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26>29  
September  
2018  
XXIII CONGRESS  
OF THE EUROPEAN SOCIETY  
FOR STEREOTACTIC AND  
FUNCTIONAL NEUROSURGERY

essfn European Society for  
Stereotactic and Functional Neurosurgery

## Wednesday 26 September

15:00

D12

15:00 - 15:30

### WELCOME COFFEE

WOLFSON  
HALL B

15:30

D11

15:30 - 18:00

### PRE-CONGRESS FOR PSYCHIATRISTS (SPECIAL EVENT)

Moderators: Benjamin GREENBERG (USA), Keith MATTHEWS (UK)

15:30 ■ Neurosurgery for mental disorders: Guidelines on pre- and post-surgical management. Keith MATTHEWS (UK), Benjamin GREENBERG (USA)

1. Welcome and Introductions
2. Agenda Setting
3. "Things I have learned" – brief presentations by attendees.
4. Pre-Operative Patient Assessment: lessons and suggestions
5. Post-Operative Management: lessons and suggestions
6. Educational / Training Opportunities
7. AoCB

WOLFSON  
HALL B

16:30 ■ #15021 - OP001 Ethics of deep brain stimulation in adolescent patients with refractory tourette syndrome. Anouk SMEETS (Hulsberg, THE NETHERLANDS), Annelien DUIJS, Dorothee HORSTKÖTTER, Cara VERDELLEN, Guido DE WERT, Yasin TEMEL, Linda ACKERMANS, Albert LEENTJENS

16:40 ■ #16233 - OP002 Comparison of guidelines for the treatment of psychiatric disorders: a focus on neurosurgical techniques. Raphaëlle RICHIERI (Marseille), Jean REGIS, Giorgio SPATOLA

18:30

A13

18:30 - 19:10

### CONGRESS OPENING CEREMONY

Moderator: Jean REGIS (FRANCE)

18:30 ■ Chairmen's Welcome. Marwan HARIZ (UK), Keith MATTHEWS (UK), Ludvic ZRINZO (UK)

18:35 ■ Welcome address. Dan LEKSELL (SWEDEN)

18:45 ■ The History of Medicine and Neuroscience in Edinburgh'. David Cunningham OWENS (UK)

FESTIVAL  
THEATRE  
AUDITORIUM

19:10

A15

19:10 - 20:00

### WELCOME RECEPTION IN THE EXHIBITION AREA

FESTIVAL  
THEATRE  
AUDITORIUM

## Thursday 27 September

08:30

A21

08:30 - 10:00

### PLENARY SESSION 1

Opening ceremony & special lectures

Moderators: Marwan HARIZ (UK), Keith MATTHEWS (UK)

08:30 ■ Congress chairmen & Congress President: "FIRST meeting in Edinburgh in 1972". Marwan HARIZ (UK), Keith MATTHEWS (UK), Ludvic ZRINZO (UK), Damianos SAKAS (GREECE)

08:45 ■ Revival of British stereotactic surgery 1974-2008; A personal perspective. T.r.k VARMA (UK)

09:00 ■ Capsulotomy for depression; the Cardiff experience. Brian SIMPSON (UK)

09:15 ■ History of British stereotactic and functional Neurosurgery. Erlick PEREIRA (UK)

09:30 ■ Why Psychiatry needs new treatments. Guy GOODWIN (UK)

09:45 ■ 40 years experience in Surgery for Psychiatry. Rees COSGROVE (USA)

FESTIVAL  
THEATRE  
AUDITORIUM

10:00

A22

FESTIVAL



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Thursday 27 September

10:00 - 10:30

THEATRE  
AUDITORIUM

## COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

10:30

A23

10:30 - 12:00

### PLENARY SESSION 2 Surgery for OCD

Moderators: Rees COSGROVE (USA), Eileen JOYCE (UK), Keith MATTHEWS (UK)

10:30 ■ Understanding the neurocircuitry of OCD. Trevor ROBBINS (UK)

10:50 ■ Patient selection for OCD. Keith MATTHEWS (UK)

11:00 ■ #16165 - O001 Targeting deep brain stimulation in obsessive-compulsive disorder: lessons learned from 71 consecutive cases. Pepijn VAN DEN MUNCKHOF (Amsterdam, THE NETHERLANDS), Martijn FIGEE, Luka LIEBRAND, Maarten BOT, Matthan CAAN, Pieter OOMS, Nienke VULINK, Pelle DE KONING, Guido VAN WINGEN, Damiaan DENYS, Rick SCHUURMAN

11:15 ■ Stereotactic ablation for OCD. Rees COSGROVE (USA)

11:30 ■ The psychiatrist perspective on surgical results in OCD. Benjamin GREENBERG (USA)

11:45 ■ #16322 - O002 Anterior capsulotomy for the treatment of obsessive compulsive disorder – a review of old and new literature. Joshua PEPPER (Birmingham, UK), Ludvic ZRINZO, Marwan HARIZ

11:55 ■ Discussion.

FESTIVAL  
THEATRE  
AUDITORIUM

12:00

A25

12:00 - 13:30

## LUNCH BREAK & VISIT OF POSTERS AND EXHIBITION

B24

12:00 - 13:30

### INDUSTRY LUNCH WORKSHOP

WOLFSON  
HALL A

C24

12:00 - 13:30

### INDUSTRY LUNCH WORKSHOP

DEACONS  
SUITE

D24

12:00 - 13:30

### INDUSTRY LUNCH WORKSHOP

WOLFSON  
HALL B

A24

12:00 - 13:30

### INDUSTRY LUNCH WORKSHOP

FESTIVAL  
THEATRE  
AUDITORIUM

13:30

A26

13:30 - 15:00

### PLENARY SESSION 3 Surgery for Epilepsy

Moderators: Robert GROSS (USA), Kai LEHTIMÄKI (FINLAND), Richard SELWAY (UK)

13:30 ■ Sir Victor Horsley: A View From Across the Pond. Michael SCHULDER (USA)

13:45 ■ DBS Ant nucleus. Antonio GONÇALVES FERREIRA (PORTUGAL)

14:00 ■ Centromedianum Stimulation. Richard SELWAY (UK)

14:15 ■ Hippocampal stimulation. Dirk VAN ROOST (BELGIUM)

14:30 ■ LITE in Epilepsy Surgery. Robert GROSS (USA)

FESTIVAL  
THEATRE  
AUDITORIUM



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14:45 ■ #16310 - O003 Vagus nerve stimulation for refractory epilepsy: two-year outcomes from a single center. [Vasco PINTO](#) (Porto, PORTUGAL), [Inês LARANJINHA](#), [Sérgio SOUSA](#), [João CHAVES](#), [Rui RANGEL](#)

14:55 ■ Discussion.

15:00

A27

15:00 - 15:30

## COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

FESTIVAL  
THEATRE  
AUDITORIUM

15:30

A28

15:30 - 17:00

## PARALLEL SESSION 1 Rehabilitation

Moderators: [Jocelyne BLOCH](#) (SWITZERLAND), [Robert BROWNSTONE](#) (UK), [Ali SAVAS](#) (TURKEY)

15:30 ■ Spinal cord stim for repair. [Jocelyne BLOCH](#) (SWITZERLAND)

15:50 ■ Neuromodulation of wakefulness. [Damianos SAKAS](#) (GREECE)

16:10 ■ #15505 - O004 Deep brain stimulation for the early treatment of the minimal conscious state and vegetative state. [Darko CHUDY](#) (Zagreb, CROATIA), [Vedran DELETIS](#)

16:30 ■ #16178 - O005 Minimally invasive spinal surgery in treatment of spastic paraplegia . ( 75 cases). [Lila MAHFOUF](#) (Algiers, ALGERIA), [Brahim MERROUCHE](#), [Benaïssa ABDENNEBI](#)

16:40 ■ #16317 - O006 The impact of combined anterior and posterior lumbar rhizotomy on spinal interneuron activity one year post-operative; The indirect neuromodulation. [Walid ABDEL GHANY](#) (Cairo, EGYPT), [Mohamed NADA](#), [Marwa NASSEF](#), [Tamer SABRY](#), [Mennatallah SHATA](#), [Ahmad SAEED ALY](#), [Shady MAHMOUD](#)

16:50 ■ Discussion.

