

## 2020 Publications – BMI Core Members

1. Baggs, E., Raja, V., & **Anderson, M.L.** (2020) Extended Skill Learning. *Frontiers in Psychology*, **11**, 1956.
2. Bellon, E., Fias, W., **Ansari, D.**, & De Smedt, B. (2020) The neural basis of metacognitive  
monitourt4M.337 0 1t sb52t4c3.1 (eu0 1)3. 1 sb52t4c3.1 (eu0 1)3. 1 sbt.1 (t)n(t1.1 (t)-1 Tw 5.133 0 Td (pt)-1.ht)-1.4

(2020) Cortical Thickness Estimation in Individuals With Cerebral Small Vessel Disease, Focal Atrophy, and Chronic Stroke Lesions. *Front Neurosci*, **14**, 598868.

14. Ramirez, J., Holmes, M.F., Scott, C.J.M., Ozzoude, M., Adamo, S., Szilagyi, G.M., Goubran, M., Gao, F., Arnott, S.R., Lawrence-Dewar, J.M., Beaton, D., Strother, S.C., Munoz, D.P., Masellis, M., Swartz, R.H., **Bartha, R.**, Symons, S., Black, S.E., & ONDRI Investigators (2020) Ontario Neurodegenerative Disease Research Initiative (ONDRI): Structural MRI Methods and Outcome Measures. *Front Neurol*, **11**, 847.
15. Wong, D., Atiya, S., Fogarty, J., Montero-Odasso, M., Pasternak, S.H., Brymer, C., Borrie, M.J., & **Bartha, R.** (2020) Reduced Hippocampal Glutamate and Posterior Cingulate N-Acetyl Aspartate in Mild Cognitive Impairment and Alzheimer's Disease Is Associated with Episodic Memory Performance and White Matter Integrity in the Cingulum: A Pilot Study. *J Alzheimers Dis*, **73**, 1385–1405.
16. **Batterink, L.** (2020) Syllables in Sync Form a Link: Neural Phase-locking Reflects Word Knowledge during Language Learning. *J. Cogn. Neurosci.*, **32**, 1735–1748.
17. Choi, D., **Batterink, L.J.**, Black, A.K., Paller, K.A., & Werker, J.F. (2020) Preverbal Infants Discover Statistical Word Patterns at Similar Rates as Adults: Evidence From Neural Entrainment. *Psychol. Sci.*, **31**, 1161 C h o e n t .







Psychol, 11, 588428.

87. Liu, P., Vandemeer, M.R.J., **Joanisse, M.F.**, Barch, D.M., Dozois, D.J.A., & **Hayden, E.P.** (2020) Depressogenic self-schemas are associated with smaller regional grey matter volume in never-depressed preadolescents. *Neuroimage Clin*, **28**, 102422.
88. Liu, P., Vandemeer, M.R.J., **Joanisse, M.F.**, Barch, D.M., Dozois, D.J.A., & **Hayden, E.P.** (2020) Neural Activity During Self-referential Processing in Children at Risk for Depression. *Biol Psychiatry Cogn Neurosci Neuroimaging*, **5**, 429–437.
89. Olino, T.M., Guerra-Guzman, K., **Hayden, E.P.**, & Klein, D.N. (2020) Evaluating maternal psychopathology biases in reports of child temperament: An investigation of measurement invariance. *Psychol Assess*, **32**, 1037–1046.
90. Olino, T.M., Nielsen, J.D., Case, J.A.C., **Hayden, E.P.**, Wojcieszak, Z., & Mennies, R.J. (2020) Matters arising from Blanchard, A. E., Dunn, T. J., & Sumich, A. (2020). Borderline personality traits in attractive women and wealthy low attractive men are relatively favoured by the opposite sex. *Personality and Individual Differences*, 109964. *Pers. Individ. Differ.*, **165**, 110123.
91. Stanton, K., McDonnell, C.G., **Hayden, E.P.**, & Watson, D. (2020) Transdiagnostic approaches to psychopathology measurement: Recommendations for measure selection, data analysis, and participant recruitment. *J Abnorm Psychol*, **129**, 21–28.
92. Vandemeer, M.R.J., Liu, P., Ali, O.M., Daoust, A.R., **Joanisse, M.F.**, Barch, D.M., & **Hayden, E.P.** (2020) Orbitofrontal cortex grey matter volume is related to children's depressive symptoms. *NeuroImage-Clin.*, **28**, 102395.
93. Friesen, D.C., Ward, O., Bohnet, J., Cormier, P., & **Jared, D.** (2020) Early Activation of Cross-Language Meaning From Phonology During Sentence Processing. *J. Exp. Psychol.-Learn. Mem. Cogn.*, **46**, 1754–1767.
94. Friesen, D.C., Whitford, V., Titone, D., & **Jared, D.** (2020) The impact of individual

differe-13.2 e Prr  
 © 5600 5700 602 6 (0.35% D) (83872.5 esbi C) (7.5) L 69 (032 Fr 5 (102395) 13 Tw (175)-12.3 (4) TJE TM 89 (ndi) Tw 7226170 WpEÓ #í ©

