Poster Session I — Monday, October 3

1 : Analysis Toolbox

[Mo-P001]

Rhythmic entrainment source separation: Optimizing spectral and temporal analyses of narrow-band neural responses to rhythmic sensory stimulation

Michael X Cohen[1] and Rasa Gulbinaite[2]
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[Mo-P002]

MEG and EEG data processing using MNE-Python

Alexandre Gramfort[1]*, Denis Engemann[2], Eric Larson[3], Mainak Jas[1], Teon Brooks[4], Jaakko Leppakangas[1], Marijn van Vliet[5], Christian Brodbeck[4], Mark Wronkiewicz[3], Daniel Strohmeier[6], Jona Sassenhagen[7], Jean Remi King[4], Chris Holdgraf[8], Romain Trachel[9], Yousra Bekhti[1], Federico Raimondo[10], Lauri Parkkonen[11], and Matti Hamalainen[12]
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[Mo-P003]

Welcome to NeuroPype: A python-based pipeline for advanced MEG and EEG connectivity analyses

David Meunier[1], Annalisa Pascarella[2]*, Daphne Bertrand-Dubois[3], Lajnef Tarek[3], Etienne Combrisson[1,3,4], Dmitrii Altukhov[5], and Karim Jerbi[3]
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[Mo-P004]

The HMM-MAR toolbox for the detection of quasi-stationary states of brain activity

Diego Vidaurre*, Andrew Quinn, and Mark Woolrich
Oxford Centre for Human Brain Activity, UK

[Mo-P005]

COMETS2: A MATLAB toolbox for numerical simulation of electric fields generated by transcranial direct current stimulation

Chany Lee, Sangjun Lee, and Chang-Hwan Im*
Hanyang Univ., Korea

[Mo-P006]

NeuroCUDE: An easy-to-use python software for neuronal current dipoles estimation from MEG/EEG data

Sara Sommariva*, Gianvittorio Luria, and Alberto Sorrentino
Univ. of Genova, Italy

[Mo-P007]

Advances in online MEG/EEG data processing with MNE-CPP

Lorenz Esch[1,2]*, Christoph Dinh[1,2]*, Limin Sun[2], Daniel Strohmeier[1], Daniel Baumgarten[1,3], Yoshio Okada[2], Matti Hämäläinen[2], and Jens Haueisen[1,4]
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[Mo-P008]

MNE-HCP software for processing the human connectome project MEG data in python

Denis Engemann[1]*, Jona Sassenhagen[2], Mainak Jas[3], Eric Larson[4], Lauri Parkkonen[5], Matti Hämäläinen[6], Danilo Bzdok[7], Alexandre Gramfort[3], and Virginie van Wassenhove[1]
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[Mo-P009]

Comparison between Hosaka-Cohen transformation and 2D source imaging in MCG study

Yuki Hasegawa[1]*, Kensuke Sekihara[1]*, Yasuhiro Shirai[1], Taishi Watanabe[1,2], Yoshiaki Adachi[3], Kenzo Hirao[1], and Shigenori Kawabata[1]
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[Mo-P010]

DSP toolbox for real time MEG data analysis in source space

Alexander Moiseev, Nicholas Peatfield, Sam Doesburg, Teresa P. L. Cheung, and Urs Ribary
Simon Fraser Univ., Canada

[Mo-P011]

An MEG extension to BIDS: Brain imaging data structure - a solution to organize, describe and share neuroimaging data

Guiomar Niso[1]*, Jeremy Moreau[1], Elizabeth Bock[1], Francois Tadel[1], Robert Oostenveld[2], Jan-Mathijs Schoffelen[2], Alexandre Gramfort[3], Krzysztof J. Gorgolewski[4], and Sylvain Baillet[1]
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[Mo-P012]

MEG pipelines for the analysis of resting state data in the Human Connectome Project (HCP)

Francesco Di Pompeo[1], Georgios Michalareas[2], Laura Marzetti[1], Jan Mathijs Schoffelen[3], Linda J. Larson-Prior[4], Fred W. Prior[4], Matt Kelsey[5], Tracy Nolan[4], Francesco de Pasquale[1,6], Abbas Babajani-Feremi[7], Pascal Fries[2], Vittorio Pizzella[1], Gian Luca Romani[1], Maurizio Corbetta[8,9], Abraham Z. Snyder[9], Robert Oostenveld[3], and Stefania Della Penna[1]
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2 : Artifacts detection & correction

[Mo-P013]

Automated rejection and repair of bad trials in MEG/EEG

Mainak Jas[1]*, Denis Engemann[2,3,4], Federico Raimondo[5], Yousra Bekhti[1], and Alexandre Gramfort[1]
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[Mo-P014]

Is it really the hippocampus?

