
Oral Presentations

2. **Mapping neural correlates of biological motion perception in autistic children using high-density diffuse optical tomography** Dalin Yang | Alexandra M. Svoboda | Tessa G. George | Patricia K. Mansfield | Muriah D. Wheelock | Mariel L. Schroeder | Sean Rafferty | Arefeh Sherafati | Kalyan Tripathy | Tracy Burns-Yocum | Elizabeth Forsen | John R. Pruett Jr | Natasha Marrus | Joseph Culver | John N. Constantino | Adam Eggebrecht
3. **Functional specialisation in the first years of life: longitudinal characterisation of social perception with fNIRS** Johann Benerradi | Chiara Bulgarelli | Anna Blasi | Borja Blanco | Sam McCann | Bosiljka Milosavljevic | Ebrima Mbye | Ebou Touray | Sophie Moore | Clare Elwell | Sarah Lloyd-Fox
4. **Developmental changes in neurocognitive function in a large low-to-middle-income cohort** Sobana Wijeakumar | Samuel Forbes | Vincent Magnotta | Vinay Singh | Madhuri Tiwari | Aarti Kumar | John Spencer
5. **Dissecting neural and physiological correlates of affective and cognitive empathy in preschoolers** Chiara Bulgarelli | Paola Pinti | Tessel Bazelmans | Emily Jones
6. **Developmental Alterations in Brain Network Asymmetry in 3-9 Month Infants with Congenital Sensorineural Hearing Loss** Zhenyan Hu | Guangfang Liu | Yidi Liu | Endi Huo | Heather Bortfeld | Haihong Liu | Haijing Niu
7. **Minions and inhibitory control: A go-no-go task predicts risk status in toddlers with and without familial history of ADHD** Henry, M. | Patton, S. | Kerr-German, A N.
8. **Sensing via white matter – implanted fNIRS** Netaniel Rein | Revital Shechter | Mordekhay Medvedovsky | Michal Balberg
9. **A portable and wearable broadband NIRS device for oxygenation and metabolism measurements** Musa Talati | Frederic Lange | Dimitrios Airantzis | Danial Chitnis | Temisan Ilwuke | Darshana Gopal | Paola Pinti | Niccole Ranaei-Zamani | Olayinka Kowobari | Sara Hillman | Dimitrios Siassakos | Anna L David | Subhabrata Mitra | Ilias Tachtsidis
10. **A new platform for high density hybrid diffuse optical tomography and electroencephalography in neonates; the TinyBrains system** Nishigandha Patil | Arthur Bernard | Osman Melih Can | Marta Camprubi-Camprubi | Joan Sanchez-de-Toledo | Moisés Dominguez | Thomas Fontaine | Mirko Fornasier | Claudia Nunzia Guadagno | Sanathana Konugolu Venkata Sekar | Daniel Senciales | Shahrzad Parsa | Ali Rajabi Mashhadi | Georgina Tresanchez | Fabrice Wallois | Udo M. Weigel | M. Atif Yaqub | Turgut Durduran
11. **ninjaCap: A fully customizable and 3D printable headgear for fNIRS and EEG brain imaging** Alexander von Lühmann | Sreekanth Kura | Joseph O'Brien | Bernhard Zimmermann | Sudan Duwadi | De'Ja Rogers | Jessica Anderson | Parya Farzam | Cameron Snow | Anderson Chen | Meryem A. Yücel | Nathan Perkins | David Boas
12. **Cerebral blood flow response to functional stimuli assessed by interferometric diffuse correlation spectroscopy** Mitchell Robinson | Bin Deng | Ailis Muldoon | Shakeeb Habash | Maria Angela Franceschini | Stefan Carp
13. **Towards a wearable, fibre-free frequency-domain near-infrared spectroscopy device using structured interrogation** Nicholas Ross | Ola Abdalsalam | Scott Howard | Hamid Dehghani | Thomas D. O'Sullivan
14. **Quantifying neurovascular coupling through a concurrent assessment of arterial, capillary, and neuronal activation in humans: A multimodal EEG-fNIRS-TCD investigation** Joel S. Burma | Ibukunoluwa K. Oni | Andrew P. Lapointe | Selina Rattana | Kathryn J. Schneider | Chantel T. Debert | Jonathan D. Smirl | Jeff F. Dunn
15. **Functional organization of syntactic cue processing in three-year-old children correlates with language abilities** Lisa Bartha-Doering | Ursula Pabst | Sophie Mandl | Julia Andrejevic | Nadine Adrian | Lisa Emilia Ashmawy | Patrick Appel | Rainer Seidl | Johanna Alexopoulos
16. **Examination of Phase-Lag in Neural Coherence using fNIRS Hyperscanning with Infant-Mother Dyads Across Task Types** Jacqueline Hammack | Lindsey Riera-Gomez | Mini Sharma | Hila Gvirts | Teresa Wilcox
17. **Bidirectional information flow for cooperative learning with spontaneous leadership** Yuanyuan Li | Ya-Jie Wang | Chang Su | Fang Deng | Yafeng Pan

18. **Combining TMS and fNIRS to explore the cortical correlates of the interhemispheric inhibition** Costanza Iester | Alice Bellosta | Monica Biggio | Elena Monteleone | Ludovico Pedullà | Ambra Bisio | Sabrina Brigadoi | Simone Cutini | Laura Bonzano | Marco Bove
19. **Mapping Cortical Activations Underlying Speech Processing Across Development via Simultaneous fMRI-fNIRS** Sara Sanchez-Alonso | Rebecca R. Canale | Isabel Nichoson | Virginia Chambers | Richard N. Aslin
20. **Improving contrast and spatial resolution of tomographic fNIRS with activation-prior-guided reconstruction** Ashlyn McCann | Edward Xu | Qianqian Fang
21. **The fNIRS Reproducibility Study Hub (FRESH): Exploring Variability and Enhancing Transparency in fNIRS Neuroimaging Research** Meryem A. Yücel | Robert Luke | Rickson C. Mesquita | Alexander von Lühmann
22. **Data-driven optimization of the Hemodynamic Response Function for fNIRS data analysis** Letizia Contini | Rebecca Re | Paola Pinti
23. **A Hybrid Deep Learning and Model-Based Approach for functional Diffuse Optical Tomography of Adult Brain** Jiaming Cao | Hamid Dehghani
24. **Enhancing Cerebellar fNIRS/fMRI via Tailored Pipelines** Giulia Rocco | Edouard Delaire | Stephen Ramanoel | Olivier Meste | Marie-Noële Magnie-Mauro | Christophe Grova | Jerome Lebrun
25. **Statistical model transfer learning for fNIRS using fMRI-trained CNN models** Theodore Huppert | Xuetong Zhai | Hendrik Santosa
26. **Disrupted functional connectivity and delayed responses in severe carotid artery stenosis patients: insights from fNIRS on vasoreactivity test** V. Sanchez | C. Gonçalves | Andres Quiroga | Rickson C. Mesquita
27. **Feasibility of broadband NIRS to measure cerebral water content in adults** Vidisha Goyal | Hongting Zhao | LaBeausha H. Harris | Michael Arrington | Tisha S. Boodooram | Tara Urner | Puneet Sharma | Lei Zhou | N. Jon Shah | Feras Akbik | Owen B. Samuels | Prem A. Kandiah | Ana-Maria Oros-Peusquens | Ofer Sadan | Erin M. Buckley
28. **The effects of hypotension on optically monitored cerebral metabolic markers in adult patients undergoing cardiopulmonary bypass** Marianne Suwalski | Daniel Milej | John Murkin | Mamadou Diop | Jason Chui | Keith St. Lawrence
29. **High-Density Diffuse Optical Tomography for Continuous Neuromonitoring in Pediatric ECMO Patients** Sophia R. McMorrow | Tessa G. George | Chloe M. Sobolewski | Dalin Yang | Sung Min Park | Kelsey T. King | Kristin P. Williams | Ahmed S. Said | Adam Eggebrecht
30. **Distinct Cortical Activation Patterns Involved in Response Inhibition for Children with Extremely High Intelligence Quotients** Kiyomitsu Niioka | Sakae Mizushima | Akari Inoue | Tamao Hashimoto | Yasushi Kyutoku | Wakana Kawai | Hikari Tanaka | Yuuki Kishimoto | Yoko Hakuno | Shiho Yanagida | Yuuki Ishikawa | Ryoichi Sakuta | Ippeita Dan
31. **Cochlear Implant Induced Changes in Cortical Networks Associated with Tinnitus Severity** Mehmaz Shoushtarian | Jamal Esmaelpoor | Michelle MG Bravo | James B Fallon
32. **Wearable whole-head HD-DOT of the adult brain** Ernesto Elias Vidal Rosas | Robert J. Cooper | Nick L. Everdell | Samuel Powell
33. **Mind the individual: Physiological reactions to colored light assessed by systemic physiology augmented functional near-infrared spectroscopy** Hamoon Zohdi | Felix Scholkmann | Ursula Wolf
34. **High-density, multi-distance fNIRS better captures significant activation during Word-Color Stroop** Jessica Anderson | Laura Carlton | Sreekanth Kura | Yuanyuan Gao | De'Ja Rogers | W. J. O'Brien | Muhammad H. Zaman | David Boas | Meryem A. Yücel
35. **The fNIRS Glossary Project: A Consensus-based Resource for Functional Near-Infrared Spectroscopy Terminology** Katharina Stute | Louisa K. Gossé | Samuel Montero-Hernandez | Guy Perkins | Meryem A. Yücel
36. **Dynamics of Inter-brain connectivity in Mother-Infant Interaction: Graph Theory Analysis** Mini Sharma | Lindsey Riera-Gomez | Jacqueline Hammack | Teresa Wilcox | Anat Dahan | Hila Gvirts
37. **Functional Brain Mapping of Single-Subjects Using Precision High-Density Diffuse Optical Tomography** Aahana Bajracharya | Dana Wilhelm | Zachary Markow | Morgan Fogarty | Wiete Fehner | Jonathan Peelle | Joseph Culver