An Auditory-Perceptual and Pupillometric Study of Vocal Strain and Listening Effort in Adductor Spasmodic Dysphonia.



abnormalities around the epileptic focus in medically refractory epilepsy: implications for epilepsy surgical evaluation. *Eur J Hybrid Imaging*, **4**, 10.

116. Roseborough, A.D., Langdon, K.D., Hammond, R., Cipriano, L.E., Pasternak, S.H., Whitehead, S.N., & **Khan, A.R.** (2020) Post-mortem 7 Tesla MRI detection of white matter hyperintensities: A multidisciplinary voxel-wise comparison of imaging and histological correlates. *Neuroimage Clin*, **27**, 102340.
117. Song, G., Li, X., Munir, R., **Khan, A.R.**, Azhar, W., Yasin, M.U., Jiang, Q., Bancroft, I., & Gan, Y. (2020) The WRKY6 transcription factor affects seed oil accumulation and alters fatty acid compositions in *Arabidopsis thaliana*. *Physiol Plant*, **169**, 612–624.
118. DeKraker, J., Lau, J.C., Ferko, K.M., **Khan, A.R.**, & **Köhler, S.** (2020) Hippocampal subfields revealed through unfolding and unsupervised clustering of laminar and morphological features in 3D BigBrain. *Neuroimage*, **206**, 116328.
119. Geldsetzer, P., Bärnighausen, K., Hettema, A., McMahon, S.A., Dalal, S., Chase, R.P., Oldenburg, C.E., **Köhler, S.**, Chen, S., Dlamini, P., Mavuso, M., Hughey, A.B., Matse, S., & Bärnighausen, T. (2020) A stepped-wedge randomized trial and qualitative survey of HIV pre-exposure prophylaxis uptake in the Eswatini population. *Sci Transl Med*, **12**.
120. **Köhler, S.** & Martin, C.B. (2020) Familiarity impairments after anterior temporal-lobe resection with hippocampal sparing: Lessons learned from case NB. *Neuropsychologia*, **138**, 107339.
121. Yang, H. & **Köhler, S.** (2020) Global matching and fluency attribution in familiarity assessment. *Behav Brain Sci*, **42**, e303.
122. **Lomber, S.G.**, **Butler, B.E.**, Glick, H., & Sharma, A. (2020) Crossmodal Neuroplasticity in Deafness: Evidence from Animal Models and Clinical Populations, *Multisensory Perception: From Laboratory to Clinic*. Academic Press Ltd-Elsevier Science Ltd, London.
123. Bao, X., Salloum, A., Gordon, S.G., & **Lomber, S.G.** (2020) The limited capacity of visual temporal integration in cats. *J Vis*, **20**, 28.
124. Chen, X., Zirnsak, M., Vega, G.M., Govil, E., **Lomber, S.G.**, & Moore, T. (2020) Parietal Cortex Regulates Visual Saliency and Saliency-Driven Behavior. *Neuron*, **106**, 177-187.e4.
125. Al Jaja, A., **Grahn, J.A.**, Herrmann, B., & **MacDonald, P.A.** (2020) The effect of aging, *Brain*, **143**, 1121-1133.

130. Diez, A. & **Macdougall-Shackleton, S.A.** (2020) Neurogenesis and the development of neural sex differences in vocal control regions of songbirds. *Integr. Comp. Biol.*, **60**, E57–E57.
131. Diez, A. & **MacDougall-Shackleton, S.A.** (2020) Zebra finches go wild! Experimental cultural evolution of birdsong. *Behaviour*, **157**, 231–265.
132. Grieves, L.A., Bottini, C.L.J., Branfireun, B.A., Bernards, M.A., **MacDougall-Shackleton, S.A.**, & MacDougall-Shackleton, E.A. (2020) Food stress, but not experimental exposure to mercury, affects songbird preen oil composition. *Ecotoxicology*, **29**, 275–285.
133. Kelly, T.R., Boyer, A., Macdougall-Shackleton, E.A., & **Macdougall-Shackleton, S.A.** (2020) Experimental acute-phase immune activation in migratory sparrows has host-antigen specific effects on body mass and migratory restlessness. *Integr. Comp. Biol.*, **60**, E121–E121.
134. Kelly, T.R., Rubin, B.D., **MacDougall-Shackleton, S.A.**, & MacDougall-Shackleton, E.A. (2020) Experimental Malaria Infection Affects Songbirds' Nocturnal Migratory Activity.

