EDINBURGH, Scotland
ROYAL COLLEGE OF SURGEONS

26-29 September 2018

XXIII CONGRESS OF THE EUROPEAN SOCIETY FOR STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

www.essfncongress.org

European Society for Stereotactic and Functional Neurosurgery
Dear colleagues, dear friends, dear citizens

The XXIII congress of the European Society for Stereotactic and Functional Neurosurgery (ESSFN) will take place in Edinburgh, Scotland on September 26-29, 2018, at The Royal College of Surgeons, a venue with over 500 years of rich surgical history.

The First Congress of the ESSFN was held in 1972 in Edinburgh. The 2018 congress will be the first ESSFN meeting jointly organised by neurosurgeons (Ludvic Zrinzo and Marwan Hariz from The National Hospital, Queen Square, London) and a psychiatrist (Keith Matthews, Professor of Psychiatry, University of Dundee, Scotland). Hence, one of the main meeting topics will be neurosurgical approaches for psychiatric disorders. Leading neuropsychologists, psychiatrists and neurosurgeons will be invited to discuss and debate the place of surgery in the treatment of depression, OCD, Tourette’s Syndrome, anorexia nervosa and other mental disorders.

Pain, Epilepsy, Parkinson’s disease and other movement disorders will also be major topics with discussion of the latest advances in clinical management, technology and scientific research. The ESSFN congress will also highlight non-stereotactic functional surgery in epilepsy, pain, spasticity and other conditions, as well as stereotactic non-functional neurosurgery for brain tumours, radiosurgery, and other stereotactic therapies.

The year 2018 marks the 110th anniversary of Victor Horsley’s and Robert Henry Clarke’s publication on the stereotaxic method, and the 25th anniversary of STN DBS. It also marks the 50th anniversary of the Parkinson’s Disease Symposium at the Royal College of Surgeons of Edinburgh, organised by John Gillingham, one of the pioneers of British Stereotactic and Functional Neurosurgery, and co-founder of the ESSFN in 1970. At that symposium, Robert Schwab presented the now famous Schwab and England ADL scale; Margaret Hoehn and Melvin Yahr described the evaluation of Parkinson’s Disease patients after surgery; and the first rudimentary “DBS” procedures targeting two brain areas for tremor, the Vim and the subthalamic area, was presented.

For the culturally interested, Edinburgh, the historic capital of Scotland and centre of the Scottish Enlightenment, offers many delights from its internationally renowned Festivals, its many Galleries, its imperious Castle and its fine food and drink. Sampling haggis and whisky may be optional, but it is essential.

We hope that the XXIII Congress of the ESSFN will provide intellectual stimulation and unforgettable memories of scientific, neurosurgical, psychiatric, cultural, culinary and social excellence.

Welcome to Edinburgh in September 2018

The organizing committee

The European Society for Stereotactic and Functional Neurosurgery (ESSFN) frontiers the progress of functional and stereotactic neurosurgery of the human nervous system. A key mission of the society is to develop and teach functional and stereotactic treatments for neuropsychiatric disorders and to provide a forum for education and communication.

The Society achieves its objectives through:
> Congresses, lectures and practical courses as well as scientific publications
> Personal contacts and close relationships among the members themselves and with physicians and scientists in all specialized fields
> The journal Stereotactic and Functional Neurosurgery: the official journal of ESSFN

The membership of the Society has increased steadily over the past few years, to close to 300 members.

ESSFN OFFICERS

President: Damianos SAKAS
Department of Neurosurgery
Evangelismos Hospital
Athens, Greece

Vice President: Antonio GONÇALVES-FERREIRA
Department of Neurosurgery
Santa Maria Hospital
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Secretary: Jean REGIS
Department of Functional Neurosurgery
La Timone Hospital
Marseille, France

second secretary: Jocelyne BLOCH
Neurosurgery Research Group
Lausanne, Switzerland

Treasurer: Rick SCHUURMAN
Department of Neurosurgery
Academic Medical Center
Amsterdam, The Netherlands

LOCAL ORGANISING COMMITTEE

Ludvic ZRINZO
Marwan HARIZ
Keith MATTHEWS
# Programme

**Updated 3 September 2018 - Please refer to the online programme for latest update**

## Wednesday 26 September

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<td><strong>D11</strong> Pre-congress for Psychiatrists (Special Event)</td>
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<td>18:30 - 19:10</td>
<td><strong>A13</strong> Congress Opening Ceremony</td>
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<td><strong>A15</strong> Welcome Reception in the Exhibition Area</td>
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**Programme Details**

### 15:00 - 15:30
- **D12** Welcome Coffee
- **Wolfson Hall B**

### 15:30 - 18:00
- **D11** Pre-congress for Psychiatrists (Special Event)
- **Moderators**: Benjamin Greenberg (USA), Keith Matthews (UK)
- **Wolfson Hall B**

#### 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.
5. Post-Operative Management: lessons and suggestions.
7. AoCB.

16:30 #15021 - OP001 Ethics of deep brain stimulation in adolescent patients with refractory tourette syndrome.
- Anouk SMEETS (Hulsberg, THE NETHERLANDS), Annelien DUITS, Dorothee HORSTKÖTTER, Cara VERDELLEN, Guido DE WERT, Yasin TEMEL, Linda ACKERMANS, Albert LEENTJENS, Raphaelle RICHERI (Marseille, FRANCE), Jean REGIS, Giorgio SPATOLA

### 18:30 - 19:10
- **A13** Congress Opening Ceremony
- **Festival Theatre Auditorium**

#### Chairmen's Welcome
- Marwan Hariz (UK), Keith Matthews (UK), Ludovic Zrinzo (UK)

#### Welcome address
- Dan LEKSELL (SWEDEN)

#### The History of Medicine and Neuroscience in Edinburgh
- David Cunningham Owens (UK)

19:10 - 20:00 Welcome Reception in the Exhibition Area
FESTIVAL THEATRE AUDITORIUM WOLFSOHN HALL A DEACONS SUITE WOLFSOHN HALL B

08:30 - 10:00
A21 - PLENARY SESSION 1 Opening ceremony & special lectures

10:00 - 10:30 COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

10:30 - 12:00
A23 - PLENARY SESSION 2 Surgery for OCD

12:00 - 13:30 INDUSTRY LUNCH WORKSHOP B24 INDUSTRY LUNCH WORKSHOP C24 INDUSTRY LUNCH WORKSHOP D24 INDUSTRY LUNCH WORKSHOP

13:30 - 15:00
A26 - PLENARY SESSION 3 Surgery for Epilepsy

15:00 - 15:30 COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

15:30 - 17:00
A28 - PARALLEL SESSION 1 Rehabilitation
B28 - PARALLEL SESSION 2 Movement Disorders / Dystonia
C28 - PARALLEL SESSION 3 Surgery for Tourette
D28 - PARALLEL SESSION 4 Pain Surgery

17:00 - 18:30
A29 - PARALLEL SESSION 5 Renaissance of Lesioning
B29 - PARALLEL SESSION 6 Movement Disorders
C29 - PARALLEL SESSION 7 Epilepsy
D29 - PARALLEL SESSION 8 Psychiatry

18:30 - 19:30
A30 - PARALLEL SESSION 6 Movement Disorders
B30 - PARALLEL SESSION 7 Epilepsy
C30 - PARALLEL SESSION 8 Psychiatry
D30 - PARALLEL SESSION 9 Other & Oncology

20:00 PRESIDENT’S DINNER

08:30 - 10:00
A24 PLENARY SESSION 1 OPENING CEREMONY & SPECIAL LECTURES

FESTIVAL THEATRE AUDITORIUM

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)


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

09:15 History of British stereotactic and functional Neurosurgery. Errick Pereira (UK)

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

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

10:00 - 10:30 COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

10:30 - 12:00
A25 PLENARY SESSION 2 - SURGERY FOR OCD

FESTIVAL THEATRE AUDITORIUM

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 Anterior capsulotomy for the treatment of obsessive-compulsive disorder. Lessons learned from 71 consecutive cases. Damianos Sakas (Greece)

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), Ludovic Zrinzo, Marwan Hariz

11:55 Discussion.

12:00 - 13:30 LUNCH BREAK & VISIT OF POSTERS AND EXHIBITION

INDUSTRY LUNCH WORKSHOPS (details page 19)
15:30 - 17:00
PARALLEL SESSION 2
MOVEMENT DISORDERS/ DYSTONIA

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

16:00 #16172 - O007 Deep brain stimulation neurormodulation reduces severe dystonic pain in children and young people. Sarah PERIDES (London, UK), Francesca GANDOLFI, Georgina GRAY, Liza ANDREW, Daniel LUMSDEN, Richard SELWY, Keyoumars ASHKAN, Margaret KAMINSKA

16:10 #16180 - O010 Bilateral deep-brain stimulation of the internus Globus Pallidus in Dystonia. Brahim MERRUOUCHE (Algiers, ALGERIA), Benaisa ABDEENBE, Lila MAHFOUT

16:20 #16129 - O011 Thalamic deep brain stimulation for dystonic head tremor. Assel SARYYEVA (Hannover, GERMANY), Lejla PARACKIA, Florian WEGNER, Claus ESCHER, Martin KLIEZT, Mahmoud ABDALLAT, Joachim K. KRAUSS

16:30 #16125 - O012 The impact of deep brain stimulation on quality of life in patients with idiopathic dystonia. Assel SARYYEVA (Hannover, GERMANY), Michal SOBSTYL (Warsaw, POLAND), Pawel SOKAL, Marek HARAT, Leszek HERBOWSKI, Zennar KHEDER, Jacek NACEWICZ

16:40 #16334 - O020 Bilateral GPi-DBS for refractory Tourette syndrome. Osvaldo VILELA-FILHO (Goiania, BRAZIL), Paulo RAGAZZO, Joaquim SOUZA, Delson SILVA, Paulo OLIVEIRA, Fabian PIEDIMONTE, Telma CAMPOS

