ORALS

Friday 8:15-9:45 Neurodevelopment I

8:15 IT 1: Identifying Early Biomarkers of Autism Risk • Pelphrey

8:45 O.01 (#079): Different Language Learning Settings Alter the Processing of Phonotactics in Infancy: a Combined EEG and fNIRS Study • Richter

9:00 Fr O.02 (#083): Re-test reliability of fNIRS with infants • Blasi

9:15 Fr O.03 (#144) Acute neuropharmacological effects of atomoxetine and methylphenidate on children with attention deficit/hyperactivity disorder as assessed using fNIRS • Dan

9:30 Fr O.04 (#208) Differences in Activation to Biological and Mechanical Motion in the Infant Temporal Cortex • Biondi

Friday 11:00-12:30 Neonatal and Pediatrics I

11:00 IT 2 (#169): Simultaneous EEG and fNIRS recordings in neonates and children• Wallois

11:30 Fr O.05 (#210): Interhemispheric connectivity is disrupted in primary motor cortex of pediatric post-concussion syndrome patients •Urban

11:45 Fr O.06 (#205): Depressed Cerebral Blood Flow Response to Hypercapnia in Children with Obstructive Sleep Apnea Syndrome • Busch

12:00 Fr O.07 (#084): In vivo measurement of cerebral mitochondrial metabolism using broadband near infrared spectroscopy following neonatal stroke • Mitra

12:15 Fr O.08 (#018): Contribution of deep - and shallow-layer hemodynamics to fNIRS signals in infants' heads •Funane

Friday 13:30-15:00 Multimodal

13:30 IT 3 When in doubt do it both ways: fNIRS combined with electrophysiology or fMRI to empower neuroimaging • Steinbrink

14:00 Fr O.09 (#102): Correlation Analysis between fNIRS, EEG and EMG during Treadmill Walking Task • Jin

14:15 Fr O.10 (#125): Impact of Mayer waves on motor cortical excitability explored by a combination of NIRS-TMS • Voisin

14:30 Fr O.11 (#020): Probing the neural basis of visual working memory: A validation studying using fMRI and fNIRS • Wijeakumar

14:45 Fr O.12 (#094):Intrinsic Connectivity Network Strength Modulated by Working Memory Load: An fNIRS Study • Fishburn

Friday 16:15-17:15 Analysis I

16:15 Fr O.13 (#097): Probe Pressure Modulation Algorithm Reduces Extra-cerebral contamination in Optical Measurements of Cerebral Blood Flow • Baker

16:30 Fr O.14 (#008): Dynamic Causal Modelling for Near-Infrared Spectroscopy • Tak

16:45 Fr O.15 (#167): Studying the systemic low frequency oscillations using peripheral NIRS recordings • Tong

17:00 Fr O.16 (#099): Monitoring attentional state with fNIRS • Harrivel

17:15 IT 4: fNIRS as an assessment tool of infant cognitive function in global health studies • Elwell

Saturday 8:15-9:45 Clinical I

8:15 IT 5: Shining light on focal epilepsy • Nguyen

8:45 Sa O.17 (#211): Diffuse Optical Spectroscopy Measurement Of Cerebral Hemodynamics And Oxygen Metabolism During Anesthesia-Induced Burst Suppression In Rats • Sutin

9:00 Sa O.18 (#158): Personalized simultaneous EEG-NIRS to assess the neurovascular coupling in focal epilepsy • Pellegrino

9:15 Sa O.19 (#141): Simultaneous fNIRS-EEG recordings during infantile spasms • Bourel-Ponchel

9:30 Sa O.20 (#212): In-vivo measurement of cerebral metabolic rate of oxygen consumption in mouse brain using multimodal MR and near-infrared spectroscopic imaging •Johnson

Saturday 11:00-12:30 Neurocognition I

11:00 IT 6: Human brain-behavior relationships during cognitive workload with fNIRS • Perrey

11:30 Sa O.21 (#119): Effects of anodal high-definition transcranial direct current stimulation on bilateral sensorimotor cortex activation during sequential finger movements: an fNIRS study• Muthalib

11:45 Sa O.22 (#172): Exploring the Link Between Big Five Personality Traits and Motor Inhibitory Control Using Functional Near-Infrared Spectroscopy (fNIRS) • Rodrigo

12:00 Sa O.23 (#187): Using functional Near-infrared Spectroscopy (fNIRS) to examine the neural correlates of spontaneous improvisation and creativity in a word-guessing game of Pictionary • Saggar

12:15 Sa O.24 (#040): Prefrontal activation is predictive of working-memory training gain in elderly • Vermeij

Saturday 13:30-15:00 Neurodevelopment II

13:30 Sa O.25 (#053): The Infant Occipital Cortex Responds to a Predictive Cross-Modal Stimulus: An fNIRS Study of 6-month-olds • Emberson

13:45 Sa O.26 (#198): Neural Representations for Spoken Language are Influenced by the Development of Reading • Jasiska

14:00 Sa O.27 (#024): Acquisition of Adjectives in 5-year Old Children: fNIRS Suggests Stronger Reliance on Pragmatic Cues in Bilingual Compared to Monolingual Children. • Obrig