Sofie Meyer[1]*, Daniel Bush[1], James Bisby[1], Aiden Horner[1,2], Neil Burgess[1], and Gareth Barnes[1]
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[Mo-P015]

Extended signal space separation for improved interference suppression

Liisa Helle[1,2]*, Jukka Nenonen[2], Lauri Parkkonen[1,2], and Samu Taulu[3]
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[Mo-P016]

Time-domain signal subspace

Kensuke Sekihara[1,2]* and Srikantan Nagarajan[3]*
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[Mo-P017]

Determining the importance of compensating for head movements during MEG acquisition across different age groups

Eric Larson and Samu Taulu*
Univ. of Washington, USA

[Mo-P018]

Reducing noise in electromagnetic sensor arrays using oversampled temporal projection

Eric Larson and Samu Taulu*
Univ. of Washington, USA

[Mo-P019]

A fingerprint method for the automatic removal of physiological artefacts from EEG recordings

Lorenzo Schinaia[1,2], Gabriella Tamburro[1], Patrique Fiedler[2,3], Jonas Chatel-Goldman[1], Jens Haueisen[3,4], and Silvia Comani[1,2]*
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[Mo-P020]

Detection and reduction of mechanical vibration-induced interference in MEG

Zhaowei Liu[1], Wentian Cao[1], Petteri Laine[2], Veikko Jousmäki[3], Jukka Nenonen[2], and Jia-Hong Gao[1]
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3 : Attention, Consciousness and Executive Function

[Mo-P021]

Characterizing brain vital sign responses with magneto- and electro- encephalography

Sujoy Ghosh Hajra[1], Careesa Liu[1], Ryan D'Arcy[1,2], Shaun Fickling[1], Xiaowei Song[1,2], and Teresa Cheung[1,2]
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[Mo-P022]

Blink-related oscillations as indicators of awareness: Initial characterization using MEG
Careesa Liu[1]*, Sujoy Ghosh Hajra[1], Teresa Cheung[1,2], Xiaowei Song[1,2], and Ryan D'Arcy[1,2]
[1]Simon Fraser Univ., Canada, [2]Fraser Health Authority, Canada

[Mo-P023]

Novel sounds modulate oscillatory activity in visual cortex - the neural basis of behavioral distraction?
Annekathrin Weise[1]*, Thomas Hartmann[2], Erich Schröger[1], Nathan Weisz[2], and Philipp Ruhnau[2,3]
[1]Universität Leipzig, Germany, [2]CCNS Universität Salzburg, Austria, [3]Max-Planck-Institut für Kognitions- und Neurowissenschaften, Germany

[Mo-P024]

Using M-EEG to investigate pupillometry as a biomarker
Eric Larson and Adrian K. C. Lee*
Univ. of Washington, USA

[Mo-P025]

Switching between temporal and spatial attention in older adults: An investigation into age-related changes in underlying neural mechanisms
Eleanor Callaghan*, Carol Holland, and Klaus Kessler*
Aston Univ., UK

[Mo-P026]

Spatiotemporal expectations in complex sequences
Simone (Gerdien) Heideman*, Freek van Ede, and Anna (Christina) Nobre
Univ. of Oxford, UK

[Mo-P027]

Selectivity of tactile attention: an MEG study
Tetsuo Kida*, Emi Tanaka, and Ryusuke Kakigi
Nat'l Inst. for Physiological Sciences, Japan

[Mo-P028]

Delayed middle latency auditory evoked response during propofol-induced loss of consciousness
Seung-Hyun Jin[1]*, Essie Pae[2], and Chun Kee Chung[1,3]
[1]Seoul Nat'l Univ., Korea, [2]McGill Univ., Canada, [3]Seoul Nat'l Univ. Hospital, Korea

[Mo-P029]

See the touch of the sound: Common signatures of conscious access across sensory modalities
Gaëtan Sanchez[1]*, Julia Frey[1], Marco Fusca[2], and Nathan Weisz[1]
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[Mo-P030]

Temporal and spatial differences in the theory of mind network in children with and without autism spectrum disorder

Veronica Yuk[1,2]*, Charline Urbain[1,3], and Margot J. Taylor[1,2]
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[Mo-P031]

Inhibitory alpha activity mediates rhythmic sampling of visual objects

Jianrong Jia, Fang Fang, and Huan Luo*
Peking Univ., China

[Mo-P032]

Modulation of visual gamma oscillations by selective spatial attention

Lorenzo Magazzini* and Krish Singh
Cardiff Univ., UK

[Mo-P033]

Modulations of alpha power during encoding mediate posterior alpha activity during working memory retention

Thomas Kustermann[1], Tzvetan Popov[1]*, Gregory A. Miller[2], and Brigitte Rockstroh[1]
[1]Univ. of Konstanz, Germany, [2]Univ. of California, Los Angeles, USA

[Mo-P034]

Alpha band functional connectivity supports successful active inhibition associated with selective attention

Antea D'Andrea[1], Federico Chella[1], Tom R. Marshall[2], Vittorio Pizzella[1], Gian Luca Romani[1], Ole Jensen[3], and Laura Marzetti[1]*
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[Mo-P035]

Integration across different spatial reference frames

Evelyn Muschter*, Elisa Leonardelli, Nicholas Peatfield, and David Melcher
CIMeC, Center for Mind, Italy

[Mo-P036]

The Theory of Mind network: brain connectivity patterns underlying ToM processing in adults

