

2011 PUBLICATIONS

All peerreviewed publications listed are submitted by BMI core members.

1. Ansari, D, Grabner, R.H., Koschutnig, K., Reishofer, G. & Ebner, F. (2011). Individual differences in mathematical competence modulate brain responses to arithmetic errors. *Learning and Individual Differences* (Special Issue: 'Educational Neuroscience'), 21(6), 336-35.
2. Price, G.R. & Ansari, D. & Fugelsang, J.A. (2011). The effect of mathematics anxiety on the processing of numerical magnitude. *Quarterly Journal of Experimental Psychology*, 64, 1-11.
7. Bugden, S. & Ansari, D. (2011). Individual differences in children's mathematical competence related to the intentional but not automatic processing of Arabic numerals. *Cognition*, 119, 1-11.

24. Monaco, S., Cavina-Paratesi, C., Sedda, A., Fattori, P., Galletti, C. & Culham (2011). Functional magnetic resonance adaptation (fMRA) reveals the involvement of the dorsomedial stream in wrist orientation for grasping. *Journal of Neurophysiology*, 106, 2248-2263.
25. Snow, J.C., Pettypiece, C., McAdam, D., McLean, A., Sroman, P.W., Goodale, M.A. & Culham, J.C. (2011). Bringing the real world into the fMRI scanner: Repetition effects for pictures versus real objects. *Scientific Reports*, Article number 130.
26. Wood, D.K., Gallivan, J.P., Chapman, C.S., Milner, J.C. & Goodale, M.A. (2011). Visual salience dominates early visuomotor competition in reaching behavior. *Journal of Vision*, 11-11.
27. Valyear, K.F., Chapman, C.S., Gallivan, J.P., Mark, S.R. & Culham, J.C. (2011). To use or to move: Goal set modulates priming when grasping tools. *Experimental Brain Research*, 212, 112-122.
28. Chapman, C.S., Gallivan, J.P., Culham, J.C. & Goodale, M.A. (2011). Mental blocks: fMRI reveals top down modulation of early visual cortex when obstacles interfere with grasp planning. *Neuropsychologia*, 49, 1703-1717.
29. Daley, M. & Culham, J.C. (2011). Review of networks of the brain. *Canadian Psychology/Psychologie canadienne*, vol. 52, no. 4, pp. 321-322, 2011. doi: 10.1037/a0025503.
30. May, J., Calvo Merino, B., Delahunta, S., McGregor, W., Cusack, R., Ramsman, M., Ramponi, C. & Barnard, P. (2011). Points in mental space: an interdisciplinary study of imagery and tasks in movement innovation. *Dance Research Electronic Journal*, 20, 40-432.
31. Linke, A.C., Vicente Grabovetsky, A. & Cusack, R. (2011). Stimulus specific suppression preserves information in auditory short term memory. *Proceedings of the National Academy of Sciences (USA)*, 108, 12961-12966.
32. Thompson, R., Correia, M. D. & Cusack, R. (2011). Vascular contributions to multivariate pattern analysis at 3T. *Neuroimage*, 56, 643-650.
33. Thompson, S.K., Carlyon, R.P. & Cusack, R. (2011). An objective measurement of the build-up of auditory streaming and of its modulation by attention. *Journal of Experimental Psychology: Human Perception and Performance*, 37, 1253-1262.
34. Linke, A.C., Vicente Grabovetsky, A., Mitchell, D.J. & Cusack, R. (2011). Encoding strategy accounts for individual differences in change detection measures of VSTM. *Neuropsychologia*, special issue on VSTM & attention, 49, 1476-1486.
35. Mitchell, D.J. & Cusack, R. (2011). The temporal evolution of electromagnetic markers sensitive to the capacity limits of visual short