14:15 Sa O.28 (#063): Neural correlates of own- and other-race face recognition in preschoolers: A functional near-infrared spectoscopy (fNIRS) study • Lee

14:30 Sa O.29 (#145): Dynamics of functional connectivity changes and connectivity strength development in healthy children and adults • Li

14:45 Sa O.30 (#207): Impact of Visual Signed Language Exposure and Phonological Language Tissue Development: Evidence from fNIRS neuroimaging of language processing in deaf individuals with cochlear implants • Langdon

Saturday 13:30-15:00 Neonatal and Pediatrics II

16:15 Sa O.31 (#203): Effects of Somatic Stimulation on Human Neonatal Fronto-Parietal Cerebral Cortex using Functional Near-Infrared Spectroscopy • Kashou

16:30 Sa O.32 (#124): Can low or high cerebral oxygenation be prevented in preterm infants? A multicenter randomized controlled phase II trial using NIRS • Wolf

16:45 Sa O.33 (#115): A new broadband NIRS system for in-vivo measurements of cerebral cytochrome-c-oxidase changes in neonatal brain injury • Bale

17:00 IT 7: Challenges in mapping distributed brain function with diffuse optical tomography • Joe Culver

Sunday 8:15-9:45 Hardware

8:15 IT 8: Towards dense and wearable time domain fNIRS with ultimate contrast and depth sensitivity • Torricelli

8:45 Su O.34 (#065): Development of time-domain diffuse optical tomography based on a radiative transfer equation and diffusion approximation hybrid • Hoshi

9:00 Su O.35 (#073)**:** Laser Speckle based tomographic imaging of deep tissue blood flow • Varma

9:15 Su O.36 (#011): Ultra-high resolution concurrent fMRI/NIRS mapping using a specially designed probe • Hocke

9:30 Su O.37 (#116): Development of a hyperspectral time resolved DOT system for the exploration of the human brain activity • Lange

Sunday 11:00-12:30 Analysis II

11:00 IT 9: Recent advances in the analysis of fNIRS • Huppert

11:30 Su O.38 (#153): Linear and nonlinear hemodynamic models for the study of cerebral microcirculation with coherent hemodynamics spectroscopy (CHS) • Sassaroli

11:45 Su O.39 (#221) Decoding vigilance with NIRS •Mehnert

12:00 Su O.40 (#060): Blush or brain: A novel approach to decouple systemic surface blood flow from cortical neural activities in the fNIRS signal • Gao

12:15 Su O.41 (#036): The significance of systemic changes (blood pressure and PaCO2) in functional studies using NIRS - An investigation using a mathematical model of brain physiology • Felix Scholkmann

Sunday 13:30-14:45 Neurocognition II

13:30 Su O.42 (#096): An fNIRS investigation of associative recognition in the prefrontal cortex with a rapid event-related design • Schaeffer

13:45 Su O.43 (#180): Exploring Behavioural Performance and Cortical Haemodynamic Response Differences in Executive Function for Older Adults Varying in Mobility • Halliday

14:00 Su O.44 (#004): fNIRS reveals cross-modal reorganistation in auditory cortex following deafness • Dewey

14:15 Su O.45 (#010): Functional brain imaging during simulated driving using hyperspectral functional near-infrared spectroscopy • Nosrati

14:30 Su O.46 (#080): Decision-Making Conflict and the Neural Efficiency Hypothesis of Intelligence: A Functional Near-Infrared Spectroscopy Investigation • Di Domenico

Sunday 16:15-17:00 Clinical II

16:15 Su O.47 (#006): Habituation of brain activation during painful and non-painful electrical stimulation: a functional near infra-red spectroscopy study. • Yücel

16:30 Su O.48 (#111): Continuous wave functional near infra-red spectroscopy combined with transcranial direct current stimulation for assessment of cerebral vascular status in patients with ischemic stroke • Sood

16:45 Su O.49 (#183): Imaging acute stroke at the bedside using High-Density DOT • Bergonzi

POSTER

Poster Session I Fr P1

Fr P1.01 • (#184) • Imaging Brain Function in Children with Autism Spectrum Disorder with Diffuse Optical Tomography • Eggebrecht

Fr P1.03 • (#26) • Long term Ambulatory Monitoring of Cerebral Hemodynamics, Systemic Hemodynamics, ECG and Acceleration: Technology Development and Pilot Applications • Zhang

Fr P1.05 • (#199) • Evolution of temporal synchrony between functional brain networks during state transitions • Bauer

Fr P1.07 • (#91) • Co-registering fNIRS and MRI in infants • Lloyd Fox

Fr P1.09 • (#219) • A Silicon Integrated Sensor Interface for Portable FDNIRS • Joyner Koomson

Fr P1.11 • (#136) • Neurovascular coupling and Hemodynamic responses of the somatosensory and auditory rat cortex • Mahmoudzadeh

Fr P1.13 • (#34) • Towards Affective Hybrid Brain-Computer Interfaces based on fNIRS, EEG and Peripheral Physiological Signals. • Clerico

