



2nd Congress of the Deep Brain Stimulation Society

May 29-31, 2024

*Renaissance Polat İstanbul Hotel
Yeşilyurt, İstanbul – Türkiye*



www.dbss2024.org





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OPENING



Dear Friends and Colleagues,

After the great success of our first congress in Grenoble in 2023, during which we celebrated the 30th anniversary of subthalamic nucleus (STN) Deep Brain Stimulation (DBS), and on behalf of the DBS Society and the organizing committee, it's my great privilege to invite you to the second Congress of the Society. This meeting will take place on May 29-31, 2024 at the Renaissance Polat Hotel in one of the most beautiful city, Istanbul, Turkey. In partnership with the National Society for Deep Brain Stimulation, a satellite symposium will be held on May 29 afternoon from 1pm to 7pm.

Our congress will be a unique opportunity for international experts to meet and discuss DBS, which has revolutionized the treatment of Parkinson's disease and other neurological and psychiatric disorders. All attendees are invited and encouraged to play an active role in the congress by interacting with faculty members in a hospitable atmosphere and by submitting abstracts for oral and poster presentations.

We hope you will join us for this high level educational Congress and excellent networking opportunity.

We look forward to welcoming you in Istanbul!

Prof. Abdelhamid Benazzouz
President of the DBS Society



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HALL 2

29 MAY 2024, WEDNESDAY

Program of the Satellite Workshop

Organized by the National Turkish DBS Society

13:00-13:30 Opening

Abdelhamid Benazzouz (President of the DBS Society)
Yasin Temel (Vice President of the DBS Society)
Ersoy Kocabiçak (Chair of the Organizing Committee
& Council member)

13:30-15:00 Oral Presentation Session 1

OP-01 / OP-06

Chairs: Ayşe Bora Tokçaeer (Turkey), Bekir Tuğcu (Turkey)

- OP-01 Delirium Risk Factors in Parkinson's Disease Patients After Deep Brain Stimulation Surgery. Specific Considerations Regarding Different Neuroanatomical Targets
Gulsah Ozturk Ozluk, Enes Ozluk
- OP-02 The Interplay Between Neuroinflammatory Pathways and Insights into Deep Brain Stimulation Mechanisms in Parkinson's Disease
Pinar Eser, Ersoy Kocabicak, Ahmet Bekar, Yasin Temel
- OP-03 Anteromedial GPi DBS in Tourette's syndrome: clinical outcome of 7 cases
Ilkay Işıkay, Aytül Karabekiroğlu, Yıldız Karalar, Meltem Can Ike, Ersoy Kocabiçak
- OP-04 Speech Changes Following Subthalamic Nucleus Deep Brain Stimulation: A Clinical and Tractography Study
Ozan Haşimoğlu, AYCA Altınkaya, TAHA Hanoğlu, Tuba Ozge Karacoban, Ozan Barut, Ozan Tüysüz, Bekir Tuğcu
- OP-05 Comparison of Apathy and Cognitive Symptoms in Pre- and Postoperative Period in Deep Brain Stimulation Surgery.
Selim Polat, Miray Erdem, Melih Çekinmez, Gökhan Çavuş



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HALL 2

OP-06 Deep Brain Stimulation (DBS) From the Perspective of Relatives and Caregivers: A Qualitative Analysis and Caregiver Burden
Tuğçe Saltođlu, Yeşim Sücüllü Karadađ

15:00-15:30 Coffee break

15:30-17.00 **Interactive Discussion in Light of DBS Questionnaire of Turkey**

Chairs: *Okan Dođu (Turkey), Murat Vural (Turkey)*

Information: *Cihan İşler (Turkey), Pınar Eser (Turkey)*

Panelists: *All participants*

17:00-17:45 **Plenary Lecture**

Chairs: *Tanju Uçar (Turkey), Cihan İşler (Turkey)*

A Parkinson's patient's journey from diagnosis to deep brain stimulation treatment and beyond

Dilek Günal (Turkey)



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HALL 3

13:30-15:00 Oral Presentation Session 2

OP-07 / OP-12

Chairs: Haşmet Hanağası (Turkey), Gençer Genç (Turkey)