39. **Differences in brain activation during working memory tasks between badminton athletes and non-athletes: An fNIRS study** Yun-Ting Song | Ming-Qiang Xiang | Pin Zhong
40. **Neurological Impacts of Yoga Asana: An fNIRS study** Michelle Goodrick | Eleazar Samuel Kolosovas-Machuca | Edgar Guevara
41. **Sensorimotor neural activity during postural control in concussed individuals** Bhagyashree Singh | Ingo Helmich
42. **Investigating Parkinson's Disease Motor Cortex Functional Connectivity with fNIRS** Edgar Guevara | Eleazar Samuel Kolosovas-Machuca | Ildefonso Rodríguez-Leyva
43. **Repetitive head impacts in Para sports alter brain oxygenation patterns** Ingo Helmich | Y.Y. Chang | R. Gemmerich | L. Rodrigo | J. Funken | K.M. Arun | P. Van de Vliet
44. **The Utility of fNIRS for Evaluating Human Voice Acoustics for Stress Management** Marina Saskovets | Mykhailo Lohachov | Zilu Liang | Ian Piumarta
45. **The effect of diverse hair and skin properties on fNIRS signal quality** Jessica Anderson | De'Ja Rogers | Yuanyuan Gao | Parisa Hajirahimi | Parya Farzam | David Beeler | Emily J Braun | Lindsay Butler | Erin Carpenter | Jaimie Girnis | Rini I. Kaplan | Nishaat Mukadam | Vaibhav Tripathi | John Wilson | David C. Somers | Alice Cronin-Golomb | Swathi Kiran | Terry D. Ellis | David Boas | Meryem A. Yücel
46. **fNIRS Evaluation of Cortical Reorganization Following Brief Speech-in-Noise Training** Yael Zaltz | Stav Bracha
47. **Orthostatic Hypotension in Parkinson's Disease is Associated with Lower Neural Efficiency During Verbal Letter Fluency Testing While Upright: An fNIRS Study** Katherine Longardner | Pratusha Reddy | Kurtulus Izzetoglu
48. **Haemodynamic and metabolic functional responses in people with dementia – a functional bNIRS study** Deepshikha Acharya | Emilia Butters | Li Su | W. J. O'Brien | Gemma Bale
49. **The association between caregiver inhibitory control, caregiving behaviours, and infant visual cognition** Christina Davidson | Sobanawartiny Wijekumar
50. **Somatotopic organization of the thumb and shoulder Nogier points in the primary somatosensory cortex using HD-fNIRS** Ernest Okorie | Hendrik Santosa | Theodore Huppert | Benedict Alter | Keith Vogt
51. **Investigating the Neural Bases of Language Processing During a Live Social Interaction: A fNIRS Study of Neurotypical and Autistic Children** Meredith Pecukonis | Meryem A. Yücel | David Boas | Helen Tager-Flusberg
52. **Comparison of Commercially Available LEDs for Broadband NIRS** Renas Ercan | Deepshikha Acharya | Gemma Bale | Chiara Ciccarelli
53. **Social-touch and self-touch differ in hemodynamic response in the prefrontal cortex – A fNIRS study during corona** Sabrina von Au | Ingo Helmich | Hedda Lausberg
54. **Two-phase auditory evoked fNIRS responses in sleeping infants** Demi Gao | Julia Wunderlich | Linty McDonald | Suwana Watt | Gautam Balasubramanian | Onn Wah Lee | Darren Mao | Colette McKay
55. **Quantitative Evaluation of Manual Therapy Effects through Non-invasive Biomedical Measurements** Rin Hirasawa | Mikie Nakabayashi | Yasuhiro Matsuda | Yumie Ono
56. **Evaluating Cortical Activity and Balance Performance in Alpine Skiers** Haroon Khan | Paolo Victor Redondo | Håvard Engell | Hernando Ombao | Peyman Mirtaheri
57. **Comparison of Photogrammetry and 3D Scanning Methods to Traditional Digitizer for Localization of fNIRS Channels** Tatsuya Suzuki | Yumie Ono
58. **Development of a wavelength modulated near-infrared spectroscopy system** Danica M. Pacis | Adam P. Gibson | Jeremy Hebden

59. **Investigating the NIRS-derived cytochrome-c-oxidase signal using different system wavelength combinations and processing techniques with a diffusion-based model** Georgina Leadley | Topun Austin | Robert J. Cooper | Jeremy Hebden | Gemma Bale
60. **Concurrent behavioral modelling and EEG-fNIRS neuroimaging reveals how feedback affects decision making in internet gaming disorder** Xinglin Zeng | Zhen Yuan
61. **A novel fNIRS approach for detecting consciousness after acute severe brain injury** Androu Abdalmalak | Karnig Kazazian | Sergio Novi | Loretta Norton | Reza Moulavi-Ardakani | Matthew Kolisnyk | Teneille Gofton | Rickson C. Mesquita | Adrian Owen | Derek Debicki
62. **Estimating the effect of flow versus volume changes on near infrared spectroscopy derived metrics** Cameron Smith | Stefan Yu Bögli | Ihsane Olakorede | Giada Cucciolini | Virginia Motroni | Erta Beqiri | Aiden Chen | Claudia Ann Smith | Tomasso Rochat | Marina Sandra Cherchi | Ronan O'Leary | Basil Matta | Gemma Bale | Peter Smielewski
63. **Psychedelics and fNIRS neuroimaging: Current status and future outlook** Felix Scholkmann | Milan Scheidegger | Franz Voellenweider
64. **Real-time inference of molecular composition from broadband spectroscopy of brain tissue** Ivan Ezhov | Kevin Scibilia | Luca Giannoni | Florian Kofler | Suprosanna Shit | Charly Caredda | Frederic Lange | Marta Marradi | Ilias Tachtsidis | Daniel Rueckert
65. **Evaluating Statistical Learning with Qualitative Regressors: A GLM Methodology for HD-DOT Data** Sruthi Srinivasan | Xinyi Wang | Deepshikha Acharya | Flavia Mancini | Gemma Bale
66. **Investigation of Effects of Array Density and Modulation Frequency on Image Quality of Diffuse Optical Tomography** Weihao Fan | Jason W. Trobaugh | Chengfeng Zhang | Dalin Yang | Joseph Culver | Adam Eggebrecht
67. **Mutual prediction under virtual communication** Ziyun Zhang | Cian Xu | Carolyn McGettigan | Antonia Hamilton
68. **Characterising infant neurodevelopment in diverse settings using functional change point analysis** Sam Beaton | Sam McCann | Sophie Moore | Anna Blasi
69. **Investigating the effect of channel pruning on fNIRS data collected from Gambian children aged 5-60 months** Sam Beaton | Sam McCann | Sophie Moore | Anna Blasi | Borja Blanco | Chiara Bulgarelli | Luca Pollonini
70. **Cross-modal functional plasticity after cochlear-implantation** Jamal Esmaelpoor | Tommy Peng | Beth Jelfs | Darren Mao | Maureen J. Shader | Colette McKay
71. **Evaluating neurologic recovery following acute injury: measuring residual brain activity using fNIRS** Matthew Kolisnyk | Karnig Kazazian | Ira Gupta | Garima Gupta | Reza Moulavi Ardakani | Androu Abdalmalak | Sergio Novi | Teneille Gofton | Loretta Norton | Derek Debicki | Adrian Owen
72. **Prefrontal function of frustration regulation in young children** Yanwei Li | Xia Chi
73. **Subjectivity and Brain Activity-Based Validation to Driving Feedback** Hiroyuki Kitagawa | Misato Kasuya | Kasumi Abe | Tomoaki Nakamura | Kota Washio | Shuhei Manabe
74. **Functional identification of language-responsive channels in individual participants in fNIRS investigations** Luo Haolun | Li Qun | Sheng Li | Wen Jian | Zhou Hui
75. **Differences between Smartwatch-Measured Sleep Data and Subjective Sleep Rating: A fNIRS Pilot Study** Zilu Liang | Marina Saskovets
76. **Left fetal temporal sulcus depth predicts speech discrimination abilities at birth** Sophie Mandl | Patric Kienast | Gregor Kasprian | Johanna Alexopoulos | Rainer Seidl | Lisa Bartha-Doering
77. **Aberrant Neural Response and Eye Gaze Pattern in Girls with Fragile X Syndrome** Rihui Li | Shuo Guan | Danyong Feng | Yuhang Li
78. **A transportable hyperspectral imaging setup based on fast, high-density spectral scanning for in situ quantitative biochemical mapping of fresh tissue biopsies** Luca Giannoni | Marta Marradi | Kevin Scibilia | Ivan Ezhov | Camilla Bonaudo | Angelos Artemiou | Anam Toaha | Frédéric Lange | Charly Caredda | Alessandro Della Puppa | Ilias Tachtsidis | Daniel Rueckert | Francesco Saverio Pavone

