

## STAFF PUBLICATIONS ACADEMIC YEAR 2005 - 2006

### **BAXTER, Mark**

Nguon, K., Ladd, B., **Baxter**, M.G., and Sajdel-Sulkowska, E.M. (2005). Development of motor coordination and cerebellar structure in male and female rat neonates exposed to hypergravity. *Advances in Space Research*, online publication 27 April 2005; doi:10.1016/j.asr.2005.02.095.

Crosby, C. A., Culley, D. J., **Baxter**, M.G., Yukhananov, R., and Crosby, G. (2005). Spatial memory performance two weeks after general anesthesia in adult rats. *Anesthesia & Analgesia*, 101, 1389-1392.

Sajdel-Sulkowska, E.M., Nguon, K., Sulkowski, Z.L., Rosen, G., and **Baxter**, M.G. (2005). Purkinje cell loss accompanies motor impairment in rats developing at altered gravity. *NeuroReport*, 16, 2037-2040.

Córdova, C.A., Said, B. O., McCarley, R.W., **Baxter**, M.G., Chiba, A.A., and Strecker, R. E. (2006). Sleep deprivation in rats produces attentional impairments on a 5-choice serial reaction time task. *Sleep*, 29, 69-76.

Black, Y.D., Maclaren, F.R., Naydenov, A.V., Carlezon, W.A., Jr., **Baxter**, M.G., and Konradi, C. (2006). Altered attention and prefrontal cortex gene expression in rats after binge-like exposure to cocaine during adolescence. *Journal of Neuroscience*, 26, 9656-9665.

Murray, E.A. and **Baxter**, M.G. (2006). Cognitive neuroscience and nonhuman primates: Lesion studies. In: C. Senior, T. Russell, M. Gazzaniga (Eds.), *Methods in Mind: The Study of Human Cognition*, pp. 43-69. Cambridge, MA: MIT Press.

### **BISHOP, Dorothy**

Halliday, L. & **Bishop**, D.V.M. 2005. Frequency discrimination and literacy skills in children with mild to moderate sensorineural hearing loss. *Journal of Speech, Language, and Hearing Research*, 48, 1187-1203.

Hill, P.R., Hogben, J., & **Bishop**, D.V.M. 2005. Auditory frequency discrimination in children with Specific Language Impairment: A longitudinal study. *Journal of Speech, Language, and Hearing Research*, 48, 1136-1146.

Newbury, D.F., **Bishop**, D.V.M., & Monaco, A.P. 2005. Genetic influences on language impairment and phonological short-term memory. *Trends in Cognitive Sciences*, 9, 528-534.

Sheehan K.A., McArthur, G.M., & **Bishop**, D.V.M. 2005. Is discrimination training necessary to cause changes in the P2 auditory event-related brain potential to speech sounds? *Cognitive Brain Research*, 25, 547-553.

Sutcliffe, P.A., **Bishop**, D.V.M. & Houghton, S. 2005. Sensitivity of four subtests of the test of everyday attention for children (TEA-CH) to stimulant medication in children with ADHD. *Educational Psychology*, 26, 325-337.

**Bishop**, D.V.M. 2006. Developmental cognitive genetics: how psychology can inform genetics and vice versa. *Quarterly Journal of Experimental Psychology*, 59(7), 1153-1168.

**Bishop**, D.V.M. 2006. Dyslexia: What's the problem? (commentary on White et al). *Developmental Science*, 9, 256-257.

**Bishop**, D.V.M., Adams, C.V., & Rosen, S. 2006. Resistance of grammatical impairment to computerized comprehension training in children with specific and non-specific language impairments. *International Journal of Language and Communication Disorders*, 41, 19-40.

**Bishop**, D. V. M., Adams, C. V., & Norbury, C. F. 2006. Distinct genetic influences on grammar and phonological short-term memory deficits: evidence from 6-year-old twins. *Genes, Brain and Behavior*, 5, 158-169.

**Bishop**, D.V.M., Laws, G., Adams, C.V. & Norbury, C.F. 2006. High heritability of speech and language impairments in 6-year-old twins demonstrated using parent and teacher report. *Behavior Genetics*, 36, 173-184.

**Bishop**, D.V.M., Maybery, M., Wong, D., Maley, A., & Hallmayer, J. 2006. Characteristics of the broader phenotype in autism: a study of siblings using the Children's Communication Checklist -2. *American Journal of Medical Genetics Part B (Neuropsychiatric Genetics)*, 141B, 117-122.

Halliday, L., & **Bishop**, D.V.M. 2006. Is poor frequency modulation detection linked to literacy problems? A comparison of specific reading disability and mild to moderate sensorineural hearing loss. *Brain and Language*, 97, 200-213.

Hayiou-Thomas M., Kovas, Y., Harlaar, N., **Bishop**, D.V.M., Dale, P., & Plomin, R. 2006. Common aetiology for diverse language skills in 4½-year old twins. *Journal of Child Language*, 33, 339-368.

Heath, S.M., **Bishop**, D.V.M., Hogben, J.H., & Roach, N.W. 2006. Psychophysical indices of perceptual functioning in dyslexia: A psychometric analysis. *Cognitive Neuropsychology*, 23, 905-929.

Jamison, H.L., Watkins, K., **Bishop**, D.V.M., & Matthews, P. M. 2006. Hemispheric specialisation for processing auditory non-speech stimuli. *Cerebral Cortex*, 16, 1266-1275.

Snowling, M.J., **Bishop**, D.V.M., Stothard, S.E., Chipchase, B., & Kaplan, C. 2006. Psychosocial outcomes at 15 years of children with a preschool history of speech-language impairment. *Journal of Child Psychology and Psychiatry*, 47(8), 759-765.

