



Latin American Masterclass
Functional Neurosurgery

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12 and 13 · October

SÃO PAULO - BRAZIL

Sold Out

Course Organizers and Directors:

Erich Fonoff (BRA)
William Contreras (COL)

Invited Faculty:

Joachim Krauss (DEU)
José Oswaldo Oliveira Jr. (BRA)
Fabian Piedemonte (ARG)

Course Venue:

*CBS Building auditorium,
located at the Rooftop (19th floor)
of Avenida Presidente Juscelino Kubitschek, 50 Itaim Bibi,
São Paulo . SP | Brazil. 04543-000.*



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Emphasis:

- Critical concepts in stereotactic procedures and image integration
- Core notions in MER and LPF recordings in usual targets in functional neurosurgery
- Neuroanatomical essentials and targeting for pain and movement disorders
- Ablative radiofrequency techniques, probes and brain targets
- Most useful spinal and brainstem targets and techniques for pain treatment

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Phone / Whatsapp

(11) 94072-8671

Day 01

October 12th

- ✓ **7:30am** - Registration
- ✓ **8:00am** - Welcome
- ✓ **8:15am** - Stereotactic space: concepts, technique and indications
- ✓ **8:45am** - Neuroanatomy and particularities of movement disorder targets
- ✓ **9:15am** - Coffee Break
- ✓ **9:45am** - Stereotactic planning and practical targeting and pitfalls
- ✓ **10:15am** - Microelectrode recording during awake and asleep deep brain stimulation surgery
- ✓ **10:45am** - Recording and analysis of LFPs
- ✓ **11:15am** - Different techniques for brain lesions
- ✓ **12:00am** - Radiofrequency technique and brain targets chronic pain

- ✓ **12:30am** -Lunch
- ✓ **2:00pm** - Workshop targeting (Pain/Mov. Disorders) Hands-on planning Software
- ✓ **2:30pm** - Practical radiofrequency technique
- ✓ **3:30pm** - MER & LFP Recording
- ✓ **4:00pm** - Stereotactic system practical handling
- ✓ **4:30pm** - Q&A + Wrap up Day Closure
- ✓ **5:30pm** - Happy hour -Social Integration -all invited (voluntary adhesion)

Day 2

October 13th

- ✓ **8:00am** - Neuroanatomy and particularities of the brainstem and spinal cord relevant for therapeutic lesions
- ✓ **8:25am** - Stereotactic thalamotomy (CM/Pf&Pulvinar)/mesencephalotomy/pontine trigeminal nucleotomy for chronic pain
- ✓ **8:50am** - Stereotactic extralemniscal myelotomy for bilateral pain
- ✓ **9:15am** -Open trigeminal caudalis nucleus lesion for pain
- ✓ **9:40am** - Coffee Break
- ✓ **10h00am** -Stereotactic trigeminal nucleotomy for dysesthetic facil

- ✓ **10:25am** - Drezotomy for chronic pain: indications and techniques
- ✓ **10:50am** - Techniques for anterolateral cordotomy and central myelotomy for cancer pain
- ✓ **11:25am** - Stereotactic ablative targets for psychiatric disorders
- ✓ **12:00am** - Closure

Speakers



Erich Fonoff
MD NSU PhD (Brazil)

Department of Neurology - University of São Paulo

Department of Neurology - University of São Paulo

His Interest in neurosciences started early during first year of med school in University of São Paulo (USP) driving him into a 5-year-experience in the neurophysiology lab under the supervision Prof. Cesar Timo Iaria (one of the founders of discipline neurophysiology/neurosciences in Brazil) when he was exposed to stereotaxic method and performed several chronic micro and LFP recording electrode implants in animal models to study brain oscillations in sleep and attention. Right after the medical degree in the same university (1998), started neurosurgery residency program at Hospital das Clinicas in USP under the supervision of Prof. Raul Marino Jr. (1999-2003), followed by a fellowship in Functional Neurosurgery (2004-2007) in the Division of Functional Neurosurgery in the same institution. Conducted the Ph.D. thesis with studies in the mechanism of motor cortex stimulation for pain in the Neurology Department at USP (2007) and won the Young Investigator Ward in the WSSFN Meeting in Rome in 2005. In 2009 he became Ph.D. supervisor (2009-Present) and became preceptor for functional neurosurgery fellowship and organized the first multidisciplinary DBS unit in Division of Functional Neurosurgery in the Institute of Psychiatry at USP having many fellows from different countries in Latin America. Conducted several experimental and clinical studies for different stereotactic, neuromodulation and DBS techniques for movement disorders and neuropsychiatric diseases. Founded the neuromodulation lab in Hospital Sírio-Libânes also in a multidisciplinary context conducting studies in neuromodulation of pain and movement disorders. Received multiple research grants, published several scientific papers, book chapters and conferences in international meetings worldwide. Received the Full Professorship in Neurosurgery in