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

17:00 #16227 - O022 Dorsal root entry zone lesioning for intractable pain. Pablo ANDRADE (Cologne, GERMANY), Moritz HOEVELES, Veerle VISSER-VANDEWALLE

15:30 - 17:00
PARALLEL SESSION 4 - PAIN SURGERY

Moderators: Tipu AZIZ (UK), Vladimir SHALABOV (RUSSIA), Ido STRAUSS (ISRAEL)

16:10 #14992 - O023 Occipital nerve stimulation for refractory chronic cluster headache: long-term efficacy and predictive factors. Aurelie LEPLUS (Nice, FRANCE), Serge BLOND, Jean REGIS, Sylvie RAOUIT, Bechir JARRAYA, Ste- phane DERRUY, Stephan CHABARDES, Jimmy VOIRIN, Jocelyne BLOCH, Sophie COLNAT-COULBOIS, François CAIRE, Michel LANTEI-MINET, Denis FONTAINE


16:30 #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 OZTÜRK (Elazig, TURKEY), Dursun AYGUN, Yasin TEMEL, Ersoy KOCABICAK

16:40 #16219 - O013 Medial thalamotomy - radiofrequency thermocoagulation for intractable pain. Laura CIF (FRANCE), Nicolas HAMON, M. François HAMON, Frédéric GAILLARD, Jean REGIS, Vincent SALAND, Michel DENOS

16:50 #16365 - O025 Normalisation of sensory function in patients with neuropathic facial pain syndromes and deep brain stimulation against neuropathic pain. Wilhelm EISNER (Innsbruck, AUSTRIA), Sebastian QUIRIBACH, Ralf BECKER, Johannes KERCHBAUMER, Julia WANSCHITZ, Wolfgang LÖSCHER, Raphael REHWALD

17:00 #16365 - O026 Neurosurgical ablative procedures for intractable cancer pain. Ido STRAUSS (Tel Aviv, ISRAEL), Assaf BERGER, Uri HOCHBERG, Alexander ZEGERMANN, Rotem TELLEM

15:30 - 17:00
PARALLEL SESSION 3 - SURGERY FOR TOURETTE

Moderators: Terry COYNE (AUSTRALIA), Tom FOLTZYNIE (UK), Veerle VISSER-VANDEWALLE (GERMANY)

16:00 #16335 - O032 Bridging veins and veins of the brain stem in microvas- cular decompression surgery for trigeminal neuralgia and hemifacial spasm. Hiroki TODA (Osaka, JAPAN)

16:10 #16272 - O030 Dorsal root entry zone lesioning for pain after a lumbo-sacral plexus avulsion. Mikhail LEVY (Tel Aviv, ISRAEL), Vincent D’HARDERMARE, Mathilde DUVAL, Anne MARGOT-DUCLOS, Jean BRUELLS, Jean Baptiste THIEBAU

16:20 #14678 - O029 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, FRANCE), Pierre Yves BORIUS, Marie FICHAUX, Stephanie RANQUE GARNIER, Sebastien SALAS

16:30 #16315 - O031 Spinal cord stimulation for microcirculation impro- vement. Ido STRAUSS (Tel Aviv, ISRAEL), Assaf BERGER, Uri HOCHBERG, Alexander ZEGERMANN, Rotem TELLEM

16:40 #16336 - O022 Bilateral GPe-DBS for refractory Tourette syndrome. Assel SARYYEVA (Hannover, GERMANY), Lejla PARACKIA, Florian WEGNER, Claus ESCHER, Martin KLIEZT, Mahmoud ABDALLAT, Joachim K. KRAUSS

16:50 #16344 - O021 Deep brain stimulation Neurormodulation reduces severe dystonic pain in children and young people. Sarah PERIDES (London, UK), Francesca GANDOLFI, Georgina GRAY, Liza ANDREW, Daniel LUMSDEN, Richard SELWY, Keyoumars ASHKAN, Margaret KAMINSKA

17:00 #16227 - O023 Occipital nerve stimulation for refractory chronic cluster headache: long-term efficacy and predictive factors. Aurelie LEPLUS (Nice, FRANCE), Serge BLOND, Jean REGIS, Sylvie RAOUIT, Bechir JARRAYA, Ste- phane DERRUY, Stephan CHABARDES, Jimmy VOIRIN, Jocelyne BLOCH, Sophie COLNAT-COULBOIS, François CAIRE, Michel LANTEI-MINET, Denis FONTAINE

17:10 #16221 - O019 Our experience of stereotactic radiofrequency pallido- tomy for the treatment of Tourette syndrome. Vitaliy TSIBALYUK, Kostiantyn KOSTROVYLY (Kyiv, UKRAINE), Yuri MEDVEDEV, Andriy POPOV, Nazar VASYLYV, Maxim SHEVELOV, Varelii CHEBURAKHIN, Sergii DICHKO
17:00 - 19:30

PARALLEL SESSION 5 - RENAISSANCE OF LESIONING

FESTIVAL THEATRE AUDITORIUM

Moderators: Jin Woo CHANG (KOREA), Marwan HARIZ (UK), Kostiantyn KOSTIUK (UKRAINE), Juergen Voges (GERMANY)

17:00 Cingulotomy for depression. Rees COSGROVE (USA), Rafael RODRIGUEZ-ROJAS, Olga PARRAS

17:15 Pros & cons // Lesioning using RF vs GK vs HIFU. Takamoi TAIRA (JAPAN)

17:30 HIFU Capsulotomy for TIC. Jin WOOG 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 - 0036 Bilateral stereotactic anterior nucleotomy in humans for treatment of intractable epilepsy. Andrey SITNIKOV (Moscow, RUSSIA)

18:25 #16257 - 0037 Outcome of focused ultrasound thalamotomy for essential tremor. W. Jeff ELIAS (Charlottesville, USA), Diane HUSS, Tony WANG, Aaron BOND, Binit SHAH

18:35 #15790 - 0038 The STN and Hemiballismus. Historical review. Jorge GURID (Madrid, SPAIN), Rafael RODRIGUEZ-ROJAS, Olga PARRAS

18:45 #16357 - 0039 Focused ultrasound thalamotomy outcomes in 60 consecutive patients with essential tremor. A 3 year 36 month follow-up single center study. Jordi RUMIA (Barcelona, SPAIN), Javier TERCERO, Nuria BARGALLÓ, Meritxell AZANU, Alberto ALOMAR, Francesc VALDEROILEIA

18:55 #16416 - 0400 Bilateral GammaKnl1eThalamotomy for Severe Essential Tremor: Preliminary results of a prospective study. Jean REGIS (Marseille), Axel CRETOL, Romain CARRON, Louise MERLY, Jean Philippe BRANDEL, Nathalie PATTE-KARTKY, Marc ZIEGLER, Jean-Baptiste THEIBAUT

19:05 #16171 - 0054 Safety of bilateral thalamotomy for essential tremor. Takaomi TAIRA (Tokyo, JAPAN), Ghati PRAJAKTA, Shiro HORISAWA

19:15 #16135 - 0042 Safety of bilateral thalamotomy for essential tremor. Takaomi TAIRA (Tokyo, JAPAN), Ghati PRAJAKTA, Shiro HORISAWA

19:20 #16261 - 0043 Unilateral pallidothalamic tractotomy for Parkinson’s disease. Shiro HORISAWA (Shinjuku, JAPAN), Takakazu KAWAMATA, Takaomi TAIRA

19:25 Discussion.

17:00 - 19:00

PARALLEL SESSION 6 - MOVEMENT DISORDERS

WELFORD HALL A

Moderators: Patric BLOMSTED (SWEDEN), Joseph CANDELABRO-MCKEOWN (UK), Istvan VALAK (HUNGARY)

17:00 Asleep DBS in the Zona incerta for PD and ET. Patric BLOMSTED (SWEDEN)

17:20 #14190 - 0044 The increase of dopamine transporter in patients with Parkinson’s disease after subthalamic nucleus deep brain stimulation. Takao NOZAKI (Kamamatsu, JAPAN), Kenji SUGIYAKA, Tetsuya ASAKAWA, Hiroki NAMBA, Masamichi YOKOKURA, Tatsuhiko TERADA, Yasuomi OUCHI

17:30 #16171 - 0045 Five years 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, Vee Re KISSERMANDEL, Michael T. BARBE, Rees COSGROVE (USA), Rafael RODRIGUEZ-ROJAS, Olga PARRAS

17:40 #16429 - 0047 The increase of dopamine transporter density in the ventral striatum and its correlation with motor improvement in patients with Parkinson’s disease. Aaron BOND, Binit SHAH

17:50 #16421 - 0045 3D-visualization planning and predictors of accuracy. Takao NOZAKI (Kamamatsu, JAPAN), Kenji SUGIYAKA, Tetsuya ASAKAWA, Hiroki NAMBA, Masamichi YOKOKURA, Tatsuhiko TERADA, Yasuomi OUCHI

18:00 #16134 - 0050 Ventro-lateral motor thalamus abnormal connectivity in essential tremor before and after thalamotomy: a resting-state fMRI study. Constantin TULEASCA (Lausanne, SWITZERLAND), Jean REGIS, Elena NAJDENOVSKA, Tatiana WITJAS, Nadine GIRARD, Jerome CHAMPOUYDRE, Mohamed FAOUZI, Jean-Philippe THIRAN, Meritxell BACH CAUDA, Marc LEVIVIER, Dimitri VAN DE VILLE

18:15 #14172 - 0051 Connectivity of effective electrode contacts to unresponsive fiber tracts in deep brain stimulation for parkinsonian tremor. Jurgen SCHLAIER (Regensburg, GERMANY), Quirin STROTZER, Judith ANTOHFER, Claudia FELLNER, Alexander BRAWANSKI, Anton BEER

18:30 #16182 - 0054 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 BEULDER

18:45 #16405 - 0055 Levodopa reduces the Phase lag Index of Parkinson’s disease patients’ MEG study. Chunjun CAO (Shanghai, CHINA), Dianyou LI, Peng HUANG, Yixin PAN, Shikun ZHAN, Bomin SUN

18:50 Discussion.