FESTIVAL  
THEATRE  
AUDITORIUM

B28

15:30 - 17:00

## PARALLEL SESSION 2 Movement Disorders / Dystonia

Moderators: [Joachim K. KRAUSS](#) (GERMANY), [Ioannis PANOURGIAS](#) (GREECE), [Sarah PERIDES](#) (UK)

15:30 ■ 20 years experience of DBS for paediatric dystonia. [Laura CIF](#) (FRANCE)

15:45 ■ #14670 - O007 Deep brain stimulation neuromodulation reduces severe dystonic pain in children and young people. [Sarah PERIDES](#) (London, UK), [Jean-Pierre LIN](#), [Geraldine LEE](#), [Hortensia GIMENO](#), [Daniel LUMSDEN](#), [Richard SELWAY](#), [Keyoumars ASHKAN](#), [Margaret KAMINSKA](#)

15:55 ■ #16148 - O008 Dystonic Tremulous Spasmodic Torticollis Treated by bilateral Deep Brain Stimulation. Case Series. [Michał SOBSTYL](#) (Warsaw, POLAND), [Tomasz PASTERSKI](#), [Marta ALEKSANDROWICZ](#)

16:00 ■ #16172 - O009 A registry of real-world outcomes using deep brain stimulation for the treatment of dystonia. [Joachim KRAUSS](#) (HANNOVER, GERMANY), [Claire NICHOLSON](#), [Michael T. BARBE](#), [Veerle VISSER-VANDEWALLE](#), [Andrea KÜHN](#), [Monika PÖTTER-NERGER](#), [Alberto ALBANESE](#), [Roshini JAIN](#), [Heleen SCHOLTES](#), [Nic VAN DYCK](#)

16:05 ■ #16180 - O010 Bilateral Deep-Brain Stimulation of the internus Globus Pallidus in Dystonia. [Brahim MERROUCHE](#) (ALGIERS, ALGERIA), [Benaïssa ABDENNEBI](#), [Lila MAHFOUF](#)

16:10 ■ #16220 - O011 Adaptive deep brain stimulation in the internal globus pallidus of a dystonia and a Parkinson's disease patients. [Dan PIÑA-FUENTES](#) (Groningen, THE NETHERLANDS), [J. Marc C. VAN DIJK](#), [D.I. Marinus OTERDOOM](#), [Martje VAN EGMOND](#), [Teus VAN LAAR](#), [Marina A. J. TIJSSEN](#), [Martijn BEUDEL](#)

16:15 ■ #16222 - O012 Deep brain stimulation of the globus pallidus interna (gpi) with microelectrode recording for secondary dystonia: clinical reports and review of the literature. [Sait OZTURK](#) (Elazig, TURKEY), [Dursun AYGUN](#), [Yasin TEMEL](#), [Ersay KOCABICAK](#)

16:20 ■ #16248 - O013 Psychiatric symptoms, body concept and quality of life in patients with idiopathic dystonia. [Assel SARYYEVA](#) (Hannover, GERMANY), [Lejla PARACKA](#), [Florian WEGNER](#), [Claus ESCHER](#), [Martin KLIENTZ](#), [Mahmoud ABDALLAT](#), [Joachim K. KRAUSS](#)

16:25 ■ #16249 - O014 Thalamic deep brain stimulation for dystonic head tremor. [Assel SARYYEVA](#) (Hannover, GERMANY), [Marc E. WOLF](#), [Christian BLAHAK](#), [Joachim RUNGE](#), [Joachim K. KRAUSS](#)

16:30 ■ #16259 - O015 Efficacy and safety of deep brain stimulation for pantothenate kinase-associated neurodegeneration: a systematic review and meta-analysis. [Philippe DE VLOO](#), [Philippe DE VLOO](#) (Leuven, BELGIUM), [Darrin LEE](#), [Robert DALLAPIAZZA](#), [Mohammad ROHANI](#), [Alfonso FASANO](#), [Renato MUNHOZ](#), [George IBRAHIM](#), [Mojgan HODAEI](#), [Andres LOZANO](#), [Suneil KALIA](#)

16:35 ■ #16308 - O016 Parkinsonian signs in patients with cervical dystonia treated with pallidal deep brain stimulation: a controlled and observer-blinded study. [Philipp MAHLKNECHT](#), [Dejan GEORGIEV](#) (Ljubljana, SLOVENIA), [Harith AKRAM](#), [Florian BRUGGER](#), [Saman VINKE](#), [Ludvic ZRINZO](#), [Kailash BHATIA](#), [Gunn Marie HAIRZ](#), [Peter WILLEIT](#), [John ROTHWELL](#), [Thomas FOLTYNIE](#), [Patricia LIMOUSIN](#)

16:40 ■ #16339 - O017 Globus pallidus stimulation for dystonia: single-center global experience and particularities of the NBIA group. [Vasco PINTO](#) (Porto, PORTUGAL), [Eduardo CUNHA](#), [Joana DAMÁSIO](#), [Carla SILVA](#), [Alexandre MENDES](#)

16:45 ■ #16363 - O018 Deep brain stimulation in primary and in NBIA-related dystonia. Comparison of clinical and quality of life improvement. A two

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year follow-up study. [Krzysztof SZALECKI](#) (warszawa, POLAND), [Tomasz KMIEĆ](#), [Henryk KOZIARA](#), [Tomasz MANDAT](#)

16:50 ■ Discussion.

C28

15:30 - 17:00

### PARALLEL SESSION 3 Surgery for Tourette

Moderators: [Terry COYNE](#) (AUSTRALIA), [Tom FOLTYNIE](#) (UK), [Veerle VISSER-VANDEWALLE](#) (GERMANY)

15:30 ■ Overview of Tourette. [Eileen JOYCE](#) (UK)

15:50 ■ Thalamic DBS in Tourette syndrome: where is the best target? [Veerle VISSER-VANDEWALLE](#) (GERMANY)

16:10 ■ DBS for Gilles de la Tourette syndrome. [Tom FOLTYNIE](#) (UK)

16:30 ■ #16221 - O019 Our experience of stereotactic radiofrequency pallidotomy for the treatment of Tourette syndrome. [Vitaliy TSYMBALIUK](#), [Kostiantyn KOSTIUK](#) (Kyiv, UKRAINE), [Yuri MEDVEDEV](#), [Andriy POPOV](#), [Nazar VASYLIV](#), [Maxim SHEVELOV](#), [Varelii CHEBURAKHIN](#), [Sergii DICHKO](#)

16:50 ■ #16212 - O021 Deep brain stimulation for tic disorders: cohort from a single centre. [Pedro DUARTE BATISTA](#) (Lisboa, PORTUGAL), [Miguel COELHO](#), [Patrícia LOBO](#), [Herculano CARVALHO](#), [Maria BEGOÑA CATTONI](#), [Group MOVEMENT DISORDERS](#)

16:55 ■ #16229 - O022 Differential structural connectivity during thalamic DBS in Tourette syndrome. [Pablo ANDRADE](#) (Cologne, GERMANY), [Moritz HOEVELS](#), [Veerle VISSER-VANDEWALLE](#)

DEACONS  
SUITE

D28

15:30 - 17:00

### PARALLEL SESSION 4 Pain Surgery

Moderators: [Tipu AZIZ](#) (UK), [Vladimir SHABALOV](#) (RUSSIA), [Ido STRAUSS](#) (ISRAEL)

15:30 ■ #14992 - O023 Occipital nerve stimulation for refractory chronic cluster headache: long-term efficacy and predictive factors. [Aurelie LEPLUS](#) (NICE), [Serge BLOND](#), [Jean REGIS](#), [Sylvie RAOUL](#), [Bechir JARRAYA](#), [Stéphane DERREY](#), [Stephan CHABARDES](#), [Jimmy VOIRIN](#), [Jocelyne BLOCH](#), [Sophie COLNAT-COULBOIS](#), [Francois CAIRE](#), [Michel LANTERI-MINET](#), [Denys FONTAINE](#)

15:40 ■ #16280 - O024 Congruence of preoperative MRI images with intraoperative findings in trigeminal neuralgia. [Patrick HITCHON](#) (Iowa City, USA), [Marshall HOLLAND](#), [Jennifer NOELLER](#)

15:50 ■ #16324 - O025 Normalisation of Sensory Function in Patients with Neuropathic Facial Pain Syndromes and Deep Brain Stimulation against Neuropathic Pain. [Wilhelm EISNER](#) (Innsbruck, AUSTRIA), [Sebastian QUIRBACH](#), [Ralf BECKER](#), [Johannes KERSCHBAUMER](#), [Julia WANSCHITZ](#), [Wolfgang LÖSCHER](#), [Raphael REHWALD](#)

16:00 ■ #16365 - O026 NEUROSURGICAL ABLATIVE PROCEDURES FOR INTRACTABLE CANCER PAIN. [Ido STRAUSS](#) (Tel Aviv, ISRAEL), [Assaf BERGER](#), [Uri HOCHBERG](#), [Alexander ZEGERMAN](#), [Rotem TELLEM](#)

16:10 ■ #16417 - O027 An Open-Label, Analgesic Efficacy and Safety of Pituitary Radiosurgery for Patients With Opioid-Refractory Pain: Study Protocol and preliminary results for a Randomized Controlled Trial. [Jean REGIS](#), [Anne BALOSSIER](#) (Marseille), [Pierre Yves BORIUS](#), [Marie FICHAUX](#), [Stephanie RANQUE GARNIER](#), [Sebastien SALAS](#)

16:20 ■ #14555 - O028 Prospective Randomized Feasibility Study Comparing Manual vs. Automatic Position-Adaptive Spinal Cord Stimulation with Surgical Leads. [Kara BEASLEY](#) (Boulder, USA), [Christie ZAKAR](#), [Vinod KANTHA](#), [Steven HOBBS](#), [Sigita BURNEIKIENE](#)