79. **Longitudinal insights into motor coordination and neural synchrony within and between generations** Ryssa Moffat | Tessa Portier | Guillaume Dumas | Emily S. Cross
80. **Changes in cortical hemodynamics after an individually tailored virtual reality intervention in children with Developmental Coordination Disorder - An intervention protocol** Maja Van Grinderbeek | Alessandro Crippa | Pieter Meyns | Evi Verbecque | Katrijn Klingels
81. **Prefrontal cortical activations when learning irregular features in words and person** Yani Qiu | Jo Taylor | Paul Burgess
82. **Multimodal Near-Infrared Spectroscopy and 9.4T MRI shows reduced perfusion and abnormal oxidative metabolism in the EAE mouse model of MS** Mada Hashem | A. Max Hamilton | Jeff F. Dunn
83. **Feature recognition and diagnosis model construction of dyslexia: on the Basis of brain-cognition multimodal data** Mengmeng Yao | Fulin Liu | Qing Hong | Yanwei Li | Xia Chi
84. **Fronto-parietal cortical activation during balance tasks in children with Developmental Coordination Disorder - Preliminary results** Maja Van Grinderbeek | Anna Falivene | Charlotte Johnson | Pieter Meyns | Ann Hallemans | Emilia Biffi | Caterina Piazza | Alessandro Crippa | Evi Verbecque | Katrijn Klingels
85. **A Multi-Atlas Machine Learning Approach for Automated Segmentation of Widefield Optical Imaging in Mice** Hayden Fisher | Aurora Yuan | Brian R. White
86. **Illumind: An Accessible, Flexible Graphical User Interface for Hemodynamic and Fluorescent Widefield Imaging** Benjamin N. Zelnick | Ananya Paladugu | Hayden Fisher | Brian R. White
87. **Cedalion: A Python-based framework for data-driven analysis of multimodal fNIRS and DOT** Eike Middell | Laura Carlton | Thomas Fischer | Masha Iudina | Nils Harmening | Meryem A. Yücel | David Boas | Alexander von Lühmann
88. **Uncovering the neural basis of naturalistic speech comprehension with high-density diffuse optical tomography** Aahana Bajracharya | Arefeh Sherafati | Michael Jones | Emily Milarachi | Noel Dwyer | Adam Eggebrecht | Tamara Hershey | Jill Firszt | Joseph Culver | Jonathan Peelle
89. **Frontoparietal network connectivity among preschool-aged offspring at familial risk for ADHD** Heather M. Joseph | Hendrik Santosa | Theodore Huppert | Judith K. Morgan
90. **Quantifying cerebral metabolic and microvascular parameters during and after the cardiac arrest** Vladislav Toronov | Nima Khalifehsoltani | Rohit Mohindra | Steve Lin
91. **Association between early-life pesticide exposure and brain functional connectivity and working memory in adolescents** Yuanyuan Gao | Rihui Li | Qianheng Ma | Joseph Baker | Stephen Rauch | Robert B. Gunier | Ana M. Mora | Katherine Kogut | Asa Bradman | Brenda Eskenazi | Allan L. Reiss | Sharon K Sagiv
92. **Diffuse Optical Monitoring of Cytochrome C Oxidase and Hemodynamics during Drug-Induced Mitochondrial Dysfunction in Swine** Alistair Lewis | Rodrigo M. Forti | Todd J. Kilbaugh | Meagan J. McManuas | Arjun G. Yodh | Tiffany S. Ko | Wesley B. Baker
93. **Effects of Motor Awareness on Peripheral Muscle Blood Flow at the Onset of Exercise** Rei Ugata | Mikie Nakabayashi | Masashi Ichinose | Yumie Ono
94. **Development of an fNIRS-based neurofeedback system using prefrontal asymmetry** Ryosuke Hiyama | Tatsuo Hirata | Takumu Yagaguchi | Hiroki Sato
95. **Prefrontal cortex activity associated with hand dexterity - A Functional Near-Infrared Spectroscopy Study** Shunpei Toriyama | Tomoko Fujita | Nozomi Sasaki | Hiroki Sato
96. **Resting state functional connectivity at birth in very preterm neonates: Preliminary results on its relation with glucose variability and neurodevelopmental outcome** Elisa De Pietri | Giacomo Bianco | Guy Perkins | Silvia Guiducci | Chiara Lasagni | Maria Cusinato | Livia Avagliano | Giulia Res | Federica Savio | Elisa Di Giorgio | Elena Priante | Alfonso Galderisi | Eugenio Baraldi | Sabrina Brigadoi
97. **fNIRS Monitoring of Dynamic Stimulus in Immersive Virtual Reality Environment** Zephaniah Phillips V | Seung-Hyun Lee | Beop Min Kim

