) relative to the Mid-commissural point (MCP) in Deep brain stimulation surgery in Tourette syndrome (TS) patients. **Mansour PARVARESH, Alireza AZIMI, Ehsan SAMARBAFZADEH, Mohammad ROHANI, Gholamali SHAHIDI, Amir HABIBI**

ROOMS

- OF67** Systematic stereotactic error reduction using a calibration technique in single-brain-pass and multi-track deep brain stimulation. **Park SEONG-CHEOL, Chong Sik LEE, Seok Min KIM, Do Hee LEE, Jung Kyo LEE**
- OF68** Surgical treatment of drug-resistant epilepsies in Russian Federation. **Vladimir KRYLOV, Guekht ALLA, Igor TRIFONOV, Anna LEBEDEV, Igor KAIMOVSKII, Mikhail SINKIN**

17:15-18:00 FP8-PARALLEL SESSIONS: FLASH PRESENTATIONS Bellevue

Moderators: Wilhelm EISNER, Pawel SOKAL

- OF77** The Virtual Brain: biologically realistic network modeling merging structure and dynamics. **Viktor JIRSA, Romain CARRON, Jean RÉGIS**
- OF70** Stereotactic radiosurgery for patients with ten or more brain metastases. **Elliot SCHIFF, Luke SWASZEK, Jonathan KNISELY, Aditya HALTHORE, Sussan SALAS, Nina KOHN, Michael SCHULDER**
- OF71** Long term result of pallidal DBS for cervical dystonia. **Ryoong HUH**
- OF72** Deep Brain Stimulation of the caudal Zona Incerta: Stimulation induced side effects in relation to anatomy. **Erik ÖSTERLUND, Patric BLOMSTEDT, Anders FYTAGORIDIS**
- OF73** The effects of bilateral, continuous, and chronic Deep Brain Stimulation of the medial forebrain bundle in the Flinders Sensitive Line rodent model of depression. **Stephanie THIELE, Lisa-Marie PFEIFFER, Luciano FURLANETTI, Volker Arnd COENEN, Máté DÖBRÖSSY**
- OF74** Spinal cord stimulation for central poststroke pain. **Koichi HOSOMI, Mohamed ALY, Haruhiko KISHIMA, Satoru OSHINO, Youichi SAITOH**
- OF75** 2017: a year of multiple jubilee celebrations for functional stereotactic neurosurgery! **Marwan HARIZ, Patric BLOMSTEDT**
- OF76** Individual variations in the stereotactic position of prelemniscal radiations fiber components and its significance in the surgical treatment of Parkinson's disease patients. **Mauricio ESQUEDA, Guadalupe GARCIA-GOMAR, Luis CONCHA, Abraham SOTO, Francisco VELASCO CAMPOS**

17:15-18:00 FP9-PARALLEL SESSIONS: FLASH PRESENTATIONS Tegel

Moderators: Miroslav GALANDA, Krasimir MINKIN

- OF79** Burst or tonic stimulation? Results of a placebo controlled, double blinded, randomized study for the treatment of FBSS patients – 3y follow-up. **Vesper JAN, Jarek MACIACZYK, Philipp SLOTTY, Stefan SCHU**
- OF80** Global fiber tractography along propagation pathways of ictal epileptic activity in stereotactic stereo-EEG recording. **Julia M. NAKAGAWA, Ernst Thilo HAMMEN, Marco REISERT, Elias KELLNER, Irina MADER, Andreas SCHULZE-BONHAGE, Volker Arnd COENEN, Peter REINACHER**
- OF81** Combined approach for large vestibular schwannomas: planned subtotal resection followed by Gamma Knife surgery in a series of 40 consecutive cases. **Marc LEVIVIER, Constantin TULEASCA, Mercy GEORGE, Luis SCHIAPPACASSE, Maud MARGUET, Raphael MAIRE, Roy Thomas DANIEL**
- OF82** Early trigeminal nerve microstructure changes prognosticate long-term clinical outcome for trigeminal neuralgia after gamma knife radiosurgery. **Peter Shih-Ping HUNG, Mojgan HODAIE, Sarasa TOHYAMA**
- OF83** A novel method for stereotactic implantation neurosurgery based on individual rat coordinates derived from preoperative CT imaging coregistered to a stereotactic MR atlas. **Philippe DE VLOO, Janaki Raman RANGARAJAN, Kelly LUYCK, Marjolijn DEPREZ, Kris VAN KUYCK, Greetje VANDE VELDE, Johannes VAN LOON, Frederik MAES, Bart NUTTIN**
- OF84** Beta Band Analysis of Movement using Local Field Potential Recordings in STN During DBS Surgery in the Human Parkinson's Disease OFF State. **Ryan KOCHANSKI, Jay SHILS, Gian PAL, Leo VERHAGEN METMAN, Sepehr SANI**
- OF85** Deep brain stimulation of the H fields of forel alleviates tics in tourette syndrome. **Clemens NEUDORFER, Faycal EL MAJDOUB, Stefan HUNSCHKE, Klaus RICHTER, Volker STURM, Mohammad MAAROUF**
- OF87** Hemi-Laryngopharyngeal Spasm (HELPS) Syndrome: The Discovery, Characterization, and Cure of a New Neurosurgical Condition. **Christopher HONEY, Adi SULISTYANTO, Anujan POOLOGAINDRAN, Murray MORRISON**

