



World Society for
Stereotactic and Functional
Neurosurgery

21st WORLD CONGRESS OF STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

SAVE THE DATE
WSSFN
2026
30 September
03 October
Palais du Pharo
Marseille, FRANCE

Crédit photo : AdobeStock

www.wssfn2026.org

WSSFN OFFICERS

President:

Jean Régis, Marseille, France

Vice-President:

Mojgan Hodaie, Toronto, Canada

Secretary:

Paresh Doshi, Mumbai, India

Vice-Secretary:

Sameer Sheth, Houston, USA

Treasurer:

Patric Blomstedt, Umeå, Sweden

Past President:

Konstantin Slavin, Chicago, USA



GENERAL ORGANIZATION: MCO Congrès - Villa Gaby - 285 Corniche Kennedy - 13007 Marseille - France
Tél. : +33 (0)4 95 09 38 00 - www.mcocongres.com - Contact : Natalie Ruxton - natalie.ruxton@mcocongres.com

Wednesday 30 September

08:00

12:30

B10 - WORKSHOP

Fundamentals of S/F Neurosurgery (part I)

📍 Salle Major

Moderator : Patric BLOMSTEDT (Sweden), Michel LEFRANC (France)

08:00- 08:20 Introduction to the workshop.

Patric BLOMSTEDT (Sweden)

08:20- 08:40 Stereotaxis explained.

Joseph NEIMAT (USA)

08:40- 09:00 Anatomy of the thalamus & basal ganglia.

Amar Awad (Sweden)

09:00- 09:20 Atlases and atlas based targeting.

Emil ISAGULYAN (Russia)

09:20- 09:40 Stereotactic frames.

Gopalakrishnan Raghuram (India)

09:40- 10:00 Assessing inaccuracies in stereotactic frame and image fusion.

Chingiz Shaskin (Kazakhstan)

10:00- 10:10 Discussion.

10:10- 10:40 Break.

10:40- 11:00 Robots in stereotactic surgery.

Michel LEFRANC (France)

11:00- 11:20 Frameless stereotactic surgery.

Joseph NEIMAT (USA)

11:20- 11:40 Choosing a trajectory through the brain.

Parag Patil (USA)

11:40- 12:00 Pearls of Stereotactic Lesioning.

Takaomi TAIRA (Japan)

12:00- 12:20 Targeting for tremor- VIM/DRTT/Czi?

Atilla YILMAZ (Turkey)

12:20- 12:30 Discussion.

08:00
12:30

C10 - WORKSHOP

Psychiatric Neurosurgery

📍 Espace Vieux-Port

Moderator : Volker COENEN (Germany), Matilda NAESSTROM (Sweden)

08:00- 08:20 Understanding OCD, Depression and anxiety.

Matilda NAESSTROM (Sweden)

08:20- 08:40 Refractory OCD and Depression- Explained.

Osvaldo Vilela Filho (Brazil)

08:40- 09:00 Ethics and legal aspects of Psychiatric disorders surgery.

Bart NUTTIN (Belgium)

09:00- 09:20 Current status of Psychiatric surgery in various parts of the world and WSSFN taskforce efforts.

Volker COENEN (Germany)

09:20- 09:40 Is Lesioning in Psychiatric surgery still an option.

Roberto MARTINEZ ALAVAREZ (Spain)

09:40- 10:00 Discussion.

10:00- 10:30 Coffee Break.

10:30- 10:50 A Pilot Study of High-Intensity Focused Ultrasound Oscillation for Patients with Alzheimer's Disease.

Bomin Sun (China)

10:50- 11:10 DBS for Depression and OCD-current update on the targets.

Veerle VISSER-VANDEWALLE (Germany)

11:10- 11:30 Neural Biomarkers for treatment response in psychiatric disorders.

Nicole Provenza (USA)

11:30- 11:50 DBS for Depression- Personalized.

Nader Pouratian (USA)

11:50- 12:00 Discussion.

08:00
12:30

D10 - WORKSHOP

Imaging in Functional Neurosurgery

📍 Salle 120

Moderator : Jan-Patrick Stellmann (France), Sameer A. Sheth (USA)

08:00- 08:20 High field MR Tractography based targeting.

Jan-Patrick Stellmann (France)

08:20- 08:40 Correlating Anatomical findings to DTI: A more informed way of approaching DTI.

VANESSA MILANESE (Brazil)

08:40- 09:00 MRI sequences and techniques of Targeting STN.

Michael Schulder (USA)

09:00- 09:20 MRI sequences and techniques of Targeting Gpi.

Nicolas Kon Kam King (Singapore)

09:20- 09:40 Targeting for OCD and Tourette.

Hemmings WU (Taiwan)

09:40- 10:00 Targeting the Vim- Most optimal sites for stimulation and lesioning.

Ravi G. Varma (India)

10:00- 10:15 Discussion.**10:15- 10:45 Break.****10:45- 11:05 SEEG targeting for epilepsy.**

Chengyuan Wu (USA)

11:05- 11:25 What do we know about the various targets for Depression.

Sameer A. Sheth (USA)

11:25- 11:45 fMRI and resting-state fMRI - paradigms, accuracy and clinical application.

Suneil Kalia (Canada)

11:45- 12:05 Assessment of the direction of the direction lead.

Raj Agarbattiwala (India)

12:05- 12:30 Discussion/concluding remarks.**08:00**

12:30

E11 - WORKSHOP*Movement Disorders - Improving outcomes in DBS for Movement Disorders*

📍 Salle 76

Moderator : Joachim KRAUSS (Germany), Ahmed Alkhani (Saudi Arabia)**08:00- 08:15 Parkinson's disease.**

Alon Mogilner (USA)

08:15- 08:30 Dystonia.

Nico ENSLIN (South Africa)

08:30- 08:45 Tremors.

Takashi Morishita (Japan)

08:45- 09:00 Tourette syndrome.

Kyung Won Chang (Republic Of Korea)

09:00- 09:20 Dystonia classification and outcomes- an Update.

Joachim KRAUSS (Germany)

09:20- 09:40 Fine art of Asleep DBS.

Jonathan Lau (Canada)

09:40- 10:10 Coffee break.**10:10- 10:30 Spasticity- Update on Management.**

Haruhiko Kishima (Japan)

10:30- 10:50 Closed loop stimulation: Neural recording feedback.

Huiling Tan (United Kingdom)

10:50- 11:10 Programming advancements in DBS-current and future.

Jens Volkmann (Germany)

11:10- 11:30 Complications and avoidance in DBS.

Ahmed Alkhani (Saudi Arabia)

11:30- 11:50 Will MRgFUS replace DBS for Parkinson's disease.

Ludvic ZRINZO (United Kingdom)

11:50- 12:10 Three Challenging cases of DBS.

Erich Fonoff (Brazil)

12:10- 12:30 Discussion/Concluding remarks.

08:00

12:30

F10 - WORKSHOP*Hypothalamic Hamartoma*

📍 Salle 50bis

Moderator : Daniel Curry (USA), David Mathieu (Canada), Sarah Ferrand Sorbets (France)**08:00- 08:20 Role of SEEG in HH.**

to be confirmed

08:20- 08:40 Open approaches And TAIF.

Georg DORFMULLER (France)

08:40- 09:00 Endoscopy.

Sarah Ferrand Sorbets (France)

09:00- 09:20 Radiofrequency ablation.

Hiroshi Shirozu (Japan)

09:20- 09:40 LITT.

Daniel Curry (USA)

09:40- 10:00 Radiosurgery.

Jean RÉGIS (France)

10:00- 10:30 Coffee break.**10:30- 10:50 HIFU.**

John Ragheb (USA)

10:50- 11:10 Brachytherapy.

Andreas Schulze-Bonhage (Germany)

11:10- 11:30 Distant Abnormalities.

Hussein HAMDJ (France)

11:30- 11:50 Comprehensive Review of Neuropsychological outcome.

Alexander Weil (Canada)

11:50- 12:10 Comprehensive Review of endocrinological outcome.

Frédéric CASTINETTI (France)

12:10- 12:30 The patient perspective on surgery.

Lisa Soeby (USA), Emma NOTT (United Kingdom)

12:30

14:00

BK1 - BREAK - FREE TIME FOR LUNCH

14:00

18:30

B11 - WORKSHOP*Fundamentals of S/F Neurosurgery (part II)*

📍 Salle Major

14:00- 14:20 How to implant a DBS system.

Patric BLOMSTEDT (Sweden)

14:20- 14:40 DBS under general anesthesia assisted by MR image targeting and minimal intra-op MER procedure.

Shin Yuan Chen (Taiwan)

14:40- 15:00 Intraoperative evaluations in movement disorder surgery.

Hagai Bergman (Israel)

15:00- 15:20 MRI based targeting for Movement Disorders.

to be confirmed

15:20- 15:40 Pitfalls in DBS technique (from target localisation to lead anchorage).

Lorand ERÖSS (Hungary)

15:40- 15:50 Discussion.**15:50- 16:20 Break.****16:20- 16:40 Exploring DBS for future indication.**

Stephan CHABARDES (France)

16:40- 17:00 Understanding VTAs in DBS.

Karin Wårdell (Sweden)

17:00- 17:20 Evidence based MRgFUS lesioning.

Shiro Horisawa (Japan)

17:20- 17:40 The role of tractography and fMRI in stereotactic targeting.

Harith AKRAM (United Kingdom)

17:40- 18:00 Understanding MNI space and its application.

Andreas Horn (Germany)

18:00- 18:20 Stereotactic functional surgery for non movement disorders.

Kai Lehtimäki (Finland)

18:20- 18:30 Discussion.

14:00

18:30

C11 - WORKSHOP*Pain Surgery*

📍 Espace Vieux-Port

Moderator : Patrick MERTENS (France), Konstantin V. Slavin (USA)**14:00- 14:20 Peripheral nerve stimulation.**

Konstantin V. Slavin (USA)

14:20- 14:40 Guidelines for SCS in Chronic Pain-relevance across geographies.

Anne BALOSSIER (France)

14:40- 15:00 Why we have so many options for invasive Neuromodulation in Pain.

to be confirmed

15:00- 15:20 Closing the loop- automated control systems in pain.

Lawrence Poree (USA)

15:20- 15:40 Overcoming the barriers in Neuromodulation for Pain in developing countries.

Preeti Doshi

15:40- 16:00 Motor cortex stimulation-the challenge of indication and technique.

Patrick MERTENS (France)

16:00- 16:10 Discussion.

16:10- 16:40 Break.

16:40- 17:00 Lesional surgery for pain.

Ido STRAUSS (Israel)

17:00- 17:20 Non-invasive neuromodulation for pain.

Koichi Hosomi (Japan)

17:20- 17:40 Artificial intelligence in neuromodulation.

Robert Levy

17:40- 18:00 Anterior cingulate stimulation for pain.

Alexander Green (United Kingdom)

18:00- 18:20 The Neurovascular conflicts of the Cranial Nerves: Classifications and management as a field of Functional Neurosurgery.

Marc SINDOU (France)

18:20- 18:30 Discussion.

14:00

18:30

D11 - WORKSHOP

Lesioning Procedures in Functional Neurosurgery

📍 Salle 120

Moderator : Paresh Doshi (India), Marie KRÜGER (United Kingdom)

14:00- 14:20 Lesioning in psychiatric disorders.

Dwarakanath Srinivas

14:20- 14:40 LITT lesioning in functional neurosurgery.

NICOLAS REYNS (France)

14:40- 15:00 Brain lesioning for pain.

Ahmed Raslan (USA)

15:00- 15:20 Radiofrequency lesioning for Movement disorders.

Paresh Doshi (India)

15:20- 15:40 Radiofrequency lesioning for hypothalamic hamartoma.

Arthur Cukiert (Brazil)

15:40- 15:55 Discussion.

15:55- 16:25 Coffee break.

16:25- 16:45 Lesioning using focused ultrasound: Principles and techniques.

Vibhor Krishna (USA)

16:45- 17:05 SRS vs FUS for tremor.

Michael Schulder (USA)

17:05- 17:25 Pallidal v/s Pallidothalamic tract- Which Target for MRgFUS for PD.

