

international symposium on
neurorehabilitation from basics to future

October 15th-16th, 2009. Valencia, Spain.



SCIENTIFIC PROGRAMME

THURSDAY, October 15, 2009

09:00 – 09:30	Registration
09:30 – 10:00	Opening Ceremony and Welcome
10:00 – 11:00	<i>Invited Speakers - Basics</i> Defining the borders of consciousness: recent challenges to conventional wisdom Joseph Giacino JFK Johnson Rehabilitation Institute USA Pharmacologic facilitation of neurobehavioral rehabilitation David Arciniegas University of Colorado USA
11:00 – 11:30	Coffee Break
11:30 – 12:30	<i>Invited Speakers - Plasticity</i> Cortical reorganization Joachim Liepert Kliniken Schmieder Germany Cortical brain stimulation Randolph J. Nudo University of Kansas Medical Center USA
12:30 – 13:30	<i>Invited Speakers - Cognitive Rehabilitation</i> Factors influencing the outcomes of holistic neuropsychological rehabilitation Keith D. Cicerone JFK Johnson Rehabilitation Institute USA Cognitive rehabilitation Barbara Wilson Medical Research Council, Cognition and Brain Sciences Unit United Kingdom

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13:30 – 15:00	Lunch Break
15:00 – 15:30	<p><i>Special Session: Animals as learning instruments</i></p> <p>Curiosity and Spontaneity, mediators of plasticity Miquel Revert Brain Injury Service - NISA Hospitals Fundación Instituto Valenciano de Neurorehabilitación (FIVAN) Spain</p> <p>Assisted therapy with sea lions: The discovery of a new space for meeting and sensory learning in patients with an acquired brain injury Silvia Sebastián Fundación Rio Safari de Elche Spain</p>
15:30 – 16:15	<p><i>Special Session: Cybertherapy</i></p> <p>Motor rehabilitation in virtual environments Carolina Colomer Brain Injury Service - NISA Hospitals Fundación Instituto Valenciano de Neurorehabilitación (FIVAN) Spain</p> <p>Technical aspects during the design of the Ecotrain system Mariano Alcañiz LabHuman Institute, Universidad Politécnica de Valencia Spain</p> <p>EMMA: an adaptive virtual therapy tool for the treatment of adjustment disorders Cristina Botella I3BH/LabPsitec, Universitat Jaume I Spain</p>
16:15 – 16:45	<p><i>Special Session: Why is a quality framework important for a Brain Injury program?</i></p> <p>International Organization for Standardization & The Joint Commission International Rafael Huerga NISA Hospitals Spain</p>

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	<p>CARF perspective Valerie Twomey National Rehabilitation Hospital Ireland</p>
16:45 – 17:15	Coffee Break
17:15 – 17:45	<p><i>Special Session: What can genetics provide to acquired brain injuries?</i></p> <p>Genetics of acquired diseases: the case of traumatic brain injury José M. Morante Molecular Neurobiology Lab/CIBERNED College of Biological Sciences, University of Valencia Spain</p> <p>Genetic influences on outcome following traumatic brain injury: the role of Apolipoprotein-E Enrique Noé Brain Injury Service - NISA Hospitals Fundación Instituto Valenciano de Neurorehabilitación (FIVAN) Spain</p>
17:45 – 19:45	<p><i>Oral Sessions</i></p> <p>Assessment</p> <p>Medicolegal complexities and conflicts in TBI disability evaluation Gita Handa All india Institute of Medical Sciences India</p> <p>Assessment of inappropriate sexual behaviour following neurological impairment: An introduction to the SASBA Louise Birkett-Swan & Caroline Knight Kemsley United Kingdom</p>
	<p>Basics</p> <p>Prognostic Factors of 6 month outcome after SAH, a systematic review M.A. van Kessel University Medical Centre Netherlands</p> <p>Recovery of function and reorganization after brain injury. A theoretical and methodological challenge Hana Mala The Unit for Cognitive Neuroscience, University of Copenhagen Denmark</p>

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	<p>Cognitive Rehabilitation</p> <p>Neuropsychological correlates of decision making in frontal lobe lesion patients Ammu Lukose NIMHANS India</p> <p>The relation between memory self-efficacy and psychosocial factors in chronic stroke patients Laurien Aben Erasmus Medical Center The Netherlands</p>
	<p>Plasticity</p> <p>Effects of sensorimotor training and OEC grafts on behavioral recovery and somatosensory map remodeling after cervical Spinal Cord Injury (SCI) Christian Xerri University of Provence/CNRS France</p> <p>Music-supported therapy induces plasticity in the sensorimotor cortex in chronic stroke patients Antonio Rodríguez-Fornells University of Barcelona and ICREA Spain</p> <p>Indirect versus direct feedback in computer-based prism adaptation therapy Inge Wilms University of Copenhagen Denmark</p>
	<p>Behaviour</p> <p>Social cognition, so what? (1) social-emotional communication impairment after acquired brain injury and experiences of intimacy in couples' relationships Giles Yeates Joanne White-Community Head Injury Service United Kingdom</p>
	<p>Robotics</p> <p>Analysis and visualization of trends in rehabilitation robotics based on patent mining Elisabetta Sani Scuola Superiore Sant'Anna Italy</p> <p>Exoskeletons for upper-limb rehabilitation: updated design criteria derived from clinical evaluations Massimo Bergamasco Scuola Superiore Sant'Anna Italy</p>