17:00 - 18:30

PARALLEL SESSION 7 - EPILEPSY

DEACONS SUITE

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

17:00 #16143 - 0056 Intracranial electroencephalography during wavelet analysis of high-frequency oscillations in patients with refractory epilepsy. H LEUNG (Hong Kong, CHINA), XI ZHU

17:10 #16183 - 0057 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 PELLICIA, Valeria MARIANI, Luciana GENNARI, Maurizio SBERNA, Michele RIZZI

17:20 #16409 - 0058 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 #16406 - 0059 Radiofrequency ablation of the centromedian nucleus in the treatment of pharmaco-resistant epilepsy: a pilot study for a self-controlled prospective clinical trial. Gustavo AGUADO CARRILLO (Ciudad de Mexico, MEXICO), Francisco VELASCO CAMPOS, Ana Luisa VELASCO MONROY, Julian E. SOTO ABRAHOM, Jose Luis NAVARRO OLVERA, Pablo SAUDECO ALVARADO, Juan Manuel ALTAMIRANO

17:35 #16206 - 0060 Stereotactic electrode placement for SEEG: Advanced 3D-visualization planning and predictors of accuracy. Peter C. REINACHER (Freiburg, GERMANY), Evangelos KOGIAS, Dirk-Mathias ALTMULLER, Kleinthas KARAKOLIOS, Karl EGGER, Volker A. COENEN

17:40 #16224 - 0061 SEEG guided monopolar radiofrequency thermo-coagulation for drug-resistant epilepsy. Krasimir MINKIN (Sofia, BULGARIA), Kaloyan GABROVSKYA, Yoana MILENKOVA, Petar KARAPAZYANOV, Marin PENKOVA, Petya DIMOVA

17:45 #16309 - 0062 Cingulate cortex involvement in frontal lobe epilepsy exploration using Stereo-encephalography (SEEG). Ioana MANDRUTZA, Jean-Philippe THIRAN, Meritxell BACH CUADRA, Marc LEVIVIER, Dimitri VAN DE VILLE

17:50 #16367 - 0063 Concordance of scalp electroencephalography (EEG) with stereo-encephalography (SEEG) in the pre-surgical investigation of patients with intractable epilepsy: influence on surgical outcome. Mahmoud ABDALLAT (Hannover, GERMANY), Jean-CLAUDE JACQUEMAI, Ioana POPA, Andrea BARBORICA, Donos CRISTALI, Mihai MIHAI DRAGOS, Arlene ARBUNNE, Rasina ALIN

18:00 #16361 - 0064 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 AVELLA, Vincenzo ESPOSTO

18:15 #16605 - 0065 Initial Experience using the Visualase MRI-guided stereotactic laser ablation system for epileptogenic Lesions. Idso STRAUSS (Tel Aviv, ISRAEL), Firas FAHOUM, Daniel HAYAT, Assaf BERGER, Ben-Bashat DAFNA, Eisenstein ORNA, Itzhak FRIED
18:00 - 18:30
PARALLEL SESSION 8 - PSYCHIATRY

WOLFSON HALL B

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

17:00 - 17:10 #16161 - O086 Automatic segmentation of the subthalamic nucleus: a viable option to support planning and visualization of patient-specific neurosurgery, Bálint VÁRCUTI, Marie T. KRÜGER, Tobias PIROTH, Karl EGGER, Wolf-Dirk NIESEN, Christine STEIERT, Roland ROELZ

17:10 - 17:20 #16349 - O083 The Neurosurgical Treatment of Spasmodic Dysphonia: Preliminary results of a Prospective, Randomized, Sham-Controlled (DEBUSSY) Trial. Christopher HONEY (Vancouver, CANADA), Anujan POOLOGANDRAN, Murray MORRISON

17:20 - 17:30 #16231 - O087 Accuracy of different three-dimensional subcortical target devices for frameless stereotactic lead implantation. T. VÁRCUTI, A. LIED, R. PIROTH, K. EGGER, W.-D. NIESEN, C. STEIERT, R. ROELZ

17:30 - 17:40 #16136 - O079 Application accuracy of the frameless neuro stereotaxy system for stereotactic imaging during DBS procedures. Peter C. REINACHER (Fribourg, GERMANY), Volker A. COENEN, Christian SCHEIWE, Karl EGGER, Wolf-Dirk NIESEN, Christine STEIERT, Roland ROELZ

17:40 - 17:50 #16415 - O069 Electrical stimulation of subiculum for temporal lobe epilepsy: initial results using a "Goldilocks" 5-shot radiosurgical plan. Martin HALLBECK, Karin WÅRDELL, Tiit MATHIESEN, Folke LIND, Martin HALLBECK, Karin WÅRDELL

17:50 - 18:00 #16140 - 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 (Beek, THE NETHERLANDS), Rob ROUHIl, Yasim TEMEL

18:00 - 18:10 #16145 - O069 Simulated volume of neural activation in anterior nucleus of thalamus in deep brain stimulation for intractable epilepsy. Hussein HAMD (Marseille, FRANCE), Stephan CHABARDES, Claire HAEGELEN, Marc GUENOT, Fabrice BARTOLOMEI, Jean REGIS

18:10 - 18:20 #16142 - O077 Modulation of oscillatory neuronal activity by high-definition deep brain stimulation. Peter C. REINACHER (Fribourg, GERMANY), Volker A. COENEN, Christian SCHEIWE, Karl EGGER, Wolf-Dirk NIESEN, Christine STEIERT, Roland ROELZ

18:20 - 18:30 #16143 - O075 Anatomic description of the ventral capsule and orbitalis subthalamic nucleus stimulation in obsessive-compulsive disorder: focalization in deep brain stimulation. Raphaelle RICHIERI, German REY, Jean Marie REGIS

18:30 - 18:40 #16141 - O074 Anatomic description of the ventral capsule and orbitofrontal radiation confluence as a possible hot spot for OCD DBS. Alexandre RAINHA CAMPOS (Lisbon, PORTUGAL), Lia NETO, Sara FERREIRA, Guilherme VILHAIS, Pedro HENRIQUES, António GONÇALVES-FERREIRA


18:50 - 19:00 #16142 - O077 Modulation of oscillatory neuronal activity by high-definition deep brain stimulation. Peter C. REINACHER (Fribourg, GERMANY), Volker A. COENEN, Christian SCHEIWE, Karl EGGER, Wolf-Dirk NIESEN, Christine STEIERT, Roland ROELZ

18:00 - 18:30
PARALLEL SESSION 9 - OTHER & ONCOLOGY

DEAN’S SUITE

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

17:30 - 17:45 #16137 - O074 Stereotactic radiosurgical capsulotomy for obsessive-compulsive disorder: initial results using a “Goldilocks” 5-shot radiosurgical plan. Sameer SHETH (Houston, USA), Yagna PATHAK, Ian PADDICK, Deepthi ANBARASAN, Tony WANG, Antonio LOPES, Marcelo HOEXTER, Benjamin GREENBERG, Steve

17:45 - 17:55 #16377 - O084 Optical tool for stereotactic brain tumor biopsy guided by rTMS. Johan RICHTER (Linköping, SWEDEN), Neda HAJ-JOSSENEI, Peter MILOSTED, Martin HALLBECK, Karin WÅRDELL

17:55 - 18:05 #16382 - O085 Hyperbaric Oxygen Therapy as adjuvant treatment for hardware-related infections in neuromodulation. Jiri JR. KRAUS, Simon SCHYRMAN, Tüll MATHEISEN, Folke LIND, Gastón SCHEICHTHMAN (Stocholm, SWEDEN)
<table>
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<th>Time</th>
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<td>08:30 - 10:00</td>
<td><strong>PLENARY SESSION 4 - MOVEMENT DISORDERS</strong>&lt;br&gt;FESTIVAL THEATRE AUDITORIUM</td>
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<td>Moderators: Miroslav GALANDA (SLOVAKIA), Alex GREEN (UK), Michael SCHULDER (USA)</td>
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<td><strong>#14471</strong> - 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 CHAMPPOUDRY, Mohamed FAOUZI, Jean-Philippe THIRAN, Meritxell BACH CUADRA, Marc LEVIVIER, Dimitri VAN DE VILLE</td>
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<td>10:00 - 10:30</td>
<td><strong>COFFEE BREAK &amp; VISIT OF POSTERS AND EXHIBITION</strong></td>
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<td>10:30 - 12:00</td>
<td><strong>PLENARY SESSION 5 - SURGERY FOR DEPRESSION</strong>&lt;br&gt;FESTIVAL THEATRE AUDITORIUM</td>
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<td>Moderators: Benjamin GREENBERG (USA), Marwan HARIZ (UK), Andres LOZANO (CANADA)</td>
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<td><strong>#14474 - O101b Trigeminal ultrasonic nucleotractotomy for treatment of deafferentation facial pain. Mahmoud ABDALLAT (Hannover, GERMANY)</strong></td>
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<td>13:30 - 14:35</td>
<td><strong>PLENARY SESSION 6 - PAIN SURGERY</strong>&lt;br&gt;FESTIVAL THEATRE AUDITORIUM</td>
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<td>Moderators: Jonathan HYAM (UK), Roman LISCAK (CZECH REPUBLIC), Angelo FRANZINI (ITALY)</td>
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<td><strong>#16311 - O102 Holographic visualization of deep brain stimulation. Mikkel PETERSEN, Angela NOECKER, Jeff MLAKER, Mark DRASWOLD, Cameron MCINTYRE (Cleveland, USA)</strong></td>
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<td>14:30 - 15:00</td>
<td><strong>COFFEE BREAK &amp; VISIT OF POSTERS AND EXHIBITION</strong></td>
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| 15:00 - 17:00| **PLENARY SESSION 11 - ADVANCE IMAGING IN FUNCTIONAL NS BENEFIT & LIMITATIONS OF EACH**
|              | Moderators: Alexandre CAMPOS (PORTUGAL), Julian EVANS (UK), Sameer SHETH (USA) |
|              | **#16306 - O098 Has deep brain stimulation changed the natural history of Parkinson’s disease? A case control longitudinal study. Volker COENEN (GERMANY)** |
|              | **#16307 - 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** |
|              | **#16317 - O098 Has deep brain stimulation changed the natural history of Parkinson’s disease? A case control longitudinal study. Philipp MAHLKNECHT (Innsbruck, AUSTRIA), Marina PEDALI, Katherina MAIR, Mario WERMANN, Michael NOCKER, Elisabeth WOLF, Wilhelm EISNER, Cecilia PERALTA, Sabine EISELBOCK, Gregor WENNING, Peter WILLEIT, Klaus SEPP, Werner POEWE** |
|              | **#16324 - O099 Comparison of stereotactic subthalamicotomy and pallidotomy in relieving Parkinsonian rigidity. Sujat DAHAL, Subash LOHANI (Kathmandu, NEPAL), Omar AFZAL ALI, Alkim AZEEIM, Khalid MAHMOOD** |
|              | **#16326 - O100 Retrospective and prospective evaluation of tractography for bilateral anterior capsulotomy in patients with depression. Josue AVECELLAS-CHASIN, Trevor HURWITZ, Christopher HONEY (Vancouver, CANADA)** |
|              | **#16327 - O101 Long-term Experience with Occipital and Supraorbital Nerve Stimulation for the Various Headache Disorders – an Institutional Case Series. Mahmoud ABDALLAT (Hannover, GERMANY)** |
|              | **#16338 - O101 Long-term Experience with Occipital and Supraorbital Nerve Stimulation for the Various Headache Disorders – an Institutional Case Series. Mahmoud ABDALLAT (Hannover, GERMANY)** |
|              | **#16347 - O101b Trigeminal ultrasonic nucleotractotomy for treatment of deafferentation facial pain. Andrey SITNIKOV (Moscow, RUSSIA), Yuri GRIGORYAN** |

