

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 monitoring during arithmetic in the developing brain. *Hum Brain Mapp*, **41**, 4562–4573.
3. Brault Foisy, L.-M., Matejko, A.A., **Ansari, D.**, & Masson, S. (2020) Teachers as Orchestrators of Neuronal Plasticity: Effects of Teaching Practices on the Brain. *Mind Brain Educ.*, **14**, 415–428.
4. Goffin, C., Vogel, S.E., Slipenkyj, M., & **Ansari, D.** (2020) A comes before B, like 1 comes before 2. Is the parietal cortex sensitive to ordinal relationships in both numbers and letters? An fMRI-adaptation study. *Hum Brain Mapp*, **41**, 1591–1610.
5. Hawes, Z. & **Ansari, D.** (2020) What explains the relationship between spatial and mathematical skills? A review of evidence from brain and behavior. *Psychon. Bull. Rev.*, **27**, 465–482.
6. Hutchison, J.E., **Ansari, D.**, Zheng, S., De Jesus, S., & Lyons, I.M. (2020) The relation between subitizable symbolic and non-symbolic number processing over the kindergarten school year. *Dev Sci*, **23**, e12884.
7. Smyth, R.E. & **Ansari, D.** (2020) Do infants have a sense of numerosity? A p-curve analysis of infant numerosity discrimination studies. *Dev Sci*, **23**, e12897.
8. Wilkey, E.D. & **Ansari, D.** (2020) Challenging the neurobiological link between number sense and symbolic numerical abilities. *Ann N Y Acad Sci*, **1464**, 76–98.
9. Yeo, D.J., Pollack, C., Merkley, R., **Ansari, D.**, & Price, G.R. (2020) The “Inferior Temporal Numeral Area” distinguishes numerals from other character categories during passive viewing: A representational similarity analysis. *Neuroimage*, **214**, 116716.
10. Goncalves, D.F., Guzman, M.S., Gros, R., Massensini, A.R., **Bartha, R.**, Prado, V.F., & Prado, M.A.M. (2020) Striatal Acetylcholine Helps to Preserve Functional Outcomes in a Mouse Model of Stroke. *ASN Neuro*, **12**, 1759091420961612.
11. Kapoor, A., **Bartha, R.**, Black, S.E., Borrie, M., Freedman, M., Gao, F., Herrmann, N., Mandzia, J., Ozzoude, M., Ramirez, J., Scott, C.J.M., Symons, S., Fischer, C.E., Frank, A., Seitz, D., Wolf, M.U., Verhoeff, N.P.L.G., Naglie, G., Reichman, W., Masellis, M., Mitchell, S.B., Tang-Wai, D.F., Tartaglia, M.C., Kumar, S., Pollock, B.G., Rajji, T.K., Finger, E., Pasternak, S.H., ONDRI Investigators, & Swartz, R.H. (2020) Structural Brain Magnetic Resonance Imaging to Rule Out Comorbid Pathology in the Assessment of Alzheimer’s Disease Dementia: Findings from the Ontario Neurodegenerative Disease Research Initiative (ONDRI) Study and Clinical Trials Over the Past 10 Years. *J Alzheimers Dis*, **74**, 747–757.
12. Oliver, L.D., Stewart, C., Coleman, K., Kryklywy, J.H., **Bartha, R.**, **Mitchell, D.G.**, & Finger, E.C. (2020) Neural effects of oxytocin and mimicry in frontotemporal dementia A randomized crossover study. *Neurology*, **95**, E2635–E2647.
13. Ozzoude, M., Ramirez, J., Raamana, P.R., Holmes, M.F., Walker, K., Scott, C.J.M., Gao, F., Goubran, M., Kwan, D., Tartaglia, M.C., Beaton, D., Saposnik, G., Hassan, A., Lawrence-Dewar, J., Dowlatshahi, D., Strother, S.C., Symons, S., **Bartha, R.**, Swartz, R.H., & Black, S.E.

