

CURRICULUM VITAE:

Alejandra Climent Perin, MD

INFORMACIÓN DE CONTACTO:

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FECHA DE NACIMIENTO: 25-08-1978. Natural de Tortosa (Tarragona). Nativa para catalán y castellano. Nivel de inglés oral y escrito excelente (residente en US desde 2009).

FORMACIÓN ACADÉMICA:

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|--------------------------|---|
| 1997-2003 | Licenciada en Medicina y Cirugía General, Universitat Autònoma de Barcelona, Barcelona. |
| 2004-2008 | Especialidad vía M.I.R, Neurofisiología Clínica. Hospital Universitario Bellvitge, Barcelona. |
| 2008-2008 | <i>“Clinical Observeship” (4 meses), Intraoperative Neurophysiology Department, Roosevelt Hospital, New York, US.</i> |
| 2008-2009 | Becaria, Unidad Neurofisiología Intraoperatoria, Servicio Cirugía Ortopédica y Traumatología (COT), Instituto de Investigación Biomédica de Bellvitge (IDIBELL), Universitat de Barcelona, Barcelona. |
| 2009-2010 | <i>“Clinical Research fellow” (18 meses), Intraoperative Neurophysiology Department, Roosevelt Hospital, Columbia University, New York. U.S.</i> |
| 2010-2010 | <i>“Mini-fellowship”, Movement Disorders, Deep Brain Stimulation (DBS), Mount Sinai Hospital, Icahn School of Medicine, New York, NY, US.</i> |
| 2011-2011 | Intraoperative Neurophysiology in Spinal Cord, Educational Intensive Course, International Society of Intraoperative Neurophysiology (ISIN), |
| 2015-2015 | <i>“Mini-fellowship”. Transcranial Magnetic Stimulation Intensive Course. Berenson-Allen Center for Non-invasive Brain Stimulation. Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, US.</i> |
| 2012- <i>in progress</i> | Tesis doctoral: “A novel method of multimodal intraoperative monitoring to prevent nerve injury during hip surgery”. Universitat de Barcelona. Director tesis: Vedran Deletis. |
| 2004-2008 | Cursos doctorado, Hospital Universitario Bellvitge, Universitat de Barcelona: |

- 2004 *Curso de Emergencias médicas.*
- 2004 *Curso de reanimación avanzada.*
- 2006 *Curso sobre Epidemiología de la infección nosocomial.*
- 2008 *Curso de Patología Vascul ar Cerebral*

EXPERIENCIA PROFESIONAL:

- 2004-2008 Residencia, Neurofisiología Clínica. Guardias de Neurología y Medicina Interna, Hospital Universitario de Bellvitge, Barcelona.
- 2008-2009 Becaria, Monitorización Neurofisiológica Intraoperatoria (MNIO), Servicio de Cirugía Ortopédica y Traumatología (COT), Hospital de Bellvitge, Instituto de Investigación Biomédica de Bellvitge (IDIBELL) Barcelona.
- 2008-2009 Médico Adjunto, Exploraciones funcionales del sistema nervioso (Electroencefalografía, Electromiografía y Potenciales Evocados), Servicio de Neurología, Hospital Nostra Senyora de Meritxell, Escaldes-Engordany, Andorra.
- 2008- 2019 Médico adjunto, Servicio de Electromiografía, Hospital Fundación Sanitaria San Pere Claver, Barcelona.
- 2009-2010 *“Research fellow”, Intraoperative Neurophysiology Department, Roosevelt Hospital, New York, US.*
- 2010-2014 Médico Adjunto, Unidad Neurofisiología Intraoperatoria/ Unidad de Epilepsia, Servicio Neurología, Hospital Universitario de Bellvitge, Barcelona.
- 2011-*Actualidad* Profesor invitado, Máster de electrodiagnóstico Neurológico, Módulo Monitorización Neurofisiológica Intraoperatoria. Universitat de Barcelona, Barcelona. (Clases impartidas: a) *Monitorización neurofisiológica intraoperatoria (MNIO) en cirugía vascular Intracraneal*, b) *Monitorización neurofisiológica intraoperatoria (MNIO) en la cirugía de la médula espinal*, c) *Monitorización Neurofisiológica Intraoperatoria (MNIO) en la Cirugía de cadera, Workshops: Montajes en monitorización intraoperatoria, cirugía “online” transmitida desde el quirófano.* <http://www.edxneuro.com/>
- 2012- 2014 Profesor invitado, Course & Workshop: Multimodal Intraoperative Neuromonitoring in the field of neurosurgery, neurology orthopaedics and anesthesia, Universitäts Freiburg Klinikum Neurosurgical Department in collaboration with Neurosurgical department of the Albert-Ludwig University, ARKANA Emmendingen, Freiburg, Alemania. (Clases impartidas: a) IONM in Hip surgeries, b) Bulbocavernous reflex (BCR): method and indications in Intraoperative Neuromonitoring, c) *IONM in Spine surgeries.* <http://www.inomed.com/workshops/>