**Final Programme**

**Friday 28 September**

Updated 3 September 2018

Please refer to the online programme for latest update.
15:55 #16319 - 0103 Geometric distortions in stereotactic MR brain imaging: acquisition center sensibility and constructor distortion filtering. Gizem TEMIZ, Fernando PÉREZ-GARCÍA, Sara FERNANDEZ-VIDAL, Catherine JENNY, Marguerite CUTTAT, Romain VALABREGUE, Carine KARACHI, Didier DORMONT, Stéphane LEHERICY, Nadya PYATIGORSKAYA, Eric BARDINET (Paris, FRANCE)

16:00 #16333 - 0104 Single-subject connectomics with morphometric similarity networks in patients with Parkinson`s disease prior to deep brain stimulation. Abigail M. HART (Cambridge, UK), Rafael ROMERO-GARCIA, Philip BUTTERY, Robert MORRIS, Jakob SEIDLITZ

16:15 #16401 - 0105 Tractography reconstruction of hyperdirect pathway fibers connecting the primary motor cortex to the subthalamic nucleus. Sonia PUJOL, Ryan CABEEN, Sophie SEBILLE, Jérôme VELNIK, Chantal FRANÇOIS, Sara FERNANDEZ-VIDAL, Catherine JENNY, Ming ZHAO, Peter JANIN, Michael HAYES, Ron KIKINIS, Eric BARDINET, G. Rees COSROGVE (Boston, USA)

16:20 #16159 - 0106 Deep brain stimulation: Patient-specific electrical field simulation and tractography. Teresa NORDIN (Linköping, SWEDEN), Peter ZSIGMUND, Sonia PUJOL, Carl-Fredrik WESTIN, Karin WÅRDELL

15:30 #16234 - 0115 Infusion-enhanced, MRI-guided surgery for deep brain stimulation. Aaron BOND, Tony WANG, W. Jeff ELIAS (Charlottesville, USA)

15:35 #16383 - 0108 Probabilistic mapping of the cortical connections of the active contact regions in Vim deep brain stimulation (continuation of the previous study). Peter SZLOBOZA (Budapest, HUNGARY), Ferenc PONGRACZ, Istvan SIKORSKI

16:40 Image-verified DBS as the standard of care. Ludvic ZRINZO (UK)

15:00 - 17:00

PARALLEL SESSION 12 - MOVEMENT DISORDER

Moderators: Stéphan CHABARDES (FRANCE), Claudia POLLO (SWITZERLAND), Erick PEREIRA (UK), Jordi RUMIÀ (SPAIN)

15:00 Directional electrodes. Stéphan CHABARDES (Grenoble, FRANCE)

15:15 #14911 - 0109 Changes of functional and dysfunctional implications after deep brain stimulation of the thalamus in subthalamic nucleus: predictive factors and electrodes location. Robin KARDOUS, Bruno GIORDANA, Caroline GIORDANA, Michel BORG, Jean Jacques LEMAIRE, Denys FONTAINE (Nice, FRANCE)

15:20 #14952 - 0110 The influence of brain atrophy on targeting accuracy and outcome in robot-assisted, guide tube-directed DBS for Parkinson’s Disease. Jutta WOOLLEY, Steven GILL

15:25 #15046 - 0111 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

15:30 #16114 - 0112 Anatomical connectivity of the pallidal complex to thalamus in deep brain stimulation for Parkinson’s disease. Quirin STROTZER (Regensburg, GERMANY), Judith ANTOHER, Rupert FALTERMEIER, Alexander BRAWANSKI, Claudia FELLNER, Anton BEER, Juergen SCHLAIER

15:35 #16173 - 0113 OLEFT-DBS: A prospective, multi-center clinical study with blinding to evaluate a closed loop programming algorithm for deep brain stimulation program. Andrea KÜHN (Berlin, GERMANY), Gregor WENZEL, Christof BRUECKE, Leon JUAREZ PACE, Kenny WYNNTANS, Heleen SCHOLTES, David BLUM

16:00 #16194 - 0114 Are there advantages of DBS on the awake pd patient for the clinical outcome? Soeren K. HAUCK (Hanover, GERMANY), Steffen PASCHEN, Jan VOGLER, Michael SYNOWITZ, H. Maximilian MEHDORN, Daniela FALK

15:45 #16108 - 0115 Bilateral thalamic deep brain stimulation for post-encephalitic movement disorders: A case report. Yusuke NAKAJIMA (Osaka, JAPAN), Namiko NISHIDA, Shigeto NAGAO, Akihiko OZAKI, Koichi IWASAKI, Hiroki TODA

15:50 #16199 - 0116 Endoscopically assisted thalamotomy 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, Saori KIKINIS, Koichi IWASAKI, Hiroki TODA, Sadao KOBAYASHI, Koichi IWASAKI

15:55 #16203 - 0117 Correlation between the volume of activated tissue, its functional similarity networks in patients with Parkinson’s disease prior to deep brain stimulation surgery. Atilla YILMAZ (Hatay, TURKEY), Elif Tugba SARAC, Fatma Esen AYDINLI, Mustafa Turgut YILDIZGOREN, Ana EKURUYU, Mustafa ARAS, Sikiru ORAL, Yurdal SERASLAN

16:00 #16230 - 0120 Outcome of Subthalamic Nucleus deep brain stimulation in Parkinson's Disease after 15 years. Lucas Guido WESTERINK (Rotterdam, THE NETHERLANDS), Yassine TEMEL, Linda KOECHLIN, Christopher VERSCHUEREN

16:05 #16331 - 0125 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)

16:10 #16434 - 0126 Corticospinal Tract Activation Threshold Varies in Rings versus Segmented Mode Stimulation in DBS Surgery Using Motor Evoked Potentials. Aaron BOND, Tony WANG, W. Jeff ELIAS (Charlottesville, USA)

16:15 #16275 - 0122 Perceived intraoperative stress of movement disorder surgeons: A prospective, multi-center study with blinding to intervention. Hagai BERGMAN (ISRAEL), A Holly ROY (UK), Yasin TEMEL

16:20 #16345 - 0127 Activation of pallidofugal and nigrofugal fibers with effective subthalamic nucleus deep brain stimulation for Parkinson’s disease. Josue AVECILLAS-CHASIN (Tarragona, SPAIN), Christopher HONEY

16:25 #16355 - 0129 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 FONDOFF, Clement HAMANI, Dos Santos Gilhardi MARIA GABRIELA, Luis Augusto TEIXEIRA

15:00 - 17:00

PARALLEL SESSION 13 - ANIMAL MODELS & BASIC SCIENCE

DEMONSTRATION

Moderators: Hagai BERGMAN (ISRAEL), A Holly ROY (UK), Yasin TEMEL (THE NETHERLANDS)

15:00 PPN in monkey. Carine KARACHI (Paris, FRANCE)

15:15 Animal model for Schizophrenia - first steps towards closed-loop DBS treatment. Hagai BERGMAN (ISRAEL)

15:30 #16356 - 0130 Higher endogenous alpha-synuclein confers greater disease susceptibility in Parkinson’s; its clinical-grade alpha-synuclein null human embryonic stem cells may be used to create disease-resistant dopaminergic grafts. Attila YILMAZ (Hatay, TURKEY), Elif Tugba SARAC, Fatma Esen AYDINLI, Mustafa Turgut YILDIZGOREN, Ana EKURUYU, Mustafa ARAS, Sikiru ORAL, Yurdal SERASLAN

15:40 #16140 - 0131 Dorsolateral striatal neuronal activity in a rat model of Parkinson’s disease with levodopa-induced dyskinesias. XinXing JIN, Denny MILAKARA, Kerstin SCHWABE, Joachim K KRAUSS, Mesbah ALAM DOWLATI

15:45 #16149 - 0133 Regulation of viral vector gene expression in the hippocampus by medial septal nucleus deep brain stimulation. Daniel Boari COELHO, Carolina DE OLIVEIRA SOUZA (São Paulo, BRAZIL), Erich FONDOFF, Clement HAMANI, Dos Santos Gilhardi MARIA GABRIELA, Luis Augusto TEIXEIRA