18:00-18:45 CLOSING REMARKS, ORAL AND POSTER PRESENTATION AWARDS Potsdam I-III

BUSINESS

MEETINGS

Potsdam I-III	
TUESDAY 27 JUNE	
12:30-14:30	
18:00-19:00	
WEDNESDAY 28 JUNE	
12:00-12:30	
12:30-13:00	
13:30-14:00	
18:00-19:00	
THURSDAY 29 JUNE	
14:15-15:45	MEET9 WSSFN General Assembly

Tegel	Glienicke	Kaminzimmer
TUESDAY 27 JUNE		
		MEET2 WSSFN Board of Director's Meeting
		MEET3 SFN Editorial board meeting
WEDNESDAY 28 JUNE		
MEET4 Psychiatric Committee meeting		MEET5 Science Committee meeting
	MEET6 Industry Committee meeting	MEET7 Education Committee meeting
		MEET8 WFNS Stereotactic and Functional neurosurgery committee
THURSDAY 29 JUNE		

TUESDAY 27 JUNE

Bellevue 12:30-13:30 > Precise Control - Defining the size, shape, and direction of stimulation
 Vercise Directional System with Stimview™ Technology - Stephen Carciari (USA)
 Neurophysiology of Deep Brain Stimulation - Cameron McIntyre (USA)
 Clinical Experience with Vercise™ DBS Directional System - Jens Volkmann (Germany)
 Claudio Pollo (Switzerland)
 Moderators: Jens Volkmann (Germany) - Claudio Polo (Switzerland)



Tegel 13:30-14:30 > Frontiers of Stereotactic Neurosurgery
 1/ Asleep DBS and Leksell® Vantage™ Stereotactic System. Ludvic Zrinzo (UK)
 2/ Early experiences using Leksell® Vantage™ Stereotactic System for movement disorder surgery. Göran Lind (Sweden)
 3/ Functional Radiosurgery with Leksell Gamma Knife® Icon™. Jean Régis (France)



Tegel 18:00-18:45 > Automatic MER Navigation by Alpha Omega - HaGuide
 1/ University of Colorado's experience with HaGuide. Aviva Abosch (USA)
 2/ Future Vision of DBS Navigation. Hagai Bergman (Israel)


WEDNESDAY 28 JUNE

Potsdam I-III 12:00-13:00 > Transforming Deep Brain Stimulation
 Chairs: Joachim K. Kauss (Germany), Philippe Cornu (France)
 1/ Visualization of Neuronal Tissue Activation and implications in DBS Patient Management. Jens Volkmann (Germany)
 2/ The Journey from Stimulators to Restorative Nervous Systems. Steve Goetz (USA)



Potsdam I-III 13:00-14:00 > Stereotactic Excellence
 1/ Advancements in Functional Neurosurgery Using Brainlab Elements. Balint Varkuti (Brainlab)
 2/ Stereotaxy Applications with Brainlab Elements and Airo Intraoperative CT. Katharina Faust (Germany)
 3/ DTI Assisted Deep Brain Stimulation. Volker Coenen (Germany)