Simeon M Wong[1]*, Sarah Mossad[1,2], and Margot J Taylor[1,2]*
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[Mo-P037]

Electromagnetic functional connectivity underlying anaesthetic-induced reductions in consciousness

Levin Kuhlmann[1]*, Andria Pelentritou[1], Will Woods[1], John Cormack[2], Sarah Kondogiannis[2], Jamie Sleigh[3], and David Liley[1]
[1]Swinburne Univ. of Tech., Australia, [2]St. Vincent`s Hospital Melbourne, Australia, [3]Univ. of Auckland, New Zealand

[Mo-P038]

P1 and traveling alpha waves in the MEG

Elie El Rassi*, Wolfgang Klimesch*, Walter Gruber, and Nathan Weisz
Universität Salzburg, Austria

[Mo-P039] Withdrawn

[Mo-P040]

When the brain changes its mind: oscillatory dynamics of conflict processing and response switching in a flanker task

Lauren Beaton[1], Sheeva Azma[2], and Ksenija Marinkovic[1,3]*
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[Mo-P041]

Transient modulation of neural responses to heartbeats reflects bodily self-consciousness

Hyeong-dong Park, Fosco Bernasconi, Javier Bello-Ruiz, Christian Pfeiffer, Roy Salomon, and Olaf Blanke*
EPFL, Switzerland

[Mo-P042]

The spatio-temporal dynamics of 'Theory of Mind' in school age children born very preterm

Sarah Mossad[1,2,3]*, Mary Lou Smith[1,2,3], and Margot Taylor[1,2,3]*
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[Mo-P043]

MEG correlates of internalization of social influence

Aleksei Gorin[1]*, Ivan Zubarev[2], Anna Shestakova[1], Alexey Ossadtchi[1,3], and Vasily Klucharev[1]
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[Mo-P044]

Neural and pupil diameter effects of mental fatigue

Yalda Mohsenzadeh[1], Konstantinos Michmizos[2], Dimitris Metaxas[2], and Dimitrios Pantazis[1]
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[Mo-P045]

Spectro-temporal and functional connectivity dynamics of visuospatial attention

Alex I. Wiesman, Elizabeth Heinrichs-Graham, Amy L. Proskovec, Timothy J. McDermott, and Tony W. Wilson*
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[Mo-P046]

Temporal expectation biases duration judgment

Tadeusz Kononowicz[1,2] and Virginie van Wassenhove[1,2]*
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[Mo-P047]

Stimulus driven and mechanistic neurodynamics of inhibitory control

Elie El Rassi[1], Nicholas Peatfield[2]*, and Nathan Weisz[1,3,4]
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[Mo-P048]

Alpha-band phase synchrony connects frontal, parietal and visual cortices during anticipatory visuospatial attention

Muriel Lobier*, J. Matias Palva, and Satu Palva
Univ. of Helsinki, Finland

[Mo-P049]

Attentional modulation of response inhibition in a Go/No-Go task: spatio-temporal oscillatory dynamics in an anatomically constrained MEG model

Joseph P. Happer[1]*, Laura C. Wagner[1], Lauren E. Beaton[1], Lee A. Holcomb[1], and Ksenija Marinkovic[1,2]
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[Mo-P050]

Oscillatory dynamics in the dorsal and ventral attention systems during the reorienting of attention

Amy L. Proskovec[1,2], Elizabeth Heinrichs-Graham[2], Timothy J. McDermott[2], and Tony W. Wilson[1,2]*
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[Mo-P051]

Cortical oscillations accompanying cognitive control in a response switching task using incidental learning

Silvia Isabella[1], Charline Urbain[1], J. Allan Cheyne[2], and Douglas Cheyne[1]
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[Mo-P052]

Comparison study of Attention Network Test between healthy control and schizophrenia using Magnetoencephalography

Ji Eun Kim[1,2]*, Min Young Kim[1], Seung Jun Kim[3], Ji Sun Yang[3], Hyukchan Kwon[1], Ki Woong Kim[1,2]*, and Bakul Gohel[1]
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[Mo-P053]

Modulation of induced positive mood on inhibitory control: an MEG study

Yu-Mei Chang[1]*, Chuan-Tao Wang[1,2], Jia-Ren Chang[3], Chiu-Jung Huang[2], Yong-Sheng Chen[3], and Li-Fen Chen [1,2]*
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[Mo-P054]

Changes in multifractal brain dynamics between consciousness and anesthetic-induced unconsciousness

Thomas Thiery[1]*, Tarek Lajnef[1,2], Etienne Combrisson[1,3,4], Younes Zerouali[5], Georges A. Mashour[6], Stefanie Blain-Moraes[7], and Karim Jerbi[1]*
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[Mo-P055]

Neural correlates of mental flexibility in typically developing children

Alexandra Mogadam[1,2]*, Anne Keller[2], Amanda Robertson[2], Margot Taylor[1,2,3], Jason Lerch[1,2,3], Evdokia Anagnostou[1,2,3,4], and Elizabeth Pang[1,2,3]

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[Mo-P056]