- OP-07 Specific programming of motor and speech functions to improve stimulation-induced dysarthria in DBS cases
Batu Hergünse, Mustafa Kılıç, Derya Selçuk Demirelli, Gül Teksin, Hacer Acar Çakan, Saime Ayça Şahin, Kardelen Utangeç, Uğurcan Çiler, Gençer Genç
- OP-08 GPi Deep Brain Stimulation for Cervical Dystonia
Mustafa Kılıç, Güzde Öngün, Gül Teksin, Kardelen Utangeç, Gençer Genç
- OP-09 Burden of Hardware Infection in Deep Brain Stimulation Surgery
Hakan Simsek
- OP-10 Deep Learning and Artificial Intelligence Based Stereotactic Planning Software
Sait Öztürk, Mustafa Şahin, Muhammed Talu
- OP-11 Comparison of facial movements in patients with Parkinson's disease when deep brain stimulation is switched on and off using artificial intelligence-based software
Sefa Öztürk, Duygu Dolen, Eren Andıç, Cafer İkbâl Gulsever, Senem Kılıç Öztürk, Pulat Akın Sabancı
- OP-12 Deep Brain Stimulation and Stigma in Movement Disorder Patients
Doruk Taş, Tanju Uçar, Sibel Sehür Özkaynak, Özge Baysal, Burçin Özkaya, Özmen Metin, Gizem Kızılay



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HALL 1

Program of the DBS Society Congress

08:45-09:00 Welcome and Introduction

Abdelhamid Benazzouz (*President of the DBS Society*)
Ersoy Kocacıbağ (*Chair of the Local Organizing Committee*)

09:00-10:30 Plenary Session 1: DBS Advances in Parkinson's Disease Chairs: Rubens Cury (Brazil), Elena Moro (France)

09:00-09:30 Adaptive DBS in PD: Is this happening?
G Tinkhauser (Switzerland)

09:30-10:00 The impact of genotype and phenotype on DBS indication
and outcome
Vladimira Vuletic (Croatia)

10:00-10:30 Non-motor symptoms and DBS: Different targets and timing
compared to motor symptoms?
Rubens Cury (Brazil)

10:30-11:00 Coffee break



11:00-12:30 Parallel Symposium 1: The Mechanisms of DBS: Learning from Models

**Chairs: Abdelhamid Benazzouz (France),
Clement Hamani (Canada)**

11:00-11:25 The cellular mechanisms of DBS
Clement Hamani (Canada)

11:25-11:50 Brain plasticity in DBS
Lee Wei Lim (Singapore)

11:50-12:15 STN DBS and pain in PD
Abdelhamid Benazzouz (France)

12:15-12:30 Discussion



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HALL 2

11:00-12:30 Parallel Symposium 2: Managing Epilepsy with DBS *Chairs: Sibel Ertan (Turkey), Steve Ojemann (USA)*

- 11:00-11:25 Update on indications
Yasin Temel (The Netherlands)
- 11:25-11:50 Comparing DBS targets
Steve Ojemann (USA)
- 11:50-12:15 Neurophysiology and imaging in thalamic targets of DBS in epilepsy
Cristina Torres (Spain)
- 12:15-12:30 Discussion
- 12:30-13:30 Lunch

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POSTER AREA

13:30-14:30 Poster Session 1 PP-01 / PP-22 *Chairs: Mohamed Faouzi Belahsen (Morocco), Selçuk Peker (Turkey)*

14:30-15:30 Plenary Session 2: DBS Advances in Other Movement Disorders *Chairs: Okan Doğu (Turkey), Joohi Jimenez-Shahed (USA)*

- 14:30-15:00 The impact of genes in dystonia
Amaal Aldakheel (Saudi Arabia)
- 15:00-15:30 Long term outcome with different targets in Tourette syndrome
Linda Ackermans (The Netherlands)
- 15:00-15:30 Is there a future of DBS for tremor?
Francesco Cavallieri (Italy)

15:30-16:00 Coffee Break



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HALL 1

16:00-17:30 **Parallel Symposium 3: Expanding the Role of Neurophysiology for DBS** *Chairs: Claudio Pollo (Switzerland), Alberto Priori (Italy)*

16:00-16:25 Unveiling neurophysiology of dystonia with DBS
Zvi Israel (Israel)