## **BUCKLEY, Mark**

Rudebeck PH, **Buckley** MJ, Walton ME, Rushworth MFS (2006) A special role for the anterior cingulate gyrus in social interaction. *Science* 313: 1310-1312.

Kwok SC, **Buckley** MJ (2006) Fornix transection impairs exploration but not locomotion in ambulatory macaque monkeys. *Hippocampus* 16: 655-663.

Kennerley SW, Walton ME, Behrens TEJ, **Buckley MJ**, Rushworth MFS (2006) Optimal decision making and the anterior cingulate cortex. *Nature Neuroscience* 9: 940-947.

Lee ACH, **Buckley MJ**, Gaffan D, Emery T, Hodges JR, Graham KS (2006) Differentiating the Roles of the Hippocampus and Perirhinal Cortex in Processes beyond Long-Term Declarative Memory: A Double Dissociation in Dementia. *Journal of Neuroscience* 26: 5198–5203.

**Buckley MJ** and Gaffan D (2006) Perirhinal cortical contributions to object perception. *Trends in Cognitive Sciences* 10: pp 100-107.

Browning PGF, Easton A, **Buckley MJ**, Gaffan D (2005) The role of the prefrontal cortex in object-in-place learning in monkeys. *European Journal of Neuroscience* 22: 3281-3291

Rushworth MFS, **Buckley MJ**, Gough PM, Alexander IH, Kyriazis D, McDonald KR, Passingham RE (2005) Attentional selection and action selection in the ventral and orbital prefrontal cortex. *Journal of Neuroscience* 25: pp 11628-36.

**Buckley MJ** (2005) The role of the perirhinal cortex and hippocampus in learning, memory, and perception. *Quarterly Journal of Experimental Psychology, Section B Comparative and Physiological Psychology* 58: 246-268.

Lee ACH, **Buckley MJ**, Pegman SJ, Spiers H, Scahill VL, Gaffan D, Bussey TJ, Davies RR, Kapur N, Hodges JR, Graham KS (2005) Specialization in the medial temporal lobe for processing of objects and scenes. *Hippocampus* 15: 782-797.

## **CHAN, Stella**

Williams JMG, **Chan S**, Crane C, Barnhofer T, Eade J, Healy H (2006): Retrieval of autobiographical memories: the mechanisms and consequences of truncated search. *Cognition and Emotion* 20 (3-4): 351-382.

## **CLARIDGE, Gordon**

**Claridge, G.** Psychobiological models and Issues. In S. Strack (Ed). *Differentiating Normal and Abnormal Personality*. (2nd Edition). New York: Springer, 2006.

**Claridge, G.** Divided selves as nervous types. *The Psychologist*, 2006, 19, 656-658.

Mason, O. & **Claridge, G.** The Oxford-Liverpool Inventory of Feelings And Experiences (O-LIFE): Further description and extended norms. *Schizophrenia Research*, 2006, 82, 203-211.

Cyharova, E. & **Claridge, G.** Development of a version of the Schizotypy Traits Questionnaire (STA) for screening children. *Schizophrenia Research*, 2005, 80, 253-261.

## **COWEY, Alan**

Vaina, L.M. **Cowey**, A. Jakob, M. and Kikinis, R. Deficits of motion integration and segregation in patients with unilateral extrastriate lesions. *Brain*, 128, 2134-2145, 2005.

**Cowey**, A., Campana, G., Walsh, V. and Vaina, L.M. The role of human extra-striate visual areas V5/MT and V2/V3 in the perception of the direction of global motion: a transcranial magnetic stimulation study. *Exp Brain Res*. 171(4): 558-62, 2006.

Walsh, V. and **Cowey** A. Fifty years of the parietal cortex: What could we tell Critchley today? *Cortex*, 42: 6630665, 2006.

**Cowey**, A. and Irving-Bell, L. Do parietal cortical lesions impair spatial attention or allocentric spatial perception. *Cortex*, 42: 755-765, 2006.

Schurger, A, **Cowey**, A, and Tallon-Baudry C. Induced gamma-band oscillations correlate with awareness in hemianopic patient GY. *Neuropsychologia*, 44, 1796-1803, 2006.

**Cowey**, A. "Alan Cowey". In: Larry R. Squire (Ed), *The History of Neuroscience in Autobiography*, pp 125-168. San Diego, Academic Press, 2006.

## **DEACON, Rob**

**Deacon**, RMJ., Brook, RC, Meyer, D, Haeckel, O, Ashcroft, FM, Miki, T, Seino, S & Liss, B. Behavioral phenotyping of mice lacking the KATP channel subunit Kir6.2. *Physiol. Behav.* **87**, 723-733 (2006).

Solberg, LC, Valdar, W, Gauguier, D, Nunez, G, Taylor, A, Burnett, S, Arboledas-Hita, C, Hernandez-Pliego, P, Davidson, S, Burns, P, Bhattacharya, S, Hough, T, Higgs, D, Klenerman, P, Cookson, WO, Zhang, Y, **Deacon**, RMJ, Rawlins, JNP, Mott, R & Flint, J. A protocol for high-throughput phenotyping, suitable for quantitative trait analysis in mice. *Mammalian Genome* 17, 129-146 (2006).

**Deacon**, RMJ., Rawlins, JNP. T-maze alternation in the rodent. *Nat. Protocols* **1**, 7-12 (2006).

**Deacon**, RMJ. Appetitive position discrimination in the T-maze. *Nat. Protocols* **1**, 13-15 (2006).

**Deacon**, RMJ. Burrowing in rodents: a sensitive method for detecting behavioral dysfunction *Nat. Protocols* **1**, 118 – 121 (2006).

**Deacon**, RMJ. Digging and marble burying in mice: simple methods for *in vivo* identification of biological impacts. *Nat. Protocols* **1**, 122 – 124 (2006).