Greater desynchronization of upper alpha during improvisational music performance planning

Jared Boasen[1]*, Yuya Takeshita[1]*, Jousmäki Veikko[2], and Koichi Yokosawa[1]

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4 : Auditory Processing

[Mo-P057]

An MEG investigation of the brain dynamics mediating focused-attention and open-monitoring meditation

Daphné Bertrand-Dubois[1]*, David Meunier[2], Annalisa Pascarella[3], Tarek Lajnef[1], Vittorio Pizzella[4], Laura Marzetti[4], and Karim Jerbi[1]

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[Mo-P058]

Auditory evoked fields elicited by frequency-modulated sweeps

Hidehiko Okamoto[1,2]* and Ryusuke Kakigi[1,2]

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[Mo-P059]

Proof that syllables are the basic unit of aural comprehension

Minoru Hayashi*

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[Mo-P060]

Prestimulus pathways of frontal control during sensory gating

David Schubring[1]*, Brigitte Rockstroh[1], Gregory A. Miller[2], and Tzvetan Popov[1]

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[Mo-P061]

Bistable perception in auditory streaming is paralleled by altered evoked brain rhythms and connectivity patterns along the ventral stream

Damiano Azzalini[1], Philipp Ruhnau[2], Sabine Leske[3], and Nathan Weisz[2,4]*

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[Mo-P062]

Audio-visual processing of Chinese characters and speech sounds

Weiyong Xu, Orsolya Kolozsvari, Praghajieeth Santhana Gopalan, Paavo Leppänen, and Jarmo Hämäläinen

Univ. of Jyväskylä, Finland

[Mo-P063]

Fronto-temporal connectivity shows whether 'Twinkle Twinkle Little Star' song is in the music or not
Chan Hee Kim[1], Chun Kee Chung[1,2]*, Jaeho Seol[3], and Seung-Hyun Jin[3]
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[Mo-P064]

Connectivity from the left to the right hemisphere in frontotemporal areas processes independently syntactic violation and task complexity in harmonies
Chan Hee Kim[1], Chun Kee Chung [1,2]*, Seung-Hyun Jin[3], and June Sic Kim[1]
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[Mo-P065]

Inter-subject correlation during music listening reflects musical expertise
Anja Thiede[1,2]*, Emma Suppanen[1], Elvira Brattico[1,3], and Lauri Parkkonen[2]
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[Mo-P066]

Appearance of the 8-10 Hz temporal-lobe tau rhythm during drowsiness
Yui Murakami[1,2], Hiroaki Sato[2], Kaori Tamada[2], Elina Pihko[3], Riitta Hari[3], and Koichi Yokosawa[2]
[1]Hokkaido Bunkyo Univ., Japan, [2]Hokkaido Univ., Japan, [3]Aalto Univ., Finland

[Mo-P067]

Subject-specific dynamics of auditory cortex determined through MEG measurements and computational modelling
Aida Hajizadeh*, Patrick J.C. May, Reinhard König, and Artur Matysiak
Leibniz Inst. for Neurobiology Magdeburg, Germany

[Mo-P068]

The cerebellum is involved in learning delayed action effects: A TMS-MEG study
Liyu Cao*, Domenica Veniero, Gregor Thut, and Joachim Gross
Univ. of Glasgow, UK

[Mo-P069]

Auditory delta-entrainment interacts with multiple fronto-parietal networks
Anne Keitel*, Joachim Gross, and Christoph Kayser*
Univ. of Glasgow, UK

[Mo-P070]

Prediction of optimal auditory signals for visually-challenged people using auditory evoked magnetic responses
Yoshiharu Soeta and Seiji Nakagawa
AIST, Japan

[Mo-P071]

Inter-regional phase-amplitude coupling between inferior frontal gyrus and auditory cortex predicts near threshold pitch discrimination performance

Soheila Samiee[1]*, Esther Florin[2], Dominique Vuvan[3], Philippe Albouy[1], Isabelle Peretz[3], and Sylvain Baillet[1]
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[Mo-P072]

Investigation of perception of ambiguous melodies using ASSR's in MEG

Ryosuke Yuhara* and Iku Nemoto*
Tokyo Denki Univ., Japan

[Mo-P073]

A simultaneous MEG/EEG study for affective words with affective voice tone

Moonyoung Kwon[1], Hohyun Cho[1], Sangtae Ahn[1], Kiwoong Kim[2,3], and Sung Chan Jun[1]*
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[Mo-P074]

Using the auditory steady state response to examine atypical oscillatory synchrony in individuals with down syndrome

Tahira Tejpar[1], Angela Wen[2], Careesa C. Liu[1], Vasily Vakorin[1], Daniel Bosnyak[3], Diana Harasym[4], Ryan C. N. D'Arcy[1,5], Larry E. Roberts[3], Sam M. Doesburg[1,6], and Teresa P. L. Cheung[1,5]
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[Mo-P075]

Being first matters: representational similarity analysis on ERP scalp maps reveals separate networks for audiovisual temporal integration depending on the leading sense