Fr P1.15 • (#138) • Hemodynamic changes preceding interictal spike development in GABA disinhibition model of epilepsy in adult rat: electrocorticography and near-infrared spectroscopy study. • Osharina

Fr P1.17 • (#170) • Investigation of the neurovascular coupling from simultaneous fNIRS-EEG system using the triplet holder • Keles

Fr P1.19 • (#113) • EEG-NIRS based assessment of neurovascular effects during anodal transcranial direct current stimulation - a stroke case study • Dutta

Fr P1.21 • (#92) • Robust pre-clinical software system for real time monitoring of NIRS and EEG • Dehbozorgi

Fr P1.23 • (#204) • Modeling specific hemodynamic response function in fNIRS • Peng

Fr P1.25 • (#163) • Biomarkers for Breast Cancer Detection in the Resting-State Dynamics of the Hemoglobin Signal • Graber

Fr P1.27 • (#140) • Thermal Impact of Functional Near Infrared Optical Brain Imaging • Nourhashemi

Fr P1.29 • (#52) • SPM toolbox to analyse and visualise fNIRS data (NIRSHSJ) • Tremblay

Fr P1.31 • (#185) • Optimizing factors to achieve high quality infant fNIRS time-course data • Goodwin

Fr P1.33 • (#110) • Evaluation of semi-subject-specific head model for fNIRS based on MR images of Japanese human head • Nakamura

Fr P1.35 • (#74) • Processing time-compressed speech in the newborn brain: the role of scale-invariant statistics • Issard

Fr P1.37 • (#159) • Developmental and Condition-related Changes in the Prefrontal Cortex Activity during Rest • Liang

Fr P1.39 • (#46) • The processing of faces across non-rigid facial transformation develops at 7 month of age: A fNIRSadaptation study • Kobayashi

Fr P1.41 • (#182) • Developmental Changes in executive functions during the first years of primary school – a longitudinal study using functional near-infrared spectroscopy • Untch

Fr P1.43 • (#217) • Using fNIRS and preferential looking to examine the early development of visual working memory • Reyes

Fr P1.45 • (#191) • fNIRS imaging of motor learning during upright stepping • Huppert

Fr P1.47 • (#47) • The right encoding strategy: a near-infrared spectroscopy study on the lateralized activation for own and other race faces. • Timeo

Fr P1.49 • (#78) • Are babies born with left-hemisphere language dominance? An fNIRS study • Vannasing

Fr P1.51 • (#72) • Active vs. assisted vs. passive finger movements - a hemodynamic comparison of premotor and motor cortex activity • Labruyere

Fr P1.53 • (#67) • The effect of obstructive sleep apnoea syndrome on the microvascular cerebral blood flow response to orthostatic stress • Blanco

Fr P1.55 • (#175) • Bioadequate electromagnetic therapy efficiency estimation using tissue oximetry • Mashkov

Poster Session II Fr P2

Fr P2.02 • (#22) • Time Resolved Whole-Head Diffuse Optical Tomography: How Fast Can We Go? • Cooper

Fr P2.04 • (#122) • Application of time-resolved near infrared spectroscopy in assessment of response to head-of-bed positioning in healthy subjects • Kacprzak

Fr P2.06 • (#14) • New algorithm for real-time scalp signal separation using multi-distance optodes • Kiguchi

Fr P2.08 • (#186) • NIRS Probe Construction Accuracy and Inter-subject Variability • Aasted

Fr P2.10 • (#177) • Diffuse optical tomography using optimal optode montage dedicated to study epileptic discharges • Machado

Fr P2.12 • (#75) • Cortical temporal response to surface lightness change • Mehnert

Fr P2.14 • (#130) • WITHDRAWN •

Fr P2.16 • (#16) • Investigation of prefrontal NIRS signals during a working memory task by simultaneous NIRS-fMRI measurements • Sato

Fr P2.18 • (#134) • Functional Imaging of Preterms Neuronal and Hemodynamic Syllabic Responses by Using high density EEG and NIRS • Mahmoudzadeh

Fr P2.20 • (#112) • A New Framework for fNIRS-EEG Fusion in Network Space • Yuan

Fr P2.22 • (#146) • FC-NIRS: A Functional Connectivity Analysis Tool for near-infrared spectroscopy data • Niu

Fr P2.24 • (#173) • Examining the Effectiveness of Sliding-window Motion Artifact Rejection (SMAR) Algorithm in Detecting Head Motion Artifacts • Rodrigo

Fr P2.26 • (#156) • Identification of biomarkers suitable for predicting cognitive decline in patients undergoing cardiac surgery • Pfeil

Fr P2.28 • (#106) • Adaptability of MR head image using new pulse sequences for fast segmentation algorithms to construct subject-specific head models • Kurihara

Fr P2.30 • (#50) • Functional connectivity analysis in patients with dysfunction of the corpus callosum: A preliminary study • Hirai

Fr P2.32 • (#98) • A comparison of procedures for co-registering scalp-recording locations to anatomical MRI images • Chiarelli

