

INS INTERIM MEETING

ALMATY

KAZAKHSTAN

OCTOBER 2-4, 2025

Almaty, Kazakhstan

 **VENUE** Academy of Science of
the Republic of Kazakhstan

NEW AREAS OF NEUROMODULATION

Mini Program Book

www.ins-im2025.org



Thursday, 2 October 2025

09.00 -17.20 TRAINING WORKSHOPS

Venue: Keruen-Medicus Medical Center

09.00-11.00 Neuromodulation of Pain
Ksenia Goryacheva, Russia & Preeti Doshi, India

11.00-11.30 Coffee Break

11.30-13.00 DEEP BRAIN STIMULATION

Programming	<i>Jens Volkman, Germany</i>
Targeting	<i>Atilla Yılmaz, Türkiye</i>
Neuroimaging Analysis	<i>Bassam Al-Fatly, Germany</i>
	<i>Ningfei Li, Germany</i>
DBS Troubleshooting	<i>Genko Oyama, Japan</i>

13.00-14.00 Lunch

14.00-15.30 DEEP BRAIN STIMULATION

Programming	<i>Jens Volkmann, Germany</i>
Targeting	<i>Atilla Yılmaz, Türkiye</i>
Neuroimaging Analysis	<i>Bassam Al-Fatly, Germany</i>
	<i>Ningfei Li, Germany</i>
DBS Troubleshooting	<i>Genko Oyama, Japan</i>

15.30-15.50 Coffee Break

15.50-17.20 PERCUTANEOUS ELECTRICAL NERVE STIMULATION (PENS) THERAPY

Arun Bhaskar, UK

Friday, 3 October 2025

09.00 09.20 OPENING CEREMONY — WELCOME ADDRESS

Chairmen: Chingiz Shahskin, Kazakhstan - Konstantin Slavin, USA

09.20 09.40 From Reactive Treatment to Proactive Prevention: Biomarkers,
AI, and Personalized Strategies for Healthy Longevity
Almaz Sharman, MD, PhD
President, Academy of Preventive Medicine of Kazakhstan

09.40 10.10 Next Generation in Neuromodulation *Konstantin Slavin, USA*

10.10-10.40 Selected Advances in Functional *Andres Lozano, Canada*
Neurosurgery

10.40-11.00 COFFEE BREAK

11.00-12.40 ARTIFICIAL INTELLIGENCE AND ADAPTIVE STRATEGIES IN DBS

Chairmen: Andres Lozano, Canada - Joachim Krauss, Germany

11.00-11.20 Artificial Intelligence in Neuromodulation *Robert Levy, USA*

11.20-11.40 Current Status of Adaptive DBS in *Patricia Limousin, UK*
Clinical Practice

11.40-12.00 Digital Approaches for Optimizing *Jens Volkmann, Germany*
DBS in Space and Time

12.00-12.20 Surgical Treatment of Dystonia: *Joachim Krauss, Germany*
State of the Art and New Developments

12.20-12.40 Novel Ways of Deep Brain Stimulation *Paresh Doshi, India*
Programming

12.40-13.30 LUNCH

Friday, 3 October 2025

13.30-15.30 ADVANCING NEUROMODULATION FOR PAIN *Chairmen: Robert Levy, USA - Emil Isagulyan, Russia*

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|-------------|--|----------------------------------|
| 13.30-13.50 | Targeted Drug Delivery, Past, Present, and Future | <i>Lawrance Poree, USA</i> |
| 13.50-14.10 | Objective Long-Term Data of Mobility Levels in SCS-treated Patients with Persistent Pain After Spine Surgery | <i>Kliment Gatzinsky, Sweden</i> |
| 14.10-14.30 | Closed Loop Neuromodulation for Pain-Personal Experience | <i>Marc Russo, Australia</i> |
| 14.30-14.50 | Role of Non-Invasive and Minimally Invasive Peripheral Neuromodulation | <i>Arun Bhaskar, UK</i> |
| 14.50-15.10 | Barriers to Invasive Neuromodulation for Pain in India: Developing World Perspective | <i>Preeti Doshi, India</i> |
| 15.10-15.30 | Neuromodulation in Russia: Yesterday, Today and Tomorrow | <i>Emil Isagulyan, Russia</i> |

15.30-16.00 COFFEE BREAK

16.00-17.20 FROM NEUROMODULATION TO BCI *Chairmen: Konstantin Slavin, USA - Guo Guang Zhao, China*

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| 16:00-16.20 | From Neuromodulation to BCI | <i>Guo Guang Zhao, China</i> |
| 16.20-16.40 | Clinical Progress in the Treatment of Epilepsy Using Closed-Loop Neuromodulation Technology | <i>Tao Yu, China</i> |