2012 studying the Effects of DBS in Motor & Non-Motor Symptoms of PD. In 2013, he progressed into the Position of Associate Professor of Neurosurgery in Neurology Dept at USP (2013-present). In 2014 became postdoc supervisor (2014 - present); presently is member of the board of directors in the WSSFN and LATAM and Brazilian Stereotactic and Functional Neurosurgery (SLANFE/BSSFN).

Main Research Projects and Interests

1. Functional Neurosurgery

- Neuromodulation in the treatment of Movement Disorders, Pain, Spasticity and Psychiatric

disorders (deep brain stimulation, spinal cord stimulation, neuronal recording and microdialysis

in human stereotactic Surgery);

- Anatomical, Neuroimaging and Functional brain mapping (3D Atlas of the Human Brain,

Navigated TMS Brain Mapping and Intraoperative Microrecording and Mapping);

2. Advanced Ablative Pain Surgery, Minimally invasive surgery of the spinal canal, spinal endoscopy.

3. Image guided surgery (stereotaxy, neuronavigation, intraoperative imaging - MRI/Ultrasound)

4. Human Brain Machine/Computer Interface.



William Omar Contreras Lopez
MD NSU MSC PHD (Colombia)

Director at-large NEMOD International Neuromodulation Center, Colombia. Professor at UNAB University, Bucaramanga. Trained Neurosurgeon at Rosario University, Bogotá. Fellow AO Spine, Curitiba, Brazil. Fellow in Functional Neurosurgery at São Paulo University, Hospital das Clínicas Brazil. Fellow in Skull Base and Vascular Neurosurgery at Beneficência Portuguesa, São Paulo. Doctor at Freiburg University, Germany. Postdoc at Sao Paulo University. 62 articles in PUBMED. 1 written Book. 9 Books chapters. Editorial Board for Neuromodulation Technology at the Neural Interface. Associate Editor for: Frontiers in Neurology. Associate Editor for Frontiers in Psychiatry. Young Scientist at 61st Nobel Laureates Meeting. Young Neurosurgeon Award WFNS 2015, Rome Italy. Young Neurosurgeon Award ISMINS (International Society on Minimally Invasive Neurosurgery), Florence Italy. 2 times Gold Lions winner, Cannes France. 3 times Clio Awards winner, New York. Colombian Chapter President at International Modulation Society (INS).



Joachim k Krauss MD NSU MsC (Alemanha)

Professor Joachim K. Krauss is Director and Chairman of the Department of Neurosurgery at Hannover Medical School, Germany, since 2005. He received his MD degree at the Medical Faculty of the University of Freiburg, Germany, for his experimental work in neuropharmacology of the basal ganglia. He trained in neurology, and later in stereotactic and functional neurosurgery, and general neurosurgery with Professors Mundinger and Seeger in Freiburg. Thereafter, he moved to Houston, Texas, to collaborate with Drs Grossman and Jankovic. He went back to Europe to establish functional neurosurgery in Berne, Switzerland, and in Mannheim, Germany, where he served as Vice Chairman from 1999 to 2005. He became Associate Professor at the University of Heidelberg, Germany, and served as Adjunct Associate Professor at Baylor College of Medicine, Houston, Texas. His clinical routine includes functional neurosurgery, complex spine, skull base, microvascular decompression, neurooncology and hydrocephalus.

Prof. Krauss has been President of the European Society for Stereotactic and Functional Neurosurgery (ESSFN) from 2010 to 2014, and of the World Society for Stereotactic and Functional Neurosurgery (WSSFN) from 2013 to 2017. He also served as President of the German Academy for Neurosurgery from 2018 to 2019. He is Head of the Commission for Technical Standards of the DGNC since 2007. Furthermore, he is an active member of several international societies, committees and advisory boards. One of his missions is to bridge the gap between Neurosurgery and Neurology why he is also active in the Movement Disorders Society where he served as Chair of the Task Force Neurosurgery and as Co-Chair of the Task Force Deep Brain Stimulation for Dystonia. He currently serves as Co-Chair of the MDS Study Groups Neuromodulation for Gait and Normal Pressure Hydrocephalus.