16:25 ■ #14678 - O029 Bridging Veins and Veins of the Brain Stem in Microvascular Decompression Surgery for Trigeminal Neuralgia and Hemifacial Spasm. [Hiroki TODA](#) (Osaka, JAPAN)

16:35 ■ #16315 - O031 Spinal cord stimulation for microcirculation improvement in the treatment of ischemic pain. [Vladimir MURTAZIN](#) (Novosibirsk, RUSSIA), [Roman KISELEV](#), [Andrey ASHURKOV](#), [Kirill ORLOV](#), [Alexey KRIVOSHAPKIN](#), [Vladimir SHABALOV](#)

16:40 ■ #16326 - O032 The importance of somatotopy to achieve clinical benefit in motor cortex stimulation for pain relief. [Afif AFIF](#) (Lyon), [Luis GARCIA-LARREA](#), [Patrick MERTENS](#)

16:45 ■ #16332 - O033 Medial thalamotomy - radiofrequency thermocoagulation for intractable pain. [Dusan URGOSIK](#) (Prague, CZECH REPUBLIC), [Roman LISCAK](#)

16:50 ■ #16370 - O034 Clinical outcomes and comparison of Burst, 1 kHz and 10 kHz subperceptual spinal cord stimulation for chronic back pain. 6 months multicentre, double blinded study. [Aleksandra MAJ-KESICKA](#) (BYDGOSZCZ, POLAND), [Pawel SOKAL](#), [Marek HARAT](#), [Leszek HERBOWSKI](#), [Zennar KHEDER](#), [Jacek NACEWICZ](#)

16:55 ■ #16414 - O035 Extended DREZ-lesion for Relieving Intractable Arm Pain Following Brachial Plexus Avulsion Injury. What occurs at the Injured dorsal horn. [Makoto TANIGUCHI](#) (Fucyu / Tokyo, JAPAN), [Keisuke TAKAI](#), [Hirokazu IWAMURO](#)

WOLFSON  
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17:00

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17:00 - 19:30

### PARALLEL SESSION 5 Renaissance of Lesioning

Moderators: [Jin Woo CHANG](#) (KOREA), [Marwan HARIZ](#) (UK), [Kostiantyn KOSTIUK](#) (UKRAINE), [Juergen VOGES](#) (GERMANY)

17:00 ■ Cingulotomy for depression. [Rees COSGROVE](#) (USA)



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- 17:15 ■ Pros & cons // Lesioning using RF vs GK vs HIFU. [Takaomi TAIRA](#) (JAPAN)
- 17:30 ■ MRgFUS capsulotomy for psychiatric illness. [Jin Woo CHANG](#) (KOREA)
- 17:45 ■ STN HIFU in Parkinson's disease. [Marta DEL ALAMO](#) (SPAIN)
- 18:00 ■ Gamma Knife Capsulotomy for OCD. [Jean REGIS](#) (FRANCE)
- 18:15 ■ #14475 - O036 Bilateral stereotactic anterior nucleothalamotomy in humans for treatment of intractable epilepsy. [Andrey SITNIKOV](#) (Moscow, RUSSIA)
- 18:25 ■ #16237 - O037 Six year outcome of focused ultrasound thalamotomy for essential tremor. [W. Jeff ELIAS](#) (Charlottesville, USA), [Diane HUSS](#), [Tony WANG](#), [Aaron BOND](#), [Binit SHAH](#)
- 18:35 ■ #15790 - O038 The STN and Hemiballismus. Historical review. [Jorge GURIDI](#) (Pamplona, SPAIN), [Rafael RODRIGUEZ-ROJAS](#), [Olga PARRAS](#)
- 18:45 ■ #16357 - O039 Focused ultrasound thalamotomy outcomes in 60 consecutive patients with refractory tremor: A 3 year to 6 month follow-up single center study. [Jordi RUMIÀ](#) (BARCELONA, SPAIN), [Javier TERCERO](#), [Núria BARGALLÓ](#), [Meritxell AZANUY](#), [Alberto ALOMAR](#), [Francesc VALLDEORIOLA](#)
- 18:55 ■ #16416 - O040 Bilateral GammaKnife Thalamotomy for severe Essential Tremor: Preliminary results of a prospective study. [Jean REGIS](#) (Marseille), [Axel CRETOL](#), [Romain CARRON](#), [Louise MERLY](#), [Jean Philippe AZULAY](#), [Tatiana WITJAS](#)
- 19:05 ■ #16284 - O041 Cryosurgical method in modern functional and neuro-oncology stereotactic neurosurgery. [Vladimir NIZKOVOLOS](#), [Natalia STERLIKOVA](#) (Saint Petersburg, RUSSIA), [Andrey KHOLYAVIN](#), [Victor BONDARENKO](#), [Jaroslav BELYAEV](#), [Andrey MYAGKOV](#), [Boris MARTYNOV](#), [Alexander GURCHIN](#)
- 19:15 ■ #16135 - O042 Safety of bilateral thalamotomy for essential tremor. [Takaomi TAIRA](#) (Tokyo, JAPAN), [Ghate PRAJAKTA](#), [Shiro HORISAWA](#)
- 19:20 ■ #16211 - O043 Unilateral pallidothalamic tractotomy for Parkinson's disease. [Shiro HORISAWA](#) (Shinjyuku, JAPAN), [Takakazu KAWAMATA](#), [Takaomi TAIRA](#)
- 19:25 ■ Discussion.

FESTIVAL  
THEATRE  
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B29

17:00 - 19:00

## PARALLEL SESSION 6 Mouvement Disorders

Moderators: [Patric BLOMSTEDT](#) (SWEDEN), [Joseph CANDELARIO-MCKEOWN](#) (UK), [István VALÁLIK](#) (HUNGARY)

- 17:00 ■ Asleep DBS in the Zona Incerta for PD and ET. [Patric BLOMSTEDT](#) (SWEDEN)
- 17:20 ■ #14909 - O044 The increase of dopamine transporter density in the ventral striatum and its correlation with motor improvement in patients with Parkinson's disease after subthalamic nucleus deep brain stimulation. [Takao NOZAKI](#) (Hamamatsu, JAPAN), [Kenji SUGIYAKA](#), [Tetsuya ASAKAWA](#), [Hiroki NAMBA](#), [Masamichi YOKOKURA](#), [Tatsuhiko TERADA](#), [Yasuomi OUCHI](#)
- 17:30 ■ #16171 - O045 Five year outcomes of a prospective, multicenter trial evaluating deep brain stimulation with a new multiple source, constant current rechargeable system in parkinson's disease. [Lars TIMMERMANN](#) (Cologne, GERMANY), [Roshini JAIN](#), [Nic VAN DYCK](#), [Lilly CHEN](#), [Thomas BRÜCKE](#), [Fernando SEJO](#), [Esther SUAREZ SAN MARTIN](#), [Veerle VISSER-VANDEWALLE](#), [Michael T. BARBE](#), [Steven GILL](#), [Alan WHONE](#), [Mauro PORTA](#), [Domenico SERVELLO](#), [François ALESCH](#)
- 17:40 ■ #16195 - O046 Brain networks predicting impulsivity after subthalamic deep brain stimulation for Parkinson's disease. [Philip MOSLEY](#) (Brisbane, AUSTRALIA), [Sae PALIWAL](#), [Alistair PERRY](#), [David SMITH](#), [Peter SIBURN](#), [Terry COYNE](#), [Marc TITTEMEYER](#), [Klaas STEPHAN](#), [Michael BREAKSPEAR](#)
- 17:50 ■ #16228 - O047 Does the degree of improvement after deep brain stimulation surgery for parkinson's disease meet the patient's expectations? [Joseph CANDELARIO-MCKEOWN](#) (London, UK), [Maryam TORKAMANI](#), [Hannah SHERIDAN](#), [Alison COUTTS](#), [Catherine HARTIGAN](#), [Maricel SALAZAR](#), [Patricia LIMOUSIN](#), [Marwan HARIZ](#), [Ludvic ZRINZO](#), [Jonny HYAM](#), [Tom FOLTYNIE](#), [Marjan JAHANSHAHI](#)
- 18:00 ■ #16258 - O048 Outcome and complications of surgical retreatments for essential tremor. The Toronto experience and a systematic review of the literature. [Philippe DE VLOO](#), [Philippe DE VLOO](#) (Leuven, BELGIUM), [Robert GRAMER](#), [Darrin LEE](#), [Robert DALLAPIAZZA](#), [Alfonso FASANO](#), [Renato MUNHOZ](#), [Suneil KALIA](#), [Mojgan HODAIIE](#), [Andres LOZANO](#)
- 18:10 ■ #16312 - O049 Differential effect of frequency of STN DBS (80 vs. 130 Hz) on oculomotor and cognitive task performance: an exploratory, double blind study. [André ZACHARIA](#) (Genève, SWITZERLAND), [Diego KASKI](#), [Dejan GEORGIEV](#), [Mathieu BERAU](#), [Walid BOUTHOUR](#), [Philipp MAHLKNECHT](#), [Thomas FOLTYNIE](#), [Ludvic ZRINZO](#), [Marwan HARIZ](#), [Marjan JAHANSHAHI](#), [John ROTHWELL](#), [Patricia LIMOUSIN](#)
- 18:20 ■ #14606 - O050 Ventro-lateral motor thalamus abnormal connectivity in essential tremor before and after thalamotomy: a resting-state fMRI study. [Constantin TULEASCA](#) (Lausanne, SWITZERLAND), [Jean RÉGIS](#), [Elena NAJDENOVSKA](#), [Tatiana WITJAS](#), [Nadine GIRARD](#), [Jerome CHAMPOUDRY](#), [Mohamed FAOUZI](#), [Jean-Philippe THIRAN](#), [Meritxell BACH CUADRA](#), [Marc LEVIVIER](#), [Dimitri VAN DE VILLE](#)
- 18:25 ■ #14720 - O051 Connectivity of effective electrode contacts to unexpected fiber tracts in deep brain stimulation for parkinsonian tremor. [Juergen SCHLAIER](#) (Regensburg, GERMANY), [Quirin STROTZER](#), [Judith ANTHOFER](#), [Claudia FELLNER](#), [Alexander BRAWANSKI](#), [Anton BEER](#)
- 18:30 ■ #16182 - O052 Optimizing tremor control by exploring random combinations of deep brain stimulation parameters. [I. Daria BOGDAN](#) (Groningen, THE NETHERLANDS), [Gea DROST](#), [D.I. marinus OTERDOOM](#), [Teus VAN LAAR](#), [J. Marc C. VAN DIJK](#), [Martijn BEUDEL](#)
- 18:35 ■ #16367 - O053 Atlas-independent mapping of the optimal locus of subthalamic deep brain stimulation for the motor symptoms of Parkinson disease. [James MOSSNER](#), [Kelvin CHOU](#), [Parag PATIL](#) (Ann Arbor, USA)
- 18:40 ■ #16379 - O054 Long term outcomes of Spinal Cord Stimulation in Primary Progressive Freezing of Gait. [Vincent D'HARDEMARE](#) (Paris), [Cécile HUBSCH](#), [Jean Philippe BRANDEL](#), [Nathalie PATTE-KARSENTY](#), [Marc ZIEGLER](#), [Jean-Baptiste THIEBAUT](#)
- 18:45 ■ #16405 - O055 Levodopa reduces the Phase lag Index of Parkinson's disease patients A MEG study. [Chunyan CAO](#) (Shanghai, CHINA), [Dianyou LI](#), [Peng HUANG](#), [Yixin PAN](#), [Shikun ZHAN](#), [Bomin SUN](#)
- 18:50 ■ Discussion.