**Deacon**, RMJ. Assessing nest building in mice. *Nat. Protocols* **1**, 1117 – 1119 (2006) 77.

**Deacon**, RMJ. Housing, husbandry and handling of rodents for behavioral experiments. *Nat. Protocols* **1**, 936 – 946 (2006).

## DOWKER Ann

**Dowker**, A. and Lloyd, D. (2005). Linguistic influences on numeracy. *Education Transactions B*, 20-35

**Dowker**, A. (2006). "Five Children and It" and the 19th century moral tale. In R. Jones (ed). *E. Nesbit's Psammead Books: Children's Classics t 100*. Lanham, Md: Scarecrow Press (pp. 169-183).

**Dowker**, A. (2006) What can brain imaging studies tell us about typical and atypical development? *Journal of Physiology*, 99, 333-341.

## GAFFAN, David

Lee AC, Buckley MJ, **Gaffan** D, Emery T, Hodges JR, Graham KS. Differentiating the roles of the hippocampus and perirhinal cortex in processes beyond long-term declarative memory: a double dissociation in dementia. *J Neurosci*. 2006;26:5198-203.

Everling S, Tinsley CJ, **Gaffan** D, Duncan J. Selective representation of task-relevant objects and locations in the monkey prefrontal cortex. *Eur J Neurosci*. 2006;23:2197-214.

Buckley MJ, **Gaffan** D. Perirhinal cortical contributions to object perception. *Trends Cogn Sci*. 2006;10:100-7.

Murray EA, **Gaffan** D. Prospective memory in the formation of learning sets by rhesus monkeys (*Macaca mulatta*). *J Exp Psychol Anim Behav Process*. 2006;32:87-90.

Browning PG, Easton A, Buckley MJ, **Gaffan** D. The role of prefrontal cortex in object-in-place learning in monkeys. *Eur J Neurosci*. 2005;22:3281-91.

**Gaffan** D. Neuroscience. Widespread cortical networks underlie memory and attention. *Science*. 2005;309:2172-3.

Murray EA, Graham KS, **Gaffan** D. Perirhinal cortex and its neighbours in the medial temporal lobe: contributions to memory and perception. *Q J Exp Psychol B*. 2005;58(3-4):378-96.

Graham KS, **Gaffan** D. The role of the medial temporal lobe in memory and perception: evidence from rats, nonhuman primates and humans. *Q J Exp Psychol B*. 2005;58:193-201.

Lee AC, Buckley MJ, Pegman SJ, Spiers H, Scahill VL, **Gaffan** D, Bussey TJ, Davies RR, Kapur N, Hodges JR, Graham KS. Specialization in the medial temporal lobe for processing of objects and scenes. *Hippocampus*. 2005;15:782-97.

## **GALLACE, Alberto**

**Gallace, A., & Spence, C. (2005).** Examining the crossmodal consequences of viewing the Müller-Lyer illusion. *Experimental Brain Research*, 162, 490-496.

**Gallace, A., & Spence, C. (2005).** Visual capture of apparent limb position influences tactile temporal order judgments. *Neuroscience Letters*, 379, 63-68.

**Gallace, A., Tan, H.Z., & Spence, C. (2005).** Change blindness as a multisensory phenomenon: Evidence from tactile change detection. *Abstracts of the Psychonomic Society*, 10, 89.

**Gallace, A., Tan, H.Z., & Spence, C. (2005).** Tactile change detection. In: *Proceeding of the First Worldhaptic Conference WHC 2005* (pp.12-16). Washington, DC: IEEE Computer Society.

**Gallace, A., Tan, H.Z., & Spence, C. (2006).** Numerosity judgments in tactile perception. *Perception*, 35, 247-266.

**Gallace, A., Tan, H.Z., & Spence, C. (2006).** The failure to detect tactile change: A tactile analogue of visual change blindness. *Psychonomic Bulletin and Review*, 13, 300-303.

**Gallace, A., Auvray, M., Tan, H.Z., & Spence, C. (2006).** Visual transients impair the detection of tactile changes: A novel case of crossmodal change blindness? *Neuroscience Letters*, 398, 280-285.

## **HEWSTONE, Miles**

Crisp, R.J., Walsh, J., & **Hewstone, M. (2006).** Crossed categorization in common ingroup contexts. *Personality and Social Psychology Bulletin*, 32, 1204-1218.

Erb, H.-P., Bohner, G., **Hewstone, M.**, Werth, L., & Reinhard, M.-A. (2006). Large minorities and small majorities: Interactive effects of inferred and explicit consensus on attitudes. *Basic and Applied Social Psychology*, 28, 221-231.

Harwood, J., Raman, P., & **Hewstone, M. (2006).** Communicative predictors of group salience in the intergenerational setting. *Journal of Family Communication*, 6, 181-200.  
**Hewstone, M., Cairns, E., Voci, A., Hamberger, J. & Niens, U. (2006).** Intergroup contact, forgiveness, and experience of 'The Troubles' in Northern Ireland. *Journal of Social Issues*, 62, 99-120.

**Hewstone, M., Crisp, Contarello, A., Conway, L., Voci, A., Conway, L., Marletta, G. & Willis, H. (2006).** Tokens in the tower: Perceptual processes and interaction dynamics in academic settings with 'skewed', 'tilted' and 'balanced' sex ratios. *Group Processes and Intergroup Relations*, 9, 509-532.

Meiser, T. & **Hewstone, M. (2006).** Illusory and spurious correlations: Distinct phenomena or joint outcomes of exemplar-based learning? *European Journal of Social Psychology*, 36, 315-336.

Tam, T., **Hewstone**, M., Harwood, J., Voci, A., & Kenworthy, J. (2006). Intergroup contact and grandparent-grandchild communication: The effects of self-disclosure on implicit and explicit biases against older people. *Group Processes and Intergroup Relations*, 9, 413-430.