37. Daley, M., McQuillan, I., McQuillan, J. & Mahalingam, K. (2011). Theoretical and computational properties of transpositions. *Natural Computing*, 10, 707-724.
38. Eramian, M., Daley, M., Neilson, D. & Daley, T. (2011). Segmentation of epithelium in h&e stained odontogenic cysts. *Journal of Microscopy*, 144, 273-292.
39. Smith, J., Mould, D. & Daley, T. (2011). The impact of structural encodings on the creative richness of music composition tools. *Digital Creativity*, vol. Accepted, 2011.
40. Kaping, D., Vinck, M., Everling, S. & Womelsdorf, T. (2011). Specific contributions of ventromedial frontal, anterior cingulate and lateral prefrontal cortex for attentional selection and stimulus valuation. *PLOS Biology*, 9(12), e1001224.
41. Koval, M.J., Lomber, S.G. & Everling, S. (2011). Prefrontal cortex deactivation in macaques alters activity in the superior colliculus and impairs voluntary control of saccades. *Journal of Neuroscience*, 31, 8659-8668.
42. Hutchison, R.M., Leung, L.S., Mirsattari, S.M., Gati, J.S., Menon, V. & Everling, S. (2011). Resting state networks in the macaque at 7T. *NeuroImage*, 56, 1546-1555.
43. Phillips, J.M., Johnston, K. & Everling, S. (2011). Effects of anterior cingulate microstimulation on pro and antisaccades in nonhuman primates. *Journal of Cognitive Neuroscience*, 23, 481-490.
44. Johnston, K. & Everling, S. (2011). Frontal cortex and flexible saccade control. *The Oxford Handbook of Eye Movements* (Liversedge, S., Gilchrist, I.D. & Everling, S. eds). Oxford University Press.
45. Johnston, K. & Everling, S. (2011). An approach to understanding the neural circuitry of saccade control in the cerebral cortex using antidromic identification in the awake behaving macaque monkey model. *Contemporary animal models of movement disorders* (Dussanell, S. & Lane, E.). Springer Humana Press.
46. Buckingham, G., Ranger, N.S., & Goodale, M.A. (2011). The role of vision in detecting and correcting fingertip force errors during object lifting. *Journal of Vision*, 11, 4, 13.
47. Buckingham, G., Ranger, N.S., & Goodale, M.A. (2011). The material...

51. Sedda, A., Monaco, S., Bottini, G., & Gale, M.A.

65. Welcome S.E., Paivio M., McRae K & Joanisse M.F. (2011). An electrophysiological study of task demands on concreteness effects: evidence for dual coding. *Experimental Brain Research*, 212(3):347-58.
66. Andres, A.J.D., Oram Cardy, J.D. & Joanisse, M.F. (2011). Congruency of Auditory Sounds and Visual Letters Modulates Mismatch Negativity and P300 Event-Related Potentials. *International Journal of Psychophysiology*, 79, 137-146.
67. Slevc, L.R., Martin R.C., Hamilton A.C. & Joanisse, M.F. (2011). Speech perception, rapid temporal processing, and the left hemisphere: A case study of unilateral pure word deafness. *Neuropsychologia*, 49, 216-230.
68. Archibald, L.M.D., Edmunds, A. & Joanisse, M.F. (2011). Specific language or working memory impairments: Are there observable differences? *Child Language and Teaching*, 27, 29-43.
69. Archibald, L.M.D. & Joanisse, M.F. (2011). Electrophysiological responses to lexical and word level miscues. *Journal of Experimental Psychology: Human Perception and Performance*, 37, 1275-1291.
70. Newman, R.L. & Joanisse, M.F. (2011). Modulation of brain regions involved in word recognition by homophonous stimuli: An fMRI study. *Brain Research*, 1387, 256-264.
71. Kielar, A. & Joanisse, M.F. (2011). The role of semantic and phonological factors in word recognition: An ERP cross-modal priming study of derivational morphology. *Neuropsychologia*, 49 (2), 161-177.
72. Mirkovic, J., Seidenberg, M.S. & Joanisse, M.F. (2011). Probabilistic nature of inflectional structure: Insights from a highly inflected language. *Cognitive Science*, 35, 638-681.
73. Davis, M.H., Ford, M.A., Kherif, F. & Johnsrude, I.S. (2011). Does semantic context benefit speech understanding through top-down processes? Evidence from time-resolved sparse fMRI. *Journal of Cognitive Neuroscience*, 23, 391-432.
74. Zekveld, A.A., Rudner, M., Johnsrude, I.S., Festen, J.M., van Beek, H.M. & Rönnerberg, J. (2011). The influence of semantically re

78.

2011 PUBLICATIONS

103. Aoyama, N., Théberge, J., Drost, D.J., Manchanda, R., Northcott, S., Neufeld, R.W.J., Menon, R.S. Rajakumar, N., Pavlosky, W.F., Densmor

115. Waxer, M. & Morton, J.B. (2011). Cognitive conflict and learning. In R. M. Seel (Ed.), *Encyclopedia of the Sciences of Learning*. New Jersey: Springer.
116. Morton, J.B., EzekeiF. & Wilk, H. A. (2011). Executive functioning: Easy to identify but hard to define. *Topics in Cognitive Science*, 3, 212-216.
117. Waxer, M. & Morton, J.B. (2011). Children's judgments of emotion from conflicting cues in speech: Why 6-year-olds are so inflexible. *Child Development*, 82, 1648-1660.
118. Kempton, M., Ettinger, U., Foster, R., Williams, S.C.R., Calvert, G.A., Hampshire, A., Zelaya, F.O., O'Gorman, R.L., McMorris, T., Owen, A. & Smith, M.S. (2011). Dehydration affects brain structure and function in healthy adolescents.

141.