Fr P2.34 • (#109) • Evaluation of relationship between density of measurement points and point spread function of diffuse optical imaging • Sakakibara

Fr P2.36 • (#143) • Brain Response to Reading Tasks and Reading Training in Dyslexia as Measured by fNIRS • Izzetoglu

Fr P2.38 • (#154) • Using fNIRS to study the effects of nutrition on cognitive development in infants: A pilot study on working memory in infants in rural Africa and UK • Begus

Fr P2.40 • (#107) • The neural basis of speech and reading in developing readers: an fNIRS study • van den Bunt

Fr P2.42 • (#29) • Prefrontal Cortex Hemodynamics and Age: A Pilot Study Using Functional Near Infrared Spectroscopy in Children • Gandjbakhche

Fr P2.44 • (#35) • Hemdynamic response inprimary sensorimotor cortex to different mechanical stimulations of the lower back as measured by fNIRS • Vrana

Fr P2.46 • (#194) • Functional NIRS imaging during vestibular balance prosthesis • Huppert

Fr P2.48 • (#54) • Test-Retest Reliability of fNIRS: Evidence from a Cognitive Working Memory Task • Kelly

Fr P2.50 • (#123) • Neonates' hemodynamic responses to linguistic phonetic differences as a predictor of later language development • Minagawa

Fr P2.52 • (#209) • Functional connectivity of the occipital region based on recurrence plot • Sugai

Fr P2.54 • (#147) • Human auditory and adjacent non-auditory cortical areas are hypermetabolic in tinnitus patients as measured by fNIRS. • Bisconti

Fr P2.56 • (#90) • Temporal-spatial distribution of skin hemoglobin signals on the foreheard during a verbal fluency task • Satoru

Poster Session III Sa P3

Sa P3.01 • (#214) • Development of NIRS system for translational studies of subcortical regions using implanted optical fibers • Frederick

Sa P3.03 • (#13) • A Novel Optical Signaling Method for fNIRS Measurements • Wildey

Sa P3.05 • (#77) • Towards fast optical signal detection through optical gating • Sanchez

Sa P3.07 • (#89) • A multi-channel fNIRS brain imager based on Arduino microcontroller • Berivanlou

Sa P3.09 • (#137) • Fast Optical Signal Changes in Penicillin-Induced Generalized Spikes in Animal Model • Manoocheri

Sa P3.11 • (#17) • Autonomic correlates of prefrontal cortex activity during cognitive task • Pinti

Sa P3.13 • (#128) • A multimodal approach to calibrating age-related neurophysiology in a fNIRS study of the semantic words processing • Amiri

Sa P3.15 • (#135) • Neurovascular coupling in preterm neonates with Intra-Ventricular Hemorrhage: Combined high density EEG-NIRS study • Mahmoudzadeh

Sa P3.17 • (#21) • Improving motor performance by personalizing non-invasive cortical stimulation with perturbation transcranial direct current stimulation (ptDCS) • Khan

Sa P3.19 • (#129) • WITHRDRAWN •

Sa P3.21 • (#174) • Evaluation of Functional Near Infrared Spectroscopy (fNIRS) for Assessment of the Visual and Motor Cortices in Adults • Kashou

Sa P3.23 • (#161) • nirsLAB: A Problem Solving Environment for fNIRS Neuroimaging Data Analysis • Xu

Sa P3.25 • (#151) • Optimization of the general linear model for fNIRS with an adaptive hemodynamic response function • Ippeita

Sa P3.27 • (#12) • Supplementary use of fNIRS data in psycholinguistic research: A Japanese-English bilingual case study • Hideyuki

Sa P3.29 • (#195) • Recording auditory cortex responses using NIRS • Maheux

Sa P3.31 • (#100) • Near-Infrared Spectroscopy of Image Clarity Perception in the Human Brain • Lugo

Sa P3.33 • (#117) • Analytical Characterization of the In0.53Ga0.47As n+nn+ Infrared photodetectors • Mahi

Sa P3.35 • (#86) • Syllable Processing in Infants: Uncovering the Temporal Organization of Perisylvian Brain Regions • Low

Sa P3.37 • (#155) • Cerebral Hemodynamics and Metabolism Responses to Somatosensory Stimulations in Premature Neonates by Near-infrared Spectroscopy • Lin

Sa P3.39 • (#39) • Left-lateralized responses correlate with familiarization to novel phonotactic regularities in 12 months old infants • Vignotto

Sa P3.41 • (#33) • Influence of early language experience on brain activation to language: A study of hearing infants with Deaf mothers • Mercure

Sa P3.43 • (#190) • Inter-personal functional connectivity during interaction tasks • Huppert

Sa P3.45 • (#25) • Can you hear me? An fNIRS study on the auditory recovery after cochlear implantation" • Bisconti

Sa P3.47 • (#59) • Neural correlates of processing elastic moving faces: A functional near-infrared spectroscopy (fNIRS) study • Xiao

Sa P3.49 • (#171) • Bedside functional connectivity mapping of the developing brain • Ferradal