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Thursday 27 September

C29

17:00 - 18:30

## PARALLEL SESSION 7 Epilepsy

Moderators: Allan HALL (UK), Krasimir MINKIN (BULGARIA), Dirk VAN ROOST (BELGIUM)

17:00 ■ #16143 - O056 Ictal intracranial electroencephalography using wavelet analysis of high-frequency oscillations in patients with refractory epilepsy. [H LEUNG](#) (Hong Kong, CHINA), [XI ZHU](#)

17:10 ■ #16183 - O057 SURface-PROjected FLAIR (SUPR-FLAIR) statistical analysis: a novel tool for advanced imaging of epilepsy. [Francesco CARDINALE](#) (Milano, ITALY), [Piergiorgio D'ORIO](#), [Martina REVAY](#), [Francesca GOZZO](#), [Veronica PELLICCIA](#), [Valeria MARIANI](#), [Luciana GENNARI](#), [Maurizio SBERNA](#), [Michele RIZZI](#)

17:20 ■ #16409 - O058 SEEG outcomes in a regional neurosurgical centre over the past 14 years: a review as part of good medical practice. [Allan HALL](#) (Glasgow, UK), [Patricia LITTLECHILD](#), [Veronica LEACH](#), [Shona LIVINGSTONE](#)

17:30 ■ #14640 - O059 RADIOFREQUENCY ABLATION OF THE CENTROMEDIAN NUCLEUS IN THE TREATMENT OF PHARMACORESISTANT EPILEPSY. A PILOT STUDY FOR A SELF-CONTROLLED PROSPECTIVE CLINICAL TRIAL. [Gustavo AGUADO CARRILLO](#) (Ciudad de México, MEXICO), [Francisco VELASCO CAMPOS](#), [Ana Luisa VELASCO MONROY](#), [Julian E. SOTO ABRAHAM](#), [Jose Luis NAVARRO OLVERA](#), [Pablo SAUCEDO ALVARADO](#), [Juan Manuel ALTAMIRANO](#)

17:35 ■ #16206 - O060 Stereotactic electrode placement for SEEG: Advanced 3D-visualization planning and predictors of accuracy. [Peter C. REINACHER](#) (Freiburg, GERMANY), [Evangelos KOGIAS](#), [Dirk-Matthias ALTENMÜLLER](#), [Kleanthis KARAKOLIOS](#), [Karl EGGER](#), [Volker A. COENEN](#)

17:40 ■ #16224 - O061 SEEG guided monopolar radiofrequency thermocoagulation for drug-resistant epilepsy. [Krasimir MINKIN](#) (Sofia, BULGARIA), [Kaloyan GABROVSKI](#), [Yoana MILENOVA](#), [Petar KARAZAPRYANOV](#), [Marin PENKOV](#), [Petya DIMOVA](#)

17:45 ■ #16309 - O062 Junculate cortex involvement in frontal lobe epilepsy - exploration using Stereo-encephalography (SEEG). [Ioana MANDRUTZA](#), [Jean CIUREA](#) (Bucharest, ROMANIA), [Irina POPA](#), [Andrei BARBORICA](#), [Donos CRISTI](#), [Maliia MIHAI DRAGOS](#), [Arbune ARBUNE](#), [Rasina ALIN](#)

17:50 ■ #16337 - O063 Concordance of scalp electroencephalography (EEG) with stereo-electroencephalography (SEEG) in the pre-surgical investigation of patients with intractable epilepsy: influence on surgical outcome. [Mahmoud ABDALLAT](#) (Amman, JORDAN)

17:55 ■ #16361 - O064 Adverse events in anterior temporal lobectomy: analysis of 100 consecutive cases. [Francesco PAOLONI](#) (Padova, ITALY), [Giancarlo DI GENNARO](#), [Roberta MORACE](#), [Valentina BARO](#), [Andrea LANDI](#), [Domenico D'AVELLA](#), [Vincenzo ESPOSITO](#)

18:00 ■ #16380 - O065 Initial Experience using the Visualase MRI-guided stereotactic laser ablation system for epileptogenic Lesions.

[Ido STRAUSS](#) (Tel Aviv, ISRAEL), [Firas FAHOUM](#), [Daniel HAYAT](#), [Assaf BERGER](#), [Ben-Bashat DAFNA](#), [Eisenstein ORNA](#), [Itzhak FRIED](#)

18:05 ■ #16388 - O066 Electrical stimulation of subiculum for temporal lobe epilepsy with hippocampal sclerosis. [Daruni VÁZQUEZ-BARRÓN](#) (Mexico City, MEXICO), [Ana Luisa VELASCO](#), [Francisco VELASCO](#), [Manola CUÉLLAR-HERRERA](#), [Marysol MONTES DE OCA](#)

18:15 ■ #16410 - O068 Deep brain stimulation for seizure control: a role for white matter. [Fred SCHAPER](#), [Birgit PLANTINGA](#), [Albert COLON](#), [Louis WAGNER](#), [Paul BOON](#), [Erik GOMMER](#), [Govert HOOGLAND](#), [Linda ACKERMANS](#) (Sittard, THE NETHERLANDS), [Rob ROUHL](#), [Yasin TEMEL](#)

18:20 ■ #16415 - O069 SIMULATED VOLUME OF NEURAL ACTIVATION IN ANTERIOR NUCLEUS OF THALAMUS IN DEEP BRAIN STIMULATION FOR INTRACTABLE EPILEPSY. [Hussein HAMDÍ ABOU ELGHEIT](#) (Marseille), [Stephan CHABARDES](#), [Claire HAEGELEN](#), [Marc GUENOT](#), [Fabrice BARTOLOMEI](#), [Jean REGIS](#)

18:25 ■ Discussion.