Takaomi TAIRA (Japan)

17:25- 17:45 MRI tractography imaging for target accuracy.

Brian H. Kopell (USA)

17:45- 18:05 Selective functional rhizotomy for spasticity.

Patrick MERTENS (France)

18:05- 18:20 Discussion.

14:00

18:30

E10 - WORKSHOP

Epilepsy

📍 Salle 76

Moderator : **Jong Hyun Kim** (Republic Of Korea), **John D. Rolston** (USA)

14:00- 14:20 Surgically remediable epilepsy syndromes: Overview.

John D. Rolston (USA)

14:20- 14:40 Neuroimaging in epilepsy surgery workup.

Claire HAEGELEN (France)

14:40- 15:00 Current concepts in TLE.

Sophie COLNAT-COULBOIS (France)

15:00- 15:20 Decoding Cortical dysplasia.

Ben SHOFTY (USA)

15:20- 15:40 Stereo-electroencephalography (SEEG) Surgery Evolution from Mind to Robot and Artificial Intelligence.

Tak Lap POON (Hong Kong)

15:40- 15:50 Discussion.

15:50- 16:20 Coffee break.

16:20- 16:40 Virtual Brain In Epilepsy Surgery.

Viktor Jirsa (France)

16:40- 17:00 Deep brain stimulation.

Alexandre Boutet (Canada)

17:00- 17:20 LITT therapy.

NICOLAS REYNS (France)

17:20- 17:40 ANT lesioning in epilepsy.

Vibhor Krishna (USA)

17:40- 18:00 Responsive stimulation for intractable epilepsy.

Robert Gross (USA)

18:00- 18:20 Hemispherotomy for Epilepsy.

Faisal Al Oitabi (Saudi Arabia)

18:20- 18:30 Discussion.

14:00

18:30

F11 - WORKSHOP*Radiosurgery*

📍 Salle 50bis

Moderator : Antonio SANTACROCE (Germany), Manjul Tripathi (India), Josa Frischer (Austria)**14:00- 14:20 What are the limits of brain metastasis radiosurgery?**

Douglas S. Kondziolka (USA)

14:20- 14:40 Stereotactic Radiosurgery for Metastatic Brain Tumors: A Paradigm Shift and the Contributions of Japanese Pioneers.

Shoji Yomo (Japan)

14:40- 15:00 About the evolution of SRS technology.

Antonio SANTACROCE (Germany)

15:00- 15:20 A new frontier: Molecular Radiosurgery.

Selcuk PEKER (Turkey)

15:20- 15:40 The use of artificial intelligence for contouring in vestibular schwannoma radiosurgery.

David Mathieu (Canada)

15:40- 16:00 Very long term FU in meningiomas (more than 20 years).

Michele Longhi (Italy)

16:00- 16:30 Coffee Break.**16:30- 16:50 Fiber tracking in SRS.**

Mojgan Hodaie (Canada)

16:50- 17:10 BED level of evidence for clinical practice.

Constantin Tuleasca (Switzerland)

17:10- 17:30 The radiosurgical management of pediatric brain AVMs - challenges and outcome.

Josa Frischer (Austria)

17:30- 17:50 Microanatomical Dose Planning for Skull Base Tumors: A 25-Year Evolution Since Marseille.

Motohiro Hayashi (Japan)

17:50- 18:10 SRS for atypical meningiomas : over the past 20 years,.

Sergej MARASANOV (Croatia)

18:10- 18:30 Unruptured AVM : 10 years after ARUBA.

NICOLAS REYNS (France)

18:30

19:45

BK1bis - Opening Ceremony & Welcome Reception in the Exhibition

Thursday 01 October

07:10

07:30

BK2 - Light Breakfast

07:30

08:30

A20 - BREAKFAST SESSION 1

Global Functional Neurosurgery

📍 Auditorium 900

Moderator : Takaomi TAIRA (Japan), Gail Rosseau (USA), Lilyana Angelov (USA)

07:30- 07:50 Empowering Developing Countries to Achieve Excellence in Functional Neurosurgery.

Takaomi TAIRA (Japan)

07:50- 08:10 Lecture.

Lilyana Angelov (USA)

08:10- 08:30 Perspectives on Functional Neurosurgery in SubSaharan Africa.

Gail Rosseau (USA)

07:30

08:30

B20 - BREAKFAST SESSION 2

SEEG for resistant epilepsy . How to reexplore the failures?

📍 Salle Major

Moderator : Sophie COLNAT-COULBOIS (France), Lorand ERÖSS (Hungary)

07:30- 07:50 Mechanisms of failure.

Sami Obaid (Canada)

07:50- 08:10 The role of SEEG in reevaluations : indications, technical issues and results.

Sophie COLNAT-COULBOIS (France)

08:10- 08:30 Questions and discussion.

07:30

08:30

C20 - BREAKFAST SESSION 3

Adaptive stimulation in Parkinson's disease : practical application

📍 Espace Vieux-Port

Moderator : Alexandre Eusebio (France), Icíar Aviles-Olmos (Spain), Eduardo Martin Moraud (Switzerland)

Discussion of practical management of aDBS in actual patients.

Alexandre Eusebio (France), Icíar Aviles-Olmos (Spain), Eduardo Martin Moraud (Switzerland)

08:30

10:30

A21 - PLENARY SESSION 01

📍 Auditorium 900

Moderator : Jean RÉGIS (France), Stephan CHABARDES (France), Konstantin V. Slavin (USA), Alexandre Eusebio (France)

08:30- 09:00 New Indications for Functional Neurosurgery- DBS for epilepsy, coma and beyond.

John D. Rolston (USA)

09:00- 09:30 Imaging Brain Pain Networks.

Karen Davis (Canada)

09:30- 10:00 Chronic adaptive deep brain stimulation versus conventional stimulation in Parkinson's disease.

Andrea Kuehn (Germany)

10:00- 10:30 Artificial Intelligence for Neurosurgical Intelligence.

Douglas S. Kondziolka (USA)

10:30

11:00

A22 - KEYNOTE LECTURE

📍 Auditorium 900

Moderator : Jean RÉGIS (France)

New Insight on Body Brain Langage.

Pierre-Marie Lledo (France)

With interests ranging from brain development and brain disease to neuronal circuitry, P-M Lledo is best known for his studies of the interplay between sensory inputs and brain plasticity, when the malleability of the nervous system allows experiences to shape the lifelong wiring of the brain. His research has employed techniques from systems and molecular neuroscience to probe the mechanisms of neural wiring, the limits of early brain plasticity, and how such neuronal plasticity depends on neurogenesis throughout life. Such work could have profound implications for developmental disorders as well as learning, education and mood disorders.

11:00

11:30

BK3 - Coffee Break & Exhibition | ePosters Session 1

11:05

11:25

EP01-S03 - ePosters Session 1 - Screen 3

Spasticity | Brain Mapping | Neuro Physiology | Computer science and Imaging

Moderator : Antonio Gonçalves Ferreira (Portugal)

11:05- 11:10 EPC09 Stepwise Surgical Management in Severe Pediatric Cerebral Palsy: A Case of SDR, ITB, and DBS.

Jae Meen Lee (Republic Of Korea)

11:10- 11:15 EPC10 Subcortical and cortical evoked potentials recorded from externalized electrocorticography and deep brain stimulation leads reveal spatially selective pallidal-cortical connectivity.

Joshua Aman (USA)

11:15- 11:20 EPC11 Transcriptomic identification of RNA biomarkers reveals mutant huntingtin driven transcriptional and epigenetic dysregulation in early Huntington's disease.

Pardeep Kumar (India)

11:20- 11:25 EPC12 Speech Biomarkers for Parkinson's Disease Detection in Arabic Speakers Using Machine Learning.

Faisal Al Oitabi (Saudi Arabia)

11:05

EP01-S01 - ePosters Session 1 - Screen 1

11:25

*Movement Disorders***Moderator :** Kostiantyn KOSTIUK (Ukraine)**11:05- 11:10 EPC04 Lateral spread response in hemifacial spasm surgery: a comparative study of microvascular decompression with and without intraoperative monitoring.**

Duy Phan (Canada)

11:10- 11:15 EPC03 Risk factors for bleeding and infection following deep brain stimulation: a retrospective analysis of 604 surgeries.

Arif Abdulbaki (Germany)

11:15- 11:20 EPC01 Staged Bilateral MR-Guided Focused Ultrasound in Essential Tremor: Safety, Efficacy, and Rising Adoption of Second-Side Treatment.

Angeles Sanchez Fraga (USA)

11:20- 11:25 EPC02 Outcomes from Unilateral MR-Guided Focused Ultrasound Pallidothalamic Tractotomy for Advanced Parkinson's Disease.

Lindsay Knight (USA)

11:05

EP01-S02 - ePosters Session 1 - Screen 2

11:25

*Basic Sciences***Moderator :** Hagai Bergman (Israel)**11:05- 11:10 EPC05 Neural and Behavioral Correlates of Target Probability and Intertrial Interval in the Thalamic CM-Pf Complex.**

Marie Johne (Germany)

11:10- 11:15 EPC06 Monitoring of heart rate and activity for severity assessment in the unilateral and bilateral 6-OHDA rat Parkinson model.

Kerstin SCHWABE (Germany)

11:15- 11:20 EPC07 A miniaturised MD intracerebral Micro Array Electrode implant to characterise brain diseases in the long term (>3 weeks).

GAELLE OFFRANC PIRET (France)

11:20- 11:25 EPC08 Beyond pain relief: Quantitative motor recovery after percutaneous spinal cord stimulation in incomplete spinal cord injury.

Rene Marquez Franco (Germany)

11:30

A23 - Oral Presentation Session 01: Plenary I

12:30

📍 Auditorium 900

Moderator : Fabian Piedimonte (Argentina), Mazen KALLEL (France), Takaomi TAIRA (Japan), Harith AKRAM (United Kingdom)**11:30- 11:45 OP001 Tremor control symmetry after staged bilateral tractography-guided radiofrequency thalamotomy.**

Andrei Tarassov (Finland)

11:45- 12:00 OP002 Individual identification of the ventral intermediate nucleus of the thalamus to treat essential tremor with focused ultrasounds.

Eve RIGAULT (France)

12:00- 12:15 OP004 GAMMA KNIFE THALAMOTOMY FOR DRUG-RESISTANT ESSENTIAL TREMOR: ☒TARGETING BASED ON HARDY TRACTOGRAPHY.

Lina-Raffaella BARZAGHI (Italy)

12:15- 12:30 OP003 First-in-Human Phase 1 Study of Intracerebroventricular Injection of Autologous, Wnt-Activated, Adipose-Derived Stem Cells for the Treatment of Alzheimer's Disease.

Christopher Duma (USA)

12:30
12:50

A24 - WSSFN Distinguished Awards Ceremony and Presentations

 Auditorium 900

Moderator : **Andres LOZANO** (Canada), **Konstantin V. Slavin** (USA), **Jean RÉGIS** (France)

12:50
14:20

BK4 - Break and Exhibition | Industry Sponsored Lunches

14:20
15:20

A25 - Parallel Lectures: Movement disorders 1

 Auditorium 900

Moderator : **Paul Krack** (Switzerland), **Shiro Horisawa** (Japan), **Michael Schulder** (USA)

14:20- 14:35 Update on hemifacial spasm.

Ludvic ZRINZO (United Kingdom)

14:35- 14:50 How should we measure outcome ? UPDRS vs. QoL vs. wearables / remote assessments.

Jens Volkmann (Germany)

14:50- 15:05 Surgical workflow and reaching more patients for PD (asleep versus awake, image guided stimulation) .

Chingiz Shaskin (Kazakhstan)

15:05- 15:20 OPL01 Image-Guided Vim Deep Brain Stimulation under General Anaesthesia for Medically Refractory Tremor: Preliminary Institutional Experience.

Jordi RUMIA (Spain)

14:20
15:20

B25 - Parallel Lectures: Epilepsy Surgery 1

 Salle Major

Moderator : to be confirmed , **Steven Ojemann** (USA)

14:20- 14:35 Current Applications of Less Invasive Therapies in Medically Refractory Epilepsy: What Is the Role of Laser Ablation (LITT) and Radiosurgery Today?