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FRIDAY, October 16, 2009

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09:00 – 11:00	Oral Sessions
	<p>Motor Rehabilitation</p> <p>Improving gait after stroke - treadmill or walking; quantity or quality Birgitta Langhammer Oslo University College Norway</p> <p>Quality of movement in stroke rehabilitation Birgitta Langhammer Oslo University College Norway</p> <p>Direction-dependent modulation of early visuomotor processing during robot-mediated arm reaching in man Duncan L. Turner University East London England</p>
	<p>Virtual rehabilitation</p> <p>Effect of virtual avatar characteristics on performance of healthy subjects training tasks Van Hanh Nguyen Le2i - Institut Image France</p> <p>Analysis of multitouch technology for neurorehabilitation Mariano Alcañiz Universidad Politécnica Valencia Spain</p> <p>Pilot study of a teletherapy platform for elderly people (butler project) Cristina Botella Universitat Jaume I Spain</p> <p>The Eldergames Project: a multitouch/multiuser serious game to preserve cognitive functions in elderly people Alcañiz Mariano Universidad Politécnica Valencia Spain</p> <p>Navigation through auditory virtual environments for the rehabilitation of blind children Jaime Sánchez University of Chile Chile</p> <p>Preliminar validation of ecotrain-cognitive: a virtual environment task for safe street crossing in acquired brain injury patients with and without unilateral spatial neglect M^a Dolores Navarro, Hospitales NISA Spain</p>



SCIENTIFIC PROGRAMME

	<p>Neuroimaging</p> <p>Lesional topography of ischemic stroke determines dynamics of cortical sensorimotor activation Vicente González-Felipe Heinrich-Heine-University Düsseldorf Germany</p> <p>A voxel based correlation analysis of fronto-thalamic glucose metabolism in traumatic brain injury: relationship with consciousness and cognition J. García-Panach Servicio de Daño Cerebral de los Hospitales NISA and Universidad Politécnica de Valencia Spain</p> <p>Neuronal plasticity after -assisted locomotion training: a functional MRI evaluation of the motor network in patients with stroke Gracián García-Martí Hospital Quirón and CIBERSAM Mental Health Network Spain</p>
11:00 – 11:30	Coffee Break
11:30 – 12:45	<p>Invited Speakers - Motor Rehabilitation/Robotics</p> <p>Brain-machine interfaces Jose M. Carmena University of California USA</p> <p>Automated locomotion therapy Gery Colombo Hocoma AG Switzerland</p> <p>Neuroplasticity after a spinal cord injury: significance for training Volker Dietz Balgrist University Hospital Switzerland</p>
12:45 – 13:45	<p>Invited Speakers - Behaviour</p> <p>Social behaviour after traumatic brain injury Maarten Milders University of Aberdeen United Kingdom</p>

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	<p>Novel perspectives on the cognitive neuroanatomy of social knowledge and behaviour: implications for neurorehabilitation Roland Zahn University of Manchester United Kingdom</p>
13:45 – 15:15	Lunch Break
15:15 – 16:15	<p><i>Invited Speakers - Virtual Cognitive Rehabilitation</i></p> <p>Virtual rehabilitation: applications for cognitive, emotional and motor interventions Albert “Skip” Rizzo University of Southern California USA</p> <p>Collaborative virtual environments for neurorehabilitation Patrice L. (Tamar) Weiss University of Haifa Israel</p>
16:15 – 17:15	<p><i>Invited Speakers - Virtual Motor Rehabilitation</i></p> <p>Virtual rehabilitation: present and future Greg Burdea Rutgers University USA</p> <p>Modularity for motor coordination Emilio Bizzi Massachusetts Institute of Technology USA</p>
17:15 – 17:45	Coffee Break

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17:45 – 18:45	<p><i>Invited Speakers - Assessment</i></p> <p>The international classification of functioning and health Alarcos Cieza University of Munich Germany</p> <p>Establishing neurological outcome: Spanish and European Schedule Victor Zurriaga University of Barcelona Spain</p>
18:45 – 19:45	<p><i>Invited Speakers - Neuroimaging</i></p> <p>Disorders of consciousness: advances in neuroimaging technology Steven Laureys University of Liège Belgium</p> <p>Neuroimaging and its role in developing interventions Elisabeth Wilde Baylor College of Medicine USA</p>
19:45 – 20:00	<p>Closing Ceremony</p>