98. **Role of Mental Workload in Game for Post-work Recovery** Linqi Zhao | Max Wilson | Horia Maior | Patrick Dickinson
99. **Building behavioral and neural foundations for infant fNIRS-neurofeedback** Cachal Neuburger | Michal Ramot | Sagi Jaffe-Dax
100. **Assessing empathy in preschoolers with a naturalistic fNIRS/virtual-reality task** Chiara Bulgarelli | Paola Pinti | Nadine Aburumman | Antonia Hamilton | Emily Jones
101. **Liquid optical phantoms for use in NIRS: A systematic review** Angelos Artemiou | Frederic Lange | Ilias Tachtsidis
102. **Assessing preschoolers' structural action processing in a stacking game using fNIRS** Lea Haerms | Laura Maffongelli | Charlotte Grosse Wiesmann | Markus Paulus | Angela Friederici | Nicole Altwater-Mackensen
103. **A broadband NIRS system for bi-hemispheric, multi-distance brain oximetry** Archie Barraclough | Frédéric Lange | Subhabrata Mitra | Ilias Tachtsidis
104. **Early Detection of Sepsis-Related Microvascular Dysfunction with NIRS** Rasa Eskandari | Stephanie Milkovich | Farah Kamar | Daniel Goldman | Donald G. Welsh | Christopher G. Ellis | Mamadou Diop
105. **Inter-Brain Synchrony within an Environmental Context: A Systematic Review** Octavia Leahy | Joy Hirsch | Ilias Tachtsidis
106. **STEM training promotes inhibitory control of left-behind pupils: an fNIRS study reveals “compensatory mechanism”** Keya Ding | Yining Shen | Tianhang Gao | Hui Li
107. **The Impact of Cognitive Styles on Exploratory Search Behaviour and Mental Workload** Huimin Tang | Boon Giin Lee | Dave Towey | Max L. Wilson | Matthew Pike
108. **Evidence of fNIRS-Based Prefrontal Cortex inhibition of ADHD with comorbid obesity in children** Jiaying Dou | Dan Wu | Yuanyuan Zhang | Yanyan Huo | Hongyan Lan | Lingyan Chen | Yicheng Li | Xiulian Wang | Yuqian Ren | Ling Ma | Zhongling Liu | Xiaoyan Qiu | Jinjin Chen
109. **Simultaneous broadband NIRS and EEG to characterise social brain specialisation in infants** Maheen Siddiqui | Paola Pinti | Sabrina Brigadoi | Sarah Lloyd-Fox | Clare Elwell | Mark H Johnson | Ilias Tachtsidis | Emily Jones
110. **Effects of Maternal Anxiety on Infant Learning Under Uncertainty** Addison Billing | M.Berk Mirza | Eleanor Smith | Robert J. Cooper | Rebecca P. Lawson
111. **EEG/fNIRS based workload classification using functional brain connectivity and machine learning** Jun Cao | Enara Martin Garro | Yifan Zhao
112. **Laughing Together – do people synchronize and bond when they laugh together?** Carolina Pletti | Verena Schaefer | Stefanie Hoehl
113. **Hyperspectral time-resolved near-infrared spectroscopy technique for adult neuromonitoring** Natalie Li | Seva Ioussoufovitch | Mamadou Diop
114. **Sex Matters: Identifying Neural Profiles as Predictors of Sex Specific ADHD Subtypes** E. Lundstrum | P. Patel | H. Hudson | Anastasia Kerr-German
115. **The Acting Self: using LIGHTNIRS to measure self-other activations in professional actors** Dwaynica A Greaves | Anastasia Kokkinou | Joachim Nicolodi | Antonia Hamilton
116. **Brain Predictive Text Decoding using fNIRS** Theodore Huppert | Xuetong Zhai | Hendrik Santosa
117. **Multivariate Hierarchical Noise Models of fNIRS Data** Theodore Huppert | Xuetong Zhai
118. **The role of the DLPFC in conflict adaptation –A simultaneous fNIRS-EEG study** Ann-Christine Ehlis | Lisa Zarantonello | Florian B. Haeussinger | Tim Rohe | Andreas J. Fallgatter | Moritz J. Maier
119. **Test-retest Reliability of Diffuse Optical Tomography in a VR set-up in Neurodiverse Children** Giulia Serino | Siofra Heraty | Silvia Dalvit-Menabe | Samuel Powell | Nicholas Everdell | Nadine Aburumman | Tony Charman | Essi Viding | Antonia Hamilton | Paola Pinti | Chiara Bulgarelli

- 120. Shining a light on the neural underpinnings of early number word learning** Nina Jost | Stephanie Bugden | Samuel Forbes | Anna Matejko
- 121. Specificity of NIRS-based neurofeedback - Effects of inferior frontal gyrus (IFG) vs.dorsolateral prefrontal cortex (DLPFC) training in highly-impulsive individuals** Ann-Christine Ehlis | Betti Schopp | Masako Nagashima | Justin Hudak | Beatrix Barth | Andreas J. Fallgatter
- 122. MRI co-registration of infant fNIRS data: comparing the use of individual MRIs versus age-specific MRI templates** Giulia D'Avino | Samuel Forbes | Sobanawartiny Wijeakumar | Adam Eggebrecht | Vincent Magnotta | Vinay Singh | Madhuri Tiwari | Aarti Kumar | John Spencer
- 123. Tailoring fNIRS and Virtual Reality for Use with Neurodiverse Children** Giulia Serino | Siofra Heraty | Silvia Dalvit-Menabe | Samuel Powell | Nicholas Everdell | Nadine Aburumman | Tony Charman | Essi Viding | Antonia Hamilton | Paola Pinti | Chiara Bulgarelli
- 124. Neural Synchrony as a Mechanism for Shared Reality** Amit Freiman | Yaara Yeshurun
- 125. First Experiences Integrating fNIRS and Virtual Reality** Kasey L Forsythe | Hendrik Santosa | Theodore Huppert
- 126. Cognitive domains classification using fNIRS** Hendrik Santosa | Theodore Huppert
- 127. NeuroDOT: an Extensible Set of Tools for Optical Brain Mapping in Matlab and Python** Emma Speh | Yash Thacker | Ari Segel | Daniel Marcus | Muriah D. Wheelock | Adam Eggebrecht
- 128. Emotion regulation in bipolar disorder: A bimodal EEG-fNIRS study using an emotional Stroop task** Inès Tahir | Anne Planat-Chrétien | Arnaud Pouchon | Antoine Bertrand | Mircea Polosan
- 129. The neurocognitive effect of movement in Attention-Deficit Hyperactivity Disorder** Beverly-Ann Hoy | Michelle Bi | Matthew Lam | Barbara Fenesi | Androu Abdalmalak
- 130. Changes in speech comprehension and cortical activation following audiovisual training** Ansley Kunnath | Hannah S. Bertisch | René H. Gifford | Mark T. Wallace
- 131. The Neural Mechanisms of Order and Content Processing in Phonological Working Memory** Annika Junker | Emma Visibelli | Ana Fló | Silvia Benavides-Varela
- 132. fNIRS-Based Neural Profile of Teleoperation Skills** David Achancaray | Javier Andreu-Pérez | Hidenobu Sumioka
- 133. Non-invasive blood flow calibration using a hybrid time-resolved NIRS/DCS system** Daniel Milej | Leena N. Shoemaker | Saeed Samaei | Graham Deller | Keith St. Lawrence
- 134. Reliability of brain metrics derived from a Time-Domain Functional Near-Infrared Spectroscopy System** Julien Dubois | Ryan M. Field | Sami Jawhar | Erin M. Koch | Zahra M. Aghajan | Naomi Miller | Katherine Perdue | Moriah Taylor
- 135. Complete simulation pipeline for TD-NIRS, TD-DCS, and TD-SCOS** Xingmin Li | Lisa Kobayashi Frisk | Frederic Lange | Aleh Sudakou | Stanisław Wojtkiewicz | Antonio Pifferi | Iman Esmaeil Zadeh | Martin Caldarola | Turgut Durduran | Ilias Tachtsidis
- 136. Adapting Virtual Reality Horror Experiences using fNIRS** Callum Berger | Paul Tennent | Jocelyn Spence | Horia Maior | Richard Ramchurn | Max L. Wilson | Aleksandra Landowska
- 137. Enhancing Within-Subject Consistency of fNIRS Metrics: Regression of Physiological Contamination Using Short-Channels and Auxiliary Signals** Ateyeh Soroush | Joel S. Burma | Jeff F. Dunn
- 138. Cross-modal Plasticity in Early-Blind Adults Assessed with Functional Near-Infrared Spectroscopy** Dima Safi | Julie Tremblay | Anne Gallagher | Mathieu Dehaes | Franco Lepore | Olivia Florea
- 139. Analysis of Postural Influence on Memory using fNIRS-BCI** Hammad Nazeer | Ali Mustafa | Noman Naseer
- 140. Monitoring Cerebral Hemodynamics and Metabolism with a Hybrid trNIRS/DCS System During Shoulder Surgery** Saeed Samaei | Farah Kamar | Daniel Milej | Darren Drosdowech | John Murkin | Mamadou Diop | Jason Chui | Keith St. Lawrence

