

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., Culham, 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, 124-132.
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, 40-43.
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, 707-734.
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 constructural encodings on the creative richness of music composition tool. *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

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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: 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.

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