Robert Gross (USA)

14:35- 14:50 Epilepsy surgery as a Disease modifying therapy: proof of concept in Focal cortical dysplasia.

Thomas BLAUWBLOMME (France)

14:50- 15:05 Translational Methods Workshop: From Digital Twin to OR in epilepsy surgery.

Viktor Jirsa (France)

15:05- 15:20 What is the role of Radiosurgery in Epileptic Hypothalamic Hamartomas.

David Mathieu (Canada)

14:20

15:20

C25 - Parallel Lectures: Pain 1

📍 Espace Vieux-Port

Moderator : **Mojgan Hodaie** (Canada), **Ido STRAUSS** (Israel), **Patrick MERTENS** (France)

14:20- 14:35 Pain Biomarker and clinical application.

Prasad Shirvalkar (USA)

14:35- 14:50 Imaging of facial pain.

Mojgan Hodaie (Canada)

14:50- 15:05 Neurosurgical approach to Facial Pain Beyond TN (DBS / ONS / PNS).

Denys FONTAINE (France)

15:05- 15:20 OPL02 A human brain network for chronic pain alleviation.

Valentina Lind (United Kingdom)

14:20

15:20

D25 - Parallel Lectures: Ablative Neuromodulation | Radiosurgery

📍 Salle 120

Moderator : **Antonio SANTACROCE** (Germany), **Motohiro Hayashi** (Japan), **Clement HAMANI** (Canada)

14:20- 14:35 FUS and thalamotomy for pain.

Marc Gallay (Switzerland)

14:35- 14:50 GKS thalamotomies for ET.

Andrea Franzini (Italy)

14:50- 15:05 Opening the Blood Brain Barrier with LIFU.

Clement HAMANI (Canada)

15:05- 15:20 OPL03 Mesencephalic Tractotomy for the Treatment of Cancer Pain: a single center experience.

Anne BALOSSIER (France)

15:20

16:20

A26 - Oral Presentation Session 02 - Movement Disorders

📍 Auditorium 900

Moderator : **Faisal Al Oitabi** (Saudi Arabia), **Atilla YILMAZ** (Turkey), **Tatiana Witjas** (France)

15:20- 15:30 OP005 Beta Power-Guided Programming After Deep Brain Stimulation of the Globus Pallidus Internus in Parkinson's Disease.

Kazuaki Yamamoto (Japan)

15:30- 15:40 OP006 Network determinants of stimulation-induced speech impairment after subthalamic DBS in Parkinson's disease.

Paul Krack (Switzerland)

15:40- 15:50 OP007 Raised low-frequency local field potential activity in a mixed dystonia cohort.

Jack Horan (Ireland)

15:50- 16:00 OP008 DBS-derived brain tissue sampling as an alternative to postmortem samples for analyzing cellular signatures of Parkinson's disease.

Johannes Kähkölä (Finland)

16:00- 16:10 OP009 Differential Effects on Episodic Memory of Substantia Nigra versus Subthalamic Nucleus Deep Brain Stimulation Mediated by Distinct Cortico-Subcortical Network Modulation in Parkinson's Disease.

Lin Shi (China)

16:10- 16:20 OP010 Dual Oscillatory Signatures in Pallidal Circuits Underlie Symptom Complexity in Huntington's Disease Patients.

Yichen Xu (China)

15:20

16:20

B26 - Oral Presentation Session 03 - Ablative Neuromodulation

📍 Salle Major

Moderator : Constantin Tuleasca (Switzerland), to be confirmed , Giorgio SPATOLA (Italy)

15:20- 15:30 OP011 Early volumetric reduction after radiosurgery in newly diagnosed cystic vestibular schwannoma of Koos grade III-IV.

Michael Schulder (USA)

15:30- 15:40 OP012 ET-specific WMnMPRAGE template improves visualization of VIM-related hypointensity for MRgFUS targeting.

Olivia Michalczyzyn (France)

15:40- 15:50 OP013 Gamma knife radiosurgery in large parasagittal meningiomas: comparing safety and efficacy of single-session and hypofractionated treatments.

Mehmet Ali Tepebasili (Turkey)

15:50- 16:00 OP014 Real-World Clinical Outcomes Using Radiofrequency Thermal Ablative Lesioning for Use in the Treatment of Movement Disorder Motor Symptoms.

Jan Vesper (Germany)

16:00- 16:10 OP015 Stereotactic Diffusion Tensor Tractography for Gamma Knife Stereotactic Radiosurgery : Evolution of Technique & Applications.

Cormac Gavin (United Kingdom)

16:10- 16:20 OP016 Model-Based Prediction and Quantitative Validation of Axial Lesion Shape in Magnetic Resonance-Guided Focused Ultrasound Thalamotomy.

Kazuaki Yamamoto (Japan)

15:20

16:20

C26 - Oral Presentation Session 04 - Pain

📍 Espace Vieux-Port

Moderator : Denys FONTAINE (France), Andrea Franzini (Italy)

15:20- 15:30 OP017 Precision Biomarkers for Trigeminal Neuralgia: Integrating Neurovascular Hemodynamics and Brain Connectivity to Guide Microvascular Decompression and Trigeminal Ganglion Stimulation.

Chenglong Cao (China)

15:30- 15:40 OP018 Long-term Treatment Outcome of Internal Neurolysis for Idiopathic Trigeminal Neuralgia and Potential Prospective Neuroimaging Biomarkers.

Min Wu (China)

15:40- 15:50 OP019 Accelerated brain and biological aging in trigeminal neuralgia.

Mojgan Hodaie (Canada)

15:50- 16:00 OP020 Brain activation to visual triggers in Trigeminal Neuralgia before and after Gamma Knife Radiosurgery treatment: a functional MRI analysis.

Edoardo Pompeo (Italy)

16:00- 16:10 OP021 Quantitative Multimodal MRI Characterization of Glossopharyngeal Neuralgia: An Imaging-Enriched Case Series.

Jason Yuen (Canada)

16:10- 16:20 OP022 Normalization of the hippocampus After microvascular decompression for trigeminal neuralgia is age and sex dependent.

Mojgan Hodaie (Canada)

15:20

16:20

D26 - Oral Presentation Session 05 - Psychiatric Disorders

📍 Salle 120

Moderator : Matilda NAESSTROM (Sweden), Volker COENEN (Germany), Roberto MARTINEZ ALAVAREZ (Spain)

15:20- 15:30 OP023 Sustained clinical improvement with nucleus accumbens/anterior limb of the internal capsule deep brain stimulation in obsessive–compulsive disorder: long-term efficacy beyond three years.

Fátima Ximena Cid Rodríguez (Germany)

15:30- 15:40 OP024 Obsessive Compulsive Disorder Deep Brain Stimulation made easy: bridging the gap towards a neurophysiology marker.

Idit Tamir (Israel)

15:40- 15:50 OP025 CURRENT CLINICAL MANAGEMENT PRACTICE OF SURGICAL TREATMENTS FOR TREATMENT-REFRACTORY OBSESSIVE COMPULSIVE DISORDER (OCD): A SURVEY OF NINE INTERNATIONAL CENTERS FROM THE WSSFN.

Matilda NAESSTROM (Sweden)

15:50- 16:00 OP026 Deep brain stimulation for obsessive-compulsive disorder: clinical outcomes and connectivity analyses.

Alexandre Baldasserini Guimaraes (Brazil)

16:00- 16:10 OP027 Clinical Efficacy of Combined Globus Pallidus Internus and Bed Nucleus of the Stria Terminalis Deep Brain Stimulation for Treatment-Refractory Tourette Syndrome.

Wei Liu (China)

16:10- 16:20 OP028 Long-term outcomes of tractography-guided anterior limb of the internal capsule deep brain stimulation for obsessive–compulsive disorder.

Raj Agarbattiwala (India)

15:20

16:20

E26 - Oral Presentation Session 05B - Brain Mapping| Neuro Physio

📍 Salle 76

Moderator : Joachim KRAUSS (Germany), Erich Fonoff (Brazil)

15:20- 15:30 OP029 Patient-specific structural connectivity of the basal ganglia predicts therapeutic effects of deep brain stimulation in Parkinson's Disease.

Ricardo Loução (Germany)

15:20- 15:25 EVOLUTION OF THE PREFRONTAL CORTEX CONNECTOME AND ITS RELATION TO DEEP BRAIN STIMULATION TARGET REGIONS FOR OCD AND DEPRESSION.

Volker COENEN (Germany)

15:25- 15:30 "Closing the loop": correlation of AI-Image-guided DBS contact distribution and subthalamic nucleus beta physiology in Parkinson's disease patients.

Marta Del Alamo (Spain)

15:40- 15:50 OP031 A mathematically defined, objective method for identifying significant mechanical interfaces of brain tissue in Deep Brain Stimulation Surgery.

Chengyuan Wu (USA)

15:50- 16:00 OP032 Externalized recordings indicate globus pallidus internus (GPi) - primary motor cortex coherence is spatially distributed within GPi and modulates with medication.

Michael Chankwon Park (USA)

16:00- 16:10 OP033 Tractography Vs. Canonical Targeting for Tremor Control- Randomized Controlled Trial (The TRACT Trial).

Lev Tov Lior (Israel)

16:10- 16:20 OP034 First-in-human safety and feasibility of a flexible graphene-based cortical interface for advanced neurophysiology and brain decoding.

David J. Coope (United Kingdom)

16:20

BK5 - Coffee Break & Exhibition | ePosters Session 2

17:00

16:25

EP02-S01 - ePosters Session 2- Screen 1

16:55

Movement Disorders

Moderator : Miroslav GALANDA (Slovakia)

16:25- 16:30 EPC13 The feasibility of staged bilateral radiofrequency lesioning for parkinson's disease.

Ming-Rui zhou (China)

16:30- 16:35 EPC14 Surgical strategies and clinical outcome of therapy-refractory tremor after initially successful Vim DBS.

Filippos Psochias (Germany)

16:35- 16:40 EPC15 Magnetic resonance-guided focused ultrasound thalamotomy for essential tremor: beneficial or harmful for gait and balance?

Javier Perez (Spain)

16:40- 16:45 EPC16 Artificial intelligence for targeting the ventral intermediate nucleus in focused ultrasound thalamotomy: a step toward safer and more precise treatment of essential tremor.

Shayan Moosa (USA)

16:25

EP02-S02 - ePosters Session 2- Screen 2

16:55

Epilepsy

Moderator : Kai Lehtimäki (Finland)

16:25- 16:30 EPC17 Peri-Insular Transventricular Limbic Lobotomy: An Anatomical Interpretation Of Hemispheric Disconnection Surgery In Adult Patients.

Chun Kee Chung (Republic Of Korea)

16:30- 16:35 EPC18 High intensity MRgFUS for drug resistant epilepsy - a preliminary report.

Yen Yu Lin (Taiwan)

16:35- 16:40 EPC19 Impact of Entry Trajectory Angle-to-Skull on Electrode Placement Accuracy in Robot-Assisted Stereoelectroencephalography.

Roh Haewon (Republic Of Korea)

16:40- 16:45 EPC20 Hemispherotomy in an Extremely Low-Weight Infant: The Lowest-Weight Case Reported to Date.

Yazeed Aldhfyhan (Saudi Arabia)

16:25

EP02-S03 - ePosters Session 2- Screen 3

16:55

Pain | Oncology

Moderator : Ido STRAUSS (Israel)

16:25- 16:30 EPC21 MRgFUS Ablation of the Posterior Central Lateral Thalamic Nucleus for Refractory Facial Neuropathic Pain: A Prospective Study.

Monica Lara ALMUNIA (Spain)

16:30- 16:35 EPC22 Glymphatic system alterations in trigeminal neuralgia before and after surgical treatment.

Mojgan Hodaie (Canada)

16:35- 16:40 EPC23 A 3D Printing–Based Training Model Improves Cadaveric Performance in Percutaneous Gasserian Ganglion Rhizotomy.

Özde SENOL AKBULUT (Turkey)

16:40- 16:45 EPC24 Frame-based stereotactic needle biopsy of brain tumors: A study of 215 cases.