Sa P3.51 • (#166) • Coherent Hemodynamics Spectroscopy –Advances in Methodology and Clinical Applications • Kainerstorfer

Sa P3.53 • (#43) • Difuse optical characterization of the microvascular cerebral blood flow during obstructive sleep apnea events • Zirak

Sa P3.55 • (#168) • Cortical mechanisms underlying sensorimotor enhancement induced by light haptic touch during locomotion • Sangani

Sa P3.57 • (#48) • Combined EEG–fNIRS investigation of hierarchical rule learning in 5-months old infants • Winkler

Poster Session IV Sa P4

Sa P4.02 • (#1) • Analytical Characterization of the In0.53Ga0.47As n+nn+ Infrared Detectors • Varani

Sa P4.04 • (#32) • Evaluation of Spatial Resolved Spectroscopy (SRS) for use in monitoring Traumatic Brain Injury (TBI) patients • Dehghani

Sa P4.06 • (#81) • Investigation of time gated methods to control depth sensitivity in fNIRS time resolved data • Dunne

Sa P4.08 • (#126) • Development of compact continuous wave NIRS instrument based on small size spectrometers for assessment of brain hemodynamics • Gerega

Sa P4.10 • (#152) • Hemodynamic Response Patterns During Sleep- a concurrent time-domain fNIRS/EEG study in adults - • Piper

Sa P4.12 • (#37) • The effect of colored light on human cerebral hemodynamics and oxygenation, end-tidal CO2 and skin conductance – A multimodal fNIRS study • Scholkmann

Sa P4.14 • (#5) • Validation of the hypercapnic calibrated fMRI method using DOT-fMRI fusion imaging. • Yucel

Sa P4.16 • (#206) • How does fNIRS compare with fMRI to study cognitive tasks? • Desjardins

Sa P4.18 • (#42) • Correspondence of EEG and NIRS sensitivity to the cerebral cortex using a high-density layout • Giacometti

Sa P4.20 • (#61) • Effective functional connectivity of own- and other-race face processing in children: A Granger Causality Analysis • Liu

Sa P4.22 • (#108) • Analysis of time-resolved spatial sensitivity of NIRS using null source-detector separation • Takai

Sa P4.24 • (#56) • Semi-virtual registration and virtual channel synthetization in fNIRS imaging • Orihuela-Espina

Sa P4.26 • (#188) • Understanding Signal-to-Noise ratio for image reconstruction in optical topography • Herrera

Sa P4.28 • (#197) • Optimization of the NIRS technique as a way to measure latency differences in the onset of the haemodynamic response: A comparison of single-subject and jackknife approaches • Maheux

Sa P4.30 • (#118) • Total Variation Based Reconstruction for Diffuse Optical Tomography • Zhang

Sa P4.32 • (#218) • Quantification of head motion during infant near-infrared spectroscopy sessions for motion correction strategy selection • Perdue

Sa P4.34 • (#114) • Distinct temporal properties of cortical hubs in the language network of infants • Homae

Sa P4.36 • (#88) • fNIRS in Rural Gambia: Studies of Cognitive Function from Birth to 24 Months of Age • Halliday

Sa P4.38 • (#149) • Development of phase difference between cerebral oxy- and deoxy-hemoglobin fluctuations during the first half year of life • Taga

Sa P4.40 • (#31) • Brain activation to human vocalisations and environmental sounds in infancy and its association with later language development • Mercure

Sa P4.42 • (#62) • The Neural Development of Children's Spontaneous Deception: A Functional Near-infrared Spectoscopy (fNIRS) Study • Ding

Sa P4.44 • (#51) • Frontal brain activation during emotional Stroop task in individuals at risk for schizophrenia and bipolar disorder • Aleksandrowicz

Sa P4.46 • (#55) • A Problem-Solving Task Specialized for Functional Neuroimaging: Validation of the Scarborough Adaptation of the Tower of London (S-TOL) Using Near-Infrared Spectroscopy • Ruocco

Sa P4.48 • (#181) • Speaker-listener persuasion: an fNIRS study of message propagation • Shumaker

Sa P4.50 • (#19) • A novel 4D neonatal head model for diffuse optical imaging of preterm to term newborns: where to find it and how to use it? • Brigadoi

Sa P4.52 • (#76) • Real-time mapping of optode-scalp optical coupling for optimized placement of fNIRS headgear • Pollonini

Sa P4.54 • (#66) • Usefulness of double density fNIRS (DD-fNIRS) for the diagnosis of neocortical epilepsy focus • Yokota

Sa P4.56 • (#216) • Epileptic seizure detection in fNIRS signals using a supervised classifier • Guevara

Poster Session V Su P5

Su P5.01 • (#215) • Effective superficial layer thickness recovery using simultaneous multi-distance fitting of diffuse correlation spectroscopy data using a realistic Monte Carlo forward model • Carp

Su P5.03 • (#200) • Analysis of breath hold and hypercapnia in vivo DCS data using a layered slab Monte Carlo model • Selb

Su P5.05 • (#148) • Separation of superficial and cerebral hemodynamics based on time domain fNIRS and two-layer analysis • Wabnitz

