

Rome, 10-11th September 2015

Marriott Park Hotel Via Colonnello Tommaso Masala, 54 - Rome, Italy

15th Interim Meeting of the World Federation of Neurosurgical Societies

Italian Healthcare and MedTech Chain in the field of Neuroscience

Italian Excellences in Neuroscience:  
the network and the innovative technologies  
10th September, 2.00 - 6.00 pm

2.00 pm – Welcome Addresses:

- Francesco Tomasello, President of the 15th Interim Meeting of WFNS
- Alberto Delitala, President of SINch
- Luigi Boggio, President of Assobiomedica
- Carlo Calenda, Deputy Minister for Economic Development (TBC)
- Beatrice Lorenzin, Minister of Health (TBC)

Coordinators:

- Giovanni Leonardi, Director General of Research and Innovation in Healthcare, Ministry of Health
- Carlo Caltagirone, Scientific Director of Fondazione Santa Lucia, Roma

3.00 pm – NEURO-REHABILITATION

Chair:

- Placido Bramanti, Scientific Director of IRCCS Centro Neurolesi Bonino Pulejo, Messina

Scientific Presentations:

- Silvia Marino, Angelo Quartarone, Placido Bramanti, IRCCS Centro Neurolesi Bonino Pulejo, Messina, *Innovative models for advanced neuro-rehabilitation with validation by MR3-T*
- Filoni Serena, Fondazione Centri di Riabilitazione Padre Pio Onlus, San Giovanni Rotondo (FG), *Effects of training with a wearable exoskeleton in patients with SCI*
- Christian Lunetta, Centro clinico NEMO - NEuroMuscular Omnicentre, Milano, *New strategies for multidisciplinary care and technological management of Neuromuscular Diseases: NEMO Clinical Center experience*
- Marco Bozzali, Carlo Caltagirone, Fondazione Santa Lucia, Roma, *Innovative diagnostic neuroradiology, neuromotor and cognitive rehabilitation in severe acquired brain injuries*

Technological Innovations:

- LiquidWeb, *Thought-controlled assistive technology – Braincontrol*
- Brainer, *Web-based cognitive rehabilitation platform*
- Fifth Ingenium, *Therapeutic platform for autistic patients – FifthElement*
- Koala Care, *Web and mobile platform to reduce caregiver stress burden*
- ICan Robotics, *Neuro-rehabilitation robotic devices*
- MES, *Phoenix: the exoskeleton for everyday life*
- Move4Health, *Therapeutic platform for targeted neuro-rehabilitation*
- Neuroteam, *Brain training by means of non-invasive neuro-modulation – NeuroGoggles*

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4.00 pm – NEUROSURGERY SIMULATORS, DEVICES AND IMAGING

Chair:

- Francesco Di Meco, Director of the Fondazione IRCCS Istituto Neurologico Carlo Besta, Milano

Scientific Presentations:

- Francesco Di Meco, Fondazione IRCCS Istituto Neurologico Carlo Besta, Milano, *Advances in intra-operative imaging, virtual reality and simulation in neurosurgery*
- Diego Mazzatenta, IRCCS Istituto delle Scienze Neurologiche di Bologna, *Endoscopic skull base neurosurgery*
- Vincenzo Esposito, IRCCS Neuromed - Istituto Neurologico Mediterraneo, Pozzilli (IS), *Neurosurgery for epilepsy*
- Paolo Cappabianca, Director of the Neurosurgery School of Università degli Studi di Napoli Federico II, *From the cranial base endoscopic surgery to the technological and molecular innovations: a bridge between neurosurgery and primary research*

Technological Innovations:

- Camelot Biomedical Systems, *Simulation of intra-operative ultrasound for neurosurgeon training*
- Francesco Pavone, European Laboratory for Non-linear Spectroscopy – LENS, Firenze, *Quick microscopy for the detection of electrical activity in excitable cells (innovation by LAT-Light4Tech)*
- Neuron Guard, *Integrated cerebral protection system*
- Newronika, *Transcranial electrical stimulator*
- Ntplast, *Intracranial catheter locking device*
- Promev, *Self-knotting NiTi suture wire in deep surgical field*
- W.I.S.E., *Next-generation implantable electrodes for neuro-modulation and iEEG*
- Esaote, *Esaote Ultrasound neurosurgery technologies*