Salim Bechraoui (Tunisia)

17:00

A27 - Flash Presentation Session 01 - Movement Disorders

18:00

📍 Auditorium 900

Moderator : Emil ISAGULYAN (Russia), Milind Sankhe (India)

17:00- 17:05 OF001 Robot-assisted unilateral MR-guided laser interstitial thermal therapy thalamotomy for essential tremor: 12-month clinical and safety outcomes.

Mickael AUBIGNAT (France)

17:05- 17:10 OF002 Long-term Outcomes and Tolerability of Adaptive Deep Brain Stimulation in Parkinson's Disease: A 36-Month Prospective Study.

Naoki Tani (Japan)

17:10- 17:15 OF003 Bridging clinical practice, advanced imaging and algorithm-based strategies for precision STN-DBS programming in Parkinson's disease.

Paolo Mantovani (Italy)

17:15- 17:20 OF004 Target-dependent postoperative weight gain after pallidothalamic tractotomy versus pallidotomy for dystonia.

Ryosuke Jozuka (Japan)

17:20- 17:25 OF005 Lesion Overlap With the Dentato-Rubro-Thalamic Tract (DRTT) Predicts Clinical Outcomes After MR-Guided Focused Ultrasound (MRgFUS) Thalamotomy for Essential Tremor.

Jong-Ho Ha (Republic Of Korea)

17:25- 17:30 OF006 Comparison of Motor Activity Between Adaptive and Conventional Deep Brain Stimulation in Parkinson's Disease Using Wearable Accelerometry.

Hideo Mure (Japan)

17:30- 17:35 OF007 Swi lesions after mrgfus may not represent true lesions, yet lesion size influences clinical outcomes: evidence from t2wi, clinical correlations, and reoperation mer.

Muneaki Hashimoto (Japan)

17:35- 17:40 OF008 Emergency Deep Brain Stimulation in Pediatric Dystonia: Case Series and Medium- to Long-Term Follow-Up.

Domitille BOMMIER-LAUR (France)

17:40- 17:45 OF009 Recovery of Balance Following High-Frequency Focused Ultrasound Thalamotomy in Essential Tremor: A Prospective Mini-BESTest Analysis.

Luyuan Li (USA)

17:45- 17:50 OF010 Clinical outcomes of double target VIM-PSA DBS for head tremor: connectomic fiber mapping of a programmable tremor corridor.

Anil Eray (Turkey)

17:50- 17:55 OF011 CARTESIA™ Directional pallidal stimulation in Parkinson's disease : Preliminary results of a randomised crossover study.

Victor NAKACHE (France)

17:55- 18:00 OF012 Artificial Intelligence for Targeting the Ventral Intermediate Nucleus in Focused Ultrasound Thalamotomy: A Step Toward Safer and More Precise Treatment of Essential Tremor.

Shayan Moosa (USA)

17:00

18:00

B27 - Flash Presentation Session 02 - Ablative Neuromodulation

📍 Salle Major

Moderator : David Mathieu (Canada), Michele Longhi (Italy), to be confirmed

17:00- 17:05 OF013 Influence of Neurovascular Conflict on the Outcome of Primary Gamma Knife Radiosurgery for Trigeminal Neuralgia: A Single-Center Retrospective Study.

Andrea Pizzi (Italy)

17:05- 17:10 OF014 Gamma Knife Radiosurgery for Glossopharyngeal Neuralgia: An International Multicenter Study.

Andrea Franzini (Italy)

17:10- 17:15 OF015 Evaluation of long-term radiation effect in patients with cerebral arteriovenous malformation treated using stereotactic radiosurgery.

Ping-Chuan Liu (Taiwan)

17:15- 17:20 OF016 The Irradiated Brain Volume Within 12 Gy Is a Predictor for Radiation-Induced Changes After Stereotactic Radiosurgery in Patients With Unruptured Cerebral Arteriovenous Malformations.

Wade HUAI-CHE YANG (Taiwan)

17:20- 17:25 OF017 Single-fraction Gamma Knife radiosurgery for pineal region meningiomas: a retrospective single-center cohort of 44 patients.

Ali Haluk DUZKALIR (Turkey)

17:25- 17:30 OF018 Survival of recurrent glioblastoma patients after Gamma Knife radiosurgery: a single-center experience.

Dogu Cihan YILDIRIM (Turkey)

17:30- 17:35 OF019 Hypofractionated gamma knife radiosurgery for large cerebral arteriovenous malformations: a retrospective cohort study of 54 patients.

Dogu Cihan YILDIRIM (Turkey)

17:35- 17:40 OF020 Stereotactic radiosurgery for brain metastases from male breast cancer: a multicenter retrospective study.

Ali Haluk DUZKALIR (Turkey)

17:40- 17:45 OF021 Efficacy and safety of Gamma-Knife stereotactic radiosurgery for essential and parkinsonian tremor: a prospective cohort.

Emile SIMON (France)

17:45- 17:50 OF022 Influence of gender on quality of life and self-perceived health after magnetic resonance-guided focused ultrasound thalamotomy.

Javier Perez (Spain)

17:50- 17:55 OF023 Safety and Efficacy of High-Dose Single-Fraction Neoadjuvant Gamma Knife Radiosurgery for Large Symptomatic Brain Metastases: A Single-Institution Analysis.

Hyun Ho Jung (Republic Of Korea)

17:55- 18:00 OF024 Radiosurgery in Very small intra-canalicular vestibular schwannoma.

Ghassen Souissi (France)

17:00
18:00

C27 - Flash Presentation Session 03 - Pain

📍 Espace Vieux-Port

Moderator : Marina RAGUZ (Croatia), Denys FONTAINE (France), Michael Chankwon Park (USA)

17:00- 17:05 OF037 Predictive factors of effectiveness of occipital nerve stimulation for chronic cluster headache: data from for the French ONS registry.

Denys FONTAINE (France)

17:05- 17:10 OF038 Sagittal trigeminal nerve angulation, neurovascular compression, and microvascular decompression outcomes.

Yixuan Zhao (Canada)

17:10- 17:15 OF039 Ventral tegmental area resting-state functional connectivity in trigeminal neuralgia differs by treatment response status.

Min Wu (China)

17:15- 17:20 OF040 Decreased hypothalamic volume in trigeminal neuralgia and recovery following radiosurgical pain relief.

Emili Adhamidhis (Canada)

17:20- 17:25 OF041 Microvascular decompression of trigeminal neuralgia with pontine lesions: impact of lesion etiology on clinical outcomes.

Filipe WOLFF FERNANDES (Germany)

17:25- 17:30 OF042 Vagoglossopharyngeal neuralgia: a comprehensive single-center comparative study with trigeminal neuralgia.

Filipe WOLFF FERNANDES (Germany)

17:30- 17:35 OF043 Evaluating the safety and efficacy of pituitary radiosurgery in the management of refractory chronic pain.

Khalid Sarhan (Egypt)

17:35- 17:40 OF044 Cyberknife Radiosurgery for Trigeminal Neuralgia: long-term results on a large homogeneous cohort of patients.

Livia Bianchi (Italy)

17:40- 17:45 OF045 Novel therapy of integrating dorsal root ganglion stimulation with transforaminal lumbar interbody fusion.

Michael Chankwon Park (USA)

17:45- 17:50 OF046 DTI alterations and changes in the thalamic nuclei in patients before the trial-period of spinal stimulation and implantation of a permanent system.

Egor Anisimov (Russia)

17:50- 17:55 OF047 Neuromodulation in Refractory Facial Pain: A Multidisciplinary Treatment Algorithm and Early Clinical Experience.

Marina RAGUZ (Croatia)

17:55- 18:00 OF048 MR-guided high-Intensity focused ultrasound targeting limbic associated brain circuits for chronic pain: an IPD-based meta-analysis.

Thomas Kinfe (Germany)

17:00

18:00

D27 - Flash Presentation Session 03BIS - Basic Science

📍 Salle 120

Moderator : Hagai Bergman (Israel), Thomas BLAUWBLOMME (France)

17:00- 17:05 OF025 Optogenetic inhibition of ventrolateral orbitofrontal cortex astrocytes facilitates ventrolateral periaqueductal gray glutamatergic activity to reduce hypersensitivity in infraorbital nerve injury rat model.

Minseok Ha (Republic Of Korea)

17:05- 17:10 OF026 Feasibility of real time intraparenchymal neuro-endoscope using robot attached optical coherence tomography for stereotactic brain surgery in large animal.

Jong-Ho Ha (Republic Of Korea)

17:10- 17:15 OF027 Spatial and transcriptomic profiling reveal cell-specific mechanisms of epilepsy in Focal Cortical Dysplasia Type II.

Thomas BLAUWBLOMME (France)

17:15- 17:20 A dynamic analysis pipeline for temporal characterization of deep brain stimulation effects on functional brain networks in Parkinson disease.

Chengyuan Wu (USA)

17:20- 17:25 OF029 Connectivity-informed targeting of the centromedian thalamic nucleus: simplifying network complexity using the CMN-HIVE framework for deep brain stimulation.

Efstathios Beys-Kamnarokos (Germany)

17:25- 17:30 OF030 Population Coding of Musical Pitch Perception.

Eric Cole (USA)

17:30- 17:35 OF031 10 kHz Low-intensity Deep Brain Stimulation of the Rostral Agranular Insular Cortex Alleviates Neuroinflammation and Pain in the Peripheral Neuropathic Pain Model.

Hyun Ho Jung (Republic Of Korea)

17:35- 17:40 OF032 Polymeric Nanoparticle Delivery of Obeticholic Acid Rescues Neuroinflammation and Motor Deficits in a Huntington's Disease Rat Model.

Ankush Kumar (India)

17:40- 17:45 OF033 Efficacy of the Phosphodiesterase-4 Inhibitor Ibudilast in Mitigating Neuroinflammation, Oxidative Stress, and Cognitive Decline in an Alzheimer's Rat Model.

Rohit Rajput (India)

17:45- 17:50 OF034 Zatoilmilast Attenuates Neuroinflammation and Preserves Dopaminergic Neurons in Preclinical Models of Parkinson's Disease.

Rahul Kumar (India)

17:50- 17:55 OF035 A High-Fidelity Cadaveric Platform for Subthalamic Nucleus Deep Brain Stimulation: A Comprehensive Model from Stereotactic Planning to Post-Implantation Anatomical Validation.

Deniz Kilic (Turkey)

17:55- 18:00 OF036 Top-down signaling from the medial prefrontal cortex to the inferior colliculus during an auditory oddball paradigm in rats.

Yannis Pflieger (Germany)

Friday 02 October

07:10

07:30

Bk7 - Light Breakfast

07:30

08:30

A30 - BREAKFAST SESSION 4

Psychiatry

📍 Auditorium 900

Moderator : Veerle VISSER-VANDEWALLE (Germany), Raphaëlle Richieri (France), Martijn Figee (USA)

OCD Registry.

Pablo ANDRADE (Germany)

Current affairs in psychiatry DBS A psychiatrist's view.

Martijn Figee (USA)

STN DBS in OCD.

Mircea POLOSAN (France)

07:30

08:30

B30 - BREAKFAST SESSION 5

DBS and epilepsy: an update

📍 Salle Major

Moderator : Claire HAEGELEN (France), Antonio Gonçalves Ferreira (Portugal)

07:30- 07:50 Connectivity and AN: is that help to predict the best outcome?

Frédéric Schaper (USA)

07:50- 08:10 CentroMedian stimulation in refractory epilepsy.

Arthur Cukiert (Brazil)

08:10- 08:30 How to improve ANT-DBS for epilepsy.

Kai Lehtimäki (Finland)

07:30

08:30

C30 - BREAKFAST SESSION 6

Photobiomodulation: new development

📍 Espace Vieux-Port

Moderator : Stephan CHABARDES (France), John Mitrofanis (Australia)

Mechanisms of action of Photobiomodulation in Parkinson's' disease.

John Mitrofanis (Australia)

Rationale and mechanism of action for intra cranial PBM in PD.