- 141. Insights into auditory development assessment: fNIRS protocol proposal** Lurdiana Guimarães Dias | Débora Marques de Miranda | Suelen Rosa de Oliveira | Rebecca Chrispim Silva | Ana Kelly Barbosa Vieira | Luciana Macedo de Resende
- 142. Explainable classification of fNIRS data using approximate reasoning** Mohammadreza Jamalifard | Javier Fumanal-Idocin | Benjamin Jones | Javier Andreu-Pérez
- 143. Finite Element Modelling of Abdominal Near Infrared Spectroscopy for Infant Intestinal Oximetry** Vishnu Emani | Caglar Ozturk | Manisha Singh | Carly Long | Summer Duffy | Danielle Gottlieb Sen | Ellen Roche | Wesley B. Baker
- 144. Is there extracerebrovascular CO reactivity? A SPA-fNIRS study** Sabino Guglielmini | Elena Wiggli | Martin Wolf | Felix Scholkmann
- 145. Within Subject Reproducibility of fNIRS** Julie C. Wagner | Anthony Zinos | Scott A. Beardsley | Wei-Liang Chen | Lisa Conant | Marsha Malloy | Joseph Heffernan | Brendan Quirk | Robert Prost | Mohit Maheshwari | Jeffery Sugar | Harry T. Whelan
- 146. Near-Infrared Spectroscopy Based Cerebral Oximetry Monitoring in Extremely Preterm Infants: Discussion of Two Recent Controversial Clinical Trials (SafeBoosC-II, SafeBoosC-III)** Martin Wolf | Marco Ferrari | Felix Scholkmann
- 147. Individualized head models from registered optodes or photogrammetry for improved DOT image reconstruction** Nils Harmening | Laura Carlton | Alexander von Lühmann
- 148. Impact of neurostimulation on performance enhancement in robotic surgery** Ziqi Zhang | Patel Ronak | Tia Lam | Ara Darzi | Felipe Orihuela-Espina | Daniel Leff
- 149. An fNIRS Processing Pipeline Based on Adaptive Thresholding Wavelet Denoising** Zhenchen Lin | Mary Goble | Felipe Orihuela-Espina | Daniel Leff

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- 151. Neural Mechanisms of Intergroup Bias in Smile Discrimination and Facial Mimicry: A fNIRS Study** Ruihan Wu | Uzair Hakim | Sara De Felice | Natalie Gunasekara | Isla Jones | Sarah J White | Antonia Hamilton
- 152. Physiological response to partial and full body submerged, end-inspiratory, and end-tidal apnea** Martin Goessweiner | Alexander Ruesch | Deepshikha Acharya | Jiaming Cao | Jingyi Wu | Andreas Fahlmann | J. Chris McKnight | Barbara Shinn-Cunningham | Jana Kainerstorfer
- 153. Visual cognition and dyadic interactions in caregivers and infants** Aimee Theyer | Sobanawartiny Wijekumar
- 154. Spatial Localization: Developing Earlier Than We Thought? Co-Location of Audio-Visual Stimuli in Infants** Nadeen Kherbawy | Yotam Zigler | Hagar Daniels | Romi Livne | Sagi Jaffe-Dax
- 155. Parental Synchrony during Cooperative Gameplay with their Child** Ricky Chmitorz | Anil Karabulut | Laura Mteweile | Pascal Vrticka | Benjamin Marlow
- 156. Functional Connectivity differences among Children in the Rural Ecuadorian Amazon who Drink Chicha** Matthew Cook | Allison Hancock | Spencer Bradshaw | Daniela Ortega | Dan Dewey | Lisa Boyce
- 157. An AI-empowered, fNIRS-EEG BCI for Mental State Classification** Jianan Chen | Tom Carlson | Hubin Zhao
- 158. Deep learning model for non-invasive intracranial pressure estimation from cerebral blood flow dynamics** Monica Torrecilla | Viacheslav Danilov | Susanna Tagliabue | Jonas Fischer | Carolina Fajardo Vega | Federica Maruccia | Anna Rey Perez | Marcelino Báguena | Josep Maria Silvestre | Youcef Lebour | Juan Sahuquillo | Maria Antònia Poca | Gemma Piella | Turgut Durduran
- 159. Assisting Diagnostic Applications of Functional Near-Infrared Spectroscopy for Depression and Bipolar disorder** JongKwan Choi | Jihyun Cha | Taehoon Kim | Hanseung Nam | Yuna Kim | Yun Seong Park | Woojae Myung
- 160. Reliability of fNIRS during a language task in people with aphasia** Jeffrey P. Johnson | Hendrik Santosa | Michael Walsh Dickey | William D. Hula | Theodore Huppert
- 161. Cerebral blood flow index and cardiac output in the state of hemorrhagic shock** Koki Kurono | Hiroki Matsushita | Mikie Nakabayashi | Masashi Ichinose | Keita Saku | Ono Yumie

- 162. The Impact of Project-Based Scripts on Neural Synchronization of Triadic collaboration within STEM Education Context** Fergie Yu Wang | Yuxuan Zhang | Mingming Zhang | Wei Peng Teo | Yan Dong
- 163. Developing a novel brain-based biomarker of mild cognitive impairment using time-domain functional near-infrared spectroscopy** Julien Dubois | Ryan M. Field | Sami Jawhar | Erin M. Koch | Zahra M. Aghajan | Naomi Miller | Katherine Perdue | Moriah Taylor
- 164. Developing a novel brain-based biomarker of depression treatment response using time-domain functional near-infrared spectroscopy** Julien Dubois | Ryan M. Field | Sami Jawhar | Erin M. Koch | Zahra M. Aghajan | Naomi Miller | Katherine Perdue | Moriah Taylor
- 165. Uncontrolled False Positives in Filtered fNIRS: A Critical Examination** Anthony Zinos | Julie C. Wagner | Harry T. Whelan | Scott A. Beardsley
- 166. Studying conditions with brain inflammation using near-infrared spectroscopic techniques** Damilola Adingupu | Ateyeh Soroush | Ayden Hansen | Jeff F. Dunn
- 167. Neural mechanism of multisensory integration in postnatal life: from EEG to fNIRS evidence** Karol Poles | Barbara Italia | Nicolò Castellani | Alice Rossi Sebastiano | Tommaso Berbenni | Mattia Galigani | Chiara Bulgarelli | Francesca Garbarini
- 168. A Framework for Synthetic fNIRS Data Generation** Mario De Los Santos | Enrique Sucar | Felipe Orihuela-Espina
- 169. Classifying Ankle Movements with fNIRS-BCI** Hammad Nazeer | Naqash Ahmad | Noman Naseer
- 170. Prefrontal cortex areas contribution to motor learning** Faruk Beslija | Manuel Añón-Hidalgo | Lluc Bilbao-Figuerola | Blai Ferrer-Uris | Turgut Durduran | Rosa Angulo-Barroso | Albert Busquets
- 171. The Development of Cortical Adaptation from Infancy To Adulthood** Carmel Moalem | Ofri Levinson | Sagi Jaffe-Dax
- 172. The Engagement of Frontoparietal Network in Sequence Learning and Sensory Prediction in 8-month-olds and its Correlation with Corresponding Anatomical Development** Jingyun Zhu | Vaidehi Asawa | Kira Burke | Timothy Cheng | Yasmeen Ghaleb | Lauren Emberson
- 173. Explicitly Interpretable Classification of Functional Neuroimaging Data in Neuroergonomics with exFuzzy** Jessica Caterson | Javier Fumanal-Idocin | Mary Goble | Ara Darzi | Felipe Orihuela-Espina | Javier Andreu-Perez | Daniel Leff
- 174. Predicting Second Language Proficiency Using fNIRS Data during Word Translation** Wakana Kawai | Kiyomitsu Niioka | Katsumasa Shinozuka | Ippeita Dan
- 175. Acute effects of nitrate and breakfast on working memory and the cortical haemodynamic response in adolescents: A randomised crossover trial** Emerald Heiland | Frida Lindh | Callum Regan | Örjan Ekblom | Karin Kjellenberg | Filip Larsen | Maria Fernström | Gisela Nyberg | Maria Ekblom | Björg Helgadóttir
- 176. Comparative analysis of speech prosody processing in awake and sleeping infants** Fumitaka Homae | Hama Watanabe | Gentaro Taga
- 177. A high-density multifactorial study of infants' social cognition** Zohreh Soleimani | Kimia Kolivand | Kiley J. Hamlin | Lauren Emberson
- 178. Neural coupling in parents in association with ASD traits and subjective behavioural ratings** Laura Mteweile | Anil Karabulut | Ricky Chmitorz | Benjamin Marlow
- 179. Impact of Digital Upper Limb Rehabilitation on Cortical Activation in Patients with Stroke** Jinuk Kim | Eunmi Kim | Su-Hyun Lee | Gihyoun Lee | Yun-Hee Kim
- 180. Interactive Multi-Touch Games Enhance Prefrontal and Cognitive Flexibility Related Network Activities and Inter-Brain Synchrony in the Elderly** Jinuk Kim | Eunmi Kim | Su-Hyun Lee | Yun-Hee Kim
- 181. The Prometheus project: Nutritional strategies to target premature brain health** Prometheus Consortium
- 182. An infant within-subject multimodal NIRS-EEG classifier** Jessica Gemignani | Judit Gervain
- 183. Investigating brain specialization for song and speech at birth** Caterina Marino | Jessica Gemignani | Judit Gervain