- 2019-*Actualidad* Jefe, Unidad de Electromiografía, Fundación Hospital Sant Pere Claver, Barcelona.
- 2012- 2014 Consultora Internacional, Neurofisiología Intraoperatoria, Research & Development Department, Inomed Medizintechnik GmbH, Emmendingen, Alemania.
- 2014-2015 Director Asociado, *Intraoperative Monitoring*, Neurosurgery Department, Mount Sinai Hospital, New York, NY, US.
- 2015- *Actualidad* Jefe Unidad Neurofisiología Intraoperatoria, Potenciales evocados y Neuromodulación pediátrica, Servicio Neurología, Hospital infantil Sant Joan de Deu, Barcelona

AFILIACIONES PROFESIONALES:

- 2003-*Actualidad* Miembro, Colegio Oficial de Médicos de Barcelona (*Nºcolegiado: 38379*).
- 2004-*Actualidad* Miembro, "*Societat Catalana de Neurofisiologia Clínica i Neurologia*".
- 2004-*Actualidad* Miembro, "*Acadèmia de les Ciències Mèdiques i de la Salut Catalans i Balears*"
- 2004-2011 Miembro, sociedad Española de Neurología (SEN)
- 2007- *Actualidad* Miembro, *International Society for Intraoperative Neurophysiology (ISIN)*.
- 2017- *Actualidad* Miembro de la Sociedad Española de Neurofisiología Clínica (SENFC)

HONORES ACADÉMICOS/ PREMIOS:

- 2008 Beca Investigación Clínica (Título proyecto: Monitorización Neurofisiológica Intraoperatoria (IONM) en la Cirugía de cadera), Instituto de Investigación Biomédica de Bellvitge (IDIBELL), Universitat de Barcelona, Barcelona.
- 2009 *Awarded Research Grant*, (Título proyecto: "*Motor system physiology*"), *Institute for Neurology and Neurosurgery (INN)*, Roosevelt Hospital, Yeshiva University, New York, NY, US
- 2017 Premio a la Mejor Comunicación Oral-Casos Clínicos: "Valor de los Potenciales evocados auditivos por estimulación eléctrica en Cirugía de Implante Auditivo de Tronco cerebral. II Congreso de la Asociación de Monitorización Intraquirúrgica Neurofisiológica Española (AMINE). Barcelona, Mayo 2017

PUBLICACIONES "PEER-REVIEWED":

1. Aiguabella Macau M, Falip Centellas M, Veciana de Las Heras M, **Climent Perín MA**, Miró Lladó J, et al. Long term prognosis of juvenile absence epilepsy. *Neurologia*. 2011 May;26(4):193-9. PubMed PMID: [21163225](#).
2. Malcharek MJ, Ulkatan S, Marinò V, Geyer M, Lladó-Carbó E, **Climent J**, et al. Intraoperative monitoring of carotid endarterectomy by transcranial motor evoked potential: a multicenter study of 600 patients. *Clin Neurophysiol*. 2013 May;124(5):1025-30. PubMed PMID: [23200315](#).
3. Casañas J, **Climent J**, de la Torre J, Soler F, García F, Rodellar C, et al. Peripheral nerve regeneration after experimental section in ovine radial and tibial nerves using synthetic nerve grafts, including expanded bone marrow mesenchymal cells: morphological and neurophysiological results. *Injury*. 2014 Oct;45 Suppl 4:S2-6. PubMed PMID: [25384470](#).
4. **Alejandra Climent**, Federico de Meo, Sedat Ulkatan, Antonio Coscujuela, Manuel Ribas, Vedran Deletis. A novel Intraoperative neurophysiological (IOM) method for prevention of nerve injury during Hip surgery. *Clin Neurophysiol*. 2015 Feb; *publishing in progress*.
5. **Climent, Alejandra**, et al. 3 Cases of ALS with respiratory onset. 3 Cases of ALS with respiratory onset. 11th International meeting of Neuromuscular Disorders; 2006; Istanbul, Turkey. *Neuromuscular disorders*; c2006.
6. **Climent, Alejandra**, et al. WO26 Multimodal intraoperative neurophysiological monitoring in intracranial aneurism surgery. 13th European Congress of Clinical Neurophysiology; 2008; Istanbul, Turkey. *Clin Neurophysiol*; c2008.
7. **Climent, Alejandra**, et al. 9. Multimodal intraoperative evoked potential monitoring (IOM) for hip surgery. Fourth Congress International Society of Intraoperative Neurophysiology (ISIN); 2013 November; Cape Town, south Africa. *Clin Neurophysiol*; c2014.
8. David Putrino, **Alejandra Climent**, Laura Dubreuil Vall, Giulio Ruffini, Douglas Labar, Dylan Edwards, Mar Cortes. Motor evoked potential changes in response to transcranial direct current stimulation correlate with quantitative EEG changes in subjects with chronic spinal cord injury. *Brain Stimulation* 2017

