

## PUBLICATIONS (Peer Reviewed)

- 2021 S.N. Grondhuis, A. Jimmy, C. Teague and **N.M. Brunet**. Having difficulties reading the facial expression of older individuals? Blame it on the facial muscles, not the wrinkles. *Frontiers in Psychology* 12, 1924 (2021).
- 2020 **N.M. Brunet** and J. Sharp. Do glasses modulate age perception? *i-Perception*, 11(4). (2020).
- 2019 **N.M. Brunet** and B. Jagadeesh. Familiarity with visual stimuli boosts recency bias in macaques. *PeerJ*, 7, e8105. (2019).
- 2019 **N.M. Brunet** and P. Fries. Human visual cortical gamma reflects stimulus structure. *Neuroimage* 200, 635-643. (2019).
- 2016 A. de Pestors, W.G. Coon, P. Brunner, A. Gunduz, A.L. Ritaccio, **N.M. Brunet**, ... & G. Schalk. Alpha power indexes task-related networks on large and small scales: A multimodal ECoG study in humans and a non-human primate. *Neuroimage* 134, 122-131. (2016).
- 2016 C.M. Lewis, C.A. Bosman, **N. Brunet**, B. Lima, M.J. Roberts, T. Wommeldorf, ... & P. Fries. Two frequency bands contain the most stimulus-related information in visual cortex. *bioRxiv*, 049718. (2016).
- 2014 A.S. Ghuman, **N.M. Brunet**, Y. Li, R.O. Konecky, J.A. Pyles, S.A. Walls, V. Destefino, W. Wang and R.M. Richardson. Dynamic encoding of face information in human fusiform. *Nature communications* 5. (2014).
- 2014 **N. Brunet**, M. Vinck, C.A. Bosman, W. Singer, and P. Fries. Gamma or no gamma that is the question. *Trends in Cognitive Science*, 18(10) 507-509. (2014).
- 2014 D.A. Pinotsis, **N.M. Brunet**, A. Bastos, V. Litvak, C.A. Bosman, P. Fries and K.J. Friston. Contrast gain-control and horizontal interactions in V1: a DCM study. *Neuroimage* 92, 143-155. (2014).
- 2014 **N.M. Brunet**, C.A. Bosman, M. Vinck, M. Roberts, P. Xiong, R. Oostenveld, R. Desimone, P. De Weerd and P. Fries. Stimulus repetition modulates gamma-band synchronization in primate visual cortex. *PNAS* 111(9), 3626-3631. (2014).
- 2014 **N.M. Brunet**, P.B. Chase, G. Mihajlovic, and B. Schoffstall. Ca<sup>2+</sup>-regulatory function of the inhibitory region of troponin T: Effects of familial hypertrophy mutations cTnI R145G and cTnT R278C, alone and in combination, on filament sliding. *Archives of Biochemistry and Biophysics* 552, 11-20. (2014).
- 2013 **N. Brunet**, C.A. Bosman, M.J. Roberts, R. Oostenveld, T. Womeldorf, P. De Weerd and P. Fries. Visual cortical gamma-band activity during free viewing of natural images. *Cerebral Cortex* (2013): bht280.

- 2013 M.J. Roberts, E. Lowet, **N. Brunet**, M. Ter Wal, P. Tiesinga, P. Fries, and P. De Weerd. Robust gamma coherence between macaque V1 and V2 by dynamic frequency-matching. *Neuron*, 78(3), 523-536
- 2012 C.A. Bosman, J.M. Schoffelen, **N. Brunet**, R. Oostenveld, A.M. Bastos, T. Womelsdorf, B. Rubehn, T. Stieglitz, P. De Weerd, and P. Fries. Attentional stimulus selection through selective synchronization between monkey visual areas. *Neuron*, 75, 875–888
- 2012 **N.M. Brunet**, G. Mihajlovic, K. Aledealat, F. Wang, P. Xiong, S. von Molnar, and P.B. Chase. Micromechanical Thermal Assays of Ca<sup>2+</sup>-regulated thin-filaments function and modulation by hypertrophic cardiomyopathy mutants of human cardiac troponin. *The Journal of Biomedicine and Biotechnology*, 2012:657523
- 2011 F. Wang, **N.M. Brunet**, J.R. Grubich, E.A. Bienkiewicz, T.M. Asbury, L.A. Compton, G. Mihajlovic, V.F. Miller, and P. B. Chase. Facilitated cross-bridge interactions with thin filaments by familial hypertrophic cardiomyopathy mutations in -tropomyosin. *The Journal of Biomedicine and Biotechnology*, 2011:435271
- 2011 B. Schoffstall, V.A. LaBarbera, **N.M. Brunet**, B.J. Gavino, L. Herring, S. Heshmati, B.H. Kraft, V. Inchausti, N.L. Meyer, D. Moonoo, A.K. Takeda, and P.B. Chase. Interaction between troponin and myosin enhances contractile activity of myosin in cardiac muscle. *DNA and Cell Biology*, 30(9):653–659
- 2010 M.T. Butcher, P.B Chase, J.W. Hermanson, A.N. Clark, **N.M. Brunet**, and J.E.A. Bertram. Contractile properties of muscle fibers from the deep and superficial digital flexors of horses. *J. Physiology*, 299: R996-R1005
- 2010 D. Moonoo, N.L. Meyer, V. Inchausti, **N.M. Brunet**, V.LaBarbara, and P.B. Chase “Molecular Function of the C-terminal Domain of Cardiac Troponin I”. *Biophysical Journal* 98 (3) 257a, 2010.
- 2008 P. B. Chase, **N.M. Brunet**, G. Mihajlovic, and P. Xiong. Molecular motor-based assays for altered nanomechanical function of Ca<sup>2+</sup>-regulatory proteins in cardiomyopathies, *Materials Research Society*, 1096-FF02-02 (2008)
- 2006 \*B. Schoffstall, \***N.M. Brunet**, V. Miller, S. Williams, A. Barnes, F. Wang, L.A. Compton, L. McFadden, D. Taylor, R. Dhanarajan, M. Seavy, and P.B. Chase. Ca<sup>2+</sup>-sensitivity of regulated cardiac thin filament sliding does not depend on myosin heavy chain isoform. *The Journal of Physiology*, 577:935-44. \*Contributed equally
- 2005 T.J. Grove, K.A. Puckett, **N.M. Brunet**, G. Mihajlovic, L.A. McFadden, P. Xiong, S. von Molnár, T.S. Moerland, and P.B. Chase. *Packaging actomyosin-based biomolecular motor-driven devices for nanoactuator applications. IEEE*, 28: 556-563.
- 2004 G. Mihajlovic, **N.M. Brunet**, J. Trbovic, P. Xiong<sup>1</sup>, S. von Molnár, and P. B. Chase. An all-electrical switching and control mechanism for actomyosin-powered nanoactuators. *Applied Physics Letters*, 85:1060-1062.