DEACONS  
SUITE

D29

17:00 - 18:30

## PARALLEL SESSION 8 Psychiatry

Moderators: David CHRISTMAS (UK), Sameer SHETH (USA), Giorgio SPATOLA (FRANCE)

17:00 ■ #16151 - O070 Stereotactic radiosurgical capsulotomy for obsessive-compulsive disorder: initial results using a "Goldilocks" 5-shot radiosurgical plan. [Sameer SHETH](#) (Houston, USA), [Yagna PATHAK](#), [Ian PADDICK](#), [Deepti ANBARASAN](#), [Tony WANG](#), [Antonio LOPES](#), [Marcelo HOEXTER](#), [Benjamin GREENBERG](#), [Steven RASMUSSEN](#), [Euripedes MIGUEL](#), [Nicole MCLAUGHLIN](#), [Garrett BANKS](#)

17:10 ■ #16235 - O071 Cognitive and emotional effects of antero-ventral STN DBS in refractory OCD. [Mircea POLOSAN](#) (Grenoble cedex 09), [Stephan CHABARDES](#), [Astrid KIBLEUR](#), [Julien BASTIN](#), [Fabien DROUX](#), [Eric SEIGNEURET](#), [Alexandre KRAINIK](#), [Olivier DAVID](#), [Paul KRACK](#), [Valerie VOON](#)

17:20 ■ #16271 - O072 Gamma Knife Anterior Capsulotomy for refractory obsessive-compulsive disorder: results in a series of 10 consecutive patients. [Giorgio SPATOLA](#) (Marseille), [Roberto MARTINEZ ALVAREZ](#), [Nuria MARTINEZ](#), [Raphaelle RICHIERI](#), [German REY](#), [Jean Marie REGIS](#)

17:30 ■ #16297 - O073 Results from six years experience of deep brain stimulation in the bed nucleus of stria terminalis in obsessive-compulsive disorder. [Matilda NAESSTRÖM](#) (Umeå, SWEDEN), [Patric BLOMSTEDT](#), [Marwan HARIZ](#), [Owe BODLUND](#)

17:40 ■ #16329 - O074 Brain networks implicated in ventral capsule and anteromedial subthalamic nucleus stimulation for refractory obsessive-compulsive disorder. [Harith AKRAM](#) (London, UK), [Trevor W. ROBBINS](#), [Himanshu TYAGI](#), [Annemieke M. APERGIS-SCHOUTE](#), [Tom FOLTYNIE](#), [Patricia LIMOUSIN](#), [Lynne M. DRUMMOND](#), [Naomi A. FINEBERG](#), [Keith MATTHEWS](#), [Marjan JAHANSHAH](#), [Barbara SAHAKIAN](#), [Eileen JOYCE](#), [Ludvic ZRINZO](#)

17:50 ■ #16343 - O075 Anatomic Description of the Ventral Capsule and Orbitofrontal Radiation Confluence as a possible hot spot for OCD DBS. [José Francisco PEREIRA](#), [Eduardo Joaquim ALHO](#), [Clement HAMANI](#), [Helmut HEINSEN](#), [Antonio Carlos LOPEZ](#), [Fabio GODINHO](#)

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Jacobsen Teixeira MANOEL, Marcelo BATISTUZZO, Marcelo Q HOEXTER, Euripides Constantino MIGUEL, [Fonoff ERICH](#) (Sao Paulo, BRAZIL)

18:00 ■ #14821 - O076 Clinical Characteristics of Obsessive-Compulsive Disorder: Focusing on Psychiatric Diagnosis and Comorbidities.

[Yasushi OKAMURA](#) (Tokyo, JAPAN), [Katsushige WATANABE](#), [Tatsuya SUGIMOTO](#), [Hirohiko HARIMA](#), [Masahiko SAITO](#), [Yoshio HIRAYASU](#), [Makoto TANIGUCHI](#)

18:05 ■ #16142 - O077 Modulation of oscillatory neuronal activity by high frequency deep brain stimulation in the bed nucleus of the stria terminalis/internal capsule in obsessive compulsive disorder. [Mesbah ALAM](#) (Hannover, GERMANY), [Saryyeva ASSEL](#), [Hans E. HEISLER](#), [Winter LOTTA](#), [Ivo HEITLAND](#), [Kahl KAI](#), [Kerstin SCHWABE](#), [Joachim K KRAUSS](#)

18:10 ■ #16375 - O078 Robot assisted guide tube insertion and radiofrequency lesioning for psychiatric disorders and epilepsy. [Reiko ASHIDA](#) (Bristol, UK), [Angelo PICHIERRI](#), [Neil BARUA](#), [Malizia ANDREA L.](#), [Nikunj K PATEL](#)

18:10 ■ Discussion.

18:30

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18:30 - 19:05

## PARALLEL SESSION 9

Other & Oncology

Moderators: [Brigitte GATTERBAUER](#) (AUSTRIA), [Chris HONEY](#) (CANADA), [Sadaquate KHAN](#) (UK)

18:30 ■ #16136 - O079 Application accuracy of the frameless neuro stereotaxy based on non-invasive fiducial systems. [Mariusz PIETRZYK](#) (Miskin, UK), [Max WOOLLEY](#), [Catherine MORAN](#), [Neil BARUA](#), [Steven GILL](#)

18:35 ■ #16153 - O080 Does microelectrode recording increase haemorrhage? A comparative study in a large patient cohort over 20 years. [Joachim RUNGE](#) (Hannover, GERMANY), [Assel SARYEVA](#), [Marc WOLF](#), [Christian BLAHAK](#), [Christoph SCHRADER](#), [Holger H. CAPELLE](#), [Hansjörg BÄZNER](#), [Mahmoud ABDALLAT](#), [Joachim K. KRAUSS](#)

18:40 ■ #16164 - O081 Concurrent hemi-laryngopharyngeal spasm (HELPS) and glossopharyngeal neuralgia: the first two cases and a review of the literature. [Christopher HONEY](#) (Vancouver, CANADA), [Murray MORRISON](#)

18:45 ■ #16325 - O082 Stereotactic Cisternal Lavage Therapy Reduces DCI and Improves Outcome in Patients with Aneurysmal Subarachnoid Hemorrhage. [Peter C. REINACHER](#) (Freiburg, GERMANY), [Volker A. COENEN](#), [Christian SCHEIWE](#), [Karl EGGER](#), [Wolf-Dirk NIESEN](#), [Christine STEIERT](#), [Roland ROELZ](#)

18:50 ■ #16349 - O083 The Neurosurgical Treatment of Spasmodic Dysphonia: Preliminary results of a Prospective, Randomized, Sham-Controlled (DEBUSSY) Trial. [Christopher HONEY](#) (Vancouver, CANADA), [Anujan POOLOGAINDRAN](#), [Murray MORRISON](#), [Rammage LINDA](#), [Nancy POLYHRONOPOULOS](#), [Josue AVECILLAS-CHASIN](#)

18:55 ■ #16372 - O084 Optical tool for stereotactic brain tumor biopsy guidance. [Johan RICHTER](#) (Linköping, SWEDEN), [Neda HAJ-HOSSEINI](#), [Peter MILOS](#), [Martin HALLBECK](#), [Karin WÄRDELL](#)

19:00 ■ #16377 - O085 Hyperbaric Oxygen Therapy as adjuvant treatment for hardware-related infections in neuromodulation. [Jiri Jr BARTEK](#), [Simon SCHYRMAN](#), [Tiit MATHIESEN](#), [Folke LIND](#), [Gastón SCHECHTMANN](#) (Stockholm, SWEDEN)

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SUITE

D29B

18:30 - 19:00

## PARALLEL SESSION 10

Imaging & Neuronavigation

Moderators: [Harith AKRAM](#) (UK), [Juan Antonio BARCIA](#) (SPAIN), [Cameron MCINTYRE](#) (USA)

18:30 ■ #16163 - O086 Automatic segmentation of the subthalamic nucleus: a viable option to support planning and visualization of patient-specific targeting in deep brain stimulation. [Peter C. REINACHER](#) (Freiburg, GERMANY), [Bálint VÁRCUTI](#), [Marie T. KRÜGER](#), [Tobias PIROTH](#), [Karl EGGER](#), [Roland ROELZ](#), [Volker A. COENEN](#)

18:35 ■ #16231 - O087 Accuracy of Different Three-Dimensional Subcortical Human Brain Atlases for DBS –Lead Localisation. [Andreas NOWACKI](#), [Anh Khoa NGUYEN](#) (Bern, SWITZERLAND), [Ines DEBOVE](#), [Katrin PETERMANN](#), [Gerd TINKHAUSER](#), [Roland WIEST](#), [Claudio POLLO](#)

18:40 ■ #16288 - O088 Using 21st century tools to rebuild Talairach atlas. [Alexandre RAINHA CAMPOS](#) (Lisbon, PORTUGAL), [Lia NETO](#), [Sara FERREIRA](#), [Guilherme VILHAIS](#), [Pedro HENRIQUES](#), [António GONÇALVES-FERREIRA](#)

18:45 ■ #16303 - O089 Magnetic resonance fingerprinting for target identification in deep brain stimulation. [Dan MA](#), [Angela NOECKER](#), [Mark GRISWOLD](#), [Cameron MCINTYRE](#) (Cleveland, USA)

18:50 ■ #16373 - O090 Implementation of intraoperative flat panel (O-arm) CT for stereotactic imaging during DBS procedures. [Roos HOLEWIJN](#), [Maarten BOT](#) (Amsterdam, THE NETHERLANDS), [Pepijn VAN DEN MUNCKHOF](#), [Rick SCHUURMAN](#)

18:55 ■ #16382 - O091 Comparison of intraoperative CT accuracy with postoperative CT scan for DBS lead verification. [Yara WILLEMS](#), [Carel HOFFMANN](#), [Arne MOSCH](#), [Maria Fiorella CONTARINO](#), [Niels VAN DER GAAG](#) (The Hague, THE NETHERLANDS)