Friday, 3 October 2025

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| 16.40-17.00 | Clinical Progress on the Use of Neuromodulation Devices for ASL, Decoding and Control of External Devices | Shan Yongzhi, China |
| 17.00-17.20 | Epidural electrical stimulation for the Recovery of Lower Limb Motor Function After Paraplegia | Junmin Zhu, China |

17:20-17:50 ORAL PRESENTATIONS

Chairmen: TBA

OP-01 / OP-05

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|-------------|---|
| 17.20-17.26 | OP-01: Peripheral Nerve Stimulation Enhances Functional Outcomes in Post-Traumatic Sciatic Neuropathy: A Preliminary result of RCT
<u>Viktor Kondratyev, Andrey Dekopov, Emil Isagulyan, Alexey Tomskiy</u> |
| 17.26-17.32 | OP-02: Withdrawn |
| 17.32-17.38 | OP-03: Waveform Manipulation During Posterior Tibial Neuromodulation for Overactive Bladder and Bladder Pain Syndrome: A Preliminary Study and Proposed Randomized Trial
<u>Stephen Safford Wolfson</u> |
| 17.38-17.44 | OP-04: Indications for percutaneous and paddle leads for patients with chronic spinal pain: a systematic review
<u>Lisa Goudman, Abdulhamid Cicek, Jiya Anand, Julie G Pilitsis, Michaël Bruneau, Maxime Billot, Manuel Roulaud, Philippe Rigoard, Jan Willem Kallewaard, Maarten Moens</u> |

Friday, 3 October 2025

- 17.44-17.50 **OP-05:** Patient reported outcomes of the use of Non-invasive Peripheral Neurostimulation for various chronic pain states– case series of more than 10000 patients: an argument for developing a neuromodulation pathway from primary care to specialised services
Arun Kumar Bhaskar, *Helen Walsh, Dominic Hegarty*

Saturday, 4 October 2025

07.30-08.35 POSTER PRESENTATIONS

Chairmen: TBA

PP-01 / PP-013

- 07.30-07.35 **PP-01:** Intolerance to intrathecal baclofen - rare case and troubleshooting
Rui Reinas, Margarida Rodrigues, Fátima Gandarez, Vera Ermida
- 07.35-07.40 **PP-02:** Cervical Dorsal Root Ganglion Stimulation for Complex Regional Pain Syndrome: Technical Description and Results of Five Cases. Concepción, Chile
Germán Carlos Acuña Gamé, Eugenio Adrian Sanhueza Herreros, Francisco Bolbaran Anabalón, Paula Mackarena Retamal Vera, Fabian Cesar Piedimonte, Pablo Balmaceda, Jose Leonardo Ibarra Diaz
- 07.40-07.45 **PP-03:** Study of impulse control disorders in PD patients with DBS STN: tracts density distribution and brain local field potentials
Anna Buniak, Vitali Bayarchyk, Alena Mikitchuk
- 07.45-07.50 **PP-04:** Long-term results radiofrequency ablation Morton's neuroma
Vitali Bayarchyk, Ryszard Sidorovich
- 07.50-07.55 **PP-05:** Successful Sacral Neuromodulation in Patients with Chronic Complete Spinal Cord Injury: Is there hope?
Nader A Aldossary
- 07.55-08.00 **PP-06:** Chronic 40 Hz Light Flicker Induces Cortical LTP-Like Plasticity and Gamma Oscillations Replay
Tao Feng, Minmin Wang, Shaomin Zhang

Saturday, 4 October 2025

- 08.00-08.05 **PP-07:** Sacral neuromodulation for fecal incontinence of different etiology: a retrospective single-center study in China
Peirui Wu, Li Lu
- 08.05-08.10 **PP-08:** Comparison of EEG Complexity Analysis Methods: Challenges, Advances, and Applications in Neuromodulation
Stephen Wolfson
- 08.10-08.15 **PP-09:** Multifidus Fat Infiltration in Patients with Persistent Spinal Pain Syndrome Type II Treated with Spinal Cord Stimulation
Maarten Moens, Laurène V Genot, Frederick Van Gestel, Julie G Pilitsis, Maxime Billot, Manuel Roulaud, Philippe Rigoard, Lisa Goudman
- 08.15-08.20 **PP-10:** Innovative use of Neuromodulation for Respiratory Recovery after a High Cervical Cord Injury
Manish Baldia, Kapil Zirpe
- 08.20-08.25 **PP-11:** Management of persistent trigeminal pain following treatment with gamma Knife with trigeminal field stimulation with percutaneous electrical nerve stimulation (PENS) therapy – a case series
Arun Kumar Bhaskar, Liuda Brogiene, Alfredas Vaitkus
- 08.25-08.30 **PP-12:** Shared Decision-Making in Spinal Cord Stimulator Device Choice
Valentina Pauly, Adam Williams, Nicola Wade, Janet Clark
- 08.30-08.35 **PP-13:** Differential Effects of Low-Frequency TMS in Autism Spectrum Disorder and Specific Language Impairment
Amir Baikatov, Almira Kustubayeva, Dauren Zhumakhanov