PROYECTOS DE INVESTIGACION CON FINANCIACION:

2011-2013

Código del protocolo: MSC-NP- 2011.

IP: Félix Garcia, Marta Prades (Facultad de Veterinaria UAB), Lluís Orozco, Robert Soler rich (ITRT), Joaquim Casañas (CM Teknon), Juan Sentís (Facultad Medicina Universitat de Barcelona)

Título del proyecto: Regeneración axonal de nervios periféricos con células progenitoras mesenquimales de médula ósea. (Estudio en modelo de animal ovino).

Promotores: EGARSAT, Institut de teràpia Regenerativa Tissular (ITRT), Teknon centro mèdico.

Centros colaboradores: LAGENBIO- Universidad de Zaragoza, IBGM-Universidad de Valladolid, Facultad Veterinaria UAB, Facultad medicina UB

Rol: Co-Investigador.

2014- 2015.

Código protocolo: *Private funds*

IP: Dylan Edwards, P.h.D., (Burke Medical Research Institute, Weill Medical College of Cornell Institute), Bruce H. Dobkin, M.D., Choi Deblieck, M.D., Allan D. Wu, M.D. (University of California, Los Angeles)

Título del proyecto: Effects of Memantine on corticospinal excitability in stroke population.

Promotores: University of California, Los Angeles (UCLA)

Centros Colaboradores: University of California, Los Angeles (UCLA)

Rol: Co-investigator

PONENCIAS :

1. Internacionales:

- 2011 Pedicle Screw mapping, Intraoperative Monitoring. Intraoperatifnöro Monitorizayonda güngel yaklasımlar, Acibadem University, Estambul, Turquía.
- 2011 Brainstem mapping, Intraoperative Monitoring, Intraoperatifnöro Monitorizayonda güngel yaklasımlar, Acibadem University, Estambul, Turquía.
- 2011 Spinal cord Intraoperative Monitoring, Intraoperatifnöro Monitorizayonda güngel yaklasımlar, Acibadem University, Estambul, Turquía.
- 2012 The principles of (Facial) Nerve monitoring using CMAP Technique. Nordic Society for Vascular Anomalies (NSVA) meeting. Rikshospitalet, Oslo. Noruega .
- 2012 Monitoring during Hip Surgery, Course of Intraoperative Neurophysiological Monitoring in the field of spine surgery for orthopedic surgeons, neurosurgeons and neurologists. Universitäts Freiburg Klinikum Neurosurgical Department in collaboration with Neurosurgical department of the Albert-Ludwig University (R. Sircar MD), Freiburg, Alemania.
- 2012 Intraoperative monitoring (IOM) of cranial nerves, 50th Annual meeting of the Colombian Association of Neurosurgery. Bogota, Colombia.
- 2012 Intraoperative monitoring (IOM) in spine surgery, 50th Annual meeting of the Colombian Association of Neurosurgery. Bogota, Colombia.
- 2013 IONM in Hip surgeries, Users Meeting: "Multimodal Intraoperative Neuromonitoring in the field of neurosurgery, neurology orthopaedics and anesthesia for users of Inomed equipment", Emmendingen, Alemania.

- 2014 Potential neurophysiological markers as a predictor of responders to lower limbs assistive-robotic training. Summer retreat, Burke Medical Research Institute, Weill Medical College of Cornell University, New York.
- 2015 Methods in Clinical Neurophysiology: Medical applications of TMS. Spring retreat. Florida International University, Miami, Florida.