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08:30

A31

08:30 - 10:00

## PLENARY SESSION 4

Movement Disorders



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Moderators: Miroslav GALANDA (SLOVAKIA), Alex GREEN (UK), Michael SCHULDER (USA)

08:30 ■ #14471 - O092 Resting-state fMRI relates to clinical response after Vim radiosurgery for essential tremor. [Constantin TULEASCA](#) (Lausanne, SWITZERLAND), Jean RÉGIS, Elena NAJDENOVSKA, Tatiana WITJAS, Nadine GIRARD, Jerome CHAMPOUDRY, Mohamed FAOUZI, Jean-Philippe THIRAN, Meritxell BACH CUADRA, Marc LEVIVIER, Dimitri VAN DE VILLE

08:40 ■ #16190 - O093 A prospective trial of MRigFUS thalamotomy for ET: 2 year follow-up results. Jin CHANG, [Rees COSGROVE](#) (Boston, USA), Chang Kyu PARK, Nir LIPSMAN, Michael SCHWARTZ, Pejman GHANOUNI, Jaimie HENDERSON, Ryder GWINN, Travis TIERNEY, Takaomi TAIRA, Andres LOZANO, Howard EISENBERG, Jeff ELIAS

09:10 ■ #14799 - O096 Optimizing stereotactic coordinates of Prelemniscal Radiations as target for the treatment of Parkinson's disease. II. Individual variations in stereotactic location of fiber components: A probabilistic tractography study. [Mauricio ESQUEDA-LIQUIDANO](#), María Guadalupe GARCÍA-GOMAR, Luis CONCHA, Gustavo AGUADO CARRILLO, Ernesto ROLDÁN-VALADEZ, [Francisco VELASCO CAMPOS](#) (MEXICO, MEXICO)

09:20 ■ #16170 - O097 INTREPID: a prospective, double blinded, multicenter randomized controlled trial evaluating deep brain stimulation with a new multiple source, constant current rechargeable system in parkinson's disease. [Jerrold VITEK](#) (Minneapolis, USA), Intrepid STUDY GROUP, Roshini JAIN, Lilly CHEN, Philip A. STARR

09:30 ■ #16307 - O098 Has deep brain stimulation changed the natural history of Parkinson's disease? A case control longitudinal study. [Philipp MAHLKNECHT](#) (Innsbruck, AUSTRIA), Marina PEBALL, Katherina MAIR, Mario WERKMANN, Michael NOCKER, Elisabeth WOLF, Wilhelm EISNER, Cecilia PERALTA, Sabine ESCHLBÖCK, Gregor WENNING, Peter WILLEIT, Klaus SEPPI, Werner POEWE

09:40 ■ #16374 - O099 Deep brain stimulation for Parkinson's Disease: refining the optimal location within the subthalamic nucleus. [Maarten BOT](#) (Amsterdam, THE NETHERLANDS), Rick SCHUURMAN, Rob DE BIE, Vincent ODEKERKEN, Pepijn VAN DEN MUNCKHOF

09:50 ■ Discussion.

FESTIVAL  
THEATRE  
AUDITORIUM

10:00

A32

10:00 - 10:30

COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

10:30

A33

10:30 - 12:00

PLENARY SESSION 5  
Surgery for Depression

Moderators: Benjamin GREENBERG (USA), Marwan HARIZ (UK), Andres LOZANO (CANADA)

10:30 ■ Genetic and Functional Architecture of Mood Disorders. [Andrew MCINTOSH](#) (UK)

10:50 ■ DBS for depression. [Volker COENEN](#) (GERMANY)

11:10 ■ Stereotactic ablation (capsulotomy & cingulotomy) for depression. [David CHRISTMAS](#) (UK)

11:30 ■ The psychiatrist perspective on surgical results for depression. [Keith MATTHEWS](#) (UK)

11:50 ■ #16347 - O100 Retrospective and prospective evaluation of tractography for bilateral anterior capsulotomy in patients with depression. Josue AVECILLAS-CHASIN, Trevor HURWITZ, [Christopher HONEY](#) (Vancouver, CANADA)

FESTIVAL  
THEATRE  
AUDITORIUM

12:00

B34

12:00 - 13:30

INDUSTRY LUNCH WORKSHOP

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12:00 - 13:30

INDUSTRY LUNCH WORKSHOP

WOLFSON  
HALL B

A35

12:00 - 13:30

LUNCH BREAK & VISIT OF POSTERS AND EXHIBITION

A34

12:00 - 13:30

INDUSTRY LUNCH WORKSHOP

FESTIVAL  
THEATRE  
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13:30

A36

13:30 - 14:35

## PLENARY SESSION 6

### Pain Surgery

Moderators: [Jonathan HYAM \(UK\)](#), [Roman LISCAK \(CZECH REPUBLIC\)](#), [Angelo FRANZINI \(ITALY\)](#)

13:30 ■ Cluster Headache & Migraine. [Angelo FRANZINI \(ITALY\)](#)

13:45 ■ Cortical stimulation. [Patrick MERTENS \(FRANCE\)](#), [Andrei BRINZEU \(FRANCE\)](#)

14:00 ■ Update on neurosurgery for chronic pain. [Tipu AZIZ \(UK\)](#)

14:15 ■ #16338 - O101 Long-term Experience with Occipital and Supraorbital Nerve Stimulation for the Various Headache Disorders – an Institutional Case Series. [Mahmoud ABDALLAT \(Amman, JORDAN\)](#)

14:25 ■ #14474 - O101b Trigeminal ultrasonic nucleotracotomy for treatment of deafferentation facial pain. [Andrey SITNIKOV \(Moscow, RUSSIA\)](#), [Yuri GRIGORYAN](#)

FESTIVAL  
THEATRE  
AUDITORIUM

14:30

A37

14:30 - 15:00

## COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

15:00

A38

15:00 - 17:00

## PARALLEL SESSION 11

### Advance Imaging in Functional NS benefit & limitations of each

Moderators: [Alexandre CAMPOS \(PORTUGAL\)](#), [Julian EVANS \(UK\)](#), [Sameer SHETH \(USA\)](#)

15:00 ■ Tractography for Capsulotomy. [Sameer SHETH \(USA\)](#)

15:15 ■ Structural connectivity. [Harith AKRAM \(UK\)](#)

15:45 ■ #16311 - O102 Holographic visualization of deep brain stimulation. [Mikkel PETERSEN](#), [Angela NOECKER](#), [Jeff MLAKER](#), [Mark GRISWOLD](#), [Cameron MCINTYRE \(Cleveland, USA\)](#)

15:55 ■ #16319 - O103 Geometric distortions in stereotactic MR brain imaging: acquisition center sensibility and constructor distortion filtering. [Gizem TEMIZ](#), [Fernando PÉREZ-GARCÍA](#), [Sara FERNÁNDEZ-VIDAL](#), [Catherine JENNY](#), [Marguerite CUTTAT](#), [Romain VALABRÈGUE](#), [Carine KARACHI](#), [Didier DORMONT](#), [Stéphane LEHÉRICY](#), [Nadya PYATIGORSKAYA](#), [Eric BARDINET \(PARIS\)](#)

16:05 ■ #16333 - O104 Single-subject connectomics with morphometric similarity networks in patients with Parkinson's disease prior to deep brain stimulation. [Michael HART \(Cambridge, UK\)](#), [Rafael ROMERO-GARCIA](#), [Philip BUTTERY](#), [Robert MORRIS](#), [Jakob SEIDLITZ](#)

16:15 ■ #16401 - O105 Tractography reconstruction of hyperdirect pathway fibers connecting the primary motor cortex to the subthalamic nucleus. [Sonia PUJOL](#), [Ryan CABEEN](#), [Sophie SEBILLE](#), [Jérôme YELNIK](#), [Chantal FRANÇOIS](#), [Sara FERNANDEZ VIDAL](#), [Carine KARACHI](#), [Yulong ZHAO](#), [Pierre JANNIN](#), [Michael HAYES](#), [Ron KIKINIS](#), [Eric BARDINET](#), [G. Rees COSGROVE \(,\)](#)

16:20 ■ #16159 - O106 Deep brain stimulation: Patient-specific electrical field simulation and tractography. [Teresa NORDIN \(Linköping, SWEDEN\)](#), [Peter ZSIGMOND](#), [Sonia PUJOL](#), [Carl-Fredrik WESTIN](#), [Karin WÄRDELL](#)

16:30 ■ #16234 - O107 Infusion-enhanced, MRI-guided surgery for deep brain stimulation. [Aaron BOND](#), [Tony WANG](#), [W. Jeff ELIAS \(Charlottesville, USA\)](#)

16:35 ■ #16383 - O108 Probabilistic mapping of the cortical connections of the active contact regions in Vim deep brain stimulation (continuation of the previous study). [Peter SZLOBODA \(Budapest, HUNGARY\)](#), [Ferenc PONGRACZ](#), [Istvan VALÁLIK](#)

16:40 ■ Image-verified DBS as The Standard of Care. [Ludvic ZRINZO \(UK\)](#)

16:55 ■ Discussion.