16:25-16:50 Are beta oscillations a real biomarker in PD?
Alberto Priori (Italy)

16:50-17:15 Effects of age on STN neuronal activity in PD
Marcus Janssen (The Netherlands)

17:15-17:30 Discussion

17:30-18:30 **DBS Society General Assembly**

19:00-19:30 **Opening Ceremony**

Attribution of the DBS Society Prizes:

Pierre Pollak Price to Prof. Patricia Limousin (United Kingdom)

Alim-Louis Benabid Price to Prof. Andres Lozano (Canada)

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HALL 2

16:00-17:30 **Parallel Symposium 4: Cutting Edge in Neurotechnology for DBS** *Chairs: Sara Marceglia (Italy), Hemmings Wu (China)*

16:00-16:25 Closed-loop technology in DBS for tremor and Tourette
Ayşegül Gündüz (USA)

16:25-16:50 Unlocking the potential of DBS bi-directional brain-computer interfaces
Carina Oehrns (USA)

16:50-17:15 DBS and brain computer interfacing
Hemmings Wu (China)

17:15-17:30 Discussion



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HALL 1

09:00-10:30 **Plenary Session 3: DBS Advances in Psychiatry** *Chairs: Adriana Lopez (Colombia), Cristina Torres (Spain)*

09:00-09:30 Update on DBS targets and long-term outcome in OCD
Philippe Domenech (France)

09:30-10:00 DBS and Artificial Intelligence in depression
Christopher J. Rozell (USA)

10:00-10:30 DBS long-term outcome in aggressiveness
Adriana Lopez (Colombia)

10:30-11:00 **Coffee Break**

11:00-12:30 **Plenary Session 4: Innovation & Future of DBS**

11:00-11:30 **Plenary Lecture 11**
Next generation deep brain stimulation:
A vision for personalized therapy
Thomas Brionne (France)

Medtronic

11:30-12:00 **Plenary Lecture 12**

Abbott

12:00-12:30 **Plenary Lecture 13**
Advancing DBS Boundaries: Optimizing
Clinical Practice and Research

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12:00-12:15 How can Image Guided DBS workflow optimize Clinicians'
Experience and Patients' Outcomes?
Claudio Pollo (Switzerland)

12:15-12:30 Is image guided programming improving standard of care?
Philipp Capetian (Germany)

12:30-13:30 **Lunch**

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POSTER AREA

13:30-14:30 **Poster Session 2**
PP-23 / PP-43
Chairs: Miguel Coelho (Portugal), Ali Shalash (Egypt)



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HALL 1

14:30-16:00 **Plenary Session 5: DBS Advances in Other Disorders** **Chairs: Paresh Doshi (India), Yasin Temel (The Netherlands)**

14:30-15:00 Expanding the field of DBS in epilepsy
Jukka Peltola (Finland)

15:00-15:30 Should we still investigate DBS for dementia?
Andres Lozano (Canada)

15:30-16:00 Long-term outcome of DBS in pain
Claudio Pollo (Switzerland)

16:00-16:30 **Coffee Break**

16:30-18:00 **Parallel Symposium 5: Managing Parkinson's Disease after DBS: Overview and Practical Recommendations** **Chairs: Faisal Alotaibi (Saudi Arabia), Chun-Hwei Tai (Taiwan)**

16:30-16:55 Gait and balance issues after DBS
Ioannis Isaïas (Italy)

16:55-17:20 Failures of DBS treatment: The neurosurgeon's point of view
Joachim K. Krauss (Germany)

17:20-17:45 Failures of DBS treatment: The neurologist's point of view
Yıldız Değirmenci (Turkey)

17:45-18:00 Discussion



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HALL 2

16:30-18:00 Parallel Symposium 6: Oral Presentations Selected from Abstracts

OP-13 / OP-18

Chair: Vladimira Vuletic (Croatia)