16:00 #16355 - 0129 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 FONDOFF, Clement HAMANI, Dos Santos Gilhardi MARIA GABRIELA, Luis Augusto TEIXEIRA
FRIDAY 28 SEPTEMBER

15:55 #16394 - O134 A possible new animal model of Tourette syndrome. Osvaldo VILELA-FILHO (Goiania, BRAZIL), Diego REIS, Priscilla MOREIRA, Jacqueline CASTRO, Uliana SANTOS, Joaquin SOUZA, Delson SILVA, Paulo RAGAZZO, Caroline SANTANA, Flavia GRANDI
16:00 #16397 - O135 Acute Fornix DBS induces long-term depression of hippocampal synaptophysin levels. Majed ALDEHRI (Maastricht, THE NETHERLANDS)
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 soma-to-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 ZAGHLILOUL, Paul 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
15:00 - 17:00 PARALLEL SESSION 14
EATING DISORDERS & ADDICTION
WOLFSON HALL B
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.
### SATURDAY 29 SEPTEMBER

**FESTIVAL THEATRE AUDITORIUM**

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<td><strong>A41 - PLENARY SESSION 7 Innovation</strong></td>
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<td>10:20-10:50</td>
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<td>10:50-12:30</td>
<td><strong>A44 - CLOSING LECTURES</strong></td>
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<td>12:30-13:00</td>
<td><strong>A45 - ESSFN RESEARCH GRANT AND AWARDS 2018</strong></td>
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**08:30 - 10:20**

**PLENARY SESSION 7 - INNOVATION**

**FESTIVAL THEATRE AUDITORIUM**

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)

**10:20 - 10:50** COFFEE BREAK & VISIT OF POSTERS AND EXHIBITION

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**10:50 - 12:30**

**CLOSING LECTURES**

**FESTIVAL THEATRE AUDITORIUM**

- **10:50** Adaptive stimulation for PD. Tom FOLTYNIE (UK)
- **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. Andrés LOZANO (CANADA)
- **12:10** Update in surgery for Dystonia. Joachim K. KRAUSS (GERMANY)

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**12:30 - 13:00**

**ESSFN RESEARCH GRANT AND AWARDS 2018**

**FESTIVAL THEATRE AUDITORIUM**

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**UPDATED 3 SEPTEMBER 2018**

Please refer to the online programme for latest update
BUSINESS MEETINGS

WEDNESDAY 26 SEPTEMBER
09:00 - 13:00 OFFICERS MEETING [GB ONG ROOM]
13:30 - 15:30 EDUCATIONAL COMMITTEE MEETING [GB ONG ROOM]

THURSDAY 27 SEPTEMBER
07:00 - 08:30 WSSFN PSYCHIATRIC COMMITTEE MEETING [GB ONG ROOM]
12:00 - 13:30 EXECUTIVE LUNCH MEETING [GB ONG ROOM]

FRIDAY 28 SEPTEMBER
12:00 - 13:30 WSSFN BOARD MEETING [GB ONG ROOM]
17:00 - 18:30 GENERAL ASSEMBLY [FESTIVAL THEATRE AUDITORIUM]
POSTERS PRESENTATIONS

POSTERS 01  POSTERS ZONE 1 - EMPIRE ROOMS  POSTERS BASIC SCIENCE
#15147 - #001 Organizational structure and function of a U.S.-U.K. collaborative human brain research program. Matthew Howard (Iowa City, USA),

#16147 - #002 Chronic deep brain stimulation via a cable connected to an external stimulation device has no negative impact on rat’s wellbeing. Ann-Kristin RiedeUeSe (Hanover, Germany), Simeon Helgers, Joachim Krauss, Kerstin Schwabe

#16155 - #003 Human subthalamic nucleus and globus pallidus internus communications on word onset and show speaker selectivity. Inga M. Schepers, Helge Ahrens, Anne-Kathrin Beck, Kerstin Schwabe (Germany)

#16225 - #008 Potential of bi-directional brain machine interface using ECoG recording and optogenetic neuromodulation. Fumiaki Yoshida (Fukuoka, Japan), Masayuki Hiritara, Koji Ihara

#16265 - #009 Body weight course as a reliable marker for human endpoint determination in rat models with intracranial tumor. Simeon Helgers (Hanover, Germany), Steven R Talbot, Ann-Kristin RiedeUeSe, Joachim K. Krauss, Bleich Andre, Kerstin Schwabe

#16387 - #010 Effects of ghrelin on gastrointestinal motility and myenteric plexus immunohistochemical alterations induced by 6-OHDA in rats. Ayca Karagoz, Damla Anl, Sefi ABACI, Mazhar OZKAN, Rezzan Guhan, Berak YeGen, Dilek AyakIn (Istanbul, Turkey)

POSTERS 02  POSTERS ZONE 4 - LEVEL 5

#14468 - #011 Resection of focal cortical dysplasia neighbour to reading cortex through an awake surgery, after robotic arm-assisted stereotactic neurosurgery. 'SEEQ' in a paediatric patient. Santiago Canelia Caro, Arantza Burgos, Juan Ignacio Agust, Juan Ignacio Andreu Amarturre, Javier Apardicio Calvo, Silvia Serrano Casabon, Alia Ramirez Camacho, Anna Lopez-Sala, Maria Alejandra Climent Peri, Mariana Alamar Abril, Fabian Sauris, Patricia Puelta Roldan, Antonio GuilleN Quesada, Maria Victoria San Antonio-Arce, Jordi RumiA Arboix, Enric Ferrer Rodriguez

#14468 - #012 Gliomatosis cerebri mimicking Rasmussen Encephalitis. Comparison of both entities through two clinical cases. Santiago Caneda Canto (Esplugues de Llobregat, Spain), Joaquin Andres Amsterdam, Cristina Jou Munoz, Jordi Muchart Lopez, Mariana AlamA Abril, Javier Apardicio Calvo, Alia Ramirez Camacho, Monica Rebollo Polo, Andres Morales La Madrid, Maria Victoria San Antonio-Arce, Jordi RumiA Arboix, Enric Ferrer Rodriguez

#14847 - #013 Association of a GAT3 polymorphism with febrile seizures. Olaf Schlim, Jeroen Bischof (Maastricht, The Netherlands), Kim RijkERS, Patrick Lindsey, Hubert Smiets, Govert HooglAnD

#14906 - #014 Correlation of diffusion tensor imaging and memory in patients with temporal lobe epilepsy. M. Angeles Garcia-Pallero, Juan Delgado Fernandez, Pilar Martin Plascencia, Concepcion Garcia Hernandez, Rafael Manzanares Soler, Laura Esteban, Rafael Garcia de Sala, Cristina Torres Diaz (Madrid, Spain)

#16146 - #015 Bratialsiva, the forgotten center for surgery of focal epilepsy in the 50’s. Peter Grunert, Luciano Furlanetti (Homburg, Germany)

#16162 - #016 SEEG: Talairach methodology in the era of advanced 3D imaging. Giorgio De Russo (Milan, Italy), Piergiorgio D’Olimpia, Matteo Revay, Francesca Gozzo, Veronica Pellucchia, Valeria Mariant, Michele Rizzi

#16188 - #017 Brain vasculature in deep brain stimulation: epilepsy and Parkinson. Felix Gubler (Maastricht, The Netherlands), Eing Turan, Linda Ackermans, Pieter Kubbenn, Mark Kuijff, Maybe Oosterloo, Yasin Temel

#16217 - #018 Successful treatment of super- refractory non-convulsive status epilepticus with anterior thalamic deep brain stimulation. Lukas Imbach (Zurich, Switzerland), Christian Baumann, Michael Weller, Markus Oertel, Lennart Stiegelitz

#16226 - #019 Analysis of burst activity and fast ripple oscillations during microelectrode recordings in focal cortical dysplasia. Manuel Machado Lemos Rodrigues (Bochum, Germany), Marec Von Lehe, Jorg Wellmer, Yaroslav Parpaley

#16252 - #020 Deep brain stimulation in refractory epilepsy: experience in a latin-american center. Jorge Rasmusen, Sebastian Kornfeld, Maria Del Carmen Garcia, Walter Silva, Gustavo Garategui, Carlos Ciraolo (Buenos Aires, Argentina)

#16354 - #021 Stereotactic radiofrequency amygdalohippocampotomy (SAH) using a combined approach: A new technique for the treatment of refractory temporal lobe epilepsy (TLE) secondary to mesial sclerosis (MS). Osvaldo Vilela-Filho (Goiania, Brazil), Helio Silva-Filho, Helioenai Alemac, Tiago Fernandes, Paulo Rizzato

#16360 - #022 Hemisphecroectomy for refractory epilepsy: a small center experience. Vasco Pinto (Porto, Portugal), Sergio Sousa, Filipe Vaz, Raquel Pinto

#16391 - #023 Late follow-up of children who have undergone vagus nerve stimulation for intractable epilepsy over a decade ago. Haruto Kosegaawa (London, UK), Dilip Dutta, Nida Kalyal, Jonathan EllenboGen, Cathy Quelly, Elaine Hughes, David McCormick, Mark Richardson, Sushma Goyal, Nandini Mullatti, Zaora Agirre-Arrizubieta, Irfan Malik, Richard Selway

#16396 - #024 MR-guided stereotactic anterior callosotomy: Refining an old and underused technique. Osvaldo Vilela-Filho (Goiania, Brazil), Paulo Rizzato


POSTERS 03  POSTERS ZONE 2 - LEVEL 3

POSTERS IMAGING AND NEURONAVIGATION

#14969 - #026 Neuronavigation in brain tumor surgery. Mohamed Si Saber (Blida, Algeria), Mohrane Siddi Maamar, Tahar Benais, Kheiredine BouyOuice