5.00 pm – NEURO-ONCOLOGY: NEW IMAGING AND TECHNOLOGIES

Chair:

- Vincenzo D'Angelo, IRCCS Casa Sollievo della Sofferenza, San Giovanni Rotondo (FG)

Scientific Presentations:

- Emanuele Nicolai, SDN - Istituto di Ricerca Diagnostica e Nucleare, Napoli, *PET MRI in neurosurgical diagnosis*
- Francesco Tomasello, Antonino Germanò, Università degli Studi di Messina, *Customized treatment of cerebral gliomas: from bench to bedside*
- Leonardo D'Agruma and Vincenzo D'Angelo, IRCCS Casa Sollievo della Sofferenza, San Giovanni Rotondo (FG), *The genetic diagnostics and research applied to neurosurgery at San Giovanni Rotondo*
- Michela Matteoli, IRCCS Humanitas, Milano, *Translational research at Humanitas Neurocenter: functionalized nanoparticles for glioblastoma targeting*
- Filippo Gagliardi, IRCCS San Raffaele, Milano, *Understanding the role of Cancer-Stem-Cell specific genes in glioblastoma multiforme*

Technological Innovations:

- Manuele Casale, Università Campus Bio-Medico di Roma, *Navigation system in endoscopic rhino-sinus and skull base surgery (innovation by MASMEC Biomed)*
- Mectron, *Bone surgery thanks to ultrasonic micro-vibrations – PIEZOSURGERY*
- Telea Electronic Engineering, *Molecular resonance coagulator in neuro-oncology – Vesalius*

6.00 pm – Closing Remarks

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Regenerative Medicine:  
Italian excellences and scope for international cooperation  
11th September, 2.30 - 5:30 pm

2.30 pm – Welcome Addresses:

- Francesco Tomasello, President of the 15th Interim Meeting of WFNS
- Giuseppe Martini, President of the National Technological Cluster of Life Sciences – ALISEI
- Nicoletta Amodio, Innovation and Education Area of Confindustria

Presentations:

- Roberto Di Lauro, Science Attachè, The Italian Embassy in London
- Nina Bauer, Business Development Executive, Cell Therapy Catapult, London
- Pier Maria Fornasari, Scientific Coordinator, Italian Regenerative Medicine Infrastructure
- Susanne Wolbank, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology – Austrian Cluster for Tissue Regeneration
- Roberta Buti, Holostem – Chiesi Farmaceutici
- Marco Fadda, Regenerative Medicine Specialist, Comecer
- Alberto Rainer, Università Campus Bio-Medico di Roma, *Additive manufacturing for tissue engineering applications*

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(continuation)

4.30 pm – TISSUE SUBSTITUTES AND REGENERATIVE MEDICINE

Chairs:

- Pietro Mortini, Director of the Neurosurgery School of IRCCS San Raffaele e Università Vita-Salute San Raffaele
- Vincenzo Denaro, Università Campus Bio-Medico di Roma

Scientific Presentations:

- Pietro Mortini, IRCCS San Raffaele e Università Vita-Salute San Raffaele, Milano, *Collagen scaffold in regeneration of the peripheral and central nervous systems*
- Cesare Gargioli, Università degli Studi di Roma Tor Vergata, *Muscle derived pericytes for artificial skeletal muscle human-like size*
- Vincenzo Denaro, Gianluca Vadalà, Università Campus Bio-Medico di Roma, *New approaches for stem cell mediated intervertebral disc regeneration*

Technological Innovations:

- Finceramica, *Biomimetic, patient specific implants for large cranial reconstructions*
- Maggi, *Dural substitute and Bone tissue*
- MT Ortho, *Trabecular titanium prosthesis created with electron beam melting technology (EBM)*

5.30 pm – Closing Remarks

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