Walker, P. & **Hewstone**, M. (2006). A perceptual discrimination investigation of the own-race face effect and intergroup experience. *Journal of Applied Cognitive Psychology*, 20, 461-475.

### **KUSUNOKI, Makoto**

**Kusunoki** M, Moutoussis K and Zeki S. Effect of background colors on the tuning of color-selective cells in monkey area V4. *J Neurophysiology* 95(5):3047-59, (2006).

### **LEPSIEN, Joeran**

**Lepsien** J, & Nobre AC. Cognitive control of attention in the human brain: Insights from orienting attention to mental representations. *Brain Res.* 2006 Aug 11;1105(1):20-31. Review.

Summerfield JJ, **Lepsien** J, Gitelman DR, Mesulam MM, Nobre AC. Orienting attention based on long-term memory experience. *Neuron.* 2006 Mar 16;49(6):905-16.

Szameitat AJ, **Lepsien** J, Cramon DY, Sterr A, Schubert T. Task-order coordination in dual-task performance and the lateral prefrontal cortex: an event-related fMRI study. *Psychol Res.* 2006 Nov;70(6):541-52.

**Lepsien** J, & Nobre AC. Attentional Modulation of Object Representations in Working Memory Cerebral Cortex 2006; doi: 10.1093/cercor/bhl116

### **McLEOD, Peter**

Bilalic, M. & **McLeod**, P. (2006). How Intellectual Is Chess? - A Reply To Howard (2005). *Journal of Biosocial Science*, 38, 419 - 421.

**McLeod**, P., Reed, N. & Dienes, Z. (2006) The Generalised Optic Acceleration Cancellation Theory of Catching. *Journal of Experimental Psychology: Human Perception and Performance*, 32, 139 -148.

### **MILLAR, Susanna**

**Millar**, S. (2006). Spatial Processing of Information from Touch and Movement: Implications from and for Neuroscience. In M.A. Heller and S. Ballesteros (eds.). *Touch and Blindness: Psychology and Neuroscience*. (pp 25-48). New York: Lawrence Erlbaum Associates.

**Millar, S. & Al-Attar, Z. (2005).** What aspects of vision facilitate haptic processing? *Brain and Cognition*, 59, 258-268.

## **NATION, Kate**

**Nation, K., Angell, P. & Castles, A. (2006).** Orthographic learning via self-teaching in children learning to read English: effects of exposure, durability and context. *Journal of Experimental Child Psychology*, 96, 71-84.

Groen, M.A., Laws, G., **Nation, K.**, & Bishop, D.V.M. (2006). A case of exceptional reading accuracy in a child with Down syndrome – underlying skills and the relation to reading comprehension. *Cognitive Neuropsychology*, 23 (8), 1190-1214.

**Nation, K., Clarke, P., Wright, B. & Williams, C. (2006).** Patterns of reading ability in children with autism. *Journal of Autism and Developmental Disorders*, 36, 911-919.

**Nation, K., & Angell, P. (2006).** Learning to read and learning to comprehend. *London Review of Education*, 4(1), 77-88.

**Nation, K. (2006),** Reading and genetics: an introduction. *Journal of Research in Reading*, 29 (1), 1-10.

Cragg, L. & **Nation, K. (2006).** Exploring written narrative in children with poor reading comprehension. *Educational Psychology*, 21 (1), 55-72.

**Nation, K. (2005).** Developmental language problems. *Psychiatry*, 4 (9), 114-117.

**Nation, K. & Norbury, C.F. (2005).** Why reading comprehension fails: Insights from children with developmental disorders. *Topics in Language Disorders*, 25, 21-32.

Bishop, DVM., Adams, CV., **Nation, K.**, & Rosen, S. (2005). Perception of transient non-speech stimuli is normal in specific language impairment: evidence from glide discrimination. *Applied Psycholinguistics*, 26, 175-194.

**Nation, K., Snowling, M.J. & Clarke, P. (2005).** Production of the English past tense by children with language comprehension impairments. *Journal of Child Language*, 32, 117-137.

**Nation, K. (2005).** Picture naming and developmental reading disorders. *Journal of Research in Reading*, 28, 28-38.

Castles, A., & **Nation, K. (2006).** How does orthographic learning happen? In S. Andrews (Ed.), *From inkmarks to ideas: Challenges and controversies about word recognition and reading*. Psychology Press.

**Nation, K. (2006).** Assessing reading comprehension in children. In M.J. Snowling & J. Stackhouse (Eds.), *Speech and language: a practitioner's handbook* (pp. 128-142). London: Whurr.

**Nation, K.** (2005). Connections between reading and language in children with poor reading comprehension. In H. Catts & A. Kamhi (Eds.), *Connections between reading and language* (pp. 41-54). Erlbaum.

**Nation, K.** (2005). Reading comprehension difficulties. In M.J. Snowling & C. Hulme (Eds.), *The science of reading* (pp. 248-265). Oxford: Blackwell Publishing.

### **NOBRE, Anna (Kia)**

Fanini A, **Nobre AC**, Chelazzi L. Selecting and ignoring the component features of a visual object: a negative priming paradigm. *Visual Cognition* 2006; 14: 584- 618.

Lepsien J, **Nobre AC**. Cognitive control of attention in the human brain: Insights from orienting attention to mental representations. *Brain Research* 2006; 1105(1): 20-31.

**Nobre AC**, Rao A, Chelazzi L. Selective attention to specific features within objects: behavioural and electrophysiological evidence. *Journal of Cognitive Neuroscience* 2006; 18: 539-561.

Rao A, **Nobre AC**, Alexander I, Cowey A. Auditory evoked visual awareness following sudden ocular blindness: an EEG and TMS investigation. *Experimental Brain Research* 2006 Jul 21; [Epub ahead of print].

