Artinis NIRS Literature List

There are a vast number of publications on Near Infrared Spectroscopy. In this document we present some of the general literature on NIRS, on specific applications and literature utilizing the OxyMon, PortaMon or PortaLite system.

General, Introductory and Reviews


Haigh SM, Cooper NR, Wilkins AJ. Cortical excitability and the shape of the haemodynamic response. *Neuroimage*. 2015 Feb 24

Hua Li, Sungho Tak, Jong Chul Ye. Liposchitz-Killing curvature based expected Euler characteristics for p-value correction in fNIRS. *JPB Methods*. 2012 Feb 15;204(1):61-7.


Instrumentation and Algorithms, Comparison/Description


Haigh SM, Cooper NR, Wilkins AJ. Cortical excitability and the shape of the haemodynamic response. *Neuroimage*. 2015 Feb 24

Hua Li, Sungho Tak, Jong Chul Ye. Liposchitz-Killing curvature based expected Euler characteristics for p-value correction in fNIRS. *JPB Methods*. 2012 Feb 15;204(1):61-7.


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Van der Sluijs, MC, Colier, WNJM, Houston, RJ and Oeseburg, B. New and highly sensitive continuous-wave near-infrared spectrophotometer with multiple detectors. Proc SPIE. 1997; (3194): 63-72.


PortaMon /PortaLite wireless


de Maréès M, Markus Hein, Florence Correa, Tobias Alt, Raphael Jung, Heiner Schwartz, Joachim Mester. Predicting the time to exhaustion on different altitude levels by the tissue saturation index. *Science and Skiing 2013.*


Brain


Klaessens JH, Thijsen JM, Hopman JC, Lieu KM. Experimental verification of conditions for near infrared spectroscopy (NIRS). *Technol Health Care.* 2003;11(5-60).


van Beek AHEA, Sijbesma JC, Jansen RWMM, Olde Rikkert MGM, Claassen JAH. Cerebral oxygen supply during postural hypotension is further decreased in Alzheimer’s disease, but unrelated to cholinesterase-inhibitor use. Journal of Alzheimer's Disease. 2010; 215:19-526.


Functional NIRS


Coffey EBJ, Brouwer A, van Erp JBF. Measuring workload using a combination of electroencephalography and near infrared spectroscopy. *PROCEEDINGS OF THE HUMAN FACTORS and ERGONOMICS SOCIE TY 56th ANNUAL MEETING – 2012*


Dodd FL, Kennedy DO, Ribo LM, Haskell-Ramsay CF. A double-blind, placebo-controlled study evaluating the effects of caffeine and L-theanine both alone and in combination on cerebral blood flow, cognition and mood. *Psychopharmacology (Berl).* 2015

Ferreri L, Bigand E, Aucouturier J, Perrey S and Bugaiska A Less effort, better results: how does music act on prefrontal cortex in older adults during verbal encoding? An fNIRS study. *Frontiers in Human Neuroscience 1662-5161*

Grant H, Bambhani Y, Singhal A. Hemodynamic Changes in the Prefrontal Cortex during Working Memory in Essential Hypertension. Journal of the American Society of Hypertension 2015 June 02


Koenraadt KLM, Duysens J, Smeenk M, Keijzers NLW. Multichannel NIRS of the primary motor cortex to discriminate hand from foot activity. J. Neural Eng. 9 046010


Vermeij A, Meel-van den Abeelen AS, Kessels RP, van Beek AH, Claassen JA. Very-low-frequency oscillations of cerebral hemodynamics and blood pressure are affected by aging and cognitive load. *Neuroimage.* 2013 May 6


Brain and muscle


Periphery


Christensen C, Frithrup B, Larsen A, Petersen I. Local oxygenation in m. trapezius during computer mouse work in presence of DOMS. Bachelor project – Department of health sci and technology, Aalborg University, Denmark.


Wang JS, Lee MY, Lien HY, Weng TP. Hypoxic exercise training improves cardiac/muscular hemodynamics and is associated with modulated circulating progenitor cells in sedentary men. *Int J Cardiol* nov 12 2013.


**Urology**


Shadgan B, Macnab AJ. Using near infrared spectroscopy (NIRS) technology in a clinical setting to address an important issue. *J Trauma*. 2008; 65(6):1205.


Stothers L, Shadgan B, Macnab AJ. Near-infrared spectroscopy of the detrusor during urodynamics with simultaneous ultrasound measurements of bladder dimensions and position. *Biomedical Spectroscopy and Imaging*. 