- K., Desimone, R., Dragoi, V., Egger, S.W., Eldridge, M.A.G., El-Nahal, H.G., Fabbrini, F., Federer, F., Fetsch, C.R., Fortuna, M.G., Friedman, R.M., Fujii, N., Gail, A., Galvan, A., Ghosh, S., Gieselmann, M.A., Gulli, R.A., Hikosaka, O., Hosseini, E.A., Hu, X., Hüer, J., Inoue, K.-I., Janz, R., Jazayeri, M., Jiang, R., Ju, N., Kar, K., Klein, C., Kohn, A., Komatsu, M., Maeda, K., **Martinez-Trujillo, J.C.**, Matsumoto, M., Maunsell, J.H.R., Mendoza-Halliday, D., Monosov, I.E., Muers, R.S., Nurminen, L., Ortiz-Rios, M., O'Shea, D.J., Palfi, S., Petkov, C.I., Pojoga, S., Rajalingham, R., Ramakrishnan, C., Remington, E.D., Revsine, C., Roe, A.W., Sabes, P.N., Saunders, R.C., Scherberger, H., Schmid, M.C., Schultz, W., Seidemann, E., Senova, Y.-S., Shadlen, M.N., Sheinberg, D.L., Siu, C., Smith, Y., Solomon, S.S., Sommer, M.A., Spudich, J.L., Stauffer, W.R., Takada, M., Tang, S., Thiele, A., Treue, S., Vanduffel, W., Vogels, R., Whitmire, M.P., Wichmann, T., Wurtz, R.H., Xu, H., Yazdan-Shahmorad, A., Shenoy, K.V., DiCarlo, J.J., & Platt, M.L. (2020) An Open Resource for Non-human Primate Optogenetics. *Neuron*, **108**, 1075-1090.e6.
144. Yuste, R., Hawrylycz, M., Aalling, N., Aguilar-Valles, A., Arendt, D., Armañanzas, R., Ascoli, G.A., Bielza, C., Bokharaie, V., Bergmann, T.B., Bystron, I., Capogna, M., Chang, Y., Clemens, A., de Kock, C.P.J., DeFelipe, J., Dos Santos, S.E., Dunville, K., Feldmeyer, D., Fiáth, R., Fishell, G.J., Foggetti, A., Gao, X., Ghaderi, P., Goriounova, N.A., Güntürkün, O., Hagihara, K., Hall, V.J., Helmstaedter, M., Herculano-Houzel, S., Hilscher, M.M., Hirase, H., Hjerling-Leffler, J., Hodge, R., Huang, J., Huda, R., Khodosevich, K., Kiehn, O., Koch, H., Kuebler, E.S., Kühnemund, M., Larrañaga, P., Lelieveldt, B., Louth, E.L., Lui, J.H., Mansvelder, H.D., Marin, O., **Martinez-Trujillo, J.**, Chameh, H.M., Mohapatra, A.N., Munguba, H., Nedergaard, M., N mec, P., Ofer, N., Pfisterer, U.G., Pontes, S., Redmond, W., Rossier, J., Sanes, J.R., Scheuermann, R.H., Serrano-Saiz, E., Staiger, J.F., Somogyi, P., Tamás, G., Tolia, A.S., Tosches, M.A., García, M.T., Wozny, C., Wuttke, T.V., Liu, Y., Yuan, J., Zeng, H., & Lein, E. (2020) A community-based transcriptomics classification and nomenclature of neocortical cell types. *Nat Neurosci*, **23**, 1456–1468.
145. Manning, K.Y., Brooks, J.S., Dickey, J.P., Harriss, A., Fischer, L., Jevremovic, T., Blackney, K., Barreira, C., Brown, A., **Bartha, R.**, Doherty, T., Fraser, D., Holmes, J., Dekaban, G.A., & **Menon, R.S.** (2020) Longitudinal changes of brain microstructure and function in nonconcussed female rugby players. *Neurology*, **95**, e402–e412.
146. Oran, O.F., Klassen, L.M., Gilbert, K.M., Gati, J.S., & **Menon, R.S.** (2020) Elimination of low-inversion-efficiency induced artifacts in whole-brain MP2RAGE using multiple RF-shim configurations at 7 T. *NMR Biomed*, **33**, e4387.
147. Oran, O.F., Klassen, L.M., Serrai, H., & **Menon, R.S.** (2020) Demonstration and suppression of respiration-related artifacts in Bloch-Siegert shift-based B1 + maps of the human brain. *NMR Biomed*, **33**, e4299.
148. Schranz, A.L., Dekaban, G.A., Fischer, L., Blackney, K., Barreira, C., Doherty, T.J., Fraser, D.D., Brown, A., Holmes, J., **Menon, R.S.**, & **B** (2020) **0 Td** **T0 b8 (ar1 (n)12.4 (β o 3j-0.0.5 (w)1.9 ( (n)1(k)7 (h)D.**