Su P5.07 • (#127) • A new linear regression method for fNIRS data mapping • Torricelli

Su P5.09 • (#82) • Benchmarking Algorithms for Image Reconstruction of Cerebral Diffuse Optical Tomography • Habermehl

Su P5.11 • (#85) • Evaluating motion processing algorithms for use with fNIRS data from young children • Bohache

Su P5.13 • (#162) • Transient Artifact Reduction Algorithm (TARA) using Sparse Optimization and Filtering • Selesnick

Su P5.15 • (#93) • Changes in motor cortex activity of infants' reaching and stepping patterns • Nishiyori

Su P5.17 • (#9) • Neural Responses to Affective Touch in Infants at Elevated Risk for ASD • Fichtenholtz

Su P5.19 • (#30) • Developmental Changes in Visual Working Memory Revealed by Image-Based fNIRS Analyses • Spencer

Su P5.21 • (#71) • What is that baby thinking? The development of an fNIRS measure of live parent-infant interaction • McDonald

Su P5.23 • (#196) • Temporal lobe responses to auditory expressions: An fNIRS study of music and voice processing • Maheux

Su P5.25 • (#103) • Language and Categorization in Monolingual and Bilingual Mandarin Speakers' Brains • Liu

Su P5.27 • (#104) • Auditory Processing in the Cerebellum: An Examination Using fNIRS • Gunduz

Su P5.29 • (#45) • Influence of Reading Habits on Brain Plasticity for Discourse Comprehension in Aging: NIRS contribution • Martin

Su P5.31 • (#160) • Prefrontal Activation during Tower of Hanoi in Healthy Participants. • Liang

Su P5.33 • (#28) • Using fNIRS to Characterize of Human Influential Factors: Towards Models of Quality of Experience Perception for Text-to-Speech Systems • Gupta

Su P5.35 • (#15) • FNIRS-based Evaluation of Cortical Plasticity in Children with Cerebral Palsy Undergoing Constraint-Induced Movement Therapy • Cao

Su P5.37 • (#193) • Accuracy of slab model recovery of StO2 and HbT values in neonates with frequency modulated (FM-) NIRS • Huppert

Su P5.39 • (#150) • Cortical Contributions to Gait Control in Freely Moving Humans. • König

Su P5.41 • (#139) • Subthalamic nucleus high frequency stimulation reduces – almost immediately - primary sensorimotor and prefrontal dorsolateral cortical activity whatever the patient is at rest or performing a motor task: a fNIRS study • Lefranc

Su P5.43 • (#120) • Brain perfusion assessment by time-resolved monitoring of inflow and washout of ICG in patients with disorders of cerebral circulation • Liebert

Su P5.45 • (#57) • Diagnosis of focus side in intractable mesial temporal lobe epilepsy by fNIRS during spontaneous seizure • Oguro

Su P5.47 • (#3) • Persistent post-concussive symptoms are accompanied by decreased functional brain oxygenation • Helmich

Su P5.49 • (#220) • Exploration of the Potential Clinical Applications of Near Infrared Spectroscopy (NIRS) in the Area of Pain Management • Omire-Mayor

Su P5.51 • (#202) • Assessing Cerebral Hemodynamics by Dynamic Contrast-Enhanced Near-Infrared Spectroscopy • St Lawrence

Su P5.53 • (#49) • Does Driver Age, Experience and Gender Affect Overtaking Behaviour and Prefrontal Cortex (PFC) Activity? • Foy

Su P5.55 • (#131) • Issues in Functional Near Infrared Spectroscopy • Salnaitis

Poster Session VI Su P6

Su P6.02 • (#179) • Comparison of motion artifact correction algorithms for resting state NIRS • Selb

Su P6.04 • (#7) • Targeted Principle Component Analysis: A new motion artifact correction approach for Near-Infrared Spectroscopy • Yücel

Su P6.06 • (#178) • Removal of Motion Artifacts from Recorded NIRS Data During Walking • Arfaoui

Su P6.08 • (#132) • Non-linear Kalman filtering-based approach for physiological noise reduction in HRF estimation using SS-channel signals • Brigadoi

Su P6.10 • (#157) • Fractal structure of cerebral hemodynamics reflects structure of auditory input and motor output variability • Hough

Su P6.12 • (#164) • Phenotype-Motivated Strategies for Optical Detection of Breast Cancer • Barbour

Su P6.14 • (#69) • Bilingualism alters children's prefrontal activation during a non-verbal attention task • Arredondo

Su P6.16 • (#192) • fNIRS imaging of pediatric spatial working memory • Huppert

Su P6.18 • (#23) • Shining light on neural dynamics of cognitive flexibility in early childhood. • Buss

Su P6.20 • (#105) • Functional Organization of Object Processing Areas in the Infant Brain • Wilcox

Su P6.22 • (#64) • Age-dependence of emotional face processing in infants as measured with near-infrared spectoscopy • Perdue

Su P6.24 • (#87) • The strategy and motivational influences on the beneficial effect of neurostimulation: a tDCS and fNIRS study • Gözenman