- 184. Cortical correlates of Hand Blink Reflex: insight from Near-Infrared Spectroscopy study** Monica Biggio | Costanza Iester | Ambra Bisio | Sabrina Brigadoi | Simone Cutini | Laura Bonzano | Marco Bove
- 185. Investigating the haemodynamic response to hypo-glycaemia in preterm infants using diffuse optical tomography** Guy Perkins | Silvia Guiducci | Giulia Res | Federica Savio | Elena Priante | Alfonso Galderisi | Eugenio Baraldi | Sabrina Brigadoi
- 186. Cortical correlates of treadmill walking: walking speeds and handrails holding effects** Laura Bonzano | Monica Biggio | Costanza Iester | Davide Cattaneo | Simone Cutini | Ambra Bisio | Ludovico Pedullà | Alessandro Torchio | Marco Bove
- 187. Brain Network Analysis in Alzheimer's Disease and Mild Cognitive Impairment using HD-DOT** Emilia Butters | Liam Collins-Jones | Rickson C. Mesquita | Deepshikha Acharya | Sruthi Srinivasan | W. J. O'Brien | Li Su | Gemma Bale
- 188. From Screen to Self: using LIGHTNIRS to measure self-other activations in Marvel Cinematic Universe (MCU) fans** Dwaynica A Greaves | Emma Osterrieder | Riko Munakata | Antonia Hamilton
- 189. Contrast-enhanced diffuse optical tomography in acute, moderate and severe traumatic brain injury: a prospective observational study** Mario Forcione | Guy Perkins | Antonio Maria Chiarelli | Andrew Stevens | David Perpetuini | David J. Davies | Antonio Belli
- 190. Assessing Visual Cognitive Motivation through Machine Learning applied to fNIRS data** Sara Quattrocelli | Daniela Cardone | Arcangelo Merla | David Perpetuini
- 191. A high-density hyperspectral imaging system for real-time quantitative biochemical monitoring of ex vivo and in vivo brain tissue** Anam Toaha | Luca Giannoni | Marta Marradi | Camilla Bonaudo | Alessandro Della Puppa | Ilias Tachtsidis | Francesco Saverio Pavone
- 192. A diffuse optical tomography system to scan acute traumatic brain injury patients in the intensive care unit: a prospective study on healthy volunteers** Mario Forcione | Antonio Maria Chiarelli | David Perpetuini | Guy Perkins | Andrew Stevens | David J. Davies | Antonio Belli
- 193. Cortical activity and network organisation during oculo-manual vs ocular pursuit: The impact of task adaptation** Lenaic Borot | Ruth Ogden | Simon Bennett
- 194. Hemodynamic response of prefrontal areas in the simultaneous control of motor and cognitive functions in children with ASD, ADHD and depression - a pilot study using fNIRS** Małgorzata Chojak | Anna Gawron | Adrian Korniluk
- 195. A digital instrument simulator to optimize the development of hyperspectral systems for intraoperative brain mapping** Charly Caredda | Frederic Lange | Luca Giannoni | Ivan Ezhov | Ilias Tachtsidis | Bruno Montcel
- 196. Photonic sensor development considerations for placenta monitoring. A simulation study** Charly Caredda | Frederic Lange | Niccole Ranaei-Zamani | Anna L David | Dimitrios Siassakos | Rosalind Aughwane | Sara Hillman | Kowobari Olayinka | Subhabrata Mitra | Ilias Tachtsidis
- 197. Rhythmic discrimination of languages in infants with hearing loss** Gaia Lucarini | Caroline Nallet | Davide Brotto | Alessandro Martini | Patrizia Trevisi | Judit Gervain
- 198. Learning repetition-based regularities in speech: a NIRS study with 18-month-old infants** Gaia Lucarini | Alessia Pasquini | Judit Gervain
- 199. Can 7-month-old infants extract affective information independently by sensory modality?** Chuchu Jia | Teresa Farroni | Judit Gervain | Letizia Della Longa | Laura Carnevali
- 200. Exploring the effects of fNIRS Paradigms: Event-Related vs. Block Design in Go/NoGo Tasks** Letizia Contini | Rebecca Re | Paola Pinti
- 201. Establishing Responsible Standards in fNIRS Research through International Data Governance** Aleksandra Landowska | Damian Eke | Max L. Wilson | Horia A. Maior
- 202. Reconstructing fNIRS signal with Generative Deep Learning Model** Yingxu Zhi | Baiqiang Zhang | Bingxin Xu | Haijing Niu

- 203. Time-on-task effect on cognitive load-related cortical activity: An fNIRS investigation with healthy adults**
Selima Zahar | Julie Hudry | Dimitri Van De Ville
- 204. Prefrontal functioning in the stress-rumination link** Isabell Int-Veen
- 205. Broadband NIRS reconstruction with colouration maps** Robert Ward | Rickson C. Mesquita | Hamid Dehghani | Felipe Orihuela-Espina
- 206. Full model selection of the fNIRS pipeline** Robert Ward | Rickson C. Mesquita | Javier Andreu-Perez | Felipe Orihuela-Espina
- 207. Investigation of spatiotemporal aspects of neurovascular coupling during slow wave activity in the neocortex** Sumana Chetia | Turgut Durduran | Diana Casas-Torremocha | Maria V. Sanchez-Vives | Alejandro Suarez-Perez | Tanja Dragojevic
- 208. Biobehavioral Synchrony in Parents of Preschool Children: Insights from a novel fNIRS Hyperscanning Study** Anil Karabulut | Laura Mteewe | Ricky Chmitorz | Ben Melow | Luca Cecchetti | Pascal Vrticka
- 209. Rhythmic versus arrhythmic sequences induce different cortical activity patterns in the premature brain: preliminary fNIRS results** Ali Rajabi Mashhadi | Alexandros Stamatiadis | Guy Kongolo | Ghida Ghostine | Florence Levé | Laurel Trainor | Fabrice Wallois | Sahar Moghimi
- 210. Low-cost, portable, multi-purpose, versatile module for speckle contrast optical spectroscopy/tomography** Mirko Fornasier | Manish Verma | Faruk Beslija | Andres Quiroga | Lisa Kobayashi Frisk | Sumana Chetia | Nishigandha Patil | Marta Zanoletti | Lorenzo Cortese | M. Atif Yaqub | Turgut Durduran
- 211. Effects of Glucose Ramune Candy Intake on Brain Activity During Cognitive Tasks and Psychophysiological States** Rikuto Nishida | Taishi Shigaki | Yuko Setoguchi | Mizuki Yoshihara | Hiroyuki Inagaki | Yuko Matsui | Takashi Mato | Hiroki Sato
- 212. Mapping cortex-wide infant responses to audio-visual social cues using whole-head HD-DOT** Liam Collins-Jones | Louisa K. Gossé | Borja Blanco | Chiara Bulgarelli | Maheen Siddiqui | Ernesto Elias Vidal Rosas | Nida Duobaité | Reuben W. Nixon-Hill | Greg Smith | James Skipper | Tim Sargent | Samuel Powell | Nicholas L. Everdell | Emily Jones | Robert J. Cooper
- 213. Analytical pipeline optimisation in developmental fNIRS hyperscanning during children's naturalistic interactions** Victoria Mousley | Letizia Contini | Rebecca Re | Christina Soderberg | Dens Mareschal | Paola Pinti
- 214. TD fNIRS application for cerebral resting state studies** Rebecca Re | Letizia Contini | Davide Contini | Lorenzo Spinelli | Felipe Orihuela-Espina | Alessandro Torricelli
- 215. A framework of sEMG-fNIRS feature selection for brain-controlled lower-limb exoskeleton** Ruisen Huang | Wenze Shang | Fei Gao
- 216. Unlocking unique reactions: Novel insights into four cerebral and systemic responses to colored light** Sarusan Jegatheeswaran | Hamoon Zohdi | Felix Scholkmann | Ursula Wolf
- 217. Interbrain synchrony trajectories in teamwork** Coralie Réveillée | Grégoire Vergotte | Stéphane Perrey | Gérard Dray | Pierre-Antoine Jean | Grégoire Bosselut
- 218. Link between respiration depth, hemodynamic responses and neural activity in awake, behaving non-human primates** Emily Skog | Deepa Issar | Madison Grigg | Matthew Smith | Jana Kainerstorfer
- 219. Attention Modulation Using fNIRS: Extracting Default Mode and Dorsal Attention Networks** Samuel Montero-Hernandez | Laura Carlton | Yunyuan Gao | David Beeler | David Somers | Meryem A. Yücel | David Boas
- 220. An augmented reality guided optode positioning system on a head-mounted display device** Hiroshi Kawaguchi
- 221. Prefrontal cortex activity during navigated walking in older adults and people with Parkinson's disease** Alexander Kvist | Lucian Bezuidenhout | Hanna Johansson | Franziska Albrecht | Urban Ekman | David Moulæe Conradsson | Erika Franzén
- 222. Functional connectivity in 2- to 5-years-olds at risk for psychopathology predicts experience of sadness and self-regulation** Grace N. Gasaway | K. Patel | Anastasia Kerr-German