(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**, 1161–1173.
18. Fisher, B.M., **Saksida, L.M.**, Robbins, T.W., & **Bussey, T.J.** (2020) Functional Dissociations Between Subregions of the Medial Prefrontal Cortex on the Rodent Touchscreen Continuous Performance Test (rCPT) of Attention. *Behav. Neurosci.*, **134**, 1–14.
19. Kim, E., White, M.A., Phillips, B.U., Lopez-Cruz, L., Kim, H., Heath, C.J., Lee, J.E., **Saksida, L.M.**, Sreedharan, J., & **Bussey, T.J.** (2020) Coexistence of perseveration and apathy in the TDP-43(Q331K) knock-in mouse model of ALS-FTD. *Transl. Psychiatr.*, **10**, 377.
20. **Butler, B.** (2020) Today: An Annotation of Molly Brodak's "Day." *GA. Rev.*, **74**, 940–942.
21. Levine, A.T., Li, B., Barnes, P., **Lomber, S.G.**, & **Butler, B.E.** (2020) Assessment of anesthesia on physiological stability and BOLD signal reliability during visual or acoustic stimulation in the cat. *J Neurosci Methods*, **334**, 108603.
22. Attaran, A., Handler, W.B., & **Chronik, B.A.** (2020) 2 mm Radius Loop Antenna and Linear Active Balun for Near Field Measurement of Magnetic Field in MRI-Conditional Testing of Medical Devices. *IEEE Trans. Electromagn. Compat.*, **62**, 186–193.
23. Charland-Verville, V., de Paula, D.R., Martial, C., Cassol, H., Antonopoulos, G., **Chronik, B.A.**, **Soddu, A.**, & Laureys, S. (2020) Characterization of near death experiences using text mining analyses: A preliminary study. *PLoS One*, **15**, e0227402.
24. Halder, A., Attaran, A., Handler, W.B., & **Chronik, B.A.** (2020) Electric Field Probe Used for Gradient Coil-Induced Field Measurements During Medical Device Testing: Design, Calibration, and Validation. *IEEE Trans. Antennas Propag.*, **68**, 4029–4037.
25. Handler, W.B., Bindseil, G., Chaddock, R., Dalrymple, B., Gati, J.S., Gilbert, K.M., Harris, C.T., Klassen, M.L., Peterson, J., Van Sas, F., & **Chronik, B.A.** (2020) Design and construction of a gradient coil for high resolution marmoset imaging. *Biomed Phys Eng Express*, **6**, 045022.
26. Lessard, E.J., Handler, W.B., & **Chronik, B.A.** (2020) Development of An MRI Gradient Coil for Use in a Compact Head-Only MRI Platform Capable of Imaging C7 and Below. *Med. Phys.*, **47**, E527–E527.

27. Sakhr, J. & **Chronik, B.A.** (2020) Constructing Separable Non-2 π -Periodic Solutions to the Navier-Lame Equation in Cylindrical Coordinates Using the Buchwald Representation: Theory and Applications. *Adv. Appl. Math. Mech.*, **12**, 694–728.
28. Sakhr, J. & **Chronik, B.A.** (2020) Parametric linear vibration response studies for longitudinal whole-body gradient coils: Theoretical predictions based on an exact linear elastodynamic model. *Magn. Reson. Imaging*, **65**, 75–82.
29. Dash, S., Peel, T.R., **Lomber, S.G.**, & **Corneil, B.D.** (2020) Impairment but not abolishment of express saccades after unilateral or bilateral inactivation of the frontal eye fields. *J. Neurophysiol.*, **123**, 1907–1919.
30. Kozak, R.A., Cecala, A.L., & **Corneil, B.D.** (2020) An Emerging Target Paradigm to Evoke Fast Visuomotor Responses on Human Upper Limb Muscles. *J. Vis. Exp.*, e61428.
31. Peel, T.R., Dash, S., **Lomber, S.G.**, & **Corneil, B.D.** (2020) Frontal eye field inactivation alters the readout of superior colliculus activity for saccade generation in a task-dependent manner. *J Comput Neurosci*, **49**, 3, 229-249.
32. Monaco, S., Malfatti, G., **Culham, J.C.**, Cattaneo, L., & Turella, L. (2020) Decoding motor imagery and action planning in the early visual cortex: Overlapping but distinct neural mechanisms. *Neuroimage*, **218**, 116981.
33. Sensoy, Ö., **Culham, J.C.**, & Schwarzer, G. (2020) Do infants show knowledge of the familiar size of everyday objects? *J Exp Child Psychol*, **195**, 104848.
34. Witt, J.K., Kemmerer, D., Linkenauger, S.A., & **Culham, J.C.** (2020) Reanalysis Suggests Evidence for Motor Simulation in Naming Tools Is Limited: A Commentary on Witt, Kemmerer, Linkenauger, and Culham (2010). *Psychol Sci*, **31**, 1036–1039.
35. Brock Fenton, M., Streicker, D.G., Racey, P.A., Tuttle, M.D., Medellin, R.A., **Daley, M.J.**, Recuenco, S., & Bakker, K.M. (2020) Knowledge gaps about rabies transmission from vampire bats to humans. *Nat Ecol Evol*, **4**, 517–518.
36. Fraser, D.D., Cepinkas, G., Patterson, E.K., Slessarev, M., Martin, C., **Daley, M.**, Patel, M.A., Miller, M.R., O’Gorman, D.B., Gill, S.E., Pare, G., Prassas, I., & Diamandis, E. (2020) Novel Outcome Biomarkers Identified With Targeted Proteomic Analyses of Plasma From Critically Ill Coronavirus Disease 2019 Patients. *Crit Care Explor*, **2**, e0189.
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38. Fraser, D.D., Slessarev, M., Martin, C.M., **Daley, M.**, Patel, M.A., Miller, M.R., Patterson, E.K., O’Gorman, D.B., Gill, S.E., Wishart, D.S., Mandal, R., & Cepinkas, G. (2020) Metabolomics Profiling of Critically Ill Coronavirus Disease 2019 Patients: Identification of Diagnostic and Prognostic Biomarkers. *Crit Care Explor*, **2**, e0272.
39. Harriss, A.B., Abbott, K.C., Humphreys, D., **Daley, M.**, Moir, M.E., Woehrle, E., Balestrini, C.S., Fischer, L.K., Fraser, D.D., & Shoemaker, J.K. (2020) Concussion Symptoms Predictive of Adolescent Sport-Related Concussion Injury. *Clin. J. Sport Med.*, **30**, E147–E149.
40. Lawson COVID19 Study Team, Gill, S.E., dos Santos, C.C., O’Gorman, D.B., Carter, D.E., Patterson, E.K., Slessarev, M., Martin, C., **Daley, M.**, Miller, M.R., Cepinkas, G., & Fraser, D.D. (2020) Transcriptional profiling of leukocytes in critically ill COVID19 patients: implications for interferon response and coagulation. *ICMx*, **8**, 75.

