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22ND ANNUAL MEETING OF THE
ORGANIZATION FOR HUMAN BRAIN MAPPING

POSTER LISTINGS

June 26-30, 2016

Palexpo Exhibition and Congress Centre | Geneva, Switzerland

4147 **Cortical activity during preparation and execution of compensatory stepping to balance perturbations**
Teodoro Solis-Escalante[1], Joris van der Cruijsen[1], Digna de Kam[2], Joost van Kordelaar[3], Vivian Weerdesteyn[2], Alfred Schouten[1,3]
[1]Delft University of Technology, Delft, Netherlands, [2]Radboud University Medical Center, Nijmegen, Netherlands, [3]University of Twente, Enschede, Netherlands

4148 **Reorganization of cortical motor representations after long term sequential skill learning**
Patrick Beukema[1,2], Timothy Verstynen[3,2]
[1]University of Pittsburgh, Pittsburgh, PA, [2]Center for the Neural Basis of Cognition, Pittsburgh, PA, [3]Carnegie Mellon University, Pittsburgh, PA

4149 **Error-detection is followed by reversal of information flow between ACC and Anterior Insula**
Julien Bastin[1], Pierre Deman[1], Olivier David[2], Marcela Perrone-Bertolotti[3], Philippe Kahane[4], Jean-Philippe Lachaux[5], Karim Jerbi[6]
[1]Grenoble Institute for Neuroscience, Grenoble, France, [2]Grenoble Institut des Neurosciences, Grenoble, Switzerland, [3]CNRS, LPNC UMR 5105, F-38040, Grenoble, France, Grenoble, France, [4]Grenoble Institute of Neuroscience, Inserm, Grenoble, France, [5]Lyon Neuroscience Research Center, INSERM U1028, CNRS UMR5292, Brain Dynamics and Cognition Team, Ly, Lyon, France, [6]Université de Montréal, Montreal, Quebec

MOTOR BEHAVIOR

Motor Planning and Execution

4150 **Is Poor Motor Competence Associated with Reduced White Matter Organization in Obese Children?**
Mireille J.C.M. Augustijn[1,2], Frederik J.A. Deconinck[1], Eva D'Hondt[3], Matthieu Lenoir[1], Karen Caeyenberghs[4]
[1]Department of Movement and Sports Sciences, Ghent University, Ghent, Belgium, [2]Research Foundation Flanders (FWO), Brussels, Belgium, [3]Faculty of Physical Education and Physiotherapy, Vrije Universiteit Brussel, Brussels, Belgium, [4]School of Psychology, Australian Catholic University, Melbourne, Australia

4151 **Oscillatory coupling during response inhibition in health and frontotemporal dementia**
Laura Hughes[1], James Rowe[2]
[1]University of Cambridge, Cambridge, United Kingdom, [2]Dept. of Clin. Neurosciences; Medical Research Council Cognition and Brain Sciences Unit, Cambridge, United Kingdom

4152 **EEG oscillations are modulated in different behavior-related networks during rhythmic movements**
Martin Seeber[1], Reinhold Scherer[1], Gernot Müller-Putz[1]
[1]Graz University of Technology, Graz, Austria

4153 **Representations of action affordances induced by an object's size and orientation: An fMRI study**
Dimitrios Kourtis[1,2], Pieter Vandemaele[2], Guy Vingerhoets[2]
[1]Central European University, Budapest, Hungary, [2]Ghent University, Ghent, Belgium

4154 **Imagine that! Examining the contribution of the primary motor cortices to MI-based skill acquisition**
Sarah Kraeutner[1], Tony Ingram[2], Shaun Boe[1]
[1]Dalhousie University, halifax, Canada, [2]Dalhousie University, Halifax, Canada

4155 **The Neurophysiology of Interference of Grasping Movements in Separate Working Memory Processes**
Rumeysa Gunduz[1,2], Thomas Schack[1,2,3], Dirk Koester[1,2]
[1]Bielefeld University, Center of Excellence-Cognitive Interaction Technology, Bielefeld, Germany, [2]Bielefeld University, Faculty of Psychology and Sports Science, Bielefeld, [3]Research Institute for Cognition and Robotics, Bielefeld

4156 **Optimal delineation of motor somatotopy in cortical and subcortical areas using fMRI**
Renaud Marquis[1], Sandrine Muller[1], Sara Lorio[1], Borja Rodriguez-Herreros[2], Anne Ruef[3], Lester Melie-Garcia[3], Ferath Kherif[4], Antoine Lutti[5], Bogdan Draganski[4]
[1]LREN - DNC - CHUV, UNIL, Lausanne, Switzerland, [2]LREN - DNC - CHUV, Lausanne, Switzerland, [3]Laboratoire de Recherche en Neuroimagerie, DNC, CHUV, Lausanne, Switzerland, [4]Laboratoire de recherche en neuroimagerie (LREN), Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland, [5]Laboratoire de Recherche en Neuroimagerie, Lausanne University Hospital, Lausanne, Switzerland

4157 **The Neural Correlates of the Contextual Interference Effect in a Bimanual Task: A Pilot Study**
Lisa Pauwels[1], Sima Chalavi[1], Stefan Sunaert[1], Stephan Swinnen[1]
[1]KU Leuven, Leuven, Belgium

4158 **Haptically guided grasping of common tools: a functional magnetic resonance imaging (fMRI) study**
Piotr Styrkowiec[1,2], Łukasz Przybylski[2], Magdalena Reuter[2], Agnieszka Nowik[2], Gregory Kroliczak[2]
[1]Institute of Psychology, University of Wroclaw, Wroclaw, Poland, [2]Institute of Psychology, Adam Mickiewicz University in Poznan, Poznan, Poland

4159 **Atypical motor preparation in adults who stutter: a MEG study of finger movement**
Oren Civier[1], Paul Sowman[2,3], Danit Lavenda[1], Andrew Etchell[2,3], Ofer Amir[4], Ruth Ezrati-Vinacour[4], Yuval Harpaz[1], Vered Kronfeld-Duenias[1], Tamar Flash[5], Michal Ben-Shachar[1,6]
[1]The Gonda Multidisciplinary Brain Research Center, Bar-Ilan University, Ramat-Gan, Israel, [2]ARC Centre of Excellence in Cognition and its Disorders, Macquarie University, Sydney, Australia, [3]Department of Cognitive Science, Macquarie University, Sydney, Australia, [4]The Department of Communication Disorders, Sackler Faculty of Medicine, Tel-Aviv University, Tel Aviv, Israel, [5]Department of Computer Science and Applied Mathematics, Weizmann Institute of Science, Rehovot, Israel, [6]The Department of English Literature and Linguistics, Bar-Ilan University, Ramat-Gan, Israel

4160 **Mapping Spinal Pathways using Functional Connectivity Analysis of Surface EMG**
Tjeerd Boonstra[1], Jennifer Kerkman[2], Andreas Daffertshofer[3], Michael Breakspear[4]
[1]The University of New South Wales, Sydney, Australia, [2]VU University, Amsterdam, Netherlands, [3]VU University Amsterdam, Amsterdam, Netherlands, [4]QIMR Berghofer Medical Research Institute, Brisbane, Australia

4161 **A novel strategy for the assessment of the topographical orderliness of cortical representations**
Andrea Leo[1], Giacomo Handjaras[1], Pietro Pietrini[2], Emiliano Ricciardi[3]
[1]University of Pisa, Pisa, Italy, [2]Scuola IMT Alti Studi, Lucca, Italy, [3]University of Pisa, Pisa, PI