He has published more than 600 scientific manuscripts and book chapters, and he has edited four books in the field of functional neurosurgery. He introduced pallidal deep brain stimulation for cervical dystonia in 1997, and spinal cord stimulation for orthostatic tremor in 2002. He received several awards including the Oppenheim prize for his work in dystonia. He runs an active laboratory together with Professor Schwabe dedicated to the study of animal models of movement disorders and behaviour. His current research interests include skull base approaches, microvascular decompression, and experimental and clinical studies on the treatment of movement disorders, with a special focus on dystonia, but also psychiatric disorders and other applications of deep brain stimulation. In the past few years he put a particular focus on education and training. He is a member of the ESSFN training committee and chair of the WSSFN training committee



Jose Oswaldo de Oliveira Jr
MD NSU (Brasil)

Neurosurgeon CRM 31963

Physician from the University of São Paulo (USP). Medical Residency in Neurosurgery at the Hospital das Clínicas, Faculty of Medicine, University of São Paulo. Doctor in Medicine from USP. Certification in area of expertise by AMB. Director of the Department of Antalgic Therapy, Functional Surgery and Palliative Care Celestino Bourroul School of Cancerology in São Paulo. Director of the Pain and Stereotaxy Center at AC Camargo Cancer Center. Responsible for Functional Neurosurgery and Specialized Pain Group at the Neurosurgery Service of the State Public Hospital. President of the Pain Committee of the Brazilian Medical Association. President of the Brazilian Society of Functional Neurosurgery for the biennium 2021/2022. President of the Brazilian Society for the Study of Election for the 2022/202 Biennium (for more than two people participating in all SBED board positions). LATTES CURRICULUM <http://lattes.cnpq.br/6744087111028320>



Fabián Piedimonte
MD NSU MSC (Argentina)

University Specialist in Neurosurgery.

- Fellow of Interventional Pain Practice, certified by the World Institute of Pain (WIP).
- Professor at the University of Buenos Aires.
- Director of the Neuroscience Department of the “Instituto de Ciencias

Aplicadas (ICAP) de la Facultad de Medicina de la Universidad de Buenos

Aires”.

- Consultant Physician of the Neurosurgery Division of the “Hospital de Clínicas José de San Martín”, University of Buenos Aires.
- President of “Fundación CENIT para la Investigación en Neurociencias” (CENIT Foundation for Neuroscience Research).
- President of the “Academia Latinoamericana de Médicos Intervencionistas en Dolor” (ALMID).
- Honorary President of “Capítulo de Neuromodulación de la Academia Argentina de Psiquiatría” (Neuromodulation Chapter of the Argentine Psychiatry Association) – AAP.
- Scientific Program Co-Chair, INS 15th World Congress, Barcelona 2022.
- Director of the Biannual Course of Stereotactic and Functional Neurosurgery

of the Neurosurgery Argentine Association (AANC).

- Vice Chair Latin America Section, World Institute of Pain (WIP).
- Deputy Director of the Provincial Program of Neuromodulation.
- Permanent General Secretary of the SLANFE.
- Editor in Chief of “NeuroTarget, Vanguardia en Neurociencias”, Journal of

Stereotactic and Functional Neurosurgery, Radiosurgery and Pain.

- Member of the current Board of Directors of the World Society for Stereotactic and Functional Neurosurgery (WSSFN).
- Member of the IASP Committee on Committees.
- Member of the IASP Developing Countries Working Group.
- Chairman INS Conflict of Interest Committee representing South America.
- Member of the INS Centers of Excellence Committee.
- Member of the INS Membership & Chapter Creation, Advocacy and Society

Liaison and Globalization Committees.

- Ex-INS Regional Director-at-Large for the Latin America Region.
- Ex-Continental Vice-President for Central and South America of the World

Society for Stereotactic and Functional Neurosurgery (WSSFN).

- Ex-President of the Latin American Federation of Associations for the Study of Pain- Federación Latinoamericana de Asociaciones para el Estudio del Dolor (FEDELAT).

- Ex-President of the Argentinean Association for the Study of Pain- Asociación Argentina para el Estudio del Dolor (AAED).

- Ex-President of the Latin American Society of Functional Neurosurgery and Stereotaxy – Sociedad Latinoamericana de Neurocirugía Funcional y Estereotaxia (SLANFE).

- Ex-Treasurer of the International Neuromodulation Society (INS).
- Founder and Ex President of “Sociedad Argentina de Neuromodulación (SANE

– INS Chapter).

- Chair of the Local Arrangements Committee of the 15th World Congress on Pain, Buenos Aires 2014 (IASP).



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