2. Nacionales:

- 2007 Actualizaciones en Monitorización Intraoperatoria. Sociedad Catalana de Neurofisiología Clínica. Barcelona.
- 2010 Neuromodulación: presente y futuro. Aportación de la Monitorización Intraoperatoria en la Cirugía Funcional. Sociedad Española de Neurología. Sociedad adherida: Club de EMG. Barcelona.
- 2011 ¿Sabemos diagnosticar la patología del nervio periférico? Diagnóstico EMG y registro intraoperatorio. Que nos aporta y que podemos esperar XX Congreso Nacional SECMA y II Congreso Hispano-luso de Cirugía de la mano. Valencia.
- 2011 Monitorización Neurofisiológica Intraoperatoria (MNIO) en la Cirugía de cadera. Curso de la Sociedad Española de Cirugía de Cadera (SECA). Barcelona.
- 2012 Aspectos generales de la Monitorización Intraoperatoria en la Cirugía Ortopédica, Servicio de Cirugía Ortopédica, Hospital 2 de Mayo, Barcelona.
- 2012 Anestesia y Monitorización Intraoperatoria (IOM), Sesión general, Servicio de Reanimación y Anestesiología, Hospital Universitario Quirón-Dexeus, Barcelona.
- 2016 Rol de la Neurofisiología Intraoperatoria en la Neurocirugía Oncológica Infantil. XXXII Reunión de la Sociedad Española de Neurocirugía Pediátrica (SENEP), Barcelona.
- 2016 IOM en la cirugía de cadera. I Congreso de la Asociación de Monitorización Intraquirúrgica Neurofisiológica Española (AMINE), Santander.
- 2017 Enfoque Multimodal en la Monitorización de la Cirugía de Fosa Posterior Pediátrica. Reunión de la Societat Catalana de Neurofisiologia Clinica aplicada a la Pediatria. Tarragona
- 2018 IOM en la cirugía de cadera. III Congreso de la Asociación de Monitorización Intraquirúrgica Neurofisiológica Española (AMINE), Oviedo.
- 2018 IOM en la cirugía supratentorial Infantil. III Curso IOM de la Asociación de Monitorización Intraquirúrgica Neurofisiológica Española (AMINE), Oviedo.

PRESENTACIONES INTERNACIONALES:

- 2006 5 Cases of ALS with respiratory onset, **Climent A**^{***}, Povedano M, Casanovas C, Olivé M*, Pascual J**, Montero J, Martínez- Matos JA, Neuromuscular disorders department, Neurology Service, Bellvitge University Hospital, Barcelona, Spain,
^{***}Department of Intraoperative Neurophysiology, Bellvitge University Hospital, Barcelona, Spain, ^{**} Neurology Service, IMAS Mar Hospital, Barcelona, Spain,
^{*}Institut de Neuropatologia, Bellvitge University Hospital, Barcelona, Spain, 11th International meeting of Neuromuscular Disorders, Istanbul, Turkey.
- 2008 Nocturnal syncopes often misdiagnosed as epilepsy, Aiguabella M, Falip M, Veciana M*, **Climent MA***, Sabaté X, Neurology Service, Bellvitge University Hospital, Barcelona, Spain, ^{*}Department of Intraoperative Neurophysiology, Bellvitge University Hospital, Barcelona, Spain, 8th European Congress on Epileptology, Berlin, Germany.
- 2009 Methodology for intraoperative multimodal monitoring in spinal cord tumors: Four patients report. **Climent A.**, Pérez-Fajardo G., Ulkatan S., Arranz B., Deletis V.
Department of Intraoperative Neurophysiology, St. Luke's-Roosevelt Hospital, New York, NY, USA, Second Congress International Society of Intraoperative Neurophysiology (ISIN), Dubrovnik, Croacia.
- 2009 Posterior Root-Muscle Reflexes: Methodological aspects and preliminary results in healthy subjects. Pérez-Fajardo G., Lladó-Carbó E., Araus-Galdós E., **Climent-Perin A.**, Ulkatan S., Deletis V., Department of Intraoperative Neurophysiology, St. Luke's-Roosevelt Hospital, New York, NY, USA, Second Congress International Society of Intraoperative Neurophysiology (ISIN), Dubrovnik, Croacia
- 2010 Visual Evoked Potential (VEP) monitoring in supratentorial surgeries. Lladó-Carbó E*, Perez-Fajardo G, Arranz-Arranz B, **Climent A**, Ulkatan S, Deletis V, Department of Intra Operative Neurophysiology St. Luke's- Roosevelt Hospital New York, NY, USA, ^{*}Department of Neurosurgery, Hospital Universitari Mútua de Terrassa, Spain, First Join Cross-Atlantic Educational Symposium of Intraoperative Neurophysiologic Monitoring, Groningen, Holland.
- 2010 Facilitation of Motor Evoked Potentials: Effect of frontal motor areas. **Climent A**, Perez-Fajardo G, Arranz-Arranz B, Ulkatan S, Deletis V., Department of Intra Operative Neurophysiology St. Luke's- Roosevelt Hospital New York, NY, USA, First Join Cross-Atlantic Educational Symposium of Intraoperative Neurophysiologic Monitoring, Groningen, Holland.
- 2010 Intraoperative Compound muscle action potential (CMAP) monitoring of the Facial Nerve during Vascular Anomalies Surgery, I. Weiss M.D., S. Ulkatan