165. Honarmand, K., Lalli, R.S., Priestap, F., Chen, J.L., McIntyre, C.W., **Owen, A.M.**, & Slessarev, M. (2020) Natural History of Cognitive Impairment in Critical Illness Survivors A Systematic Review. *Am. J. Respir. Crit. Care Med.*, **202**, 193–201.
166. Kazazian, K., Norton, L., Gofton, T.E., Debicki, D., & **Owen, A.M.** (2020) Cortical Function in Acute Severe Traumatic Brain Injury and at Recovery: A Longitudinal fMRI Case Study. *Brain Sci*, **10**.
167. Laforge, G., Gonzalez-Lara, L.E., **Owen, A.M.**, & Stojanoski, B. (2020) Individualized assessment of residual cognition in patients with disorders of consciousness. *Neuroimage Clin*, **28**, 102472.
168. Nichols, E.S., Wild, C.J., Stojanoski, B., Battista, M.E., & **Owen, A.M.** (2020) Bilingualism Affords No General Cognitive Advantages: A Population Study of Executive Function in 11,000 People. *Psychol Sci*, **31**, 548–567.
169. **Owen, A.M.** (2020) Improving diagnosis and prognosis in disorders of consciousness. *Brain*, **143**, 1050–1053.
170. Peterson, A., **Owen, A.M.**, & Karlawish, J. (2020) Alive inside. *Bioethics*, **34**, 295–305.
171. Peterson, A., **Owen, A.M.**, & Karlawish, J. (2020) Translating the Discovery of Covert Consciousness Into Clinical Practice. *JAMA Netw J*.

Beta Bursts in Health and Psychosis: A Concurrent Electroencephalography and Functional Magnetic Resonance Imaging Study. *Biol Psychiatry Cogn Neurosci Neuroimaging*, 2020 Nov 5;S2451-9022(20)30322-0.

180. Burhan, A.M., Patience, J.A., Teselink, J.G.P., Marlatt, N.M., Babapoor-Farrokhran, S., & **Palaniyappan, L.** (2020) Bilateral set-12.2 (lap)-59.3 (l)3.2 ( s)-8.15a. (2020.log.3 ( l)-8.9 (t)-1.13 (gi)-mu1.1 (G)-7.1

episode psychosis. *Hippocampus*, **30**, 1058–1072.

192. Ologundudu, O.M., Lau, T., **Palaniyappan, L.**, Ali, S., & Anderson, K.K. (2020) Interventions for people at ultra-high risk for psychosis: A systematic review of economic evaluations. *Early Interv Psychiatry*, 2021 Oct;15(5):1115-1126. doi: 10.1111/eip.13061.

193. **Palaniyappan, L.**, Al-Radaideh, A., Gowland, P.A., & Liddle, P.F. (2020) Cortical thickness and formal thought disorder in schizophrenia: An ultra high-field network-based morphometry study. *Prog Neuropsychopharmacol Biol Psychiatry*, **101**, 109911.

194. **Palaniyappan, L.** & Krishnadas, R. (2020) Treatment delay in early psychosis: not a linear problem. *Lancet Psychiatry*, **7**, 563–565.

195. **Palaniyappan, L.** & Sukumar, N. (2020) Reconsidering brain tissue changes as a mechanistic focus for early intervention in psychiatry. *J Psychiatry Neurosci*, **44**, 373–378.

196. Pan, Y., Pu, W., Chen, X., Huang, X., Cai, Y., Tao, H., Xue, Z., Mackinley, M., Limongi, R., Liu, Z., & **Palaniyappan, L.** (2020) Morphological Profiling of Schizophrenia: Cluster Analysis of MRI-Based Cortical Thickness Data. *Schizophr Bull*, **46**, 623–632.