FESTIVAL  
THEATRE  
AUDITORIUM

B38

15:00 - 17:00

## PARALLEL SESSION 12

### Movement Disorder

Moderators: [Stephan CHABARDÈS \(FRANCE\)](#), [Claudio POLLO \(SWITZERLAND\)](#), [Erlick PEREIRA \(UK\)](#), [Jordi RUMIA \(SPAIN\)](#)

15:00 ■ Directional electrodes. [Stephan CHABARDÈS \(FRANCE\)](#)

15:15 ■ #14911 - O109 Changes of functional and dysfunctional impulsivities after deep brain stimulation of the subthalamic nucleus : predictive factors and electrodes location. [Robin KARDOUS](#), [Bruno GIORDANA](#), [Caroline GIORDANA](#), [Michel BORG](#), [Jean Jacques LEMAIRE](#), [Denys FONTAINE \(Nice\)](#)

15:20 ■ #14952 - O110 The influence of brain atrophy on targeting accuracy and outcome in robot-assisted, guide tube-directed DBS for Parkinson's Disease. [Neil BARUA \(Bristol, UK\)](#), [Mariusz PIETRZYK](#), [Catherine MORAN](#), [Max WOOLLEY](#), [Steven GILL](#)

15:25 ■ #15046 - O111 Bilateral Deep Brain Stimulation in the caudal Zona incerta for Parkinson's disease - 1-year evaluation. [Rasmus STENMARK P. \(Umeå, SWEDEN\)](#), [Teresa NORDIN](#), [Gun-Marie HARIZ](#), [Patric BLOMSTEDT](#)



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- 15:30 ■ #16134 - O112 Fiber-tracts associated with the alleviation of bradykinesia in deep brain stimulation for Parkinson's disease. [Quirin STROTZER](#) (Regensburg, GERMANY), [Judith ANTHOFER](#), [Rupert FALTERMEIER](#), [Alexander BRAWANSKI](#), [Claudia FELLNER](#), [Anton BEER](#), [Juergen SCHLAIER](#)
- 15:40 ■ #16194 - O114 Are there advantages of dbs on the awake pd patient for the clinical outcome? [Soeren K. HAUCK](#) (Hannover, GERMANY), [Steffen PASCHEN](#), [Jan VOGLER](#), [Michael SYNOWITZ](#), [H. Maximilian MEHDORN](#), [Daniela FALK](#)
- 15:45 ■ #16198 - O115 Bilateral thalamic deep brain stimulation for post-encephalitic movement disorders: A case report. [Yusuke NAKAJIMA](#) (Seidocho, Nakagyo-ku, Kyoto-shi, Kyoto, JAPAN), [Namiko NISHIDA](#), [Shigeto NAGAO](#), [Akihiko OZAKI](#), [Koichi IWASAKI](#), [Hiroki TODA](#)
- 15:50 ■ #16199 - O116 Endoscopic third ventriculostomy for parkinsonism due to hydrocephalus caused by aqueductal stenosis after midbrain hemorrhage: A case report. [Namiko NISHIDA](#) (Osaka, JAPAN), [Yasunori NAGAI](#), [Naoya YOSHIMOTO](#), [Hirokuni HASHIKATA](#), [Masanori GOTO](#), [Kenichi KOMATSU](#), [Hidemoto SAIKI](#), [Hiroki TODA](#), [Sadayuki MATSUMOTO](#), [Koichi IWASAKI](#)
- 15:55 ■ #16203 - O117 Correlation between the volume of activated tissue, its overlap with the pyramidal tract, and the intra-operative side effect threshold. [Katia BUNAUX](#) (Amiens), [Mélissa TIR](#), [Jean-Marc CONSTANS](#), [Jean-Michel MACRON](#), [Pierre KRYSZKOWIAK](#), [Michel LEFRANC](#)
- 16:00 ■ #16219 - O118 Pallidotomy and pallidal deep brain stimulation in 2 patients with post-hyperglycaemic chorea-ballism. [Philippe DE VLOO](#) (Leuven, BELGIUM), [Robert DALLAPIAZZA](#), [Darrin LEE](#), [Luka MILOSEVIC](#), [William HUTCHINSON](#), [Alfonso FASANO](#), [Renato MUNHOZ](#), [Anthony LANG](#), [Suneil KALIA](#), [Andres LOZANO](#)
- 16:05 ■ #16230 - O119 Directional deep brain stimulation of the subthalamic nucleus: towards defining the best directionality and anatomical stimulation site. [Andreas NOWACKI](#) (Bern, SWITZERLAND), [Anh Khoa NGUYEN](#), [Ines DEBOVE](#), [Gerd TINKHAUSER](#), [Katrin PETERMANN](#), [Roland WIEST](#), [Claudio POLLO](#)
- 16:10 ■ #16275 - O120 Perceived intraoperative stress of movement disorder patients undergoing awake deep brain stimulation surgery. [Johanna SIEGER](#), [Alessandro GULBERTI](#), [Johannes KOEPPEN](#), [Hans O PINNSCHMIDT](#), [Rainer NITZSCHKE](#), [Miriam SCHAPER](#), [Carsten BUHMANN](#), [Andreas K ENGEL](#), [Anja MEHNERT](#), [Christian GERLOFF](#), [Manfred WESTPHAL](#), [Monika POETTER-NERGER](#), [Wolfgang HAMEL](#), [Christian Ke MOLL](#), [Christian Ke MOLL](#) (Hamburg, GERMANY)
- 16:15 ■ #16276 - O121 Assessment of directional deep brain stimulation in essential tremor. [Miriam SCHAPER](#) (Hamburg, GERMANY), [Christian Ke MOLL](#), [Alessandro GULBERTI](#), [Ute HIDDING](#), [Carsten BUHMANN](#), [Andreas Ak ENGEL](#), [Christian GERLOFF](#), [Manfred WESTPHAL](#), [Johannes A KOEPPEN](#), [Monika POETTER-NERGER](#), [Wolfgang HAMEL](#)
- 16:20 ■ #16287 - O122 Phase resetting mechanism of thalamic oscillatory activity contributes to the generation of the somatosensory evoked potentials in Vim thalamus in patients with essential tremor and Parkinson's disease. [Katsushige WATANABE](#) (Tokyo, JAPAN), [Sumito SATO](#), [Yasushi OKAMURA](#), [Hiromi KAMO](#), [Makoto TANIGUCHI](#)
- 16:25 ■ #16295 - O123 Investigating the effect of STN-DBS stimulation and different frequencies settings on the acoustic-articulatory features of vowels. [Atilla YILMAZ](#) (Hatay, TURKEY), [Elif Tugba SARAC](#), [Fatma Esen AYDINLI](#), [Mustafa Turgut YILDIZGOREN](#), [Esra OKUYUCU](#), [Mustafa ARAS](#), [Şükrü ORAL](#), [Yurdal SERARSLAN](#)
- 16:30 ■ #16320 - O124 Outcome of Subthalamic Nucleus deep brain stimulation in Parkinson's Disease after 15 years. [Lucas Guido WESTERINK](#) (Rotterdam, THE NETHERLANDS), [Yasin TEMEL](#), [Linda ACKERMANS](#), [Annelien DUIJS](#)
- 16:35 ■ #16331 - O125 The Impact of Microelectrode Recording on Lead Placement Accuracy During Deep Brain Stimulation Surgery. [Ryan KOCHANSKI](#), [Gian PAL](#), [Leo VERHAGEN METMAN](#), [Sepehr SANI](#) (Chicago, USA)
- 16:40 ■ #16342 - O126 Corticospinal Tract Activation Threshold Varies in Ring versus Segmented Mode Stimulation in DBS Surgery Using Motor Evoked Potential Measurements. [Ryan KOCHANSKI](#), [Jay SHILLS](#), [Leonard Verhagen METMAN](#), [Sepehr SANI](#) (Chicago, USA)
- 16:45 ■ #16345 - O127 Activation of pallidofugal and nigrothalamic fibers with effective subthalamic nucleus deep brain stimulation for Parkinson's disease. [Josue AVECILLAS-CHASIN](#) (Tarragona, SPAIN), [Christopher HONEY](#)
- 16:50 ■ #16355 - O128 Increasing the proportion of rechargeable neurostimulators: Estimated impact on the financial sustainability of a deep brain stimulation program. [Jordi RUMIÀ](#) (BARCELONA, SPAIN), [Yaroslau COMTA](#), [Pedro ROLDAN](#), [Esteban MUÑOZ](#), [Ana CAMARA](#), [Maria José MARTÍ](#), [Francesc VALLDEORIOLA](#)
- 16:55 ■ #16359 - O129 Effects of spinal cord stimulation on postural control in Parkinson's disease patients with freezing of gait. [Daniel Boari COELHO](#), [Carolina DE OLIVEIRA SOUZA](#) (São Paulo, BRAZIL), [Erich FONOFF](#), [Clement HAMANI](#), [Dos Santos Ghilardi MARIA GABRIELA](#), [Luis Augusto TEIXEIRA](#)