Summerfield JJ, Lepsien J, Gitelman DR, Mesulam MM, **Nobre AC**. Orienting attention based on long-term memory experience. *Neuron* 2006; 49: 905- 916.

Taylor PCJ, **Nobre AC**, Rushworth MF. Combining correlation and interference methods in the human brain. A focus on cortico-cortical interactions in spatial attention: a combined ERP/TMS study. *Journal of Neurophysiology* 2006; 95(5): 2731-2.

Taylor PCJ, **Nobre AC**, Rushworth MF. FEF TMS affects visual cortical activity. *Cerebral Cortex*. 2006 Mar 8; [Epub ahead of print].

Doherty JR, Rao A, Mesulam MM, **Nobre AC**. Synergistic effect of combined temporal and spatial expectations in visual attention. *Journal of Neuroscience* 2005; 25: 8259-8266.

Eagleman DM, Tse PU, Janssen P, **Nobre AC**, Buonomano D, Holcombe AO. Time and the brain: how subjective time relates to neural time. *Journal of Neuroscience* 2005; 25: 10369-71.

### **PARKES, Kathy**

**Parkes, K.R.** (2006). Physical activity as a predictor of self-rated health: Interactive effects of activity in work and leisure domains. *British Journal of Health Psychology*, 11, 533-550.

**Parkes, K.R.** & Swash, S. (2005). Offshore sickbay consultations in relation to age, job factors, and self-reported health. London: *Health and Safety Executive*.

## **PASSINGHAM, Dick**

Ehrsson HH, Holmes N, **Passingham** RE (2005) Touching your own limb: self-attribution is associated with activity in multisensory brain regions. *J Neurosci* 25, 10564-10573

Ehrsson HH, Kito T, Sadato N, **Passingham** RE, Naito E (2005) Body image in the brain: the neural substrate of body size perception. *PLoS Biol* 3, 2200-2207

Rushworth MFS, Buckley MJ, Gough PM, Alexander IH, Kyriazis D, McDonald KR, **Passingham** RE (2005) Attentional selection and action selection in the ventral and orbital prefrontal cortex. *J Neurosci* 25, 1128-1136

Grol MJ, de Lange FP, Verstraten F, **Passingham** RE, Toni I (2006) Learning-related cerebral changes during performance of overlearned arbitrary visuomotor associations. *J Neurosci* 26, 117-125

Lau H, Rogers RD, **Passingham** RE (2006) Dissociating response selection and conflict in the medial frontal surface. *NeuroImage* 29, 446-451

**Passingham** RE, Lau H.C (2006) Free choice and the human brain. In Pockett S (ed) *Does Consciousness Cause Behavior?* Pp. 53-72, MIT Press, Cambridge.

Berthoz S, Grezes J, Armony JL, **Passingham** RE, Dolan RJ (2006) Affective responses to one's own moral transgression of social norms. *NeuroImage* 31, 945-950

Lau HC, Rogers RD, **Passingham** RE (2006) Perceived onsets of spontaneous actions are biased by attention. *J Neurosci* 26, 7265-7271.

Sakai K, **Passingham** RE (2006) Prefrontal set activity predicts rule-specific neural activity during subsequent cognitive performance. *J. Neurosci.* 26, 1211-1218

Grezes J, Berthoz S, **Passingham** RE (2006) Amygdala activation when one is the target of deceit. Did he lie to you or to someone else? *NeuroImage* 30, 601-608

## **RAWLINS, Nicholas**

Deacon RMJ & **Rawlins** JNP (2005) Hippocampal lesions, species-typical behaviours and anxiety in mice. *Behavioural Brain Research* 156: 241-249

Cunningham C, Deacon RMJ, Chan K, Boche D, **Rawlins** JNP & Perry VH (2005) Neuropathologically distinct prion strains give rise to similar temporal profiles of behavioural deficits. *Neurobiology of Disease* 18:258-69

Schmitt WB, Sprengel R, Mack V, Draft RW, Seeburg PH, Deacon RMJ, **Rawlins** JNP & Banerman DM. (2005) Restoration of spatial working memory by genetic rescue of GluR-A-deficient mice. *Nature Neuroscience* 8: 270-272

Deacon RMJ, Reisel D, Perry VH & **Rawlins** JNP (2005) Hippocampal scrapie infection impairs operant DRL performance in mice. *Behavioural Brain Research* 157:99-105

**Rawlins JNP** (2005) Reflections on mirror systems. In SL Hurley & N Chater (Eds) *Perspectives on Imitation: from neuroscience to social science*, Vol 1, Pp195-200. MIT Press

**Rawlins JNP** (2005) Introduction to the nervous system. In M Hewstone, FD Fincham & J Foster (Eds) *Psychology* pp43-71. Blackwell.

Johnson AW, Bannerman DM, **Rawlins JNP**, Sprengel R, Good MA (2005) Impaired outcome-specific devaluation of instrumental responding in mice with a targeted deletion of the AMPA receptor GluR-1 subunit. *Journal of Neuroscience* **25**: 2359-2365

Risel D, Bannerman DM, Deacon RMJ, Sprengel R, Seeburg PH, **Rawlins JNP** (2005) GluR-A-dependent synaptic plasticity is required for the temporal encoding of non-spatial information. *Behavioral Neuroscience* 119:1298-306.