Bellevue 13:00-14:00 > Controversies in DBS
 1/ The Great Debate: Awake vs Asleep DBS Implantation. Marwan Hariz (UK) vs. Christina Torres (Spain)
 2/ 12 Months of Clinical Experience and optimizing directional DBS Systems. Jan Vesper (Germany)


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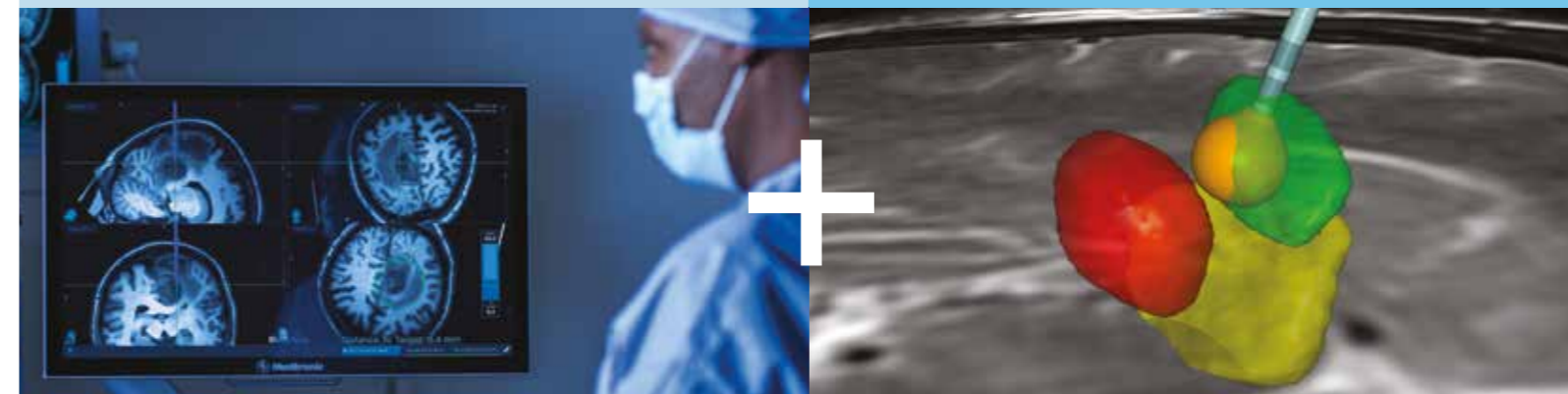
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POSTERS - Posters displayed during the whole Congress