M.D.*, **A. Climent M.D.***, T. O MD., M. Waner M.D., F.A.C.S., Vascular Birthmark Institute of New York, Beth Israel Medical Center and St. Luke's-Roosevelt Hospital Center,
 *Department of Intraoperative Neurophysiology. St. Luke's-Roosevelt Hospital. New York . NY. USA, 18th International Workshop for the study of Vascular Anomalies (ISSVA). Brussels.

- 2011 Multimodal Intraoperative Evoked potentials Monitoring (IOM) for Hip surgery. **Climent Perin A¹.**, Coscujuela A²., Ribas M³., Ledesma R³., Fernández conejero I¹., Ulkatan S⁴., Deletis V⁴., 1. Department of Intraoperative Neurophysiology. Bellvitge University Hospital, Barcelona, Spain, 2. Hip Surgery department. Bellvitge University Hospital. Barcelona, Spain, 3. Hip Surgery department. ICATME (Catalan Institute of Sportive Medicine). Quirón-Dexeus University Hospital. Barcelona, Spain, 4. Department of Intraoperative Neurophysiology. St. Luke's-Roosevelt Hospital, New York, NY, US, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.
- 2011 A cost effectiveness study for multimodal intraoperative monitoring (IOM) in aneurysm surgery.. **Climent Perin A¹.**, López Ojeda P²., Torres A²., Fernández Conejero I¹., Gabarrós A²., 1. Department of Intraoperative Neurophysiology. 2. Neurosurgery Department. Bellvitge University Hospital, Barcelona, Spain, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.
- 2011 Facilitatory effect of frontal motor areas stimulation to the motor evoked potential (MEPs). **Climent Perin A^{1,2}.**, Pérez Fajardo G¹., Arranz Arranz B¹., Ulkatan S¹., Deletis V¹., 1. Department of Intraoperative Neurophysiology. St. Luke's-Roosevelt Hospital. New York. NY. USA, 2. Department of Intraoperative Neurophysiology. Bellvitge University Hospital, Barcelona, Spain, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.
- 2011 Value of multimodal intraoperative monitoring (IONM) in intracerebral aneurysm surgeries. A review of 140 patients. Pérez Fajardo G., **Climent A.**, Arranz B, Ulkatan S., Deletis V., Department of Intraoperative Neurophysiology. St. Luke's-Roosevelt Hospital. New York. NY. USA, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.
- 2011 Clinical prognosis of cerebral aneurysm surgery: Intraoperative Neuromonitoring versus not neuromonitoring in a series of 130 patients. Torres, A., **Climent A.**, López P., Fernández Conejero I., Gabarrós A., Acebes JJ., Bellvitge University Hospital, Barcelona, Spain, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.
- 2011 A comparison between the percentage of selective Shunt Application in 195 Carotid Endarterectomies and previously published studies. Arranz Arranz B., Quijada Miranda, C., Pérez Fajardo G., Lladó Carbó E., **Climent Perin M.A.**,

Ulkatan S., Lantis J., Benvenisty A., Todd, G., Deletis V., Department of Intraoperative Neurophysiology. St. Luke's-Roosevelt Hospital. New York. NY. USA, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.