Solberg LC, Valdar W, Gauguier D, Nunez G, Taylor A, Burnett S, Arboledas-Hita C, Hernandez-Pliego P, Davidson S, Burns P, Bhattacharya S, Hough T, Higgs D, Klenerman P, Cookson WO, Zhang Y, Deacon RM, **Rawlins JNP**, Mott R, Flint J. (2006) Protocol for high-throughput phenotyping, suitable for quantitative trait analysis in mice. *Mammalian Genome* **17**:129-46

Bannerman DM, **Rawlins JNP**, Good MA. The drugs don't work – or do they? A review of pharmacological studies assessing the contribution of NMDA receptors to hippocampal-dependent forms of memory. *Psychopharmacology (Berl)*. (2006) May 5 [E-pub ahead of print]

Valdar W, Solberg LC, Gauguier D, Burnett S, Klenerman P, Cookson WO, Taylor MS, **Rawlins JNP**, Mott R, & Flint J. (2006) Genome-wide genetic association of complex traits in heterogeneous stock mice. *Nature Genetics* **38**: 879-87

Deacon RMJ & **Rawlins JNP** (2006) T-maze alternation in the rodent. *Nature Protocols* **1**: 7-12

Valdar W, Solberg LC, Gauguier D, Cookson WO, **Rawlins JNP**, Mott R & Flint J (2006) Genetic and environmental effects on complex traits in mice. *Genetics* Aug 3; [E-pub ahead of print].

## **ROLLS, Edmund**

Deco, G. and **Rolls**, E.T. (2005) Synaptic and spiking dynamics underlying reward reversal in the orbitofrontal cortex. *Cerebral Cortex* 15: 15-30.

Deco, G., **Rolls**, E.T. and Zihl, J. (2005) A neurodynamical model of visual attention. Ch 97 pp. 593-599 in *The Neurobiology of Attention*, Eds. L.Itti, G.Rees and J.K.Tsotsos. Elsevier Press: San Diego.

Deco, G. and **Rolls**, E.T. (2005) Attention, short term memory, and action selection: a unifying theory. *Progress in Neurobiology* 76: 236-256.

**Rolls**, E.T. (2005) Hunger, thirst and satiety. Chapter 86, pp. 1107-1118 in *Fisiologia Humana*, 3rd Edition, ed. J.A.F.Tresguerres. McGraw-Hill/Interamericana: Madrid.

**Rolls**, E.T. and Stringer, S.M. (2005) Spatial view cells in the hippocampus, and their idiothetic update based on place and head direction. *Neural Networks* 18: 1229-1241.

Berlin, H., **Rolls**, E.T., and Iversen, S.D. (2005) Borderline Personality Disorder, impulsivity, and the orbitofrontal cortex. *American Journal of Psychiatry* 162: 2360-2373.

Aggelopoulos, N.C. and **Rolls**, E.T. (2005) Natural scene perception: inferior temporal cortex neurons encode the positions of different objects in the scene. *European Journal of Neuroscience* 22: 2903-2916.

Stringer, S.M., Perry, G., **Rolls**, E.T. and Proske, H. (2006) Learning invariant object recognition in the visual system with continuous transformations. *Biological Cybernetics* 94: 128-142.

**Rolls**, E.T., Critchley, H.D., Browning, A.S. and Inoue, K. (2006) Face-selective and auditory neurons in the primate orbitofrontal cortex. *Experimental Brain Research* 170: 74-87.

**Rolls**, E.T. (2006) Consciousness absent and present: a neurophysiological exploration of masking. Ch 6, pp. 89-108 in: *The First Half Second: the microgenesis and temporal dynamics of unconscious and conscious visual processes*. (Eds.) H. Ogmen & B. G. Breitmeyer. MIT Press: Cambridge, MA.

**Rolls**, E.T. and Xiang, J-Z. (2006) Spatial view cells in the primate hippocampus, and memory recall. *Reviews in the Neurosciences* 17: 175-200.

**Rolls**, E.T. (2006) Brain mechanisms underlying flavour and appetite. *Philosophical Transactions of the Royal Society B* 361: 1123-1136.

Stringer, S.M., **Rolls**, E.T. and Taylor, P. (2006) Learning movement sequences with a delayed reward signal in a hierarchical model of motor function. *Neural Networks*, in press: doi:10.1016/j.neunet.2006.01.016.

**Rolls**, E.T. (2006) Brain mechanisms of emotion and decision-making. *International Congress Series* 1291: 3-13. Elsevier: Amsterdam.

**Rolls**, E.T. and Kesner, R.P. (2006) A computational theory of hippocampal function, and empirical tests of the theory. *Progress in Neurobiology* 79: 1-48.

Deco, G. and **Rolls**, E.T. (2006) A neurophysiological model of decision-making and Weber's law. *European Journal of Neuroscience* 24: 901-916.

Stringer, S.M., and **Rolls**, E.T. (2006) Hierarchical dynamical models of motor function. *Neurocomputing*, doi.org/10.1016/j.neucom.2006.03.012.

Perry, G., **Rolls**, E.T. and Stringer, S.M. (2006) Spatial vs temporal continuity in view invariant visual object recognition learning. *Vision Research* 46: 3994-4006.

**Rolls**, E.T., Franco, L., Aggelopoulos, N.C. and Perez, J.M. (2006) Information in the first spike, the order of spikes, and the number of spikes provided by neurons in the inferior temporal visual cortex. *Vision Research* 46: 4193-4205.

**Rolls**, E.T. (2006) Neurophysiological and computational analyses of the primate presubiculum, subiculum and related areas. *Behavioural Brain Research* 174: 289-303.

**Rolls**, E.T. (2006) The neurophysiology and functions of the orbitofrontal cortex. Chapter 5, pp. 95-124 in *The Orbitofrontal Cortex*. Eds. D.H.Zald and S.L.Rauch. Oxford University Press: Oxford.

## **RUSHWORTH, Matthew**

Rudebeck PH, Buckley MJ, Walton ME, **Rushworth** MFS. A role for the macaque anterior cingulate gyrus in social valuation. *Science*. 2006 Sep 1;313(5791):1310-2.