Roberto Cecere[1]*, Joachim Gross[1], Ashleigh Willis[1,2], and Gregor Thut[1]*
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[Mo-P076]

Effects of phonetic context on categorical perception of stop-consonants investigated with magnetoencephalography

Christian Altmann*, Daiki Yamasaki, Ryuhei Ueda, Masao Matsuhashi, Tatsuya Mima, and Hidenao Fukuyama
Kyoto Univ., Japan

[Mo-P077]

Low frequency oscillations mediate de-multiplexing and encoding mechanisms during speech pre-processing

Mikel Lizarazu[1]*, Maire Lallier[1], Mathieu Bourguignon[1], Manuel Carreiras[1,2], and Nicola Molinaro[1,2]
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[Mo-P078]

Neural entrainment to speech edges in dyslexia: an MEG study

Asier Zarraga[1], Mikel Lizarazu[1], Marie Lallier[1], Mathieu Bourguignon[1], Manuel Carreiras[1,2], and Nicola Molinaro[1,2]
[1]Basque Center on Cognition, Brain & Language., Spain, [2]Basque Foundation for Science, Spain

[Mo-P079]

Mechanisms of bone-conducted ultrasonic perception in the profoundly hearing-impaired assessed by MEG and EEG

Seiji Nakagawa[1,2]*
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[Mo-P080]

Auditory steady-state response modulated by stimuli inducing octave illusion

Soitiro Shokei*, Hiroki Kurasaki, Soitiro Shokei, and Shinya Kuriki
Tokyo Denki Univ., Japan

[Mo-P081]

Evaluation of auditory impressions of HVAC sound based on time-frequency representation of magnetic cortical activity

Hajime Yano[1,2]*, Tetsuya Takiguchi[1]*, Yasuo Ariki[1], Takuya Hotehama[2], Masaru Kamiya[3], and Seiji Nakagawa[2,4]
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[Mo-P082]

Spatiotemporal characteristics of auditory activation in children with typical and atypical (SLI) language development

Sam van Bijnen[1]*, Päivi Helenius[2], and Tiina Parviainen[1]*
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[Mo-P083]

Cross-sensory recalibration of audiovisual spatial information during long-term adaptation to left-right reversed audition

Atsushi Aoyama[1]* and Shinya Kuriki[2]
[1]Keio Univ., Japan, [2]Tokyo Denki Univ., Japan

[Mo-P084]

Lateralization and attentional modulation for auditory processing of language in children with specific language impairmen

Doris Hernandez[1]*, Terhi Tulonen[1], Päivi Helenius[2], Riita Salmelin[3], and Tiina Parviainen[1]
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[Mo-P085]

Differentiating mispredicted-predicted and unpredicted-predicted transitions in human auditory cortex using magnetoencephalography (MEG)

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[Mo-P086]

Neural encoding of vocal emotion in multivariate spatiotemporal MEG patterns

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5 : Computational Neuroscience

[Mo-P087]

Neuro-computational modelling of lexico-syntactic representation and integration during speech comprehension
Hun S. Choi*, Billi Randall, Barry J. Devereux, and Lorraine K. Tyler
Univ. of Cambridge, UK

[Mo-P088]

Differential profile of individualized cortical-subcortical grey matter connectome in Schizophrenia
Je-Yeon Yun*
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[Mo-P089]

Metastability and transient dynamics in a large-scale biophysical network
Romesh Abeysuriya[1]*, Jonathan Hadida[1,2], Saad Jbabdi[2], Stamatios Sotiropoulos[2], and Mark Woolrich[1,2]
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[Mo-P090]

Feature analyses of brain magnetic fields associated with discrimination of imagined speech using complex wavelet transformation
Shihomi Uzawa[1,2]*, Tetsuya Takiguchi[1], Yasuo Ariki[1], and Seiji Nakagawa[2,3]
[1]Kobe Univ., Japan, [2]AIST, Japan, [3]Chiba Univ., Japan

[Mo-P091]

Subthreshold fluctuations under parametrically varying levels of uncertainty - an MEG study
Bianca Trovò[1]* and Aaron Schurger[1,2]*
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[Mo-P092]

A computational model of transcranial magnetic stimulation – activation of layer 5 pyramidal neurons
Hyeon Seo and Sung Chan Jun*
GIST, Korea

[Mo-P093]

Study on the brain functional network core following magnetic stimulation of WaiGuan(SJ5) acupoint based on Electroencephalogram
Ling-Di Fu*, Gui-Zhi Xu, Hong-Li Yu, Miao-Miao Guo, and Ning Yin
Hebei Univ. of Tech., China

6 : BCI / BMI and Decoding

[Mo-P094]

EEG classification for motor imagery BCI using hierarchical features extraction
Muhammad Naveed Iqbal Qureshi and Boreom Lee*
GIST, Korea

[Mo-P095]

Neural mechanism of the motor system during reaching movements
Hong Gi Yeom[1], June Sic Kim[2], and Chun Kee Chung[1,2,3]*
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[Mo-P096]

Tracking emotional face perception in space and time using MEG-based classification
Diana Dima*, Gavin Perry, Jiaxiang Zhang, and Krish Singh
Cardiff Univ., UK