#15141 - #027 Combined 3T-Magnetic Resonance Imaging and Positron Emission Tomography guided stereotactic biopsy in multiple and highly complex intracranial lesions. Monica Lara AlMunia (Madrid, Spain), Sebastian Rueda, Antonio Mas Bonet, Marta Brel, Djalv, Javier Ibanez Dominguez

#15177 - #028 Preoperative rTMS language mapping for the resection of speech eloquent brain lesions under general anesthesia: a single center series in 60 patients. Luciano Furlanetti (Homburg, Germany), Sebastian Senget, Christoph J. Griesenauer, Andreas Simon, Joachim Oertel, Philipp Hendrix

#15178 - #029 Preoperative nTMS motor mapping for the resection of motor eloquent brain lesions: a single center series in 100 patients. Luciano Furlanetti (Homburg, Germany), Sebastian Senget, Christoph J. Griesenauer, Andreas Simon, Joachim Oertel, Philipp Hendrix

#16009 - #030 Ronna - robotic neuronavigation project. Domagoj Orla (Zagreb, Croatia)

#16166 - #031 Automated electrode localisation to guide stimulation management in dbs. Mikkel V. Petersen (Aarhus, Denmark), Andreas Huch, Christine Parsons, Torben E. Lund, Nils Sund, Bo Bergholt, Karen Østergaard


#16210 - #033 Tractography in frame-based and frameless stereotaxy: surgical integration with preplanning and archiving supports. Ferenc Pongracz (Budapest, Hungary), Peter Szloboda, Istvan Valak
Deep Brain Stimulation and glial tumors: causal relationship. Frank STEIGERWALD (Würzburg, GERMANY), Jens VOLKMANN, Cordula MATTHIES, Anna DALAL-KIRSCH, Stephan CHABARDES, Rob DE BIE, Peter R. SCHUURMAN, Jens VOLKMANN, Guenther DEUSCHL.

#16175 - #056 Development of an ‘experience sampling method’ questionnaires to assess Parkinsonian motor fluctuations. Jeroen HABETS (Maastricht, THE NETHERLANDS), Margot HEIJMANS, Claudia SIMONS, Albert LEENTJENS, Yasin TEMEL, Mark KUIJF, Pieter KUBBEN.

#16168 - #063 Magnetic resonance-guided focused ultrasound unilateral thalamotomy for the treatment of essential tremor: outcomes and complications after 1 year of follow-up in 21 patients. Marta DEL ALAMO DE PEDRO (Madrid, SPAIN), Raul MARTINEZ, Jorge MANZÉ, Jose Angel PINEDA, Angel PINEDA, Rafael RODRIGUEZ, ESTHER DE LUIS, Lidia VELA, Obeso JOSE.

#16167 - #056 MRI-guided Focused Ultrasound thalamotomy for Multiple Sclerosis-associated tremor: a case report. Marta DEL ALAMO DE PEDRO (Madrid, SPAIN), Rafael BEATRIZ, Raul MARTINEZ, Jorge MANZÉ, Jose Angel PINEDA, Rafael RODRIGUEZ, ESTHER DE LUIS, Frida HERNANDEZ, Obeso JOSE.

#16165 - #056 Outcomes of a prospective, multi-center international registry of deep brain stimulation for parkinson’s disease. Jan VESPER (DUSSELDORF, GERMANY), Roshini JAIN, Heleen SCHOLTES, Alex WANG, Michael T. BARBE, Steffen PASCHEN, Andrea KÜHN, Monika PÖTTGER-NERGER, Jens VOLKMANN, Guenther DEUSCHL.

#16164 - #056 DIRECT DBS: A prospective, multicenter clinical study with double-blinding for a directional deep brain stimulation lead – intra-visit impedance changes. Frank STEIGERWALD (Würzburg, GERMANY), Jens VOLKMANN, Cordula MATTHIES, Anna DALAL- KIRSCH, Stephan CHABARDES, Rob DE BIE, Peter R. SCHUURMAN, Elena MORO, Valerie FRAIX, Sara MEONI, David BLUM, Leon JUAREZ PAZ, Penny WYNANTS, Nic VAN DYC.

#16177 - #068 DBS: A prospective, multicenter clinical study with double-blinding for a directional deep brain stimulation lead – visualization and functional directional analysis. Jens VOLKMANN, Cordula MATTHIES, Anna DALAL- KIRSCH, Stephan CHABARDES, Rob DE BIE, Peter R. SCHUURMAN, Elena MORO, Valerie FRAIX, Sara MEONI, David BLUM, Leon JUAREZ PAZ, Penny WYNANTS, Nic VAN DYC.
#16179 - P069 DIRECT DBS: A prospective, multicenter clinical study with double-blinding for a directional deep brain stimulation lead – therapeutic windows with directional stimulation. Frank STEGERTHALWald (Würzburg, GERMANY), Jens VOLKMAN, Cordula MATTHIES, Anna DALAL-KIRCH, Stephan CHABARDES, Rob DE BIE, Peter R. SCHUURMAN, Elena MORO, Valerie FRAIX, Sara MEONI, David BLUM, Leon JUAREZ PAZ, Kenny WYNANTS, Nic VAN DYCK

#16181 - P070 Treatment results of focused ultrasound therapy for essential tremor in our group. Kenji FUKUTOME (Osaka, JAPAN), Hidehiro HIRABAYASHI, Ohnishi HIDEYUKI, Natoaka SATO

#16187 - P071 The changing landscape of surgery for parkinson’s disease. Christopher LOZANO (Toronto, CANADA), Joseph TAM, Andres LOZANO

#16191 - P072 Long-term outcome of thalamic deep brain stimulation for head tremor: A case report and literature review. Hayato YAMAMATA (Tokyo, JAPAN), Shiro HORISAWA, Takakazu KAWAMATA, Takaomi Taira

#16203 - P074 Dysskinesias related to directional thalamic stimulation guided by neurophysiological parameters in Parkinson’s Disease. Carla FERNANDEZ GARCIA, Carla FERNANDEZ GARCIA (Madrid, SPAIN), Fernando ALONSO FRECH, Jose Maria CATALAN, Maria Mercedes GONZALEZ HIDALGO, Jordi MATIAS-GUIU GUIA

#16208 - P075 Deep Brain Stimulation for Benign Tremulous Parkinsonism. Kenji SUGIYAMA (Hamamatsu, JAPAN), Takao NOZAKI, Tetsuya ASAKAWA, Hiroki NAMBA, Kenji FUKUTOME (Osaka, JAPAN), Hidehiro HIRABAYASHI, Ohnishi HIDEYUKI, Natoaka SATO

#16213 - P076 Comparing apples and pears – Stimulation-induced cerebellar syndromes in VIM-DRT-DBS. Bastian Elmar Alexander SAJONZ (Freiburg, GERMANY), Marco REISERT, Ganna BLAZHENETS, Christian R. MAUL, Horst URBACH, Philipp Tobias MEYER, Volker Arnd COENEN

#16216 - P077 Compared value of clinical examination and O-arounds to judge best therapeutic electrode placement during DBS surgery. Etienne PRLONGON (Lausanne, SWITZERLAND), Michael RIS, Mayte CASTRO-JIMENEZ, Bloch JOCELYNE

#16218 - P078 Non-motor symptoms in STN-DBS PD patients: a three-year follow-up study. Dejan GEORGIEV (Ljubljana, SLOVENIA), Maruša MENCINGER, Robert RAJNAR, Polona MUSIĆ, Mitja BENEĐIČIČ, Dušan FLISAR, Maja TROŠT

#16240 - P079 Microelectrode recording and macrostimulation in deep brain stimulation surgery and their impact on lead positioning. Philipp KRAUSS (Zurich, SWITZERLAND), Markus F. CERTEL, Heide BAUER, Lukas L. IMBACH, Johannes SARNTHEIN, Christian R. BAUMANN, Luca REGLI, Lennart H. STEIGLITZ

#16241 - P080 Preoperative quantitative evaluation of psychological parameters in abnormal head postures. Emily SANREY (Montpellier), Camille LABATE, Laura CIF, Victoria ZANGHOFEN, Fabienne CYPRIEN, Eric BORDEAUX, Emilie CHAN SENG, Philippe COUBES

#16242 - P081 A novel “gyrusplasty” technique to reduce csf leakage during dbS surgery. Janek FRANTZEN (Turku, FINLAND), Tommi HALLI, Jaakko RINNE

#16247 - P082 Choreoathetosis in cerebral palsy: pallidal versus thalamic deep brain stimulation. Assel SARYEVA (Hannover, GERMANY), Marc E. WOLF, Christian BLAHAK, Christian R. BAUER, Joachim K. KRAUSS, Philipp KRAUSS (Zurich, SWITZERLAND), Markus F. CERTEL, Heide BAUER, Lukas L. IMBACH, Johannes SARNTHEIN, Christian R. BAUMANN, Luca REGLI, Lennart H. STEIGLITZ

#16250 - P084 Deep brain stimulation for the treatment of pantothenate kinase-associated neurodegeneration: Early surgical results in two patients. Mehmet Osman AKÇAKAYA (Istanbul, TURKEY), Nihan Hande AKÇAKAYA, Mehmet Osman AKÇAKAYA (Istanbul, TURKEY), Nihan Hande AKÇAKAYA


#16268 - P085 Postoperative measurement of local field potentials in the pedunculopontine nucleus during DBS surgery. Layla HOSHIYAN, Karlo MALAGA, Glenn STEBBINS, Leo VERHAGEN METMAN

#16277 - P087 Experience with directional leads and image guide program during dbs surgery. Victor GERAEDTS (Leiden, THE NETHERLANDS), Rogier VAN HAM, Johan MARINUS, Jannes JAHANSHAHI, JAMES EMERICK, Mark TAYLOR

#16288 - P089 Motor cortex and subthalamic nucleus dynamics underlying leg motor functions. Eduardo MARTIN MORAUD (Lausanne, SWITZERLAND), Paolo BERNARDINI, Etienne PRLONGON, Gregoire COURTINE, Jocelyne BLOCH

#16290 - P090 Experience with directional leads and image guide program during dbs surgery. Victor GERAEDTS (Leiden, THE NETHERLANDS), Rogier VAN HAM, Johan MARINUS, Jannes JAHANSHAHI, JAMES EMERICK, Mark TAYLOR
# POSTER PRESENTATIONS

#16246 - P141 Thoracic ganglionectomy: a rescue technique after failed dorsal root ganglion stimulation. Assel SARYYEVA (Hannover, GERMANY), Luisa CASSINI ASCENCIAO, Joachim RUNGE, Joachim K. KAESS.