WOLFSON  
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C38

15:00 - 17:00

### PARALLEL SESSION 13

#### Animal Models & Basic Science

Moderators: [Hagai BERGMAN](#) (ISRAEL), [A Holly ROY](#) (UK)

- 15:00 ■ PPN in monkey. [Carine KARACHI](#) (FRANCE)
- 15:15 ■ Animal model for Schizophrenia - first steps towards closed-loop DBS treatment. [Hagai BERGMAN](#) (ISRAEL)
- 15:30 ■ #16356 - O130 Higher endogenous alpha-synuclein confers greater disease susceptibility in parkinson's; clinical-grade alpha-synuclein null human embryonic stem cells may be used to create disease-resistant dopaminergic grafts. [Ammar NATALWALA](#) (Edinburgh, UK), [Yixi CHEN](#), [Karamjit DOLT](#), [Ratsuda YAPOM](#), [Marco KRIEK](#), [Terry BAKER](#), [Patrick DOWNEY](#), [Tilo KUNATH](#)
- 15:40 ■ #16140 - O131 Dorsolateral striatal neuronal activity in a rat model of Parkinson's disease with levodopa-induced dyskinesias. [Xingxing JIN](#), [Denny MILAKARA](#), [Kerstin SCHWABE](#), [Joachim K KRAUSS](#), [Mesbah ALAM](#) (Hannover, GERMANY)
- 15:45 ■ #16149 - O132 Regulation of viral vector gene expression in the hippocampus by medial septal nucleus deep brain stimulation. [Darrin LEE](#) (Toronto, CANADA), [Chris MCKINNON](#), [Mitch DE SNOO](#), [Anton FOMENKO](#), [Eun Jung LEE](#), [Victoria AGAPOVA](#), [Sophie NGANA](#), [Clement HAMANI](#), [Andres LOZANO](#), [Lorraine KALIA](#), [Suneil KALIA](#)
- 15:50 ■ #16386 - O133 The combination of experimental STN DBS and CDFN in rat model of advanced Parkinson's disease. [Antti HUOTARINEN](#) (Kuopio, FINLAND), [Anna-Maija PENTTINEN](#), [Susanne BÄCK](#), [Merja H VOUTILAINEN](#), [Ulrika JULKU](#), [Petteri T. PIEPPONEN](#), [Pekka T MÄNNISTÖ](#), [Mart SAARMA](#), [Raimo TUOMINEN](#), [Aki LAAKSO](#), [Mikko AIRAARA](#)
- 16:00 ■ #16397 - O135 Acute Fornix DBS induces long-term depression of hippocampal synaptophysin levels. [Majed ALDEHRI](#) (Maastricht, THE NETHERLANDS)

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- 16:05 ■ #15007 - O136 Nucleus basalis of Meynert neuronal activity in Parkinson's disease. [Darrin LEE](#) (Toronto, CANADA), [Robert DALLAPIAZZA](#), [Luka MILOSEVIC](#), [Philippe DE VLOO](#), [William HUTCHISON](#), [Suneil KALIA](#), [Andres LOZANO](#)
- 16:15 ■ #16150 - O137 Prominent temporal coding of cognitive control in human prefrontal cortex. [Sameer SHETH](#) (Houston, USA), [Guillermo HORGA](#), [Garrett BANKS](#), [Mark YATES](#), [Yagna PATHAK](#), [Guy MCKHANN](#), [Elliot SMITH](#)
- 16:25 ■ #16189 - O138 Oscillatory coherent networks involving the internal Globus Pallidus and cortex. [Chunyan CAO](#) (Shanghai, CHINA), [Dianyou LI](#), [Yixin PAN](#), [Shikun ZHAN](#), [Vladimir LITVAK](#), [Bomin SUN](#)
- 16:35 ■ #16223 - O139 A new type of thalamic potential related to somato-sensory system. [Jesus PASTOR](#) (Madrid, SPAIN), [Lorena VEGA-ZELAYA](#), [Cristina TORRES](#), [Marta NAVAS](#)
- 16:40 ■ #16268 - O140 Electrophysiological characterization of the centromedian nucleus in humans. [Lorena VEGA-ZELAYA](#) (Madrid, SPAIN), [Jesus PASTOR](#), [Marta NAVAS](#), [Cristina TORRES](#)
- 16:45 ■ #16282 - O141 Incidence of Seizures Induced by Intracranial Research Stimulation: a Multicenter Prospective Study in 770 Sessions Across 188 Patients. [Hannah GOLDSTEIN](#), [Elliot SMITH](#), [Robert GROSS](#), [Barbara JOBST](#), [Bradley LEGA](#), [Michael SPERLING](#), [Greg WORRELL](#), [Kareem ZAGHLOUL](#), [Paul WANDA](#), [Mike KAHANA](#), [Dan RIZUTTO](#), [Catherine SCHEVON](#), [Guy MCKHANN](#), [Sameer SHETH](#) (Houston, USA)
- 16:50 ■ #16300 - O142 Local field potentials in the thalamus and zona incerta during urinary functions. [Holly A ROY](#), [Savva PRONIN](#) (Edinburgh, UK), [Yongzhi HUANG](#), [Tipu Z AZIZ](#), [James J FITZGERALD](#), [Alex L GREEN](#)
- 16:55 ■ Discussion.

D38

15:00 - 17:00

#### PARALLEL SESSION 14 Eating disorders & addiction

Moderators: [Jane MORRIS](#) (UK), [Bomin SUN](#) (CHINA), [Pawel SOKAL](#) (POLAND)

- 15:00 ■ Basics of anorexia. [Jane MORRIS](#) (UK)
- 15:15 ■ DBS for anorexia. [Rebecca PARK](#) (UK)
- 15:30 ■ Stereotactic ablation for anorexia. [Roberto MARTINEZ-ALVAREZ](#) (SPAIN)
- 15:45 ■ Basics of addiction. [Christelle BAUNEZ](#) (FRANCE)
- 16:00 ■ DBS for addiction. [Juergen VOGES](#) (GERMANY)
- 16:15 ■ Surgical treatment for anorexia: DBS or ablation? [Bomin SUN](#) (CHINA)
- 16:30 ■ #16406 - O143 Weight stabilization, based in normalization of the body mass index in 16 patients who underwent deep brain stimulation in the posterior hypothalamus for handling refractory extreme aggressiveness. [Adriana Lucia LOPEZ RIOS](#) (TORONTO, CANADA), [Jonathan Ricardo DE LA CRUZ PABON](#), [Alejandro ARISTIZABAL GAVIRIA](#), [Luisa Fernanda AHUNCA VELASQUEZ](#), [Gloria Elena RENDON PEREZ](#), [Katherine Johanna NARANJO PEREZ](#), [William Duncan HUTCHISON](#)
- 16:40 ■ #16358 - O144 Deep brain stimulation in the treatment of a patient with severe intractable anorexia nervosa – clinical experience and short-term follow up: Case report. [Klaus NOVAK](#) (Wien, AUSTRIA), [Christoph KRAUS](#), [Richard FREY](#)
- 16:50 ■ Discussion.

WOLFSON  
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Saturday 29 September

08:30

A41

08:30 - 10:20

#### PLENARY SESSION 7 Innovation

Moderators: [Laurence DUNN](#) (UK), [Ruby MAHESPARAN](#) (NORWAY), [Stéphane PALFI](#) (FRANCE)

- 08:30 ■ Gene therapy for neurological disorders: Current status and future prospects. [Stéphane PALFI](#) (FRANCE)
- 08:50 ■ Spinal cord stimulation for Parkinson. [Grégoire COURTINE](#) (SWITZERLAND)
- 09:10 ■ The first Grenoble BMI. [Alim Louis BENABID](#) (FRANCE)
- 09:30 ■ Electrical stimulation and recording of the abnormal brain cavity wall. [Philippe DE VLOO](#) (BELGIUM)
- 09:50 ■ Predicting pain & predicting pain relief: How imaging derived structural features can help us understand trigeminal neuralgia. [Mojgan HODAIE](#) (CANADA)

FESTIVAL  
THEATRE  
AUDITORIUM

10:20

A42

10:20 - 10:50

#### COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

10:50

A44

10:50 - 12:30





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### CLOSING LECTURES

Moderators: Antonio GONÇALVES FERREIRA (PORTUGAL), Joachim K. KRAUSS (GERMANY), Jean REGIS (FRANCE)

FESTIVAL  
THEATRE  
AUDITORIUM

10:50 ■ Adaptive stimulation for PD. TBA.

11:10 ■ Ethics of DBS for disorders of mood and mind. Marwan HARIZ (UK)

11:30 ■ 25 years of STN DBS. Patricia LIMOUSIN (UK)

11:50 ■ Surgery for dementia. Andres LOZANO (CANADA)

12:10 ■ Update in surgery for Dystonia. Joachim K. KRAUSS (GERMANY)

12:30

A45

12:30 - 13:00

### ESSFN RESEARCH GRANT AND AWARDS 2018

Moderators: Antonio GONÇALVES FERREIRA (PORTUGAL), Joachim K. KRAUSS (GERMANY), Jean REGIS (FRANCE)

FESTIVAL  
THEATRE  
AUDITORIUM