Rudebeck PH, Walton ME, Smyth AN, Bannerman DM, **Rushworth** MFS. Separate neural pathways process different decision costs. *Nat Neurosci*. 2006 Sep;9(9):1161-8. *Epub* 2006 Aug 20.

Kennerley SW, Walton ME, Behrens TE, Buckley MJ, **Rushworth** MFS. Optimal decision making and the anterior cingulate cortex. *Nat Neurosci*. 2006 Jul;9(7):940-7. *Epub* 2006 Jun 18.

**Rushworth** MFS, Buckley MJ, Gough P, Alexander IH, Kyriazis D, McDonald K, Passingham RE (2005) Attention and action in ventral prefrontal cortex. *The Journal of Neuroscience*. 25: 11628-11636

Taylor PC, Nobre AC, **Rushworth** MFS. FEF TMS Affects Visual Cortical Activity. *Cereb Cortex*. 2006 Mar 8; [Epub ahead of print]

**Rushworth** MFS, Behrens TE, Johansen-Berg H. Connection Patterns Distinguish 3 Regions of Human Parietal Cortex. *Cereb Cortex*. 2005 Nov 28; [Epub ahead of print]

**Rushworth** MFS, Taylor PC. TMS in the parietal cortex: Updating representations for attention and action. *Neuropsychologia*. 2006 Jan 30;

Funahashi S, Lee D, **Rushworth** MFS. Neurobiology of decision making. *Neural Netw*. 2006 Oct;19(8):977-9. *Epub* 2006 Sep 18.

Walton ME, Kennerley SW, Bannerman DM, Phillips PE, **Rushworth** MFS. Weighing up the benefits of work: Behavioral and neural analyses of effort-related decision making. *Neural Netw*. 2006 Oct;19(8):1302-14. *Epub* 2006 Sep 1.

Bird CM, Malhotra P, Parton A, Coulthard E, **Rushworth** MFS, Husain M. Visual neglect after right posterior cerebral artery infarction. *J Neurol Neurosurg Psychiatry*. 2006 Sep;77(9):1008-12. Epub 2006 Jun 13.

Gobell SM, **Rushworth** MFS, Walsh V. Inferior parietal rtms affects performance in an addition task. *Cortex*. 2006 Jul;42(5):774-81.

## **SANDERSON, David**

**Sanderson**, D.J., Pearce, J.M., Kyd, R.J., & Aggleton, J.P. (2006). The importance of the rat hippocampus for learning the structure of visual arrays. *European Journal of Neuroscience*, 24, 1781-1788.

## **SCERIF, Gaia**

**Scerif**, G. (2006). What is so special about modules? Defining mechanisms of developmental change. *Infancia y Aprendizaje*, 5. (I need to chase up the page numbers for this one)

**Scerif**, G., Worden, M., Seiger, L., Davidson, M., & Casey, B.J. (2006). Context-driven attention modulates early stimulus-processing when resolving stimulus-response conflict. *Journal of Cognitive Neuroscience*, 18, 781-792.

**Scerif**, G., Kotsoni, E., & Casey, B.J. (2006). The functional neuroimaging of development. In: R. Cabeza and A. Kingstone (Eds.), *Functional Neuroimaging of Cognition*. Cambridge: MIT Press, pp. 351-378.

Karmiloff-Smith, A., Ansari, D., Campbell, L., **Scerif**, G., & Thomas, M. (2006). Theoretical implications of studying genetic disorders: The case of Williams syndrome. In C.A. Morris, H.M. Lenhoff, & P.P. Wang (Eds), *Williams-Beuren Syndrome: Research, Evaluation and Treatment*. Baltimore: The Johns Hopkins University Press, 254-273.

**Scerif**, G., & Karmiloff-Smith, A. (2005). The dawn of cognitive genetics? Crucial developmental caveats. *Trends in Cognitive Sciences*, 3, 126-135.

**Scerif**, G., Karmiloff-Smith, A., Campos, R., Elsabbagh, M., Driver, J., & Cornish, K. (2005). To look or not to look? Typical and atypical development of oculomotor control. *Journal of Cognitive Neuroscience*, 4, 591-604.

## **SPENCE, Charles**

Poliakoff, E., Ashworth, S., Lowe, C., & **Spence**, C. (2006). Vision and touch in ageing: Crossmodal selective attention and visuotactile spatial interactions. *Neuropsychologia*, 44, 507-517.

Ho, C., & **Spence**, C. (2006). Verbal interface design: Do verbal directional cues automatically orient visual spatial attention? *Computers in Human Behavior*, 22, 733-748.

Gallace, A., Tan, H.Z., & **Spence**, C. (2006). The failure to detect tactile change: A tactile analog of visual change blindness. *Psychonomic Bulletin & Review*, 13, 300-303.

Holmes, N.P., Sanabria, D., Calvert, G.A., & **Spence, C.** (2006). Multisensory interactions follow the hands across the midline: Evidence from a non-spatial visual-tactile congruency task. *Brain Research*, **1077**, 108-115.

Gallace, A., Tan, H.Z., & **Spence, C.** (2006). Numerosity judgments for tactile stimuli distributed over the body surface. *Perception*, **35**, 247-266.

Ho, C., Tan, H.Z., Barbagli, F., Salisbury, K., & **Spence, C.** (2006). Isotropy and visual modulation of haptic force direction discrimination on the human finger. *Proceedings of Eurohaptics*, 483-486

Holmes, N.P., Snijders, D., & **Spence, C.** (2006). Reaching with alien limbs: Visual exposure to prosthetic hands biases proprioception without accompanying illusions of ownership. *Perception & Psychophysics*, **68**, 685-701.

Vatakis, A., & **Spence, C.** (2006). Evaluating the influence of frame rate on the temporal aspects of audiovisual speech perception. *Neuroscience Letters*, **405**, 132-136.