[Mo-P097]

Decoding MEG using classification on Riemannian Manifolds
Yunpeng Liu[1]*, Michael Kirby[2], and Zelin Shi[1]
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[Mo-P098]

Intra- and inter-subject classification of motor imagery MEG signals
Hanna Halme* and Lauri Parkkonen*
Aalto Univ., Finland

[Mo-P099]

Emotional states decoding during watching movies from multimodal neurophysiological signals
Jeong Woo Choi, Hyun Kim, Jong Doo Choi, and Kyung Hwan Kim*
Yonsei Univ., Wonju, Korea

[Mo-P100]

A Gaussian Mixture Model -based method for extracting feedback-related MEG responses for brain–computer interfaces
Ivan Zubarev* and Lauri Parkkonen
Aalto Univ., Finland

[Mo-P101]

Optimization of non-linear permutation entropy features for EEG-based biometrics
Jae-hwan Kang and Sung-Phil Kim*
UNIST, Korea

[Mo-P102]

Evaluating the performance of electrocorticographic microelectrodes for syllable decoding
Miaomiao Guo[1]*, Guizhi Xu[1]*, and Griffin Milsap[2]
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7 : Brain Development

[Mo-P103]

Neural oscillations in the temporal pole for an audio-visual speech matching task reflect late neuronal maturation in adolescence

Takefumi Ohki[1,2]*, Atsuko Gunji[2,3]*, Yuichi Takei[4], Ryusuke Sakuma[2,5], Hidetoshi Takahashi[2], Yuu Kaneko[2], Masumi Inagaki[2], Takashi Hanakawa[2], and Kazuo Hiraki[1]

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[Mo-P104]

Impact of very preterm birth on the structural and functional neural correlates of emotion regulation at school age

Charline Urbain[1,2], Julie Sato[1], Emma G. Duerden[1], and Margot J. Taylor[1,3]*

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[Mo-P105]

Alterations in resting MEG spectral power in infants prenatally exposed to alcohol

Julia M Stephen[1]*, Lucinda Flynn[1], Christopher Clifford[1], Danielle Kabella[1], Sandra Cano[2], Laura Garrison[2], Jean Lowe[2], and Ludmila Bakhireva[2]

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[Mo-P106]

Increased beta-band connectivity during angry face processing in children with autism

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[Mo-P107]

Quantification of language neural network in the developing brain with neuromagnetic Si

Jing Xiang[1], Samantha Dinga[1], Di Wu[2], Shuyang Huang[2], Xiaoshan Wang[2], Yue Hu[3], Lu Meng[4], Fawen Zhang[5], and Kimberly Leiken[1]

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[Mo-P108]

Receptive language mapping using the N400m in children with and without epilepsy

Shu Hui Yau, Elaine Foley, Stefano Seri, Caroline Witton, and Joel Talcott

Aston Univ., UK

[Mo-P109]

Cerebellar GABA concentration and intrinsic connectivity network synchrony in neurodevelopmental disorders

Benjamin Dunkley[1]*, Simeon Wong[1], Wayne Lee[1], Jamie Near[2], Paul Arnold[3], Russell Schachar[1], Jason Lerch[4], Evdokia Anagnostou[5], and Elizabeth Pang[1]

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[Mo-P110]

Development of the semantic N400m activation and its link with behavioural skills
Tiina Parviainen, Krista Lehtomaki, Emilia Varmavuori, and Aino Löppönen
Univ. of Jyväskylä, Finland

8 : Language

[Mo-P111]

Greater MEG response accompanies faster and effortless retrieval of an intended word in verb generation task
Anastasia Nikolaeva[1], Anna Butorina[1], Andrey Prokofiev[1], Anna Pavlova[1,2], Denis Bondarev[1,3], and Tatiana Stroganova[1]
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[Mo-P112]

Discrimination of word perception and imagination in a single-trial EEG basis using hierarchical extreme learning machine
Jongin Kim and Boreom Lee *
GIST, Korea

[Mo-P113]

Source-level EEG analysis for vowel speech perception using sLORETA
Hyeong-Jun Park, Beomjun Min, and Boreom Lee*
GIST, Korea

[Mo-P114]

Predictive brain processing of listened audio narrative: MEG evidence
Miika Koskinen[1,2], Mikko Kurimo[2], Aapo Hyvärinen[1], and Riitta Hari[2]
[1]Univ. of Helsinki, Finland, [2]Aalto Univ., Finland

[Mo-P115]

Gestural enhancement of degraded speech comprehension engages the language network, motor and visual cortex as reflected by a decrease in the alpha and beta band
Linda Drijvers[1], Asli Ozyurek[2], and Ole Jensen[1]
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[Mo-P116]

Oscillatory signatures of hand and foot verb-movement congruency in a double dissociation paradigm
Anne Klepp*, Hanneke van Dijk, Valentina Niccolai, Alfons Schnitzler, and Katja Biermann-Ruben
Heinrich Heine Univ. Düsseldorf, Germany

[Mo-P117]