- P001** Predictive factors of unfavorable events after gamma knife radiosurgery for vestibular schwannoma.
Ji Hee KIM, Hyun Ho JUNG, Jin Woo CHANG, Won Seok CHANG
- P002** Deep brain stimulation as novel approach for Alzheimer disease: the emerging ethics of research rationale.
Merlin BITTLINGER
- P003** Shortening of battery-life of Activa-PC-generators in Deep Brain Stimulation under use of adaptors?
Ann-Kristin HELMERS, Isabell LÜBBING, Karsten WITT, Hubertus Maximilian MEHDORN, Michael SYNOWITZ, Daniela FALK
- P004** Usefulness of segmented leads in anatomical variants of the brain.
Philipp SLOTTY, Youssef ABUSHABA, Jarek MACIACZYK, Vesper JAN
- P005** Dissociation between effect of STN-DBS and dopaminergic responsiveness 10 years after STN-DBS surgery.
Kenji SUGIYAMA, Takao NOZAKI, Tetsuya ASAKAWA, Hiroki NAMBA
- P006** Deep Brain Stimulation in Parkinson's disease : short pulse width increases the therapeutic window and the total energy delivered.
Walid BOUTHOUR, Jennifer WEGRZYK, Shahan MOMJIAN, Vanessa FLEURY, Emilie TOMKOVA CHAOUI, Pierre BURKHARD, Paul KRACK, André ZACHARIA
- P007** Comparison of battery-life of non-rechargeable Generators in Deep Brain Stimulation- Kinetra versus Activa-PC.
Ann-Kristin HELMERS, Isabell LÜBBING, Karsten WITT, Michael SYNOWITZ, Hubertus Maximilian MEHDORN, Daniela FALK
- P008** Usefulness of intraoperative neurophysiological monitoring in pallidal deep brain stimulation surgery in paediatric patients.
Santiago CANDELA, Alejandra CLIMENT, Vanesa THONON, Belén PÉREZ, María VANEGAS, Dario ORTIGOZA, Alejandra DARLING, Mariana ALAMAR, Jordi RUMIA, Enrique FERRER
- P009** Neuromate®(Renishaw®) robot assisted pallidal stimulation surgery in paediatric patients: accuracy and clinical results. Initial experience.
Santiago CANDELA, Belén PÉREZ, Jordi MUCHART, María VANEGAS, Alejandra DARLING, Dario ORTIGOZA, Monica REBOLLO, Mariana ALAMAR, Jordi RUMIA, Enrique FERRER
- P010** Use of Multiple Trajectories in Deep Brain Stimulation (DBS) of the Nucleus ventralis intermedii (VIM).
Larissa PENNER, Ann-Kristin HELMERS, Isabel LÜBBING, Steffen PASCHEN, Michael SYNOWITZ, Hubertus Maximilian MEHDORN, Daniela FALK
- P011** Brain shifts during deep brain stimulation found on immediate post-operative magnetic resonance image.
Kyung Rae CHO, Jung-II LEE
- P012** Does deep brain stimulation impair swimming performance: A randomized crossover study.
Sarah MORGAN, Omar BANGASH, Nataphoom BENJANUVATRA, Megan THORBURN, Ime DU PLESSIS, Christopher LIND
- P013** Learning more about the optimal anatomical position for deep brain stimulation in essential tremor patients: 3D visualisation of intraoperative stimulation test results.
Ashesh SHAH, Fabiola ALONSO, Jean-Jacques LEMAIRE, Daniela PISON, Jérôme COSTE, Karin WÄRDELL, Erik SCHKOMMODAU, Simone HEMM-ODE
- P014** Combining tractography-based cortico-subthalamic connectivity and electrode position to inform post-operative management of stimulation settings.
Mikkel V. PETERSEN, Torben E. LUND, Niels SUNDE, Karen ØSTERGAARD
- P015** Prepulse Inhibition is Modulated by Electric Stimulation of the Nucleus Subthalamicus in Parkinson's Disease.
Jared SCHUSTER, Imke GALAZKY, Maria KÜHNE, Silke SPECHT, Sven NULLMEIER, Hans-Jochen HEINZE, Tino ZAEHLE, Andreas KUPSCH, Jürgen VOGES, Patricia PANTHER
- P016** Postoperative lead movement after deep brain stimulation surgery and changes of stimulation area.
Nathanael GÖRANSSON, Johannes JOHANSSON, Fabiola ALONSO, Karin WÄRDELL, Peter ZSIGMOND
- P017** Comparison between intraoperative and chronic deep brain stimulation.
Fabiola ALONSO, Dorian VOGEL, Karin WÄRDELL, Simone HEMM
- P018** Identification and surgical management in suboptimal DBS lead placement.
Cordula MATTHIES, Robert NICKL, Patrick FRICKE, Martin REICH, Ralf-Ingo ERNESTUS, Jens VOLKMANN, Frank STEIGERWALD
- P019** Neurosurgical experience with segmented lead implantation for directional deep brain stimulation.
Patrick FRICKE, Robert NICKL, Frank STEIGERWALD, Martin REICH, Ralf-Ingo ERNESTUS, Jens VOLKMANN, Cordula MATTHIES
- P020** Comparison of lead localization in postoperative CT versus MRI.
Robert NICKL, Martin REICH, Patrick FRICKE, Frank STEIGERWALD, Jens VOLKMANN, Ralf-Ingo ERNESTUS
- P021** A device-based quantification and assessment of tremor in deep brain stimulation patients.
Rene Peter BREMM, Jorge GONÇALVES, Klaus Peter KOCH, Frank HERTEL
- P022** Accuracy of stereotactic electrode placement in deep brain stimulation by intraoperative computed tomography.
Wilhelm EISNER, Florian SOHM, Sebastian QUIRBACH, Thomas FIEGELE
- P023** Rescue DBS leads for persistent symptomatology following Subthalamic deep brain stimulation for Parkinson's disease.
Arash FAZL, Michael POURFAR, Alon MOGILNER
- P024** Dual-target Deep Brain Stimulation for Co-morbid Tourette's syndrome and Tardive Dyskinesia.
Michael POURFAR, Alon MOGILNER
- P025** Limiting brain penetrations during DBS surgery using an interventional-MRI guided DBS placement platform.
Azmi HOOMAN