- OP-13 Effect of tonic and phasic stimulation of ventral tegmental area on seizure severity, memory and exploratory behavior in kindled mice
Mahmoud Rezaei, Yaghoub Fathollahi, Amir Shojaei, Javad Mirnajafi-Zadeh
- OP-14 Convergent Pallidal Neural Patterns Across Genetic Dystonia Syndromes: Spiking Regularity and Neural Bursts
Ahmet Kaymak, Fabiana Colucci, Vincenzo Levi, Giovanna Zorzi, Miryam Carecchio, Holger Prokisch, Michael Zech, Barbara Garavaglia, Hagai Bergman, Roberto Eleopra, Alberto Mazzoni, Luigi Michele Romito
- OP-15 Advancing personalized aDBS: Predicting the dynamic nature of beta-power distributions
Salvatore Falciglia, Laura Caffi, Chiara Palmisano, Ioannis Ugo Isaias, Alberto Mazzoni
- OP-16 The application of magnetic nanodiscs for neuromodulation
Anouk Wolters, Lorenzo Signorelli, Danijela Gregurec, Christian Herff, Yasin Temel1, Gunter Kenis, Sarah Anna Heschem
- OP-17 Subjective Patient Rating as a Novel Feedback Signal for DBS Programming
Jing Dong, Sophia Peschke, Angelina Kirchner, Thomas Koeglsperger
- OP-18 Decreased brain volume may be associated with the occurrence of peri-lead edema in Parkinson's disease patients with deep brain stimulation
Marina Raguz, Petar Marcinkovic, Hana Chudy, Darko Oreskovic, Marin Lakic, Domagoj Dlaka, Natasa Katavic, Valentino Racki, Vladimira Vuletic, Darko Chudy

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HALL 1

18:00-18:15 Closing Remarks



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POSTER PRESENTATIONS

POSTER AREA

- PP-01 The DBS effect in controlling abnormal movement disorder and observable brain lesion
Mansour Parvaresh, Mohammad Rohani, Eshagh Bahrami
- PP-02 A VAC-14 mutation positive dystonia case successfully treated with bilateral GPi-DBS
Pinar Eser, Ersoy Kocabicak, Gizem Demir, Cigdem Sevda Erer Ozbek, Ahmet Bekar
- PP-03 Testing Magnetolectric Nanomaterials in Organotypic Human Brain Slice Models
Berkhan Genc, Franz A. M. Eggert, Kim Rijkers, Yasin Temel, Ali Jahanshahi
- PP-04 Alternations in the Neurophysiology of the Subthalamic nucleus during off-medication state in Parkinson's disease patients with Levodopa-induced dyskinesia
Pin Han Huang, Shin Yuan Chen, Sheng Huang Lin
- PP-05 A novel application utilizing digital pen and tablet for quantifying tremor severity
László Halász, Martin Reich, Gabriella Miklós, Andrea Escartin, Gijs van Elswijk, Ljubomir Manola, Bálint Várkuti, Loránd Eross, Jens Volkmann
- PP-06 Effect of ANT-mammillothalamic tract DBS on seizure frequency reduction in refractory epilepsy
Daniel Alvarado, Felix Gubler, Kim Rijkers, Linda Ackermans, Pieter Kubben, Rob Rouhl, Louis Wagner, Albert Colon, Yasin Temel
- PP-07 Magnetolectric nanoparticles for wireless DBS in a mouse model of PD
David Dominguez Paredes, Ali Jahanshahi, Kristen Kozielski
- PP-08 The role of the subthalamic nucleus in decision-making and reward processing
Sophia Gimple, Marcus L. F. Janssen, Yasin Temel, Christian Herff
- PP-09 The effect of different stimulation frequencies of STN DBS on gait and dual-task walking in Parkinson's disease
Helen Chiang, Tzu Ying Yang, Yea Ru Yang, Kang Du Liou