41. Arbuckle, S.A., Weiler, J., Kirk, E.A., Rice, C.L., Schieber, M., **Pruszynski, J.A.**, Ejaz, N., & **Diedrichsen, J.** (2020) Structure of Population Activity in Primary Motor Cortex for Single Finger Flexion and Extension. *J Neurosci*, **40**, 9210–9223.
42. Ariani, G., Kwon, Y.H., & **Diedrichsen, J.** (2020) Repetita iuvant: repetition facilitates online planning of sequential movements. *J Neurophysiol*, **123**, 1727–1738.
43. Berlot, E., Popp, N.J., & **Diedrichsen, J.** (2020) A critical re-evaluation of fMRI signatures of motor sequence learning. *Elife*, **9**, e55241.
44. Espenhahn, S., Rossiter, H.E., van Wijk, B.C.M., Redman, N., Rondina, J.M., **Diedrichsen, J.**, & Ward, N.S. (2020) Sensorimotor cortex beta oscillations reflect motor skill learning ability after stroke. *Brain Commun.*, **2**, 161.
45. Hernandez-Castillo, C.R., Maeda, R.S., **Pruszynski, J.A.**, & **Diedrichsen, J.** (2020) Sensory information from a slipping object elicits a rapid and automatic shoulder response. *J Neurophysiol*, **123**, 1103–1112.
46. Popp, N.J., Yokoi, A., **Gribble, P.L.**, & **Diedrichsen, J.** (2020) The effect of instruction on motor skill learning. *J Neurophysiol*, **124**, 1449–1457.
47. Sereno, M.I., **Diedrichsen, J.**, Tachrount, M., Testa-Silva, G., d'Arceuil, H., & De Zeeuw, C. (2020) The human cerebellum has almost 80% of the surface area of the neocortex. *Proc Natl Acad Sci U S A*, **117**, 19538–19543.
48. **Duerden, E.G.**, Chakravarty, M.M., Lerch, J.P., & Taylor, M.J. (2020) Sex-Based Differences in Cortical and Subcortical Development in 436 Individuals Aged 4-54 Years. *Cereb. Cortex*, **30**, 2854–2866.
49. **Duerden, E.G.**, Grunau, R.E., Chau, V., Groenendaal, F., Guo, T., Chakravarty, M.M., Benders, M., Wagenaar, N., Eijsemans, R., Koopman, C., Synnes, A., Vries, L. de, & Miller, S.P. (2020) Association of early skin breaks and neonatal thalamic maturation: A modifiable risk? *Neurology*, **95**, e3420–e3427.
50. **Duerden, E.G.** & Miller, S.P. (2020) Pain in the newborn brain: a neural signature. *Lancet Digit. Health*, **2**, E442–E443.
51. **Duerden, E.G.** & Thompson, D.K. (2020) Can you see what I see? Assessing brain maturation and injury in preterm and term neonates. *Brain*, **143**, 383–386.
52. Faieghi, M., Atashzar, S.F., Tutunea-Fatan, O.R., & **Eagleson, R.** (2020) Parallel Haptic Rendering for Orthopedic Surgery Simulators. *IEEE Robot. Autom. Lett.*, **5**, 6388–6395.
53. Faieghi, M., Tutunea-Fatan, O.R., & **Eagleson, R.** (2020) Parallelized collision detection with applications in virtual bone machining. *Comput Methods Programs Biomed*, **188**, 105263.
54. Goldberg, E., McKenzie, C.A., de Vrijer, B., **Eagleson, R.**, & de Ribaupierre, S. (2020) Fetal Response to a Maternal Internal Auditory Stimulus. *J Magn Reson Imaging*, **52**, 139–145.
55. Lo, M., Kishimoto, J., **Eagleson, R.**, Bhattacharya, S., & de Ribaupierre, S. (2020) Does ventricular volume affect the neurodevelopmental outcome in infants with intraventricular hemorrhage? *Childs Nerv Syst*, **36**, 569–575.
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Assist Radiol Surg, **15**, 749–757.