- 223. Towards an fNIRS foundation model using self-supervision to improve machine learning classification** Johann Benerradi | Jeremie Clos | Max L Wilson
- 224. Two voices two stores: Different speakers generate separate memory traces in newborns** Emma Visibelli | Ana Fló | Silvia Benavides-Varela
- 225. A Cloud-Based NIRS Data Pipeline: Application to Wearable Device for Placenta Monitoring** Darshana Gopal | Jack Highton | Musa Talati | Dimitrios Airantzis | Temisan Ilwuke | Danial Chitnis | Niccole Ranaei-Zamani | Anna L David | Dimitrios Siassakos | Rosalind Aughwane | Sara Hillman | Kowobari Olayinka | Subhabrata Mitra | Ilias Tachtsidis
- 226. Investigating newborns' representations of language prosody with NIRS-EEG** Jessica Gemignani | Judit Gervain
- 227. Decoding Valence and Arousal in Music Using fNIRS** João Pereira | Alexandre Sayal | Michael Lührs | Bruno Direito
- 228. Regional differences in microvascular regulatory control during ephemeral blood pressure perturbations** Joel Stephen Burma | Hannah Pisko | Saroor Virk | Nathan E. Johnson | Jina Seok | Joshua J. Burkart | Ateyeh Soroush | Chantel T. Debert | Kathryn J. Schneider | Jonathan D. Smirl | Jeff F. Dunn
- 229. The Neural Foundations of Sound Symbolism in the First Months of Life** Annika Junker | Maria Loconsole | Lucia Regolin | Rosa Rugani | Silvia Benavides-Varela
- 230. A naturalistic approach to investigate the neural correlates of a laundry cycle with and without fragrance** Natalie Gunasekara | Giuliano Gaeta | Paola Pinti | Andrew Levy | Emilia Parkkinen | Emily Kontaris | Ilias Tachtsidis
- 231. Effects of Matrix Conditioning strategies on Multifrequency High-density Diffuse Optical Tomography** Chengfeng Zhang | Weihao Fan | Adam Eggebrecht
- 232. A new multimodal neuro-monitoring approach to study speech processing in six-month-old infants** Ibtissam Ghailan Tribak | Judit Ciarrusta | Fen Zhang | Daniel Senciales | Susanna Tagliabue | Osman Melih Can | M. Atif Yaqub | Judit Gervain | Núria Sebastian Gallés | Turgut Durduran | Chiara Santolin
- 233. Accounting for head size distributions in cross-sectional and longitudinal pediatric fNIRS studies** Xuetong Zhai | Theodore Huppert | Hendrik Santosa
- 234. The Influence of the Believability of Conclusions on Cortical Activation During Categorical Syllogistic Reasoning Tasks** En Hosokawa | Kazuma Okamoto | Kenta Nakazawa | Taira Tejima | Yasushi Kyutoku | Ippeita Dan
- 235. Influence of Skin in the Estimation of Optical Properties with Frequency-Domain Diffuse Optical Spectroscopy** Giovani Grisotti Martins | Luis Felipe Bortoletto | Rickson C. Mesquita
- 236. Securing the brain from occupational misinformation** James Crum | Cara Spencer | Emily Doherty | Erin Richardson | Sage Sherman | Amy Hays | Nitesh Saxena | Richard Niemeyer | Allie Anderson | Marta Ceko | Leanne Hirshfield
- 237. Using concurrent fNIRS and fMRI to computationally model deep-brain activity** James Crum | Nitin Kumar | Emily Doherty | Leanne Hirshfield | Marta Ceko
- 238. Where in the brain is the dax? Mapping word learning in the child brain** Stephanie Castro | Maria M. Arredondo
- 239. A modular TD-fNIRS system for many applications** Yarik Chekin | Dakota Decker | Julien Dubois | Ryan M. Field | Viswanath Gopalakrishnan | Erin M. Koch | Gabriel Lerner | Zahra M. Aghajan | Naomi Miller | Isai Olvera | Milin J. Patel | Katherine Perdue | Josh Schmidt | Victor Szczepanski | Moriah Taylor
- 240. A Whole-head Fast Time-Domain Diffuse Optical Tomography System** Yarik Chekin | Dakota Decker | Hamid Dehghani | Julien Dubois | Ryan M. Field | Viswanath Gopalakrishnan | Erin M. Koch | Gabriel Lerner | Zahra M. Aghajan | Naomi Miller | Isai Olvera | Milin J. Patel | Katherine Perdue | Josh Schmidt | Victor Szczepanski
- 241. Classifying the Prefrontal Cortex Reasoning Process Using CLEVR Cognitive Tasks** Bumjun Koh | Sangseong Kim | Byungju Park | Seongkwon Yu | Yuqing Liang | Jimin Lee | Hyeon-Min Bae
- 242. Optimizing Short Distance Diffuse Correlation Spectroscopy** Saeed Samaei | Daniel Milej | Leena N. Shoemaker | Keith St. Lawrence

- 243. Assessing the Reproducibility of a Hybrid Time-Resolved NIRS/DCS System for Daily Hemodynamic ICU Monitoring** Farah Kamar | Saeed Samaei | Rasa Eskandari | Leena N. Shoemaker | Daniel Milej | Mamadou Diop | Keith St. Lawrence
- 244. Effects of contrast water therapy on tissue oxygen metabolism and muscle fatigue recovery** Shunsaku Hirota | Mikie Nakabayashi | Shunsaku Koga | Masashi Ichinose | Yumie Ono
- 245. Validating the reproducibility of a low-cost single-channel fNIRS device across hierarchical cognitive tasks** Xu Shiyang | Zhang Chao
- 246. Attrition rates on an infant fNIRS social touch study** Livia Campos | Isabella Francischelli | Camila Ribeiro | Júlia Terra | Ana Osório
- 247. Artefact detection and removal using ICA-ERBM in fNIRS** Laura Carlton | Meryem A. Yücel | Jacqueline Behrendt | David Boas | Alexander von Lühmann
- 248. Neural Connectivity in Behaviorally Inhibited Preschoolers: a NIRS Study** Caitlin Aloisio | Theodore Huppert | Hendrik Santosa | Lindsay Taraban | Jennifer Silk | Koraly Pérez-Edgar | Judith K. Morgan
- 249. Novel fNIRS Digitization Methodology, Firefly: Innovative 3D Imaging and Software** J.D. German | M.S. | S. Patton | Anastasia Kerr-German
- 250. Cerebral tissue oximetry in pediatric population: establishing reference values in TD-NIRS measurements** Michele Lacerenza | Virginia Rossi | Sara Zanelli | Caterina Amendola | Davide Contini | Mauro Buttafava | Alessandro Torricelli | Lorenzo Spinelli | Gian Vincenzo Zuccotti | Valeria Calcaterra
- 251. Addressing Skin Pigmentation Bias in NIRS Tissue Oximetry** Michele Lacerenza | Virginia Rossi | Sara Zanelli | Giovanna Sgarzi | Caterina Amendola | Davide Contini | Lorenzo Spinelli | Alessandro Torricelli | Gian Vincenzo Zuccotti | Valeria Calcaterra | Mauro Buttafava
- 252. Exploring the Effect of Pregnancy Related Anxiety on Newborns' Responses to Social Stimuli: Insights from High-Density Diffuse Optical Tomography** Borja Blanco | Manasa Rajashanker | Laura Carnevali | Maria Rozhko | Mark H Johnson | Sarah Lloyd-Fox
- 253. Semantic memory for brand-name products: The view from tensor decomposition of the fNIRS signal** Terrence Matthew Barnhardt | Jasmine Y. Chana | Teresa Wilcox | Behnaz Ghoraani
- 254. fNIRS Short Channel Regression Improves Cortical Activation Estimates of Working Memory Load** Jiahui An | D. Wyser | A.R. Luft. | C. Awai Easthope | J.G. Schönhammer
- 255. fnirsPy: A Sufficient, Easy, and Flexible fNIRS Data Processing Pipeline Library** Pulkit Goyal | Jiahui An | D. Wyser | A.R. Luft. | C. Awai Easthope | J.G. Schönhammer