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POSTER PRESENTATIONS

POSTER AREA

- PP-10 Deep Brain Stimulation for Complex Tremors
Ilkay Isikay, Demet Aygün, Meltem Can Ike, Ali Osman Mumcuoğlu, Murat Terzi, Sedat Şen, Dursun Aygün, Ersoy Kocabiçak
- PP-11 Relationship of patient self-reported diaries and wearable inertial sensors in Parkinson's Patients with an adaptive DBS system
Lothar Krinke, Mattia Arlotti, Ioannis Ugo Isaías, Laura Caffi, Chiara Palmisano
- PP-12 Aperiodic spectral component as a potential new marker and input signal for aDBS
Martina Bockova, Lucia Smahovska, Martin Lamos
- PP-13 Noninvasive electrical stimulation as an approach for the optimal DBS target selection
Martin Lamos, Martina Bockova, Florian Missey, Jan Trajlinek, Ondrej Studnicka, Claudia Lubrano, Mariane Silva, Pavel Daniel, Jan Chrastina, Radim Jancalek, Irena Rektorova, Adam Williamson
- PP-14 Neural properties of the medial geniculate body of the thalamus in human using intra-operative micro-electrode recordings during deep brain stimulation
Mark J Roberts, Alex Rovira Rincón, Jana V. P. Devos, Pia Brinkman, Sonja A Kotz, Michelle Moerel, Michael Schwartz, Linda Ackermans, Yasin Temel, Marcus L. F. Janssen, On Behalf Of The Tinnitus DBS Study Group
- PP-15 Feasibility of Combining Remote Programming and Remote Monitoring Towards a Closed Loop DBS System
I. Daria Bogdan, Mark Kuijf, Yagna Pathak, Pieter Kubben
- PP-16 Beta power sleep-wake modulation in patients with Parkinson's disease and conventional or adaptive deep brain stimulation
Laura Caffi, Claudio Baiata, Silvia Manfroni, Rita Habib, Enrico Mailland, Marco Locatelli, Antonella Ampollini, manuela pilleri, Salvatore Bonvegna, Alberto Mazzoni, Chiara Palmisano, Ioannis Ugo Isaías
- PP-17 Focal Dystonia and DBS
Doruk Taş, Tanju Uçar, Sibel Sehür Özkaynak
- PP-18 OCD and Cervical Dystonia treatment in one target in the same patient
Ümit Akın Dere



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POSTER PRESENTATIONS

POSTER AREA

- PP-19 Neuroinflammatory Mechanisms Behind Parkinson's Disease
Pinar Eser, Ersoy Kocabicak, Ahmet Bekar, Yasin Temel
- PP-20 Functional Assessment of Fgatif in 1.5 Tesla MRI for Surgical Planning in Parkinson's Disease
Paulo Thadeu Brainer, Joao Paulo Brainer-Lima, Pedro Thadeu Brainer, Alessandra Mertens Brainer
- PP-21 Electrophysiological Insights into Parkinson's Disease Progression: A Study of Subthalamic Nucleus and Substantia Nigra Pars Reticulata Activity in Deep Brain Stimulation Patients
Pin Han Huang, Shin Yuan Chen, Sheng Huang Lin
- PP-22 DREADD Modulation of the globus pallidus externa reveals no impact on the dorsal raphe nucleus neuronal activity in mice treated with subthalamic nucleus deep brain stimulation
Faisal Mohammed Alosaimi, Yasin Temel, Ali Jahanshahi
- PP-23 Emergency conditions in Parkinson's disease patients with Deep Brain Stimulation
Talal Alshalwi, Ali Jahanshahi, Kim Rijkers, Yasin Temel
- PP-24 Gait changes following deep brain stimulation in Parkinson's disease: preliminary findings
Ilaha Bakirli, Yağmur Kaya, Kardelen Akar, Hussein Youssef, Mine Nur Gönül, Atay Vural, Yavuz Samanci
- PP-25 Psychotic symptoms following STN-DBS in a patient with Parkinson's Disease: Programming Strategies
Yildiz Değirmenci, Ali Yilmaz
- PP-26 Navigating the Mind: Augmented Reality as a Catalyst in Neuroanatomy Learning
Paulo Thadeu Brainer lima, Joao Paulo Brainer-Lima, Pedro Thadeu Brainer-Lima, Alessandra Mertens Brainer Lima
- PP-27 Deep brain stimulation in chorea-acanthocytosis: is it always a good treatment option?
Yildiz Degirmenci, Yeşim Güzey Aras