Su P6.26 • (#213) • Cortical correlates of updating processes in working memory: a fNIRS investigation • Borragan

Su P6.28 • (#2) • Activation of the prefrontal cortex while performing a task at Preferred Slow Pace and Metronome Slow Pace: A functional near-infrared spectroscopy study • Shimoda

Su P6.30 • (#101) • Using fNIRS to compare immersion vs. translation approaches for second language learning • Ip

Su P6.32 • (#189) • fNIRS study of numerical cognition in adults • Ellis

Su P6.34 • (#121) • Assessing emotions through Near Infrared Spectroscopy • León-Carrión

Su P6.36 • (#142) • Pre-operative cerebral hemodynamics from birth until surgery in infants with critical congenital heart disease • Lynch

Su P6.38 • (#201) • Clinical Evidence of Ventricular Contamination in a NIRS Study of Post-Hemorrhagic Hydrocephalus in Preterm Infants • St Lawrence

Su P6.40 • (#41) • Hemodynamic changes in cortical sensorimotor systems following hand and orofacial motor tasks and pulsed cutaneous stimulation. • Oder

Su P6.42 • (#176) • Investigation of Hemodynamic Changes during General Anesthesia via Functional Near Infrared Spectroscopy • Hernandez

Su P6.44 • (#27) • Semiautomatic application for task-related component analysis (TRCA) to extract task-related signal changes from fNIRS signal: Clinical applications. • Watanabe

Su P6.46 • (#165) • Pre-surgical investigation of reading epilepsy using multimodal neuroimaging • Dima

Su P6.48 • (#44) • Novel application of Support Vector Machines to classify hemodynamic response obtained by multi-channel NIRS measurement • Ichikawa

Su P6.50 • (#95) • Cortical Activation During Swallowing, Cortical Suppression During Vibrotactile Stimulation Alone • Mulheren

Su P6.52 • (#38) • Reduced haemodynamic response in the ageing visual cortex • McKernan/Ward

Su P6.54 • (#133) • The development of functional Near-infrared Cortical Imaging (fNCI): the direct cortical hemodynamic mapping of the miniature pig's somatosensory area. • Uga