Phonemic properties of expected words modulate pre-stimulus alpha oscillations
Irene Fernandez Monsalve[1]* and Nicola Molinaro[1,2]
[1]Basque Center on Cognition, Brain & Language., Spain, [2]Basque Foundation for Science, Spain

[Mo-P118]

Large-scale functional networks underlying semantic vs. perceptual processing of written words
Mia Liljeström*, Jan Kujala, and Riitta Salmelin
Aalto Univ., Finland

[Mo-P119]

An MEG investigation of network synchronisation during expressive language processing in paediatric epilepsy
Elaine Foley[1]*, Paul Furlong[1], Arjan Hillebrand[2], and Stefano Seri[1]
[1]Aston Univ., UK, [2]VU Univ. Medical Center Amsterdam, The Netherlands

[Mo-P120]

Two opposing mechanisms underlying the audio-visual facilitation of speech tracking in prefrontal regions
Bruno L Giordano, Robin A. A. Ince, Joachim Gross, and Christoph Kayser
Univ. of Glasgow, UK

[Mo-P121]

Early occipital dissociation betwen numbers and letters: A magnetoencephalography study
Sara Aurtenetxe[1,2], Nicola Molinaro[2,3], Doug Davidson[2], and Manuel Carreiras[2,3]
[1]Donders Center for Cognitive Neuroimaging, The Netherlands, [2]Basque Center on Cognition, Brain & Language., Spain, [3]Basque Foundation for Science, Spain

[Mo-P122]

Functional synchronization between two interacting brains during mother-child social interactions: a hyperscanning study with MEG
Patricia K Kuhl[1]*, Jo-Fu Lotus Lin[1,2], Toshiaki Imada[1], Andrew N Meltzoff[1], Hirotoshi Hiraishi[3], Takashi Ikeda[3], Tetsuya Takahashi[4], Chiaki Hasegawa[3], Yuko Yoshimura[3], Mitsuru Kikuchi[3], Masayuki Hirata[5], Yoshio Minabe[3], and Minoru Asada[5]
[1]Univ. of Washington, USA, [2]Nat'l Taiwan Univ., Taiwan, [3]Kanazawa Univ., Japan, [4]Univ. of Fukui, Japan, [5]Osaka Univ., Japan

[Mo-P123]

The role of cortical oscillations in speech processing in adult naive speakers of a second language
Lauren Gascoyne[1]*, Ainhoa Bastarrika[2], Cesar Caballero[2], Doug Davidson[2], and Matthew Brookes[1]
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[Mo-P124]

Neural entrainment to speech rhythms reflects temporal predictions and influences word comprehension
Anne Kösem[1,2]*, Hans Rutger Bosker[1,2], Antje Meyer[1,2], Ole Jensen[1], and Peter Hagoort[1,2]
[1]Radboud Univ., The Netherlands, [2]Max Planck Inst. for Psycholinguistics, The Netherlands

[Mo-P125]

Pre-operative language lateralization determined by magnetoencephalography in patients with temporal lobe epilepsy

Makoto Ishida*, Masaki Iwasaki*, Akitake Kanno, Kazutaka Jin, Yosuke Kakisaka, Ryuta Kawashima, and Nobukazu Nakasato
Tohoku Univ., Japan

[Mo-P126]

Audio-visual perception of familiar and unfamiliar syllables: a MEG study

Orsolya Kolozsvári, Weiyong Xu, Najla Azaiez Zammit Chatti, Natalia Louleli, Otto Loberg, Kaisa Lohvansuu, and Jarmo Hämäläinen
Univ. of Jyväskylä, Finland

[Mo-P127]

Do cortical oscillations track natural speech rhythms in children? A MEG study

Helene Guiraud[1]*, Veronique Boulenger[1], Ana-Sofia Hincapie[2,3,4], and Karim Jerbi[2]
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[Mo-P128]

Shifts from normal to fast speech are associated with corresponding shifts in the frequency of neuronal entrainment: A MEG study

Ana-Sofia Hincapié[1,2,3]*, Hannu Laaksonen[4,5], Dimitri Bayle[6], Hélène Guiraud[4], Karim Jerbi[1]*, and Véronique Boulenger[4]
[1]Univ. of Montreal, Canada, [2]Universidad Católica de Chile, Chile, [3]Pontificia Universidad Católica de Chile, Chile, [4]CNRS, France, [5]Centre de Recherche en Neurosciences de Lyon, France, [6]Université Paris Ouest Nanterre La Défense, France

[Mo-P129]

Mismatch responses to linguistic stimuli along the place-of-articulation continuum recorded with MEG in children

Kathryn Gill*, Banu Ahtam, Limin Sun, and Yoshio Okada
Harvard Medical School, USA

[Mo-P130]

Exploring verbal-motor connections in autism spectrum disorder using MEG

Maria Mody[1]*, Baojuan Li[1], Christopher Wreh II[2], Christopher McDougle[3], and Seppo Ahlfors[1]
[1]Harvard Medical School, USA, [2]Massachusetts General Hospital, USA, [3]Lurie Center, USA