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POSTER PRESENTATIONS

POSTER AREA

- PP-28 The subthalamic nucleus controls nociceptive integration in the spinal cord and reverse nociceptive hypersensitivity in Parkinson's disease
Rabia Bouali-Benazzouz, Elba Molpeceres Sierra, Houyam Tibar, Keri Ann Charles, Khalid Oudaha, Florian Naudet, Pascal Fossat, Abdelhamid Benazzouz
- PP-29 Advancing Epilepsy Management in Iran: First Report of Deep Brain Stimulation Implementation in 5 Refractory Epilepsy Cases
Alireza Soltani Khaboushan, Amirreza Bahadori, Sajad Shafiee, Abbas Tafakhori
- PP-30 Magnetolectric nanomaterials enable remote neuromodulation
Lorenzo Signorelli, Vicente Duran Toro, Jonas Enghard, Anouk Walters, Elif Kocar, Julien Bachmann, Sara Anna Heschem, Danijela Gregurec
- PP-31 Long-term real-life efficacy of chronic adaptive DBS in Parkinson's disease: towards understanding personalized strategies
Sara Marceglia, Ioannis Ugo Isaias, Costanza Conti, Laura Caffi, Chiara Palmisano, Lothar Krinke, Mattia Arlotti, Lorenzo Rossi, Alberto Priori
- PP-32 Successful treatment of parkinsonism with bilateral deep brain stimulation in a patient with LRRK2 gene mutation
Gözde Öngün, Mustafa Kılıç, Tuğçe Gül, Gençer Genç, Nazlı Başak
- PP-33 Subjective Patient Rating as a Feedback Signal for DBS Programming in Essential Tremor
Sophia Peschke, Jing Dong, Angelina Kirchner, Thomas Koeglsperger
- PP-34 Deep brain stimulation in disorders of consciousness: 10 years of a single center experience
Darko Chudy, Vedran Deletis, Veronika Paradzik, Ivan Dubroja, Petar Marcinkovic, Darko Oreskovic, Hana Chudy, Marina Raguz
- PP-35 Exploring genetic factors influencing brain structural changes following deep brain stimulation in Parkinson's Disease using Multi-omics analysis
Hengjian Liu, Sarah Heschem, Hans Clusmann, Yasin Temel, Dennis Van Der Meer



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POSTER PRESENTATIONS

POSTER AREA

- PP-36 Transduction of ACh3.0 GRAB sensor in a transgenic rat model of Alzheimer's disease
Meryem Sinem Uyar, Boriss Sagalajev, Thibaut Sesia
- PP-37 Effect of low- and high-frequency deep brain stimulation on gait modulation in virtual reality in Parkinson's disease
Chiara Palmisano, Ibrahim Hanafi, Laura Caffi, Nicolò Gabriele Pozzi, Gianni Pezzoli, Jens Volkmann, Ioannis Ugo Isaias
- PP-38 Surgical Treatment of Parkinson's Disease Following Destructive Unilateral Thalamotomy with Stereotactic Radiosurgery and Radiofrequency Thermoablation Procedures in Two Cases.
Hakan Simsek, Mehmet Güney Şenol
- PP-39 Bilateral STN DBS for Parkinson's disease: Retrospective analysis of single center experience
Fatih Köksoy, Cafer Ikbal Gulsever, Mustafa Selim Sahin, Duygu Dolen, Pulat Akın Sabancı
- PP-40 Adaptive Closed-Loop Deep Brain Stimulation for Tourette Syndrome: Insights from Chronic Neural Recordings in the Centromedian Thalamus and Globus Pallidus Interna
Julieth Gómez Durán, Grace Lowor, Aysegül Gunduz
- PP-41 Subthalamic nucleus deep brain stimulation induces functional deficits in forebrain norepinephrergic neurotransmission in a Parkinson's disease model
Hanna Weber, Meike Statz, Frederike Schleuter, Maria Kober, Henning Bathel, Franz Plocksties, Ursula Van Rienen, Dirk Timmermann, Alexander Storch, Mareike Fauser
- PP-42 Automated Gait analysis to quantify motor performance during STN-DBS in the 6-hydroxydopamine hemiparkinson rat model
Meike Statz, Hanna Weber, Maria Kober, Franz Plocksties, Dirk Timmermann, Kai Budde Sagert, Sascha Spors, Henning Bathel, Ursula Van Rienen, Mareike Fauser, Alexander Storch
- PP-43 Acute therapy of infected DBS therapies in severely affected patients - a feasible alternative to removing the hardware
Thomas Fortmann, Ralph Lehrke, Makoto Nakamura



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