Cécile Moro (France)

Update on clinical results of intra cranial PBM for de novo Parkinsonian patients.

Stephan CHABARDES (France)

07:30

08:30

D30 - BREAKFAST SESSION 6Bis

Non Invasive Deep Brain Stimulation

📍 Salle 120

Moderator : Clemens NEUDORFER (USA), Jean-François Hak (France), Alexandre CARPENTIER (France)

Intravascular Stimulation.

Clemens NEUDORFER (USA)

Multimodal Temporal Interference (mTI) And Functional Neurosurgery.

Florian Missey (France), Christos LIONTAS (France)

Low FU Brain Stimulation.

Clement HAMANI (Canada)

08:00

12:00

E25 - Deep Brain Stimulation Nurses Association (DBSNA) session

📍 Salle 76

Coordinator : Russell Mills (United Kingdom)

Image guided DBS programming for Parkinson's disease and tremor with Cartesia leads.

Hussain Akbar (United Kingdom)

Managing DBS as the condition advances – end of life and palliative decision making.

Maxine Kavanagh (United Kingdom)

Adopting telehealth with remote DBS programming in clinical practice.

Joseph Candelario-Mckeown (United Kingdom)

Adapting to adaptive DBS for Parkinson's disease.

Silvia Satoloco (United Kingdom)

DBS for Paediatric Movement Disorders.

Sarah Perides (United Kingdom), Harutomo Hasegawa (United Kingdom)

- Paediatric patient selection
- Surgical considerations in paediatric DBS
- DBS programming for paediatric patients
- Complex cases in paediatric DBS surgery

08:30

11:00

A31 - PLENARY SESSION 02

📍 Auditorium 900

Moderator : Patric BLOMSTEDT (Sweden), Andres LOZANO (Canada), VANESSA MILANESE (Brazil), Hagai Bergman (Israel)

08:30- 09:10 Neurosurgery for cell- and gene-based therapies for Parkinson's disease: Are we finally getting there?

Stéphane PALFI (France)

09:10- 09:40 Advances in Thalamic Neuromodulation for Epilepsy: From Mechanisms to Clinical Application.

to be confirmed

09:40- 10:10 BCI : advances in BCI decoding for language impairment.

Edward Chang (USA)

10:10- 10:40 The Renaissance of Ablative Neuromodulation.

Jean RÉGIS (France)

10:40- 11:00 Best paper in Movement Disorders and Psychiatric Surgery 2024-2026.

Marwan HARIZ (Sweden)

11:00

BK8 - Coffee Break & Exhibition | ePosters Session 3

11:30

11:05

EP03-S01 - ePosters Session 3 - Screen 1

11:25

*Movement Disorders***Moderator :** Fabian Piedimonte (Argentina)**11:05- 11:10 EPC25 Acute and chronic local field potential recordings in dystonia – a systematic review.**

Jack Horan (Ireland)

11:10- 11:15 EPC26 Late-onset ataxia following thalamic deep brain stimulation for tremor linked to therapy escape.

Denys FONTAINE (France)

11:15- 11:20 EPC27 Deep Brain Stimulation Outcomes in Parkinson's Disease Patients With GBA1 Variants: A Systematic Review and Meta-analysis.

Amir Hegazi (Egypt)

11:20- 11:25 EPC28 A Volumetric MRI Study of Regional Brain Volume Differences Between Tremor-Dominant and PIGD Parkinson's Disease Subtypes.

GULSAH OZTURK (Turkey)

11:05

EP03-S03 - ePosters Session 3 - Screen 3

11:25

*Radiosurgery | Lesioning Technics***Moderator :** Michele Longhi (Italy)**11:05- 11:10 EPC33 Third Ventricle Width as a Predictor of Dysgeusia After MR-guided Focused Ultrasound Thalamotomy for Essential Tremor.**

Ho Sung Myeong (Republic Of Korea)

11:10- 11:15 EPC34 Safety and Efficacy of High-Dose Single-Fraction Neoadjuvant Gamma Knife Radiosurgery for Large Symptomatic Brain Metastases: A Single-Institution Analysis.

Junhyung Kim (Republic Of Korea)

11:15- 11:20 EPC35 Low-field strength MRI (0.55T) for stereotactic and functional neurosurgery using deep learning-based reconstruction algorithm.

Thomas Kinfe (Germany)

11:20- 11:25 EPC36 How do we FUS? A survey of periprocedural practices across the EMEA region.

Giorgia BULGARELLI (Italy)

11:05

EP03-S02 - ePosters Session 3 - Screen 2

11:25

Psychiatry Disorders

Moderator : Pepijn VAN DEN MUNCKHOF (The Netherlands)

11:05- 11:10 EPC29 Differential effects of subthalamic nucleus high-frequency stimulation on obsessive- and compulsive-like behaviors in rats.

Asuka Nakajima (Japan)

11:10- 11:15 EPC30 Dysarthria Risk in Centromedian–Parafascicular DBS for Tourette Syndrome: An Analysis of Volume of Tissue Activated and Stimulation Spread.

Yuiko KIMURA (Japan)

11:15- 11:20 EPC31 Effects of Low-Dose Intraventricular Baclofen Delivery via Osmotic Pump in a Traumatic Brain Injury.

Young Goo Kim (Republic Of Korea)

11:20- 11:25 EPC32 Focused ultrasound as a therapeutic modality in psychiatry: a systematic review of ablative and modulatory applications.

Alexandre Baldasserini Guimaraes (Brazil)

11:30
12:30

A32 - Oral Presentation Session 05: Plenary II

📍 Auditorium 900

Moderator : Rees Cosgrove (USA), Denys FONTAINE (France), Antonio Gonçalves Ferreira (Portugal)

11:30- 11:45 OP035 Picture naming: SEEG and connectivity insights.

Insafe MEZJAN (France)

11:45- 12:00 OP036 Sensory mapping of the brainstem trigeminal tract using deep brain stimulation in patients with trigeminal neuralgia.

Mélodie Grondin-Lavigne (Canada)

12:00- 12:15 OP037 Keyhole temporal lobectomy for drug-resistant epilepsy: a large single-center series with seizure freedom, neuropsychological preservation, and systematic early MRI quality control.

Sebastian Pavel (Romania)

12:15- 12:30 OP038 Clinical Efficacy Analysis of MRI-guided Focused Ultrasound for the Treatment of Refractory Obsessive-Compulsive Disorder.

Halimureti Paerhati (China)

12:30
14:00

⚡️ BK9 - Break and Exhibition | Industry Sponsored Lunches

14:00
15:00

A34 - Parallel Lectures: Ablative Neuromodulation

📍 Auditorium 900

Moderator : to be confirmed

14:00- 14:15 The Place for FUS, RF and Gamma Knife in movement disorders: Where are we going?

Rees Cosgrove (USA)

14:15- 14:30 Performing bilateral lesion using HIFU, GKS: better than RF?

Christian IORIO-MORIN (Canada)

14:30- 14:45 DBS versus lesioning in latin america.

Fabian Piedimonte (Argentina)

14:45- 15:00 OPL04 Focused ultrasound thalamotomy for essential tremor at Hospital Universitario Reina Sofía, Córdoba, Spain: longitudinal outcomes in a 188-patient mixed-effects analysis.

Juan Solivera (Spain)

14:00

15:00

B34 - Parallel Lectures: BCI | NEURO-REHABILITATION

📍 Salle Major

Moderator : Jocelyne BLOCH (Switzerland), Aviva Abosch (USA), Kendall H. Lee (USA)**14:00- 14:15 The Wimage implantable system: a long journey from the lab to the first clinical applications.**

Guillaume Charvet (France)

14:15- 14:30 Subthalamic nucleus encoding steers adaptive therapies for gait in Parkinson's disease.

Eduardo Martin Moraud (Switzerland)

14:30- 14:45 Neuralink and ALS.

Harith AKRAM (United Kingdom)

14:45- 15:00 OPL05 Generative deep learning reconstructs subcortical neural signals from cortical recordings for closed-loop brain stimulation.

Zixiao Yin (China)

14:00

15:00

C34 - Parallel Lectures: PSYCHIATRIC DISORDERS

📍 Espace Vieux-Port

Moderator : Volker COENEN (Germany), Mircea POLOSAN (France), Osvaldo Vilela Filho (Brazil)**14:00- 14:15 MFB for Major Depressive Disorder- an Udate.**

Volker COENEN (Germany)

14:15- 14:30 vALIC versus MFB versus STN for OCD.

Pepijn VAN DEN MUNCKHOF (The Netherlands)

14:30- 14:45 SEEG for Major Depressive Disorder.

Sameer A. Sheth (USA)

14:45- 15:00 CG 25 and Major Depressive Disorder: an overview.

Andres LOZANO (Canada)

14:00

15:00

D34 - Parallel Lectures: Imaging & Computer Science

📍 Salle 120

Moderator : Clemens NEUDORFER (USA), Viktor Jirsa (France), Rick SCHUURMAN (The Netherlands)**14:00- 14:15 Programming after psychiatric neurosurgery.**

Bomin Sun (China)

14:15- 14:30 Enhanced effectiveness of DBS: 7T diffusion imaging or neurophysiology?

Rick SCHUURMAN (The Netherlands)

14:30- 14:45 Translating the Transcriptome: A Connectomic Approach for Gene-Network Mapping and Clinical Application.

Clemens NEUDORFER (USA)

14:45- 15:00 Deciphering Cerebral Cortex complexity.

Jean-François Mangin (France)

15:00

16:00

A35 - Oral Presentation Session 06 - Movement Disorders

📍 Auditorium 900

Moderator : Tak Lap POON (Hong Kong), Vincenzo LEVI (Italy)**15:00- 15:10 OP039 DBS in dystonic tremor, GPi or PSA?**

Glöde Anton (Sweden)

15:10- 15:20 OP040 Longitudinal functional connectivity differences between DBS ON/OFF states in Essential Tremor.

Albert Fenoy (USA)

15:20- 15:30 OP041 Safety and efficacy of repeat focused ultrasound thalamotomy for tremor recurrence.

Rees Cosgrove (USA)

15:30- 15:40 OP042 Staged, bilateral focused ultrasound thalamotomy: Outcomes in a large, prospective cohort.

Rees Cosgrove (USA)

15:40- 15:50 OP043 Radiofrequency Versus Focused Ultrasound Thalamotomy: A Prospective Single-Centre Comparative Study of One-Year Outcomes.

Marie KRÜGER (United Kingdom)

15:50- 16:00 OP044 Characterizing phenotypes and predicting surgical outcomes from preoperative neuropsychological testing in essential tremor.

Haden Ray (USA)

15:00

16:00

B35 - Oral Presentation Session 07 - Epilepsy

📍 Salle Major

Moderator : Arthur Cukiert (Brazil), Konstantinos FOUNTAS (Greece)**15:00- 15:10 OP045 Stereotactic radiofrequency ablation of thalamic nuclei for drug resistant epilepsy: single and multitarget approach to epileptic networks.**

Basant Pant (Nepal)

15:10- 15:20 OP046 Efficacy of pulvinar nucleus stimulation in epilepsy: a systematic review and meta-analysis.

Alexandre Baldasserini Guimaraes (Brazil)

15:20- 15:30 OP047 Characterizing Inpatient Brain-Responsive Neurostimulation Procedures For Epilepsy From 2016 to 2022.

Vishad Sukul (USA)

15:30- 15:40 OP048 Connectivity between the seizure onset zone and the thalamus correlates with seizure outcomes in thalamic responsive neurostimulation.

Josue Avecillas-Chasin (USA)

15:40- 15:50 OP049 Multimodal imaging-guided stereo-EEG placement in focal epilepsy with subtle or absent lesions.

Peter REINACHER (Germany)

15:50- 16:00 OP050 Intrathalamic connectivity in focal and generalized epilepsies: mechanistic implications for neuromodulation.

Judah Huberman-Shlaes (USA)

15:00

16:00

C35 - Oral Presentation Session 08 - Spasticity

📍 Espace Vieux-Port

Moderator : Li Dianyou , Miroslav GALANDA (Slovakia)

15:00- 15:10 OP051 Management of Intrathecal Baclofen Therapy in China: A Single-Center Single-Surgeon Retrospective Analysis and Lessons Learned.