[Mo-P131]

Difference of processing visual-stimuli in children with dyslexia

Kazuyori Yagyu*, Atsushi Shimojo, Hideaki Shiraishi, Satoshi Suyama, and Takuya Saitoh
Hokkaido Univ., Japan

[Mo-P132]

Near-instant neural access of word representations between 30-80 ms as revealed by MEG and EEG

Yury Shtyrov*
Aarhus Univ., Denmark

[Mo-P133]

Modulation of covert speech on overt loudness perception implies the mechanism of speech monitoring

Xing Tian[1]*, Nai Ding[2], Xiangbin Teng[3], and David Poeppel[3,4]
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9 : Magnetocardiohgraphy

[Mo-P134]

Non-invasive evaluation of spatial repolarization dispersion abnormalities in patients presenting with coronary artery disease

Volodymyr Sosnytskyy[1]*, Leonid Stadnyuk[2], Marina Dolzhenko[2], Taisya Sosnytska[3], Yuri Minov[4], Pavlo Sutkovyy[1], Yuri Frolov[1], and Olecsandr Nudchenko[2]
[1]Glushkov Inst. of Cybernetics, Ukraine, [2]P. L. Shupik Medical Academy for Postgraduate Education, Ukraine, [3]General Military-Medical Clinical Center, Ukraine, [4]Glushkov Inst. of Cybernetics, Ukraine

[Mo-P135]

Applying a MCG current density imaging modality to reconstruct measures of repolarisation dispersion in patients susceptible to ventricular arrhythmias

Volodymyr Sosnytskyy[1]*, Marina Dolzhenko[2], Leonyd Stadnyuk[2], Taisya Sosnytska[3], Yuri Minov[1], Pavlo Sutkovyy[1], and Yuri Frolov[1]
[1]Glushkov Inst. of Cybernetics, Ukraine, [2]P. L. Shupik Medical Academy for Postgraduate Education, Ukraine, [3]General Military-Medical Clinical Center, Ukraine

[Mo-P136]

Imaging of repolarization dispersion from the inverse solution of distributed current density

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[Mo-P137]

Measurement of magnetocardiogram using magnetoresistive sensor

Yasuhiro Shirai[1]*, Kenzo Hirao[1], Tomohiko Shibuya[2], Shuta Ushio[1], and Shigenori Kawabata[1]
[1]Tokyo Medical and Dental Univ., Japan, [2]TDK Corp., Japan

[Mo-P138]

Visualization of the electrical current in atrioventricular node by magnetocardiograms

Yasuhiro Shirai[1]*, Kenzo Hirao[1], Taishi Watanabe[2], Shuta Ushio[1], and Shigenori Kawabata[1]
[1]Tokyo Medical and Dental Univ., Japan, [2]Ricoh Co. Ltd., Japan

[Mo-P139]

Dimensional contraction at noise rejection method based on independent component analysis for MCG
Iwai Morio* and Kobayashi Koichiro*
Iwate Univ., Japan

[Mo-P140]

A SQUID full-tensor MCG system and its possible use for cardiac source localization
Shulin Zhang, Longqin Qiu, Chaoxiang Zhang, and Xiaoming Xie
Chinese Academy of Sciences, China

[Mo-P141]

Possibilities of Magnetocardiography in detection of myocardial injury in pediatric cardiology
O. A. Oshlianska, I. A. Chaikovskyi*, V. M. Budnyk, Mykola (Mykolaiovych) Budnyk, and Yu. O. Frolov
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[Mo-P142]

Potential of magnetocardiography in prediction of myocardial viability in patients with chronic coronary artery diseases
Illya Chaikovsky[1,2]*, Michael Lutay[3], Helen Nemchynova[3], Georgy Mjasnikov[4], Anatoly Kazmirchyk[4], Yury Frolov[1], and Mykola (Mykolaiovych) Budnyk[1]
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[Mo-P143]

Value of magnetocardiography: the differential diagnosis between coronary artery disease and coronary microvascular disease using magnetocardiography
Iilya Chaikovsky[1,2]*, Anton Popov[3], Eugen Udovichenko[3], Georgy Mjasnikov[4], Anatoly Kazmirchyk[4], and Andrey Verba[4]
[1]Nat'l Academy of Sciences of Ukraine, Ukraine, [2]Oxford Cardiomox Ltd., UK, [3]Nat'l Technical Univ. "KPI", Ukraine, [4]Nat'l Military Medical Center of Ukraine, Ukraine

[Mo-P144]

A Simple and effective adaptive QRS detection algorithm based on the waveform characteristics of the QRS complex
Li Lu[1]*, Kang Yang[2], Xiangyan Kong[2]*, Meiling Wang[2], Hua Chen[2], Ruihu Yang[2], Ming Li[2], Shulin Zhang[2], and Xiaoming Xie[2]
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[Mo-P145]

Recent progress of MCG system development and its clinical application in SIM
Xiangyan Kong*
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[Mo-P146]

Simulation of ventricular bioelectromagnetic activity to support ischemia detection
Malte Ehrlen and Byeong Soo Kim
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