Saturday, 4 October 2025

09:00-10:20 EXPANDED APPLICATIONS of DBS and FUNCTIONAL NEUROSURGERY

Chairmen: Kliment Gatzinsky, Sweden - Tao Yu, China

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| 09.00-09.20 | Deep Brain Stimulation in Disorders of Consciousness Hypothesis and Evidence | <i>Darko Chudy, Croatia</i> |
| 09.20-09.40 | Intraoperative Interrogation of the Single Cell Mechanism of Subthalamic Deep Brain Stimulation | <i>Leon Amadeus Steiner, Germany</i> |
| 09.40-10.00 | Opportunities of Modern Stereotactic Neurosurgery in a Hybrid Operating Room Environment | <i>Albert Sufianov, Russia</i> |
| 10.00-10.20 | Complications and Risk Management in Neuromodulation | <i>Chingiz Shashkin, Kazakhstan</i> |

10.20-10:50 COFFEE BREAK

10.50-12.30 CONNECTOMIC TARGETING and NETWORK-BASED DBS STRATEGIES

Chairmen: Atilla Yilmaz, Türkiye - Jens Volkmann, Germany

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| 10.50-11.10 | Mapping DBS Therapeutic Networks | <i>Bassam Al-Fatly, Germany</i> |
| 11.10-11.30 | Neuroimaging Analysis in Deep Brain Stimulation | <i>Ningfei Li, Germany</i> |
| 11.30-11.50 | How to Improve Accuracy of DBS | <i>Atilla Yilmaz, Türkiye</i> |
| 11.50-12.10 | The Neuromodulation for Epilepsy | <i>Guoming Luan, China</i> |
| 12.10-12.30 | Stereotactic Radiofrequency Lesioning for Tourette Syndrome | <i>Konstantin Kostyuk, Ukraine</i> |

12.30-13.30 LUNCH

Saturday, 4 October 2025

13.30-15.20 FROM DECODING BRAIN SIGNALS to SURGICAL STRATEGIES

Chairmen: Konstantin Slavin, USA - Marc Russo, Australia

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| 13.30-13.50 | Educational Accreditation in Neuromodulation | <i>Vivek Mehta & Kavita Poply, UK</i> |
| 13.50-14.10 | Machine Learning-Based Symptom Decoding from Invasive Brain Recordings | <i>Timon Merk, USA</i> |
| 14.10-14.30 | How to Navigate in Propofol Polluted Waters – Real World Intraoperative Electrophysiology in DBS | <i>Galymzhan Issabekov, Germany</i> |
| 14.30-14.50 | MEG: A Non-Invasive Neuroimaging Technique for Neuromodulation | <i>Yoshihito Shigihara, Japan</i> |
| 14.50-15.10 | Forel's Field Deep Brain Stimulation for Movement Disorders and Beyond | <i>Shiro Horisawa, Japan</i> |
| 15.10-15.30 | Endoscopically Guided Stereotactic Thalamotomy of the Anterior Thalamic Nuclei in the Surgical Treatment of Epilepsy | <i>Rinat Sufianov, Russia</i> |

15.30-16.00 COFFEE BREAK

Saturday, 4 October 2025

16.00-17.00 FOCUSED LESIONING and TARGETED NEUROMODULATION *Chairmen: Chingiz Shashkin, Kazakhstan - Albert Sufianov, Russia*

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| 16:00-16.15 | Study of Impulse Control Disorders in PD Patients with DBS STN: Tracts Density Distribution and LFPs | <i>Anna Buniak, Belorussia</i> |
| 16.15-16.30 | Long-term Results Radio Frequency Ablation of Morton's Neuroma | <i>Vitali Bayarchyk, Belorussian</i> |
| 16.30-16.45 | New Approach for Thalamotomy | <i>Daniyar Bagautdinov, Kazakhstan</i> |
| 16.45-17.00 | Possibilities of Neurostimulation in Multiples Post-Infectious Mononeuropathies | <i>Ksenia Goryacheva, Russia</i> |
| 17.00-17.15 | Clinical Experience in the Management of Movement Disorders at the Presidential Hospital, Astana | <i>Talgat Yermekov, Kazakhstan</i> |
| 17.15-17.30 | VNS: Anti-Inflammatory Action in Epilepsy | <i>Veronika Abzalova, Kazakhstan</i> |

17.30 CLOSING CEREMONY

Supporting Societies

(In Alphabetical Order)

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NOTES

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ORGANIZATION SECRETARIAT



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