NUMBER CONVERTER
(#)→ Fr/Sa/Su O/P

(#1) • Sa **P**4.02
(#2) • Su **P**6.28
(#3) • Su **P**5.47
(#4) • Su **O**.44
(#5) • Sa **P**4.14
(#6) • Su **O**.47
(#7) • Su **P**6.04
(#8) • Fr **O**.14
(#9) • Su **P**5.17
(#10) • Su **O**.45
(#11) • Su **O**.36
(#12) • Sa **P**3.27
(#13) • Sa **P**3.03
(#14) • Fr **P**2.06
(#15) • Su **P**5.35
(#16) • Fr **P**2.16
(#17) • Sa **P**3.11
(#18) • Fr. **O**.08
(#19) • Sa **P**4.50
(#20) • Fr **O**.11
(#21) • Sa **P**3.17
(#22) • Fr **P**2.02
(#23) • Su **P**6.18
(#24) • Sa **O**.27
(#25) • Sa **P**3.45
(#26) • Fr **P**1.03
(#27) • Su **P**6.44
(#28) • Su **P**5.33
(#29) • Fr **P**2.42
(#30) • Su **P**5.19
(#31) • Sa **P**4.40
(#32) • Sa **P**4.04
(#33) • Sa **P**3.41
(#34) • Fr **P**1.13
(#35) • Fr **P**2.44
(#36) • Su **O**.41
(#37) • Sa **P**4.12
(#38) • Su **P**6.52
(#39) • Sa **P**3.39
(#40) • Sa **O**.24
(#41) • Su **P**6.40
(#42) • Sa **P**4.18
(#43) • Sa **P**3.53
(#44) • Su **P**6.48
(#45) • Su **P**5.29
(#46) • Fr **P**1.39
(#47) • Fr **P**1.47
(#48) • Sa **P**3.57
(#49) • Su **P**5.53
(#50) • Fr **P**2.30
(#51) • Sa **P**4.44
(#52) • Fr **P**1.29
(#53) • Sa **O**.25
(#54) • Fr **P**2.48
(#55) • Sa **P**4.46
(#56) • Sa **P**4.24
(#57) • Su **P**5.45
(#59) • Sa **P**3.47
(#60) • Su **O**.40
(#61) • Sa **P**4.20
(#62) • Sa **P**4.42
(#63) • Sa **O**.28
(#64) • Su **P**6.22
(#65) • Su **O**.34
(#66) • Sa **P**4.54
(#67) • Fr **P**1.53
(#68) • Su **O**.50
(#69) • Su **P**6.14
(#70) • Su **O**.39
(#71) • Su **P**5.21
(#72) • Fr **P**1.51
(#73) • Su **O**.35
(#74) • Fr **P**1.35
(#75) • Fr **P**2.12
(#76) • Sa **P**4.52
(#77) • Sa **P**3.5
(#78) • Fr **P**1.49
(#79) • Fr **O**.01
(#80) • Su **O**.46
(#81) • Sa **P**4.06
(#82) • Su **P**5.09
(#83) • Fr **O**.02
(#84) • Fr **O**.07
(#85) • Su **P**5.11
(#86) • Sa **P**3.35
(#87) • Su **P**6.24
(#88) • Sa **P**4.036
(#89) • Sa **P**3.07
(#90) • Fr **P**2.56
(#91) • Fr **P**1.07
(#92) • Fr **P**1.21
(#93) • Su **P**5.15
(#94) • Fr **O**.12
(#95) • Su **P**6.50
(#96) • Su **O**.42
(#97) • Fr **O**.13
(#98) • Fr **P**2.32
(#99) • Fr **O**.16
(#100) • Sa **P**3.31
(#101) • Su **P**6.30
(#102) • Fr **O**.09
(#103) • Su **P**5.25
(#104) • Su **P**5.27
(#105) • Su **P**6.20
(#106) • Fr **P**2.28
(#107) • Fr **P**2.40
(#108) • Sa **P**4.22
(#109) • Fr **P**2.34
(#110) • Fr **P**1.33
(#111) • Su **O**.48
(#112) • Fr **P**2.20
(#113) • Fr **P**1.19
(#114) • Sa **P**4.34
(#115) • Sa **O**.33
(#116) • Su **O**.37
(#117) • Sa **P**3.33
(#118) • Sa **P**4.30
(#119) • Sa **O**.21
(#120) • Su **P**5.43
(#121) • Su **P**6.34
(#122) • Fr **P**2.04
(#123) • Fr **P**2.50
(#124) • Sa **O**.32
(#125) • Fr **O**.10
(#126) • Sa **P**4.08
(#127) • Su **P**5.07
(#128) • Sa **P**3.13
(#129) • Sa **P**3.19
(#130) • Fr **P**2.14
(#131) • Su **P**5.55
(#132) • Su **P**6.08
(#133) • Su **P**6.54
(#134) • Fr **P**2.18
(#135) • Sa **P**3.15
(#136) • Fr **P**1.11
(#137) • Sa **P**3.09
(#138) • Fr **P**1.15
(#139) • Su **P**5.41
(#140) • Fr **P**1.27
(#141) • Sa **O**.19
(#142) • Su **P**6.36
(#143) • Fr **P**2.36
(#144) • Fr **O**.03
(#145) • Sa **O**.29
(#146) • Fr **P**2.22
(#147) • Fr **P**2.54
(#148) • Su **P**5.05
(#149) • Sa **P**4.38
(#150) • Su **P**5.39
(#151) • Sa **P**3.25
(#152) • Sa **P**4.10
(#153) • Su **O**.38
(#154) • Fr **P**2.38
(#155) • Sa **P**3.37
(#156) • Fr **P**2.26
(#157) • Su **P**6.10
(#158) • Sa **O**.18
(#159) • Fr **P**1.37
(#160) • Su **P**5.31
(#161) • Sa **P**3.23
(#162) • Su **P**5.13
(#163) • Fr **P**1.25
(#164) • Su **P**6.12
(#165) • Su **P**6.46
(#166) • Sa **P**3.51
(#167) • Fr **O**.15
(#168) • Sa **P**3.55
(#169) • IT 2 Fr
(#170) • Fr **P**1.17
(#171) • Sa **P**3.49
(#172) • Sa **O**.22
(#173) • Fr **P**2.24
(#174) • Sa **P**3.21
(#175) • Fr **P**1.55
(#176) • Su **P**6.42
(#177) • Fr **P**2.10
(#178) • Su **P**6.06
(#179) • Su **P**6.02
(#180) • Su **O**.43
(#181) • Sa **P**4.48
(#182) • Fr **P**1.41
(#183) • Su **O**.49
(#184) • Fr **P**1.01
(#185) • Fr **P**1.31
(#186) • Fr **P**2.08
(#187) • Sa **O**.23
(#188) • Sa **P**4.26
(#189) • Su **P**6.32
(#190) • Sa **P**3.43
(#191) • Fr **P**1.45
(#192) • Su **P**6.16
(#193) • Su **P**5.37
(#194) • Fr **P**2.46
(#195) • Sa **P**3.29
(#196) • Su **P**5.23
(#197) • Sa **P**4.28
(#198) • Sa **O**.26
(#199) • Fr **P**1.05
(#200) • Su **P**5.03
(#201) • Su **P**6.38
(#202) • Su **P**5.51
(#203) • Sa **O**31
(#204) • Fr **P**1.23
(#205) • Fr **O**.06
(#206) • Sa **P**4.16
(#207) • Sa **O**.30
(#208) • Fr **O**.04
(#209) • Fr **P**2.52
(#210) • Fr **O**.05
(#211) • Sa **O**.17
(#212) • Sa. **O**.20
(#213) • Su **P**6.26
(#214) • Sa **P**3.01
(#215) • Su **P**5.01
(#216) • Sa **P**4.56
(#217) • Fr **P**1.43
(#218) • Sa **P**4.32
(#219) • Fr **P**1.09
(#220) • Su **P**5.49
(#221) • Su **O**.39