#16251 - P142 Spinal cord stimulation in failed back surgery syndrome: implanting in a latin-american center. Sebastian KORNFELD, Jorge RASMUSSEN, Pedro PLOU, Gustavo GARATEGUI, Claudio YAMPOLSKY, Carlos CIRAOLO (Buenos Aires, ARGENTINA)

#16253 - P143 Motor cortex stimulation for refractory chronic pain. Daniela Sol MASSA, Jeickson Javier VERGARA MARTINEZ, Esteban IDARRAGA VENegas, Fiorella MArtin, Gustavo GARATEGUI, Claudio YAMPOLSKY, Carlos CIRAOLO (Buenos Aires, ARGENTINA)

#16252 - P144 Application of radiofrequency for pain treatment. Presentation of our experience at the different therapeutic centers in the spine. Pedro PLOU, Fernando PADILLA, Esteban IDARRAGA VENegas, Santiago PEDRO HEM, Gustavo GARATEGUI, Carlos CIRAOLO (Buenos Aires, ARGENTINA)

#16263 - P145 Role of spinal neurostimulation in the treatment of complex regional pain syndrome: a multidisciplinary approach. Jeickson Javier VERGARA MARTINEZ, Daniela Sol MASSA, Fernando PADILLA, Gustavo GARATEGUI, Rodolfo GUELMAN, Carlos CIRAOLO (Buenos Aires, ARGENTINA)

#16336 - P146 Deep brain and peripheral nerve stimulation as combined treatment of bilateral facial pain. Marta NAVAS (Madrid, SPAIN), Lorena VEGA, Jesus PASTOR, Cristina TORRES

#16340 - P147 Microvascular decompression for trigeminal neuralgia: hypertensive patients recur more and are particularly vulnerable to longer surgery waiting times. Vasco PINTO (Porto, PORTUGAL), Eduardo CUNHA, Carla SILVA

#16341 - P148 Effects of ozone on pain and disability among patients with failed back surgery syndrome. Jairo Silva DOS ANGELOS (Sao Paulo, BRAZIL), Danilo COSTA BARBOSA, Gleica MARIA JOSINO DE MACENA, Francisco NÉMET De Oliveira MAGALHÃES, Bernardo MONACO, Enric Talamoni FONOFF

#16358 - P149 O-arm guided percutaneous radiofrequency corydography for intractable cancer pain. Ido STRAUSS (Tel Aviv, ISRAEL), Assaf BERGER, Un HOCHBERG, Alexander ZEGERMAN, Rotem TELLEM

#16393 - P150 Pathophysiology of the constant burning, tingling element of neuropathic pain: a new hypothesis. Osvaldo VILELA- FILHO (Goiania, BRAZIL), Renata CAVALCANTI, Murielle MOURA, Barbara MORAIS, Camila DALLE, Flavia GRANDI, Victoria COELHO

#16402 - P151 Efficacy and safety of minimally invasive, novel adjustable frequency therapy, Parasthesia free Spinal cord stimulation in prospective, multicenter study. Aleksandra MAJ-KESICKA (Zlotniki, POLAND), Pawel SOKAL, Marek HARAT, Leszek HERBOWSKY, Zennar KHEDER, Jacek NACEWICZ

# POSTERS ZONE 4 - LEVEL 5

#15126 - P152 Evaluation of results of neuroablative surgery for the treatment of aggressive behavior. Julian Eduardo SOTO ABRAHAM (MEXICO, MEXICO), Juan Manuel ALTAMIRANO, Francisco VELASCO CAMPOS, Gustavo AGUADO CARRILLO, Jose CARRILLO RUIZ, Jose Luis NAVARRO OLVERA

#16130 - P153 Characteristics of personality of severe Tourette syndrome undergoing deep brain stimulation. Takanobu Kaida (Higashiosaka, JAPAN)

#16137 - P154 Deep brain stimulation in the subgenual cingulate and in the nucleus accumbens as treatment in patients with chronic, severe and refractory anorexia nervosa. Gloria VILLALBA MARTINEZ (BARCELONA, SPAIN), Rocio GUARDIOLA WANDEL-BERGHE, Purificacion SALGADO SERRANO, Jose Maria GINES MIRANDA, Santiago MEDRANO MARTORELL, Rosa Maria MANERO BORRAS, Gerardo CONESA BERTRÁN, Antonio GRAU TORISENC, Gustavo GRAU BOCAT, Victor PEREZ SOLA

#16161 - P155 Withdrawal of Deep Brain Stimulation after Long-term Remission in Patients with Gilles de la Tourette Syndrome. Yuiko KiMURA (Tokyo, JAPAN)

#16193 - P156 Behavioral changes during mapping with directional stimulation in a patient with Parkinson’s disease. Chris VAN DER LINDEN (Ghent, BELGIUM), Camelia BOGAERT-MCLAUS, Henry COLLE, David COLLE

#16232 - P157 Positive clinical effects of Gamma Knife capsulotomy in a patient with Deep Brain Stimulation-refractory Tourette Syndrome and Obsessive Compulsive Disorder. Raphaëlle RICHERI (Marseille), Jean REGIS, Christophe LANCON, Graham BLACKMAN, Richard MUSIL, Andrea CAVANNA

#16238 - P158 TOWARDS biomarkers in psychiatry: detecting longitudinal behavioural correlates of communication in schizophrenia with digital phenotyping and its implication for neurosurgery. John ERAIFEJ (Oxford, UK), Patrick STAPLES, John TORUS, Jukka-Pekka ONNELA

#16250 - P159 Metacognitive therapy in OCD: modulation of local field potentials. Assel SARYYEVA (Hannover, GERMANY), Lotta WINTER, Kerstin SCHWABE, Mesbach ALAM, Kai KAHL, Joachim K. KAESS

#16255 - P160 Deep brain stimulation for obsessive-compulsive disorder – compliance issue: report of two cases. Tomasz WIECZOREK (Wrocław, POLAND), Jan BESZLEJ, Artur WEISER, Patrik PIOTROWSKI, Karolina FILA-WITECKA, Damian SIWICKI, Pawel TABAKOW, Joanna RYMASZEWSKA

#16337 - P161 Lateral hypothalamic stimulation does not improve anthropometric measures in Prader Willi syndrome. Ruth FRANCO, Enric FONOFF, Pedro ALVARENGA, Eduardo ALHO, Antonio Carlos LOPES, Marcelo HOEXTER, Marcelo BATISTUZZO, Raquel PAIVA, Ana TAUB, Euiripides MIGUEL, Manoel TEIXEIRA, Durval DAMIANI, Clement HAMANI (TORONTO, CANADA)

#16294 - P162 Long term outcome of deep brain stimulation for refractory obsessive-compulsive disorder: a multiple case study. Fabienne CYPRIEN (MONTPELLIER Cedex 5), Benjamin GRIET, Jean-Philippe BOULENGER, Victoria GONZALEZ MARTINEZ, Delphine CAPEDEVILLE, Emily SANREY, Emilie CHAN-SENG, Laura CIF, Philippe COUBES

#16313 - P163 Laitinen’s subgenual cingulotomy. Antti HIOUTARINEN (Kuopio, FINLAND), Riku KIVISAARI, Marwan HARIZ

#16351 - P164 ‘Mummy’s Boys’: Do mothers accommodate their child’s OCD differently from fathers, and what are the implications for assessment and treatment? Anne MATHER (Dundee, UK), David CHRISTMAS, Keith MATTHEWS

#16353 - P165 Neurosurgery for Mental Disorder: Current attitudes of mental health nurses and nursing students, and a comparison to the historical attitudes of psychiatrists. Karen J WALKER (Dundee, UK), Rhiannon BUICK, David M B CHRISTMAS

#16403 - P166 ‘Single shot’ gamma knife capsulotomy for treatment-refractory obsessive-compulsive disorder: One year clinical outcomes. Nicole MCLAUGHLIN, Nicole MCLAUGHLIN (Provide, USA), Marcelo HOEXTER, Wael ASAAD, Morgan PATRICK, Georg NOREN, Peter LAURO, Benjamin GREENBERG, Euiripides MIGUEL, Steven RASMUSSEN, Antonio Carlos LOPES

#16407 - P167 9 volts in the stimulation of the inferior thalamic peduncle for the improvement of refractory obsessive compulsive disorder in one of three patients operated on with bilateral deep brain stimulation. Adriana Lucia LOPEZ RIOS (TORONTO, CANADA), Luisa Fernanda AHUNCA VELASQUEZ, Alejandro ARISTIZABAL GAVIRIA, Katherine Johanna NARANJO PEREZ, William Duncan HUTCHISON

# POSTERS ZONE 4 - LEVEL 5

#16192 - P166 Pallido-thalamic tract ablation for the treatment of Parkinson’s disease. Fusako YOKOCHI (Tokyo, JAPAN), Takaomi Taira, Toshio YAMAGUCHI, Tsutomu KAMIYAMA, Keichi ABE, Takahiro OUCH, Koh YAMAMOTO, Shiro HORISAWA, Youko SUNAMI, Ryoichi OIKYAMA, Makoto TANIGUCHI, Sasanuma JINICHI

#16209 - P169 Results of Gamma Knife surgery in patients with residual tumours following excision of giant vestibular schwannomas. Sunil GUPTA (Chandigarh, INDIA), Anish TRIPATHI