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- 257. Neural Correlates of Multisensory Enhancement during Emotional Speech Perception in Bilingual and Monolingual Adults** Yixian Wang | Mairéad MacSweeney | Carly Anderson
- 258. Optical-imaging XNAT-enabled Informatics: an open-source platform for fNIRS data organization and processing** Yash Thacker | Emma Speh | Ari Segel | Dan Marcus | Muriah D. Wheelock | Adam Eggebrecht
- 259. Wearable Wireless NIRS Module for Resource-Constrained Settings** Saeed Samaei | Lee Sikstrom | David Holdsworth | Mamadou Diop
- 260. Data-informed Selective Channels DOT Prior for EEG Reconstruction Using Two Wavelengths** Yutian Qin | Jingyi Wu | Eli Bulger | Jiaming Cao | Hamid Dehghani | Barbara Shinn-Cunningham | Adam Eggebrecht | Jana Kainerstorfer
- 261. Impacts of Stress in Neural and Cardiorespiratory Responses Induced by Time-Restricted Arithmetics** Luis Felipe Bortoletto | Giovanni Grisotti Martins | Rickson C. Mesquita
- 262. A Novel Diagnostic Tool for Disorders of Consciousness using Riemannian Geometry** Lisa Bastian | Tim Näher | Anna Vorreuther | Amaia Benitez | Michael Lühns | Lars Riecke | Bettina Sorger

- 263. Exploring Motor Network Connectivity in Parkinson's Disease Using fNIRS** Samuel Montero-Hernandez | Edgar Guevara
- 264. Immediate Measurement of Placental Depth During Time Domain NIRS using Deep Learning** Jack Highton | Frederic Lange | Musa Talati | Dimitrios Airantzis | Temisan Ilwuke | Danial Chitnis | Niccole Ranaei-Zamani | Anna L David | Dimitrios Siassakos | Rosalind Aughwane | Sara Hillman | Kowobari Olayinka | Subhabrata Mitra | Ilias Tachtsidis
- 265. The Role of Social Interaction in Children's Learning of Abstract Concepts: an fNIRS Hyperscanning Study** Gal Rozic | Sara De Felice | Antonia Hamilton | Gabriella Vigliocco
- 266. MW FlexNIRS: Wearable, low-cost, LED-based, multi-wavelength NIRS oximeter for cytochrome c oxidase recovery in neonates** Nikola Otic | Kuan-Cheng Wu | Zachary Starkweather | Stefan Carp | Emily Herzberg | Maria Angela Franceschini | Marco Renna
- 267. Neural and Behavioral Co-Regulation among Mothers and their Toddlers: A Hyperscanning Study** Lindsay Taraban | Katie Mowatt | Judith K. Morgan
- 268. Comparison of Functional Intraoperative Optical and Pre-operative Magnetic Resonance Imaging in Resting-state and Task-based Procedures** De'Ja Rogers | W. J. O'Brien | Bernhard Zimmermann | Sudan Duwadi | Yiwen Zhang | Anna Kawai | Shrey Grover | Alexander von Lühmann | Robert Reinhart | David Boas | Kamal Sen | Meryem A. Yücel
- 269. Speaking and Listening Online to Live and Static Faces** Uzair Hakim | Natalie Gunasekara | Adam Noah | Xian Zhang | Antonia Hamilton | Ilias Tachtsidis | Joy Hirsch
- 270. How Lipstick Texture Deviations are Associated with the Right Prefrontal Cortex** Kazue Hirabayashi | Keith Kawabata Duncan | Keiko Tagai | Yasushi Kyutoku | Ippeita Dan
- 271. SurfNIRS: Surf Your fNIRS Data with Ease** Kevin Stubbs
- 272. Long-Term Continuous Monitoring of Aneurysmal Subarachnoid Hemorrhage using Diffuse Correlation Spectroscopy** Ailis Muldoon | Mitchell Robinson | Shakeeb Habash | Joanna Yang | John Sunwoo | Justin Gelman | Andrew Webb | Eric Rosenthal | Maria Angela Franceschini | David Y. Chung | Stefan Carp
- 273. High-density, multi-channel SCOS system** Byungchan Kim | Alexander C. Howard | Tom Cheng | Bernhard Zimmermann | Mitchell Robinson | Marco Renna | Maria Angela Franceschini | Stefan Carp | David Boas | Xiaojun Cheng
- 274. Training Materials and Documentation Methods in NeuroDOT, a Toolbox for Optical Brain Mapping** Ari Segel | Emma Speh | Yash Thacker | Adam Eggebrecht
- 275. Voxel-wise modeling of naturalistic auditory stimuli using very-high-density diffuse optical tomography** Morgan Fogarty | Wiete Fehner | Aahana Bajracharya | Jerry Tang | Zachary Markow | Jason Trobaugh | Alexander G. Huth | Joseph Culver
- 276. Towards Semantic Encoding of Visual Content in Movies via High-Density Diffuse Optical Tomography** Wiete Fehner | Morgan Fogarty | Aahana Bajracharya | Zachary Markow | Dana Wilhelm | Jason Trobaugh | Alexander G. Huth | Joseph Culver
- 277. SiPMs for Wearable Diffuse Optical Tomography** William T. Hamic | Edward J. Richter | Joseph Culver
- 278. High Density Diffuse Optical Tomography Reveals Differential Associations of Functional Connectivity During Motor Observation and Imitation with Social Reciprocity** Sung Min Park | Tessa G. George | Chloe M. Sobolewski | Sophia R. McMorro | Dalin Yang | Mary Beth Nebel | Bahar Tunçgenç | René Vidal | Natasha Marrus | Stewart H. Mostofsky | Adam Eggebrecht
- 279. Neonatal Brain Injury and the Development of Dynamic Functional Connectivity during Early Infancy** Ling kai Tang | Lilian M. N. Kebaya | Talal Altamimi | Alexandra Kowalczyk | Melab Musabi | Sriya Roychaudhuri | Homa Vahidi | Paige Meyerink | Sandrine de Ribaupierre | Soume Bhattacharya | Keith St. Lawrence | Emma G. Duerden
- 280. Fiber-less speckle contrast optical spectroscopy system using a multi-hole aperture method** Jimin Lee | Seongkwon Yu | Bumjun Koh | Yuqing Liang | Hyeon-Min Bae
- 281. Soundscapes of the Brain: Enabling Visual-Free Interpretation of fNIRS Data through Sonification** Edgar Guevara

- 282. Validation of and Large Vessel Occlusion Detection using the Openwater Cerebral Blood Flow Monitor** Arjun G. Yodh | Christopher G. Favilla | Soren Konecky | Ryan A. McTaggart | Grayson L. Baird | Kedar Grama | Sarah Carter | Wendy Smith | Rebecca Gitlevich | Alexa Lebron-Cruz | Wesley B. Baker | Michael T. Mullen | Brad Hartl
- 283. Investigating Awareness in Alzheimer's Disease with fNIRS** Garima Gupta | Matthew Kolisnyk | Karnig Kazazian | Rafeh Shahid | Diana Urian | Sergio Novi | Koula Pantazopoulos | Androu Abdalmalak | Jonathan D Huntley | Derek Debicki | Stephen H Pasternak | Adrian Owen
- 284. A wearable, super light and high-density fNIRS neuroimaging system** Hongfeng Duan | Tiecheng Gao | Zhen Yuan | Jinchao Feng | Nan Zhang | Xiaozhou Yan | Lin Lu | Gao Xiaorong
- 285. Detection of infant emotion regulation mechanisms during Still-Face Paradigm via fNIRS** Jessica Anderson | Hannah J. Spear | Muhammad H. Zaman | David Boas | Merym Yücel | Sohye Kim
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