197. Papini, C., **Palaniyappan, L.**, Kroll, J., Froudust-Walsh, S., Murray, R.M., & Nosarti, C. (2020) Altered Cortical Gyrfication in Adults Who Were Born Very Preterm and Its Associations With Cognition and Mental Health. *Biol Psychiatry Cogn Neurosci Neuroimaging*, **5**, 640–650.

198. Rathnaiah, M., Liddle, E.B., Gascoyne, L., Kumar, J., Zia Ul Haq Katshu, M., Faruqi, C., Kelly, C., Gill, M., Robson, S., Brookes, M., **Palaniyappan, L.**, Morris, P., & Liddle, P.F. (2020) Quantifying the Core Deficit in Classical Schizophrenia. *Schizophr Bull Open*, **1**, sgaa031.

199. Ruan, H., Luo, Q., **Palaniyappan, L.**, Lu, W., Huang, C.-C., Zac Lo, C.-Y., Yang, A.C., Liu, M.-E., Tsai, S.-J., Lin, C.-P., & Feng, J. (2020) Topographic diversity of structural connectivity in schizophrenia. *Schizophr Res*, **215**, 181–189.

200. Sabesan, P. & **Palaniyappan, L.** (2020) Therapeutic abstinence in the treatment of depression in first-episode psychosis. *J Psychiatry Neurosci*, **44**, 441–442.

201. Sukumar, N., Sabesan, P., Anazodo, U., & **Palaniyappan, L.** (2020) Neurovascular Uncoupling in Schizophrenia: A Bimodal Meta-Analysis of Brain Perfusion and Glucose Metabolism. *Front Psychiatry*, **11**, 754.

202. Tan, W., Liu, Z., Xi, C., Deng, M., Long, Y., **Palaniyappan, L.**, & Yang, J. (2020) Decreased integration of the frontoparietal network during a working memory task in major depressive disorder. *Aust N Z J Psychiatry*, 4867420978284.

203. Umeh, A., Kumar, J., Francis, S.T., Liddle, P.F., & **Palaniyappan, L.** (2020) Global fMRI signal at rest relates to symptom severity in schizophrenia. *Schizophr Res*, **220**, 281–282.

204. Wei, W., Zhang, Y., Li, Y., Meng, Y., Li, M., Wang, Q., & Li, D. (2020) The relationship between brain network connectivity and cognitive function in schizophrenia. *Schizophr Res*, **220**, 281–282.





for the delivery of non-ablative electric fields in intratumoral modulation therapy. *Med Phys*, **47**, 5441–5454.

222. Möhrle, D., Fernández, M., Peñagarikano, O., Frick, A., Allman, B., & **Schmid, S.** (2020) What we ca

Consciousness Impairment. *Brain Connect*, **10**, 83–94.

236. Pelizzo, G., Cardinali, L., Bonanno, L., Marino, S., Cavaliere, C., Aiello, M., Bramanti, P., Mazzone, E., **Soddu, A.**, & Calcaterra, V. (2020) Training Skills in Minimally Invasive, Robotic and Open Surgery: Brain Activation as an Opportunity for Learning. *Eur Surg Res*, **61**, 34–50.

237. Brierley, N.J., McDonnell, C.G., Parks, K.M.A., Schulz, S.E., Dalal, T.C., Kelley, E., Anagnostou, E., Nicolson, R., Georgiades, S., Crosbie, J., Schachar, R., Liu, X., & **Stevenson, R.A.** (2020) Factor Structure of Repetitive Behaviors Across Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder. *J Autism Dev Disord*, 2021 Oct;51(10):3391-3400. doi: 10.1007/s10803-020-04800-0. Epub 2020 Nov 24.

238. Lyons, K.M., **Stevenson, R.A.**, **Owen, A.M.**, & Stojanoski, B. (2020) Examining the relationship between measures of autistic traits and neural synchrony during movies in children with and without autism. *NeuroImage-Clin.*, **28**, 102477.

239. McDonnell, C.G., DeLucia, E.A., **Hayden, E.P.**, Anagnostou, E., Nicolson, R., Kelley, E., Georgiades, S., Liu, X., & **Stevenson, R.A.** (2020) An Exploratory Analysis of Predictors of Youth Suicide-310240350.Toc912w115es.20870023igiwEsDes3Y0431532770T40Tw.3.9527836(Tj3.0409d(F)