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58. Zaika, O., Boulton, M., **Eagleson, R.**, & de Ribaupierre, S. (2020) Simulation reduces navigational errors in cerebral angiography training. *Adv Simul (Lond)*, **5**, 10.
59. Zaika, O., Boulton, M., **Eagleson, R.**, & de Ribaupierre, S. (2020) Surgical Workflow Analysis in Cerebral Aneurysm Coiling. *Faseb J.*, **34**.
60. Adam, R., Johnston, K., **Menon, R.S.**, & **Everling, S.** (2020) Functional reorganization during the recovery of contralesional target selection deficits after prefrontal cortex lesions in macaque monkeys. *Neuroimage*, **207**, 116339.
61. Cléry, J.C., Hori, Y., Schaeffer, D.J., Gati, J.S., **Pruszynski, J.A.**, & **Everling, S.** (2020) Whole brain mapping of somatosensory responses in awake marmosets investigated with ultra-high-field fMRI. *J Neurophysiol*, **124**, 1900–1913.
62. Cléry, J.C., Schaeffer, D.J., Hori, Y., Gilbert, K.M., Hayrynen, L.K., Gati, J.S., **Menon, R.S.**, & **Everling, S.** (2020) Looming and receding visual networks in awake marmosets investigated with fMRI. *Neuroimage*, **215**, 116815.
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64. Hori, Y., Schaeffer, D.J., Gilbert, K.M., Hayrynen, L.K., Cléry, J.C., Gati, J.S., **Menon, R.S.**, & **Everling, S.** (2020) Altered Resting-State Functional Connectivity Between Awake and Isoflurane Anesthetized Marmosets. *Cereb Cortex*, **30**, 5943–5959.
65. Hori, Y., Schaeffer, D.J., Gilbert, K.M., Hayrynen, L.K., Cléry, J.C., Gati, J.S., **Menon, R.S.**, & **Everling, S.** (2020) Comparison of resting-state functional connectivity in marmosets with tracer-based cellular connectivity. *Neuroimage*, **204**, 116241.
66. Hori, Y., Schaeffer, D.J., Yoshida, A., Cléry, J.C., Hayrynen, L.K., Gati, J.S., **Menon, R.S.**, & **Everling, S.** (2020) Cortico-Subcortical Functional Connectivity Profiles of Resting-State Networks in Marmosets and Humans. *J Neurosci*, **40**, 9236–9249.
67. Schaeffer, D.J., Hori, Y., Gilbert, K.M., Gati, J.S., **Menon, R.S.**, & **Everling, S.** (2020) Divergence of rodent and primate medial frontal cortex functional connectivity. *Proc Natl Acad Sci U S A*, **117**, 21681–21689.
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71. Whitwell, R.L., Katz, N.J., **Goodale, M.A.**, & Enns, J.T. (2020) The Role of Haptic Expectations in Reaching to Grasp: From Pantomime to Natural Grasps and Back Again. *Front*

Psychol, **11**, 588428.

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74. Ganel, T., Ozana, A., & **Goodale, M.A.** (2020) When perception intrudes on 2D grasping: evidence from Garner interference. *Psychol Res*, **84**, 2138–2143.
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79. Baker, D.J., Belfi, A., Creel, S., **Grahn, J.**, Hannon, E., Margulis, E.H., Schachner, A., Schutz, M., Shanahan, D., & Vuvan, D.T. (2020) Embracing Anti-Racist Practices in the Music Perception and Cognition Community. *Music Percept.*, **38**, 103–105.
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82. Rose, D., Cameron, D.J., Lovatt, P.J., **Grahn, J.A.**, & Annett, L.E. (2020) Comparison of Spontaneous Motor Tempo during Finger Tapping, Toe Tapping and Stepping on the Spot in People with and without Parkinson's Disease. *J Mov Disord*, **13**, 47–56.
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