Zhengyu Lin (China)

15:10- 15:20 OP052 Selective Dorsal Rhizotomy: A Pioneering Approach to Pediatric HIV Encephalopathy.

FACUNDO VILLAMIL (Argentina)

15:20- 15:30 OP053 selectives neurotomies for relief of spasticity to upper limb (series of 62 cases).

Lila Mahfouf (Algeria)

15:30- 15:40 OP054 Evaluation of selective neurotomy for the upper limb spastic treatment using a personal goal-centered approach: a 1-year cohort study.

Flora JOUBAUD (France)

15:50- 16:00 OP056 Cerebellar Dentato–Rubro–Thalamic Tract Stimulation for Post-Stroke Spasticity and Motor Impairment: An Initial Three-Case Clinical Experience.

Magdalena Jabłońska (Poland)

15:00

16:00

D35 - Oral Presentation Session 09 - BCI | Neuro-Rehab | Misc

📍 Salle 120

Moderator : Aviva Abosch (USA), Kendall H. Lee (USA), Jocelyne BLOCH (Switzerland)

15:00- 15:10 OP057 Long-term cervical epidural stimulation for arm function re-recovery with chronic stroke.

Sheng-Tzung Tsai (Taiwan)

15:10- 15:20 OP058 An ECoG-based Brain-Computer Interface Driving Functional Electrical Stimulation for Hand Motor Compensation in Tetraplegia.

Lucas STRUBER (France)

15:20- 15:30 OP059 Brain computer interfaces for volitional command in motor disabled patients: a systematic review and individual participant meta-analysis.

Zhuo Duan (Germany)

15:30- 15:40 OP060 Brain Activity Changes Following Epidural Spinal Cord Stimulation for Motor Restoration in Spinal Cord Injury Patients.

Luigi Albano (Italy)

15:40- 15:50 OP061 Epidural Spinal Cord Stimulation Restores Walking in Chronic ASIA A Spinal Cord Injury: Expanding Patient Eligibility through Transcutaneous Screening.

Yang Lu (China)

15:50- 16:00 OP062 Network-Guided and Personalized Deep Brain Stimulation in Disorders of Consciousness: A Multimodal, Longitudinal Cohort Study.

Marina RAGUZ (Croatia)

15:00

16:00

E35 - Oral Presentation Session 09BIS - Misc

📍 Salle 76

Moderator : Terence Coyne (Australia), Ellen Air

15:00- 15:10 OP063 Single-center longitudinal experience with MRgLITT in pediatric neurosurgery: technical evolution, expanding indications, and MRI-driven planning.

Giuseppe Mirone (Italy)

15:10- 15:15 Volumetric outcomes of hypofractionated stereotactic radiosurgery for Koos Grade III and IV vestibular schwannomas: a comparative analysis.

Michael Schulder (USA)

15:15- 15:20 ⁶⁴Cu-DOTATATE-PET/MRI for radiosurgery planning in head and neck paragangliomas.

Michael Schulder (USA)

15:20- 15:30 OP065 Clinical and Radiological Outcomes in a series of 100 patients with perioptic meningiomas treated with Hypofractionated Gamma Knife Radiosurgery.

Alberto Franzin (Italy)

15:30- 15:40 OP066 Defining prognostic human brain networks for high-grade glioma.

Jai Sidpra (United Kingdom)

15:40- 15:50 Combined Anterior Capsulotomy and Nucleus Accumbens Lesioning for Refractory Psychiatric Disorders: A Clinical Outcomes Study.

Hussein IMRAN MOUSA (Iraq)

16:00

16:30

BK10 - Coffee Break & Exhibition | ePosters Session 4

16:05

16:25

EP04-S03 - ePosters Session 4 - Screen 3

Pain | Brain Mapping | Neuro Physiology

Moderator : Andrea Franzini (Italy)

16:05- 16:10 EPC45 Predictive Biomarker of Therapeutic Response to Spinal Cord Stimulation Using Resting-State Functional MRI.

Hayat BELAID (France)

16:10- 16:15 EPC46 Use of time-of-flight MRI in prognosticating outcomes after microvascular decompression for trigeminal neuralgia: A prospective observational study.

Pavana Veerabhadraiah (India)

16:15- 16:20 EPC47 Gender disparities in pain perception and sociodemographic factors in lumbar facet syndrome.

Arif Abdulbaki (Germany)

16:20- 16:25 EPC48 What are the acute cortical effects of spinal cord stimulation in neuropathic pain disorder: a quantitative electroencephalography analysis.

Rosana Brown (Brazil)

16:05

EP04-S01 - ePosters Session 4 - Screen 1

16:25

Movement Disorders

Moderator : Fahad Alotaibi (Saudi Arabia)

16:05- 16:10 EPC37 Effects of deep brain stimulation in the posterior subthalamic area on balance in essential tremor with and without head tremor.

Gjergji Cobani (Sweden)

16:10- 16:15 EPC38 Probabilistic sweet spot mapping in Essential Tremor: a comparative analysis of Vim and Zona Incerta Deep Brain Stimulation.

Vittoria Bucciarelli (Switzerland)

16:15- 16:20 EPC39 Visible Vim: Clinical importance and usefulness of direct targeting with fluid and white matter suppression (FLAWS) imaging at 3T MRI.

Sang Ryon Jeon (Republic Of Korea)

16:20- 16:25 EPC40 The influence of the ventricular size on the surgical targeting of the subthalamic nucleus in Parkinson's disease patients.

Luigi Gian Maria REMORE (Italy)

16:05

EP04-S02 - ePosters Session 4 - Screen 2

16:25

Epilepsy

Moderator : Erich Fonoff (Brazil)

16:05- 16:10 EPC41 Comparison of Prognosis After Microvascular Decompression in Combined and Single Hyperactive Dysfunction Syndrome of the Cranial Nerves.

Seung Hoon Lee (Republic Of Korea)

16:10- 16:15 EPC42 Brain age defines a structural signature of vagus nerve stimulation outcomes in children.

Timur Latypov (Canada)

16:15- 16:20 EPC43 Efficacy and Learning Curve Analysis of Vertical Approach Hemispherotomy for Drug-Resistant Epilepsy: A Single-Center Experience of 21 Consecutive Cases.

jie ren (China)

16:20- 16:25 EPC44 Deep Brain Stimulation for Post-Traumatic Cerebellar Ataxia and Anterograde Amnesia: Multitarget Approach with 6 Electrodes, Electrophysiological and Tractographic Validation.

William Omar Contreras Lopez (Colombia)

16:30

17:30

A36 - Flash Presentation Session 04 - Movement Disorders

📍 Auditorium 900

Moderator : Emmanuel DE SCHLICHTING (France), to be confirmed , Patricia Limousin (United Kingdom)**16:30- 16:35 OF054 Four-leads pallidal deep brain stimulation for primary generalized dystonia: efficacy and safety in 31 patients.**

Mohamad Ali EL SAWALHI (France)

16:35- 16:40 OF060 Chronic pallidal stimulation induced local field potential changes in dystonia.

Jack Horan (Ireland)

16:40- 16:45 OF049 Subthalamic nucleus oscillatory coupling during sleep is impaired in Parkinson's disease and associated with memory consolidation.

Zixiao Yin (China)

16:45- 16:50 OF050 Toward Optimal Targeting in Pallidothalamic Tractotomy for Dystonia: In Vivo and Ex Vivo Probabilistic Mapping of Motor Improvement and Weight Gain in Forel's Field H.

Masahiko Nishitani (Japan)

16:50- 16:55 OF051 Motor Evoked Potentials as a Predictor of Distance to Motor Tract: An Awake vs. Asleep DBS Assessment.

Allyster Klassen (Canada)

16:55- 17:00 OF052 Microelectrode recording characteristics during FGATIR-Guided direct targeting of the DRTT for tremor.

Francisco Aranda Godoy (Canada)

17:00- 17:05 OF053 Post-traumatic stress symptoms following awake deep brain stimulation surgery: prevalence, risk factors, and psychiatric validation.

Andrius Radziunas (Lithuania)

17:05- 17:10 OF055 Hand or Face? Redefining the Map of the Motor Thalamus to Restore Facial and Upper Limb Motor Deficits with Targeted Deep Brain Stimulation.

arianna damiani (USA)

17:10- 17:15 OF056 Comparative Analysis of Pneumocephalus Across Three Techniques in Deep Brain Stimulation Surgery.

Faisal Al Oitabi (Saudi Arabia)

17:15- 17:20 OF057 Artificial intelligence-based targeting may reduce tremor recurrence in MR-guided focused ultrasound thalamotomy for essential tremor.

Matteo Gionso (USA)

17:20- 17:25 OF058 Personalized tremor control targeting for MRgFUS using tractography.

Noam Shalem (Israel)

17:25- 17:30 OF059 Asymmetric Deep Brain Stimulation Targeting in Parkinson's Disease: Clinical Outcomes of STN-GPi Combination.

İsmail Şimşek (Turkey)

16:30

17:30

B36 - Flash Presentation Session 05 - Epilepsy

📍 Salle Major

Moderator : Giorgio SPATOLA (Italy), Ghassen Souissi (France), JORGE ROBERTO PAGURA (Brazil)

16:30- 16:35 OF066 Stereotactic neurosurgical approach for treatment of extratemporal epilepsy.

Kostiantyn KOSTIUK (Ukraine)

16:35- 16:40 OF061 Multinuclear thalamic sampling during SEEG reveals differential thalamic recruitment in focal epilepsy.

Riju Dahal (Nepal)

16:40- 16:45 Spread your wings and choose wisely: Rubral wing segmented by artificial intelligence versus red nucleus for crossed dentato-rubro-thalamic tract delineation.

Bastian SAJONZ (Germany)

16:45- 16:50 OF063 Intra-operative MRI as a gold-standard quality assurance modality in paediatric epilepsy disconnection surgery: a single-centre experience from Alder Hey Children's Hospital.

Milan Makwana (United Kingdom)

16:50- 16:55 OF064 Optimized Stereo-Electroencephalography-Guided Three-Dimensional Radiofrequency Thermocoagulation for Hypothalamic Hamartomas-Related Epilepsy: A Single-Center Experience in 69 Patients.

Dail Yang (China)

16:55- 17:00 OF065 Deep Brain Stimulation of the Anterior Nucleus of the Thalamus Is Effective in Drug-Resistant Epilepsy: A Series of 26 Cases.

Gaëtan POULEN (France)

17:00- 17:05 OF067 Deep brain stimulation of the anterior nucleus of the thalamus in lennox-gastaut syndrome: a viable therapeutic frontier?

Mohamad Ali EL SAWALHI (France)

17:05- 17:10 OF068 Tractography-based postoperative outcomes in opercular epilepsy.

Janine Hsu (USA)

17:10- 17:15 OF069 Disconnection over Volume Reduction: A Volumetric Analysis in Stereotactic Radiofrequency Disconnection of Hypothalamic Hamartomas.

Peter REINACHER (Germany)

17:15- 17:20 OF070 Genetic Surgical Outcomes in Drug-Resistant Epilepsy: A Tertiary Center Experience.

Yazeed Aldhfyan (Saudi Arabia)

17:20- 17:25 OF071 MRgFUS disconnection surgery for hypothalamic hamartoma-related epilepsy: case report and literature review.

Giuseppe K Ricciardi (Italy)

17:25- 17:30 OF072 Event-Triggered Visualization Identifies Distinct Ictogenesis Epileptiform Discharge Metamorphosis in Mesial Temporal Lobe Epilepsy.

Hai Sun (USA)

16:30
17:30

C36 - Flash Presentation Session 06 - Pain & Spasticity

📍 Espace Vieux-Port

Moderator : Andrea Franzini (Italy)

16:30- 16:35 OF072 Gasserian Ganglion Stimulation: Neuromodulation for Refractory Trigeminal Neuralgia.

FACUNDO VILLAMIL (Argentina)

16:35- 16:40 OF073 Where are the most effective contacts located for motor cortical stimulation? A large retrospective series.