#16256 - P170 Stereotactic radiosurgery for patients with ten or more brain metastases. Elliot SCHIFF, Luke SWASZEK, Jonathan KNISELY, Aditya HALTHERE, Sussan SALAS, Nina KOHN, Michael SCHULDER (Lake Success, NY, USA)

#16286 - P171 Gamma Knife Thalamotomy for tremor: a literature review. Cateno PETRALIA (Cardiff, UK), Neil KITCHEN, Jonathan HYAM

#16301 - P172 Toxicity and efficacy of Gamma Knife radiosurgery for brain metastases in melanoma patients with immune therapy. Brigitte GATTERBAUER (Vienna, AUSTRIA), Nadine EBBENHERR, Fabian FITSCHER, Josa M. FRISCHER
POSTERS ZONES

POSTERS ZONE 1
EMPIRE ROOMS
POSTERS 01
BASIC SCIENCE - P001 > P010

POSTERS ZONE 2
LEVEL 3
POSTERS 03
IMAGING AND NEURONAVIGATION - P026 > P043

POSTERS ZONE 3
LEVEL 4
POSTERS 04
MOVEMENT DISORDERS - P044 > P047
POSTERS 05
POSTERS NEURO-REHABILITATION + NEUROPHYSIOLOGY - P108 > P1113

POSTERS ZONE 4
LEVEL 5
POSTERS 02
EPILEPSY - P011 > P025
POSTERS 06
ONCOLOGY - P114 > P121
POSTERS 07
OTHER - P122 > P133b
POSTERS 08
PAIN - P134 > P151
POSTERS 09
PSYCHIATRIC DISORDERS - P152 > P167
POSTERS 10
RADIOSURGERY - P168 > P172
THURSDAY 27 SEPTEMBER
12:00 - 13:30

ABBOTT  FESTIVAL THEATRE AUDITORIUM
PATIENT CENTRIC INNOVATION AND THE FUTURE OF DBS SURGERY
Jan VESPER, M.D., Ph.D. (University Hospital Düsseldorf, Germany)
Patric BLOMSTEDT, M.D., PhD (University of Umeå, Sweden)
Prof. Sergiu GROPPA, MD PhD (Johannes-Gutenberg-University Hospital Mainz, Germany)
Binith CHEERAN, MD, PhD (Abbott)

BRAINLAB  DEACONS SUITE
MOVING DBS FORWARD
Fibertractography in Stereotactic Procedure. Volker COENEN (University Clinic Freiburg, Germany)
Accuracy of Deep Brain Lead Implantation with Airo®. Stéphane PALFI (Hôpital Henri Mondor, Créteil, France)
VTA- and tractography-based DBS programming in everyday practice. Philipp CAPETIAN (University Clinic Würzburg, Germany)

INSIGHTEC  WOLFSON HALL B
NEXT GENERATION LESIONING WITH FOCUSED ULTRASOUND: THE DATA, LEARNINGS AND THE FUTURE, BY LEADING NEUROSURGEONS
Dipankar NANDI, MD, (Imperial College London, London, UK)
Jordi Rumià ARBOIX, MD, (Hospital Clínic of Barcelona, Barcelona, Spain)
Rees COSGROVE, MD, (Brigham and Women’s Hospital, Boston, MA, USA)

Meditronic  WOLFSON HALL A
SURGICAL PROCEDURE & THERAPY INNOVATION
Chairman: Prof Krauss, Germany
Surgical Treatment Options and Patient Selection for Drug Resistant Epilepsy. Dr Gross (USA)
Clinical data progresses in Sensing & close loop DBS for OCD. Dr Denys (Netherlands)
Clinical use of VNA modelling & DTI and future potential for Movement disorder DBS. Dr Lefranc (France)

FRIDAY 28 SEPTEMBER
12:00 - 13:30

ALPHA OMEGA  WOLFSON HALL B
INNOVATIVE SOLUTIONS FOR OPTIMAL LEAD PLACEMENT IN AWAKE AND ASLEEP DBS
Chairman: Carine Karachi (Pitié-Salpêtrière Hospital, Paris)
DBS Lead Confirmation Techniques for Physiologically Optimal Lead Placement. Stephan Chabardes (CHU Grenoble)
Future of Electrophysiological Mapping Techniques for DBS Navigation. Ido Strauss (Tel aviv Medical Center)
Physiological Mapping During Asleep DBS Procedures. Christian Moll (University Medical Center Hamburg-Eppendorf)
Automatic GPi Navigation - SWOT (Strengths, Weaknesses, Opportunities and Threats). Hagai Bergman (Hadassah Medical Center)

BOSTON SCIENTIFIC  FESTIVAL THEATRE AUDITORIUM
NEW TRENDS AND HORIZONS IN DBS
Moderators: Stephan Chabardes (Grenoble, France) and Veerle Visser Vandewalle (Cologne, Germany)
From Planning to Programming: Integrated DBS Workflow. Boston Scientific
DBS Mechanism of Action - from Biophysics to Clinical. Cameron Mc INTYRE (Cleveland, US)
Directionality - Surgical perspective. Stephan CHABARDES (Grenoble, France)
Directionality - Programming Guidelines & Workflow Perspective: Role of Visualization. Paul KRACK (Bern, Switzerland)
DBS for Alzheimer: What are we learning? Andres LOZANO (Toronto, Canada)
Special Award Ceremony

ELEKTA  WOLFSON HALL A
INNOVATION IN ADVANCED STEREOTACTIC IMAGING AND TREATMENT
Session 1 - Welcome. Dan Leksell (Elekta)
Session 2 - Why SRS for Functional Disorders. Constantin Tuleasca (CHUV Lausanne, Switzerland)
Session 3 - First clinical experience with the Leksell® Vantage™ Stereotactic System at Hospital Ruber International, Madrid. Roberto Martinez Alvarez (Ruber International Hospital, Madrid, Spain)
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EXHIBITION AREA

FESTIVAL THEATRE AUDITORIUM

ALL FLOORS

LEVEL 5

LEVEL 4

LEVEL 2

LEVEL 1

REGISTRATION

GROUND FLOOR

ENTRANCE

ACCESS TO FLOOR 1

ACCESS TO FLOOR 1 & 2

ACCESS TO MAIN AUDITORIUM

ACCESS TO FLOOR 1

LEVEL 2

FLOOR 2

12
13
14
15

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13  BRAINLAB

14  ELEKTA

15  ZIMMER BIOMET
ACCESS INFORMATION

By Rail: Edinburgh Waverley Station is 10 minutes’ walk from the Royal College. Please exit Waverley via the Market Street opening. Take a right and then 1st left onto Cockburn Street and follow the road/hill until the top. Take a left of the top of Cockburn Street onto The Royal Mile. At the 1st set of lights, take a right onto North Bridge and continue along this route until the Royal College is on your left on Nicolson Street. A taxi rank is located just outside the station.

By Tram: The Edinburgh tram route covers 14km from Edinburgh Airport all the way to York Place in the city centre. Stops at Haymarket and Edinburgh Park stations and Inglisston Park & Ride connect trams with rail and bus services along the way. Every tram stop has ticket vending machines where you can buy Single Tickets and Day Tickets. Return Tickets are also available for journeys to or from Edinburgh Airport only. The ticket vending machines accept most debit and credit cards (£3 minimum spend) as well as 5p, 10p, 20p, 50p, £1 and £2 coins. No change is given.

By Bus: Inter-city bus services terminate at the St Andrew’s Square Bus Station. Buses from Princes Street (stops on the side of the street lined by shops - north) are very frequent. Services passing the College include numbers 3, 5, 7, 8, 14, 30, 31 and 33.

A Lothian Buses iPhone app is available to download from the iTunes app store free of charge. This app gives you up-to-date information on all of the buses that pass Surgeons’ Hall.

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Princes Street (stops on the side of the street lined by shops - north) are very frequent. Services passing the College include numbers 3, 5, 7, 8, 14, 30, 31 and 33.

By Car: Access by car to The Royal College of Surgeons of Edinburgh can be via many routes. You are therefore advised to go onto a route planner to map your journey. We recommend www.theaa.com/route-planner or www.rac.co.uk/route-planner.

Parkin: There are metered parking spaces on Roxburgh Place, Richmond Place, and Chambers Street. (which are free after 6.30pm). There is also parking in Nicolson Square beside the Clydesdale Bank for approx. £7 per day. From the airport: The Airlink bus service departs from just outside the domestic arrivals terminal and the journey to the city centre takes just 30 minutes. Buses leave approximately every 10 minutes. The final destination is Waverley Bridge. Alternatively, the Edinburgh Trams also depart from the airport to the city centre and the journey takes approximately 35 minutes. Trams depart approximately every 10 minutes.

XXIII congress of the European Society for Stereotactic and Functional Neurosurgery (ESSFN). Edinburgh, United Kingdom, 26/09/2018 - 29/09/2018 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 16 European CME credits (ECMEC®s).

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Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credits to AMA credits can be found at www.ama-assn.org/education/earn-credit-participation-inter-national-activities.

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

AWARDS

During the ESSFN congress (Edinburgh, 26-29 September 2018), 3 prizes of 1.00€ for « Best oral presentation » and 3 prizes of 500€ for « best poster » will be awarded. The awardees will be announced during the closing ceremony.

BADGES

Admission to ESSFN Congress scientific sessions is reserved for delegates only. Delegates receive a name badge with their registration materials. Badges should be worn at all times, as they will be used to control access to all ESSFN Congress sessions and activities. Exhibitor staff will be admitted to scientific sessions.

CERTIFICATE OF ATTENDANCE

Certificates of attendance will not be handed out on site but will automatically be sent by email after the congress.

CLOAKROOM

Wednesday, 26 September: 12.30 – 20.30
Thursday, 27 September: 8.00 – 19.00
Friday, 28 September: 8.00 – 17.00
Saturday, 29 September: 8.00 – 13.00

CURRENCY

Sterling (GBP) is the official currency. Banks and Currency Exchanges are widely available in Edinburgh.
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