- 2011 Effect of subdural air collection on elicibility of evoked potentials during surgery in sitting position: a review in 7 patients. Pérez Fajardo G^{1,3}, **Climent A**^{2,3}, Arranz B³, Lozano J⁴, Fernandez Conejero I², Ulkatan S³, Deletis V³, 1. Clinical Neurophysiology Service. Reina Sofía University Hospital Córdoba, Spain, 2. Department of Intraoperative Neurophysiology, Bellvitge University Hospital, Barcelona, Spain, 3. Department of Intraoperative Neurophysiology, St. Luke's-Roosevelt Hospital, New York, NY, US, 4. Neurosurgery Service, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.
- 2011 Value of Multimodal Intraoperative Monitoring (IOM) in spinal cord tumors and correlation with neurological outcome. Iglesias A:M, Diaz J., **Climent A.**, Fernández Conejero I., Rodríguez D., Yurrebaso I., Bellvitge University Hospital, Barcelona, Spain, Third Congress International Society of Intraoperative Neurophysiology (ISIN), Barcelona, Spain.
- 2011 Removal of facial vascular anomalies using nerve sparing techniques: Intraoperative CMAP monitoring. Inanna Weiss, MD. Sedat Ulkatan, MD; **Alejandra Climent, MD**; Milton Waner, MD; Vedran Deletis, MD., EURAPS (European Association of Plastic Surgeons), Mykonos, Greece.
- 2012 Osteotomia periacetabulare con monitoraggio neurofisiológico, V. Bellotti, **A. Climent***, E. Astarita, F. De Meo, C. Cardenas, M. Ribas., ICATME (Catalan Institute of Sportive Medicine), Quirón-Dexeus University Hospital, *Department of Intraoperative Neurophysiology, Bellvitge University Hospital, Barcelona, Spain, 97° Congresso Nazionale SIOT, Roma, Italy.
- 2013 Multimodal Intraoperative Evoked Potential Monitoring (IOM) for Hip Surgery, **Climent Perin A**^{1,3}, Coscujuela A², Ribas M³, Fernández conejero I¹, Ulkatan S⁴, Deletis V⁴, 1. Department of Intraoperative Neurophysiology. Bellvitge University Hospital, Barcelona, Spain, 2. Hip Surgery department, Bellvitge University Hospital, Barcelona, Spain, 3. Hip Surgery department, ICATME (Catalan Institute of Sportive Medicine), Quirón-Dexeus University Hospital, Barcelona, Spain, 4. Department of Intraoperative Neurophysiology, St. Luke's-Roosevelt Hospital, New York, NY, US, Fourth Congress International Society of Intraoperative Neurophysiology (ISIN), Cape Town, South Africa.
- 2014 Multimodal intra-operative (IOM) of Sciatic and femoral nerves during PAO: a novel method. F. De Meo ¹, **A. Climent**^{2,3}, C. Cardenas³, E. Astarita³, V. Bellotti³, P. Cavaliere ¹, M. Ribas^{3,1} GIOMI – “F. Scalabrino” Messina “F. Faggiana” Reggio Calabria, IT, ² Mount Sinai, Hospital Manhattan New York, ³ ICATME – Istituto Universitario Quiron Dexeus, Barcellona, SP. 15th EFORT (European Federation of National Associations of Orthopaedics and

Traumatology) Congress. A Combined programme in partnership with the BOA (British Orthopaedic Association). London, United Kingdom.

- 2017 The effects of transcranial direct current stimulation in chronic spinal cord injury: a quantitative EEG study. M. Cortes, **A. Climent**, D. Putrino, L. Dubreuil Vall, G. Ruffini, D. Labar, D.J. Edwards. 2nd international Brain Stimulation Conference. Barcelona, Spain.
- 2017 Valor de los Potenciales evocados auditivos por estimulación eléctrica en Cirugía de Implante Auditivo de Tronco cerebral. **Alejandra Climent**, Vanessa Carolina Thonon, Oliver Haag, M Antonia Claveria, Robert Behr, Janette Gambettola, Santiago Candela. II Congreso de la Asociación de Monitorización Intraquirúrgica Neurofisiológica Española (AMINE). Barcelona, Mayo 2017
- 2018 Nuevo método para registro intraoperatorio de potenciales evocados motores corticobulbares en músculos extra-oculares. **Alejandra Climent**, Isabel Ayet Roger, Santiago Candela, Mariana Alamar, Pilar Baños, Jordi Rumia, Enric Ferrer. III Congreso de la Asociación de Monitorización Intraquirúrgica Neurofisiológica Española (AMINE), Oviedo Mayo 2018.