Petru Isan (France)

16:40- 16:45 OF074 Deep brain stimulation of the central lateral posterior thalamic nucleus for neuropathic pain: A promising alternative to classical targets?

Maria Ripoll (Spain)

16:45- 16:50 OF075 Deep brain stimulation for trigeminal neuralgia secondary to a pontine lesion: pilot study on safety, feasibility, and early signs of pain improvement.

Mélodie Grondin-Lavigne (Canada)

16:50- 16:55 OF077 Adjunctive DREZotomy in Complex Regional Pain Syndrome Patients with Spinal Cord Stimulation for Breakthrough Pain.

Hyun Ho Jung (Republic Of Korea)

16:55- 17:00 OF078 Effectiveness of Spinal Cord Stimulation in patients with chronic postherpetic neuropathy.

Egor Anisimov (Russia)

17:00- 17:05 OF079 A Comparison of the Efficacy of Microvascular Decompression in Patients with Type I and Type II Trigeminal Neuralgia: A Retrospective Cohort Study of 245 Patients.

Batu Hergünel (Turkey)

17:05- 17:10 OF080 Ultra-early Gamma Knife stereotactic radiosurgery for trigeminal neuralgia (URGEnt-TN).

Tejas Sankar (Canada)

17:10- 17:15 OF076 Stereotactic radiofrequency anterior cingulotomy for intractable neuropathic pain.

Kostiantyn KOSTIUK (Ukraine)

17:15- 17:20 OF081 Interfascial Phenol Blocks Ultrasound-Guided for Shoulder Spasticity.

Hussein IMRAN MOUSA (Iraq)

17:20- 17:25 OF082 Goal Attainment Scaling in upper limb spasticity management. Development of a structured and ICF-based goal framework.

Flora JOUBAUD (France)

17:25- 17:30 OF083 Epidural Spinal Cord Stimulation for Spasticity Suppression in Chronic Spinal Cord Injury.

Luigi Albano (Italy)

16:30

17:30

D36 - Flash Presentation Session 06BIS - History | Brain Mapping

📍 Salle 120

Moderator : Jean-Baptiste Thiebaut (France), Brigitte GATTERBAUER (Austria), Haruhiko Kishima (Japan)

16:30- 16:35 OF084 Neurons in the Human Substantia Nigra Respond to Cognitive Boundaries and Predict Memory.

Lin Shi (China)

16:35- 16:40 OF085 Madame Albe-Fessard Honored on the Eiffel Tower.

Jean-Baptiste Thiebaut (France)

16:40- 16:45 OF086 Novel simultaneous stimulation and neurophysiologic recording in combined STN and VC/VS DBS for OCD identifies diurnal variation and possible biomarkers of disease severity.

Jonathan Heppner (Canada)

16:45- 16:50 OF087 Neurosurgery for neurogenic cough.

Chris HONEY (Canada)

16:50- 16:55 OF088 Voxel-Based Lesion–Symptom Mapping of the Human Thalamus Using MR-Guided Focused Ultrasound in Essential Tremor and Parkinson’s Disease.

Kyung Won Chang (Republic Of Korea)

16:55- 17:00 OF089 Theta Oscillations Facilitate Prefrontal–Hippocampal Interactions During Sequential Working Memory Processing.

Shikun Zhan (China)

17:00- 17:05 OF090 Geometric Bias in Stereo-EEG Depth Electrode Trajectories Shapes Functional Connectivity Estimates and Influences Clinical Interpretation.

Jiahao Chen (USA)

17:05- 17:10 OF091 A Decade of Stereotactic Surgery for Parkinson's Disease and Movement Disorders in Indonesia.

Achmad Fahmi (Indonesia)

17:10- 17:15 OF092 Intraoperative Cortico-Cortical Evoked Potentials for Connectivity-Guided Brain Tumor Surgery: Preliminary Results from a Prospective Study.

Szu-yen Pan (Taiwan)

17:15- 17:20 OF093 Disruption of Resting-State Interictal Hierarchical Dynamic Brain Connectome in Young Children with Epileptic Spasms: An fMRI–EEG Study.

Lelio GUIDA (France)

17:20- 17:25 OF094 Functional neurosurgery advances in Latin America: A systematic review.

Valentina Zorro (Colombia)

17:25- 17:30 OF095 The rise of functional stereotactic neurosurgery in Germany.

Thomas Kinfe (Germany)

19:30

BK11 - NETWORKING DINNER

20:00

Saturday 03 October

07:10

07:30

BK12 - Light Breakfast

07:30

08:30

A40 - BREAKFAST SESSION 7

How to perform DBS surgery under GA?

📍 Auditorium 900

Moderator : Ludvic ZRINZO (United Kingdom), Emmanuel CUNY (France), Jordi RUMIA (Spain)

07:30- 07:50 MER under GA.

Hagai Bergman (Israel)

07:50- 08:10 Surgery and image verified technic.

Ludvic ZRINZO (United Kingdom)

08:10- 08:30 Surgery with MER.

Fabian Piedimonte (Argentina)

07:30

08:30

B40 - BREAKFAST SESSION 8

Sense or non sense? The impact of waveform on neurostimulation.

An ecological debate based on ECAP and multiple waveform (INCL. Burst, 360° flex-burst, contour, DTM, FAST, HF) technology

📍 Salle Major

Moderator : Jan Vesper (Germany), Philippe RIGOARD (France)

07:30- 07:50 An Overview on Evidence for ECAP/DTM and different Waveform (BURST/FAST/CONTOUR/HF) Technology.

Jan Vesper (Germany)

07:50- 08:10 SCS for Diabetic Neuropathic Patient mixing Waveforms: Long-term RCT Results.

Cécile De Vos (The Netherlands)

08:10- 08:30 ECAP vs MULTIPLE WAVEFORM Technology: Is there any competition here regarding patient outcome and energy consumption?

Philippe RIGOARD (France)

07:30

08:30

C40 - BREAKFAST SESSION 9

Where Tractography Meets Anatomy

📍 Espace Vieux-Port

Moderator : VANESSA MILANESE (Brazil), Marwan HARIZ (Sweden), Erich Fonoff (Brazil)

07:30- 07:50 The Tracts Behind the Tremor: DRTT, Guillain- Molaret Triangle and the Art of Targeting.

Volker COENEN (Germany)

07:50- 08:10 Beyond the GPI: Pallidothalamic Pathways and the Secrets of Dystonia Surgery.

VANESSA MILANESE (Brazil)

08:10- 08:30 Between Anatomy and Illusion: The Real Value of Tractography.

Harith AKRAM (United Kingdom)

08:30

11:00

A41 - PLENARY SESSION 03

📍 Auditorium 900

Moderator : Paresh Doshi (India), Bart NUTTIN (Belgium), Sameer A. Sheth (USA), Ahmed Alkhani (Saudi Arabia)**08:30- 09:00 Level of Evidence for Indications in Psychiatric Surgery.**

Volker COENEN (Germany)

09:00- 09:30 From adaptive deep brain stimulation to adaptive circuit targeting.

Andreas Horn (Germany)

09:30- 10:00 BCI for spinal cord injury: where are we going?

Grégoire Courtine (Switzerland), Jocelyne BLOCH (Switzerland)

10:00- 10:30 Focused Ultrasound Neuromodulation in Parkinson's Disease: From Circuits to Therapy.

Can SARICA (Turkey)

10:30- 11:00 Multimodal concepts of connectome/meta-networking organization of the brain.

Hugues DUFFAU (France)

11:00

11:30

BK13 - Coffee Break & Exhibition

11:30

12:30

A42 - Oral Presentation Session 09: Plenary III

📍 Auditorium 900

Moderator : to be confirmed , Matilda NAESSTROM (Sweden), Ludvic ZRINZO (United Kingdom), Cristina TORRES DÍAZ (Spain)**11:30- 11:45 OP069 Structural and Functional Connectivity Differences underlying Rebound Tremor in Deep Brain Stimulation.**

Albert Fenoy (USA)

11:45- 12:00 OP070 Deep brain stimulation surgical timing, outcomes, and prognostic factors in patients with Parkinson's disease: A retrospective cohort study of multicenter 10-year experience.

Shu Wang (China)

12:00- 12:15 OP071 Putamen Atrophy as a Predictive Factor of Efficacy of GPi-DBS in Dystonia-Dyskinesia Syndrome Secondary to Perinatal Anoxic Encephalopathy.

Gaëtan POULEN (France)

12:15- 12:30 OP072 Five-year outcomes following unilateral MR-guided focused ultrasound pallidotomy in Parkinson's disease.

Vibhor Krishna (USA)

12:30

12:30

BK14 - Break & Exhibition | Industry Sponsored Lunches

13:30

13:30

14:30

A42b - WSSFN General Assembly

📍 Auditorium 900

14:30

15:30

A43 - Parallel Lectures: MOVEMENT DISORDERS 2

📍 Auditorium 900

Moderator : Anders FYTAGORIDIS (Sweden), Hiroki Toda (Japan)**14:30- 14:45 Long term outcome and management of re-emergent dystonia.**

Joachim KRAUSS (Germany)

14:45- 15:00 Lesion versus DBS in dystonia: who and when?

Takaomi TAIRA (Japan)

15:00- 15:15 How to manage DBS in older patients aged more than 70.

Patricia Limousin (United Kingdom)

15:15- 15:30 OPL06 Effect of photobiomodulation on an alpha-synuclein chronic mice model representative of Parkinson's disease physiopathology.

NAPOLEON TORRES (France)

14:30

15:30

B43 - Parallel Lectures: Epilepsy Surgery 2

📍 Salle Major

Moderator : to be confirmed , Sameer A. Sheth (USA), JUAN ANTONIO BARCIA ALBACAR (Spain)**14:30- 14:45 SEEG-Guided Tailored Resection vs. Ablation: Decision Algorithms and Cognitive / language consideration.**

Steven Ojemann (USA)

14:45- 15:00 Surgery for Insular epilepsy - Is it worth doing it?

Stephan CHABARDES (France)

15:00- 15:15 Network Epilepsies Beyond the Temporal Lobe: Temporal plus, Insula–Opercular, and Perisylvian Circuits.

Sami Obaid (Canada)

15:15- 15:30 OPL07 Plasticity and Language in the Anesthetized Human Hippocampus.

Eric Cole (USA)

14:30

15:30

C43 - Parallel Lectures: Pain 2 | Spasticity

📍 Espace Vieux-Port

Moderator : Marc SINDOU (France), Pawel SOKAL (Poland), IOANNIS PANOURIAS (Greece)**14:30- 14:45 Surgical technics for spasticity : an overview.**

Patrick MERTENS (France)

14:45- 15:00 Central Pain - underlying Mechanism for Development of Chronic Pain Disorders, and emerging targets.

Koichi Hosomi (Japan)

15:00- 15:15 Cordotomy, Cingulotomy, and Focused Lesional Strategies: When Palliation Requires Decisive Intervention.

Ido STRAUSS (Israel)

15:15- 15:30 OPL08 CNS regional predictors of surgical response are dynamically associated with degree of surgical pain relief in trigeminal neuralgia.

Mojgan Hodaie (Canada)

14:30

15:30

D43 - Parallel Lectures: Brain Mapping-Physiology-Neurorestoration

📍 Salle 120

Moderator : Stéphane PALFI (France), Hagai Bergman (Israel)

14:30- 14:45 Phase 1/2a clinical trial of hESC-derived dopamine progenitors in Parkinson's disease.

Kyung Won Chang (Republic Of Korea)

14:45- 15:00 Neural biomarkers for OCD.

Nicole Provenza (USA)

15:00- 15:15 Tabar V. et al. Phase I trial of hES cell-derived dopaminergic neurons for Parkinson's disease.

Andres LOZANO (Canada)

15:15- 15:30 OPL09 Deep brain stimulation of the subthalamic nucleus: Lessons learned from human post-mortem studies.

Martin Parent (Canada)

15:30

16:30

A44 - Oral Presentation Session 10 - Movement Disorders

📍 Auditorium 900

Moderator : Ben Jonker (Australia), Ryoong Huh (Republic Of Korea), Kostiantyn KOSTIUK (Ukraine)

15:30- 15:40 OP073 Parkeo 2 – Deep brain stimulation for Parkinson's disease: probabilistic subthalamic nucleus targeting under general anesthesia without intraoperative evaluation vs. current targeting procedure - A phase 3 trial.

