Western
The Brain and Mind Institute

2013 PUBLICATONS

All peer-reviewed publications listed are submitted by BMI core members.

1. Archibald, L., Cardy, J.O., **Joanisse, M.F.** & **Ansari, D.** (2013). Language, Reading, and Math Learning Profiles in an Epidemiological Sample of School Age Children, *PLoS ONE,* Oct 14;8(10):e77463.

2. De Smedt, B., Noel, M.P., Gilmore, C. & **Ansari, D.** (2013). The relationship between symbolic and non-symbolic numerical magnitude processing and the typical and atypical development of mathematics: a review of evidence from brain and behavior. *Trends in Neuroscience and Education*, 2, 48-55.

3. Nosworthy, N., Bugden, S. Archibald, L.A., Evans, B. & **Ansari, D.** (2013). A two-minute paper and pencil test of symbolic and nonsymbolic numerical magnitude processing explains variability in primary school children's arithmetic competence. *PLoS ONE*, Jul 2; 8(7):e67918.

4. Vogel, S.E., Grabner, R.H., Schneider, M., Siegler, R.S. & **Ansari, D.** (2013). Overlapping and distinct brain regions involved in estimating the spatial position of numerical and non-numerical magnitudes: An fMRI study. *Neuropsychologia*, 13, 979-989.

5. Grabner, R.H., **Ansari, D.**, Koschutnig, K., Reishofer, G. & Ebner, F. (2013). The function of the left angular gyrus in mental arithmetic: Evidence from the associative confusion effect. *Human Brain Mapping,* 34, 1013-24.

6. Price, G.R., Mazzocco, M.M. & **Ansari, D.** (2013). Why mental arithmetic counts: Brain activation during single digit arithmetic predicts high-school math scores. *Journal of Neuroscience*, 33, 156-63.

7. Holloway, I.D., Vogel, S.E., Battista, C. & **Ansari, D.** (2013). Semantic and perceptual processing of number symbols: Evidence from a cross-linguistic fMRI adaptation study. *Journal of Cognitive Neuroscience*, 25, 388-400.

8. Matejko, A., Price, G.R., Mazzocco, M.M. & **Ansari, D.** (2013). Individual differences in left parietal white matter predict math scores on the Preliminary Scholastic Aptitude Test. *NeuroImage*, 66, 604-610.

9. Price, G.R. & **Ansari, D.** (2013). Dyscalculia: Characteristics, causes and treatments. *Numeracy*, Vol. 6, Article 2.

10. **Ansari, D.** & Vogel, S.E. (2013). Cognitive neuroscience of numerical cognition. In K. Ochsner & S. Kosslyn (Eds.) *Oxford Handbook of Cognitive Neuroscience*, Volume 2: The Cutting Edges. Oxford: Oxford University Press.

11. **Ansari, D.** (2013). The emergence of a multi-level approach to the study of skill acquisition and expertise. In J.J. Staszewski (Ed.), *Expertise and Skill Acquisition: The impact of William G. Chase*. Psychology Press, 325-33.

12. Price, G.R. & **Ansari, D.** (2013). Dyscalculia. In Dulac, O. & Lassonde, M. (Eds.) *Handbook of Clinical Neurology*, Elsevier, London, 111, 241-4.

13. Bernier, D., Cookey, J., McAllindon, D., **Bartha, R.**, Hanstock, C.C., Newman, A.J., Stewart, S.H. & Tibbo, P.G. (2013). Multimodal neuroimaging of frontal white matter microstructure in early phase schizophrenia: the impact of early adolescent cannabis use. *BMC Psychiatry*, 2013; 13: 264. Published online 2013 October 17. doi: 10.1186/1471-244X-13-264 PMCID: PMC3852698.

14. Kolisnyk, B., Al-Onaizi, M.A., Hirata, P.H., Guzman, M.S., Nikolova, S., Barbash, S., Soreq, H., **Bartha, R.**, Prado, M.A. & Prado, V.F. (2013). Forebrain deletion of the vesicular acetylcholine transporter results in deficits in executive function, metabolic, and RNA splicing abnormalities in the prefrontal cortex. J Neurosci. 2013 Sep 11; 33(37):14908-20. doi: 10.1523/JNEUROSCI.1933-13.2013. PMID: 24027290.

15. Beauchet, O., Celle, S., Roche, F., **Bartha, R.**, Montero-Odasso, M., Allali, G. & Annweiler, C. (2013). Blood pressure levels and brain volume reduction: a systematic review and meta-analysis. *J Hypertens*, Aug; 31(8):1502-16. doi: 10.1097/HJH.0b013e32836184b5. Review. Erratum in: J Hypertens. 2013 Oct; 31(10):2106. PMID: 23811995.

16. Annweiler, C., Beauchet, O., **Bartha, R.**, Graffe, A., Milea, D. & Montero-Odasso, M. (2013). Association between serum 25-hydroxyvitamin D concentration and optic chiasm volume. *J Am Geriatr Soc.,* 2013 Jun; 61(6):1026-8. doi: 10.1111/jgs.12249. No abstract available. PMID: 23772728.

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21. Annweiler, C., Montero-Odasso, M., Hachinski, V., Seshadri, S., **Bartha, R.** & Beauchet, O. (2013). Vitamin D concentration and lateral cerebral ventricle volume in older adults. *Mol Nutr Food Res.,* 2013 Feb; 57(2):267-76. doi: 10.1002/mnfr.201200418. Epub 2012 Dec 20. PMID: 23281306.

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