- P026** Combination of CT angiography and MRI in surgical planning of Deep Brain Stimulation.
Marie Therese KRÜGER, Volker Arnd COENEN, Karl EGGER, Peter REINACHER
- P027** Rechargeable pacemaker technology in deep brain stimulation: a step forward, but not for everyone.
Joachim RUNGE, Mahmoud ABDALLAT, Assel SARYYEVA, Andreas WLOCH, Joachim K. KRAUSS
- P028** Improvement of dystonic storm after relocation of pallidal electrodes in dyst-6 positive generalized dystonia.
Lúisa CASSINI ASCENCAO, Martje E. VAN EGMOND, Marinus OTERDOOM, Assel SARYYEVA, Joachim RUNGE, Mahmoud ABDALLAT, Marina A.J. TIJSSEN, Joachim K. KRAUSS
- P029** Frame mounting and stereotactic accuracy: a phantom study.
Onur ALPTEKIN, Felix S GUBLER, Linda ACKERMANS, Pieter L. KUBBEN, Mark L. KUIJF, Ersoy KOCABICAK, Yasin TEMEL
- P030** Complications in Deep Brain Stimulation – Surgical Revision Approaches.
Diogo BELO, José Pedro LAVRADOR, María Begoña CATTONI, Herculano CARVALHO
- P031** Effect of frontal angle of approach on microelectrode recording and clinical parameters in STN-DBS surgery.
Mehmet TONGE, Josephine LINDHOUT, Ersoy KOCABICAK, Umit Akin DERE, Yasin TEMEL
- P032** Bilateral deep brain stimulation of the subthalamic nuclei in Parkinson's disease patients with camptocormic posture.
Fadi ALMAHARIQ
- P033** Psychosis immediately after the subthalamic nucleus lesion effect.
Atila YILMAZ, Bircan YUCEKAYA, Esra HUZMELI, Gulsah OZTURK, Esra OKUYUCU
- P034** The Effect of Vancomycin Powder on Surgical Site Infections in Deep Brain Stimulation Surgery.
Ryan KOCHANSKI, Nunna RAVI, Nazari POUYA, Sepehr SANI
- P035** Cardiovascular effects of deep brain electrical stimulation in human: the neurogenic heart systematic review.
Arif ABDULBAKI, Faisal AL-OTAIBI
- P036** Deep brain stimulation: software for patient-specific electric field simulations.
Karin WÄRDELL, Fabiola ALONSO, Johannes JOHANSSON
- P037** Factors influencing patients' choice of fixed life or rechargeable implantable pulse generators for deep brain stimulation.
Tahir KHALEEQ, Harutomo HASEGAWA, Keyoumars ASHKAN
- P038** Trajectory angle revisions in subthalamic deep brain stimulations for Parkinson's disease.
Park SEONG-CHEOL, Jung Kyo LEE, Chong Sik LEE
- P039** Deep Brain Stimulation Leads with Segmented Contacts Enable Directional Control of Neural Activation in the Subthalamic Nucleus.
Binith CHEERAN, Lalit VENKATESAN, Alexander KENT
- P040** Involvement of the subthalamic nucleus in the maintenance of cognitive flexibility: Evidence from local field potential recordings.
Lejla PARACKA, Marcus HELDMANN, Mahmoud ABDALLAT, Dirk DRESSLER, Thomas MÜNTE, Bruno KOPP, Florian WEGNER, Joachim K KRAUSS
- P041** Establishing Deep Brain Stimulation Surgery Program in developing countries; Shiraz (Southern Iran) Experience.
Ali RAZMKON, Sina SALEHI, Peyman PETRAMFAR
- P042** Oh Dear, the neurostimulator battery has depleted: Lund experience of the consequences of depleted neurostimulators.
Anna-Lena TÖRNQVIST JENSEN, Martina NILSSON, Hjalmar BJARTMARZ
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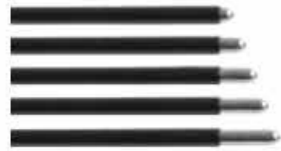
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