Emmanuel CUNY (France)

15:40- 15:50 OP074 Identification of Parkinson's Disease Tremor-Related Functional Network Topographies Using 3.0 T Resting-State fMRI.

Zhengyu Lin (China)

15:50- 16:00 OP075 Multiple Targets Lesioning in Movement disorder in the era of DBS: A Novel Technique.

Basant Pant (Nepal)

16:00- 16:10 OP076 Pallidothalamic Tract-Targeted Interventions in Functional Neurosurgery: A Systematic Review.

Mohammad Al-Smadi (Hungary)

16:10- 16:20 OP077 Impact of Technological Advancements in Deep Brain Stimulation Surgery for Parkinson's Disease, the Lille experience.

Bastien GOUGES (France)

16:20- 16:30 OP078 Targeting the Nucleus Basalis of Meynert in Parkinson's Disease: Identification on Imaging and Histological Verification.

Craig van Horne (USA)

15:30

16:30

B44 - Oral Presentation Session 11 - Epilepsy

📍 Salle Major

Moderator : to be confirmed

15:30- 15:40 OP079 Effectiveness and safety of epilepsy surgery involving the insulo-opercular cortex: less is better.

Alexis Robin (France)

15:40- 15:50 OP080 Rapid focal cooling via a novel brain lead improves seizure suppression in a porcine epilepsy model.

NAPOLEON TORRES (France)

15:50- 16:00 OP081 Repeated SEEGs Have Few Chances to Result in Seizure-free Status : A 26-years Single-Center Experience.

ANAIS VENARD (France)

16:00- 16:10 OP082 Clinical Outcomes and Learning Curve of MRgLITT System for Drug-Resistant Epilepsy in China: A Single-Center Retrospective Study.

Dail Yang (China)

16:10- 16:20 OP083 Temporal Lobe Epilepsy Beyond Hippocampal Sclerosis: A Network-Based, Histopathology-Driven Surgical Paradigm.

Heri Subianto (Indonesia)

16:20- 16:30 OP084 Epileptic outcome of MR-guided Laser Interstitial Therapy (MRgLITT) in refractory Insular Epilepsy according to the extension of the Epileptic Ictal Onset Zone - A Pediatric Single-Center Retrospective Study.

Lelio GUIDA (France)

15:30

16:30

C44 - Oral Presentation Session 12 - Pain

📍 Espace Vieux-Port

Moderator : Clement HAMANI (Canada), **Denys FONTAINE** (France), **to be confirmed**

15:30- 15:40 OP085 Safety and feasibility of deep brain stimulation of the anterior cingulate and thalamus in chronic refractory neuropathic pain: a pilot and randomized study.

Denys FONTAINE (France)

15:40- 15:50 OP086 Endoscopic-Assisted Microvascular Decompression for Trigeminal Neuralgia with Enlarged Suprameatal Tubercle.

Min Wu (China)

15:50- 16:00 OP087 Neurosurgical Ablative techniques for Cancer Pain: 50 years later, is this still relevant?

Anne BALOSSIER (France)

16:00- 16:10 OP088 DREZ lesioning for lumbo-sacral plexus avulsion pain : long term results.

Hayat BELAID (France)

16:10- 16:20 OP089 When Genetics Meets Neuromodulation: Spinal Cord Stimulation for Refractory Pain and Spasticity in Hereditary Spastic Paraplegia: A Case Report.

Andrea Blažević (Croatia)

16:20- 16:30 OP090 Network drivers of analgesia in thalamic stimulation for chronic neuropathic pain.

Aaron Warren (USA)

15:30

16:30

D44 - Oral Presentation Session 13 - Psychiatry Disorders

📍 Salle 120

Moderator : Hemmings WU (Taiwan), Nico ENSLIN (South Africa)

15:30- 15:40 OP091 Long-term follow-up of patients with severe anorexia nervosa treated with deep brain stimulation.

Gloria Villalba Martinez (Spain)

15:40- 15:50 OP092 Mapping the therapeutic effects of anterior limb of internal capsule (ALIC) lesions in treatment-resistant schizophrenia: A neuroimaging-based analysis.

Shuo MA (China)

15:50- 16:00 OP093 Human dorsolateral prefrontal neural activity tracks the psychosis symptom dynamics in schizophrenia.

ruiyan Zhang (China)

16:00- 16:10 OP094 Distinct electrophysiology signatures in BNST differentiate Major Depressive Disorder from Obsessive-Compulsive Disorder: A resting-state wireless local field potential study in DBS patients.

Varun Ramanan Subramaniam (United Kingdom)

16:20- 16:30 OP096 Deep brain stimulation of the nucleus accumbens area for treatment-resistant depression: clinical outcomes and anatomical distribution of effective stimulation sites.

Alexis P. R. Terrapon (Switzerland)

15:30

16:30

E44 - Oral Presentation Session 13B - Imaging

📍 Salle 76

Moderator : Harith AKRAM (United Kingdom), Erich Fonoff (Brazil), Andreas Horn (Germany)

15:30- 15:40 OP097 Analysis of MRI Distortion at Deep Brain Stimulation Targets Relative to CT Stereotactic Space.

Craig van Horne (USA)

15:40- 15:50 OP098 Full spinal cord tractography: Feasibility of following white matter tracts from the cervical to the lumbar spinal cord.

Petra HEIDEN (Germany)

15:50- 16:00 OP099 Optimal locations for deep brain stimulation for Gilles de la Tourette Syndrome.

Ilkem Aysu Sahin (Germany)

16:00- 16:10 OP100 Anato-mo-functional organization of the human indirect pallido-subthalamic pathway using histology and diffusion imaging.

Nicolas Tempier (France)

16:10- 16:20 OP101 Proton density MR imaging: A simple and powerful sequence to visualise anatomical structures in Functional Neurosurgery.

Ludvic ZRINZO (United Kingdom)

16:20- 16:30 OP102 Quantitative MR signal characteristics in the putamen distinguish essential tremor from tremor-dominant Parkinson's Disease.

Haiden Berton (USA)

16:30

16:50

8K15 - Coffee Break & Exhibition

16:50

17:50

A45 - Flash Presentation Session 07 - Movement Disorders

📍 Auditorium 900

Moderator : Ghassen Souissi (France), Pawel SOKAL (Poland), Giorgio SPATOLA (Italy)

16:50- 16:55 OF096 Comparison between DBS, Pallidotomy and Pallidothalamic tract lesioning in Parkinson's Disease: A Single center study.

Resha Shrestha Palanchoke (Nepal)

17:00- 17:05 OF098 Expanding the use of investigational biologics with DBS in multicenter clinical trials.

Craig van Horne (USA)

17:05- 17:10 OF099 Deep brain stimulation in pantothenate kinase-associated neurodegeneration: interest of early multi-target implantation — Case series and long-term outcomes in seven pediatric patients.

Julie Bonheur (France)

17:10- 17:15 OF100 Remote Programming for Deep Brain Stimulation Ensures Health Equity under Diverse Aging Scenarios.

Yang Lu (China)

17:15- 17:20 OF101 A retrospective comparative study: FGATIR versus CST tractography targeting for Gamma Knife Thalamotomy in Tremor.

Aryan Raei (France)

17:20- 17:25 OF102 Globus pallidus internus as an effective rescue target for Parkinson's disease patients with suboptimal outcomes following subthalamic nucleus deep brain stimulation: a single-center experience.

Tuan Pham Anh (Vietnam)

17:25- 17:30 OF103 An optimized thermal spot shaping technique improves tremor outcomes in focused ultrasound thalamotomy.

Haiden Berton (USA)

17:30- 17:35 OF104 Unilateral versus Bilateral Radiofrequency Campotomy in Parkinson's Disease: Impact on Motor and Nonmotor Symptoms and Quality of Life.

JULIANA PASSINHO (Brazil)

17:35- 17:40 OF105 Short and long-term outcomes of legacy omnidirectional versus modern directional leads in STN DBS for Parkinson's disease.

Fareha Khalil (United Kingdom)

17:40- 17:45 OF106 Staged Bilateral MRgFUS Thalamotomy for Essential Tremor: Clinical, Imaging and Procedural Insights from a Prospective Cohort and Systematic Review with Meta-Analysis.

Fabio Paio (Italy)

17:45- 17:50 OF107 Beyond the VIM: Dual Target Thalamotomy for Dystonic Tremor.

Fabio Paio (Italy)

16:50

17:50

B45 - Flash Presentation Session 08 - Psychiatry | Oncology

📍 Salle Major

Moderator : NICOLAS REYNS (France), Ruby Mahesparan (Norway)

16:50- 16:55 OF109 Patient-specific structural connectivity profiles of DBS targets for Gilles de la Tourette Syndrome.

Rene Marquez Franco (Germany)

16:55- 17:00 OF110 The role of invasive neuromodulation techniques in the context of intellectual disability: A systematic review.

Ana Júlia Kuhnen da Costa (Brazil)

17:00- 17:05 OF111 Normative connectivity pattern of ablative targets in Self-injurious behavior patients.

Rabea Schmahl (Germany)

17:05- 17:10 OF112 Circuit-Level Electrophysiological Signatures of Acute Obsessive–Compulsive States.

Ruoyu Ma (China)

17:15- 17:20 OF114 Optically guided burr-hole biopsies decrease the number of trajectories and increase safety – findings from 60 cases.

Karin Wårdell (Sweden)

17:20- 17:25 OF115 Efficacy and Safety of Stereotactic Radiosurgery in Primary Central Nervous System Lymphoma: A Meta-analysis of 280 Patients.

Khalid Sarhan (Egypt)

17:25- 17:30 OF116 Bilateral Radiofrequency Anterior Capsulotomy for Refractory Obsessive Compulsive Disorder in Malta.

Ludvic ZRINZO (United Kingdom)

17:30- 17:35 OF117 Robot-Assisted Versus Frame-Based Stereotactic Brain Biopsy: Diagnostic Yield, Hemorrhagic Risk, and Workflow Insights from 451 Consecutive Cases.

Jong-Ho Ha (Republic Of Korea)

17:35- 17:40 OF118 Beta-band cortical activity is a neuromodulation target for hallucination-like behaviors in a monkey model of schizophrenia and man.

KUANGHAO YE (China)

17:45- 17:50 OF118b Radiosurgery for Hemifacial Spasm.

Hussein HAMD I (France)

16:50

C45 - Flash Presentation Session 09 - Imaging

17:50

📍 Espace Vieux-Port

Moderator : Harith AKRAM (United Kingdom), Selcuk PEKER (Turkey), Alberto Parente

16:50- 16:55 OF121 Primary Tumor Origin Drives Survival After Stereotactic Radiosurgery for Gynecologic Brain Metastases: An Individual Patient Data Meta-Analysis.

Khalid Sarhan (Egypt)

17:05- 17:10 OF130 One year later: cognitive outcomes after gamma knife radiosurgery in patients with brain metastases.

Alberto Franzin (Italy)

17:10- 17:15 OF131 Gamma Knife Radiosurgery in Hypothalamic Hamartoma: A Multi-Center Retrospective Evaluation of Clinical Outcomes and Safety.

Manjul Tripathi (India)

17:20- 17:25 OF123 Lesion topography and precision targeting in mr-guided focused ultrasound thalamotomy: retrospective evaluation of individualized thalamic segmentation across concentric thermal zones.

Yu-Hsuan Chang (Taiwan)

17:30- 17:35 OF125 Multimodal Longitudinal Neuroimaging Reveals Structural and Functional Reorganization Following MR-Guided Focused Ultrasound Thalamotomy for Essential Tremor.

Wei-Lun Lo (Taiwan)

17:35- 17:40 OF126 DTI-based fiber tractography-guided trajectory planning for stereotactic biopsy in eloquent deep brain regions.

Leo Han (Taiwan)

17:50

18:10

A46 - Closing Ceremony & Awards

📍 Auditorium 900