Barbagli, F., Salisbury, K., Ho, C., **Spence, C.**, & Tan, H. Z. (2006). Haptic discrimination of force direction and the influence of visual information. *ACM Transactions on Applied Perception*, **3**, 125-135.

Shore, D. I., Barnes, M.E., & **Spence, C.** (2006). The temporal evolution of the crossmodal congruency effect. *Neuroscience Letters*, **392**, 96-100.

Vatakis, A., & **Spence, C.** (2006). Assessing audiovisual synchrony perception for speech and music using a temporal order judgment task. *Neuroscience Letters*, **393**, 40-44.

Tan, H.Z., Barbagli, F., Salisbury, K., Ho, C., & **Spence, C.** (2006). Force-direction discrimination is not influenced by reference force direction (short paper). *Haptics-e*, **4**, 1-6, from <http://www.haptics-e.org>.

**Spence, C.**, & Zampini, M. (2006). Auditory contributions to multisensory product perception. *Acta Acustica united with Acustica*, **92**, 1009-1025.

Poliakoff, E., Shore, D.I., Lowe, C., & **Spence, C.** (2006). Visuotactile temporal order judgments in ageing. *Neuroscience Letters*, **396**, 207-211.

Correa, A., Sanabria, D., **Spence, C.**, Tudela, P., & Lupiáñez, J. (2006). Selective temporal attention enhances the temporal resolution of visual perception: Evidence from a temporal order judgment task. *Brain Research*, **1070**, 202-205.

Ho, C., Tan, H.Z., & **Spence, C.** (2006). The differential effect of vibrotactile and auditory cues on visual spatial attention. *Ergonomics*, **49**, 724-738.

Soto-Faraco, S., Kingstone, A., & **Spence, C.** (2006). Integrating motion information across sensory modalities: The role of top-down factors. *Progress in Brain Research*, **155**, 277-290.

Gallace, A., Auvray, M., Tan, H.Z., & **Spence, C.** (2006). When visual transients impair tactile change detection: A novel case of crossmodal change blindness? *Neuroscience Letters*, **398**, 280-285.

Lyons, G., Sanabria, D., Vatakis, A., & **Spence, C.** (2006). The modulation of crossmodal integration by unimodal perceptual grouping: A visuotactile apparent motion study. *Experimental Brain Research*, **174**, 510-516.

Sanabria, D., **Spence, C.**, & Soto-Faraco, S. (2006). Perceptual and decisional contributions to audiovisual interactions in the perception of apparent motion: A signal detection study *Cognition*.

Kóbor, I., Füredi, L., Kovács, G., **Spence, C.**, & Vidnyánszky, Z. (2006). Back-to-front: Improved tactile discrimination performance in the space you can't see. *Neuroscience Letters*, **400**, 163-167.

Demattè, M.L., Sanabria, D., & **Spence, C.** (2006). Cross-modal associations between odors and colors. *Chemical Senses*, **31**, 531-538.

Zampini, M., Mawhinney, S., & **Spence, C.** (2006). Tactile perception of the roughness of the end of a tool: What role does tool handle roughness play? *Neuroscience Letters*, **400**, 235-239.

Vatakis, A., & **Spence, C.** (2006). Temporal order judgments for audiovisual targets embedded in unimodal and bimodal distractor streams. *Neuroscience Letters*, **408**, 5-9.

Vatakis, A., & **Spence, C.** (2006). Audiovisual synchrony perception for music, speech, and object actions. *Brain Research*, **1111**, 134-142.

Demattè, M.L., Sanabria, D., Sugarman, R., & **Spence, C.** (2006). Cross-modal interactions between olfaction and touch. *Chemical Senses*, **31**, 291-300.

Ho, C., Reed, N.J., & **Spence, C.** (2006). Assessing the effectiveness of "intuitive" vibrotactile warning signals in preventing front-to-rear-end collisions in a driving simulator. *Accident Analysis & Prevention*, **38**, 989-997.

Proctor, R.W., Tan, H.Z., Vu, K.-P. L., Gray, R., & **Spence, C.** (2005). Implications of compatibility and cuing effects for multimodal interfaces. *Proceedings of HCI International 2005*, **11**, Paper No. 2733, pp. 1-10.

Ho, C., **Spence, C.**, & Tan, H.Z. (2005). Warning signals go multisensory. *Proceedings of HCI 27) International 2005*, **9**, Paper No. 2284, pp. 1-10.

Ho, C., Tan, H.Z., Barbagli, F., Salisbury, K., & **Spence, C.** (2006). Isotropy and visual modulation of haptic force direction discrimination on the human finger. *Proceedings of EuroHaptics 2006*, 483-486.

**Spence, C.**, Santangelo, V., Ho, C., & Olivetti Belardinelli, M. (2006). Assessing the automaticity of intramodal and crossmodal spatial attentional orienting. *Cognitive Processing*, **7**, S3.

Zampini, M., Torresan, D., **Spence, C.**, & Murray, M. (2006). Auditory-tactile multisensory interactions: Effects of space and posture. *Journal of Cognitive Neuroscience*, **18**, 153.

Demattè, M.L., Sanabria, D., & **Spence, C.** (2006). Crossmodal associations between olfaction, vision, and touch. *Chemical Senses*, **31**, A62.

Demattè, M.L., Sanabria, D., & **Spence, C.** (2006). Crossmodal associations and interactions between olfaction and vision. *Chemical Senses*, **31**, E50-E51.

Dalton, P., & **Spence, C.** [J.] (2006). Irrelevant auditory singletons capture attention during sequential visual search. *Abstracts of the Psychonomic Society*, **11**, 125.

Kitagawa, N., & **Spence, C.** (2006). Audiotactile multisensory interactions in information processing. *Japanese Psychological Research*, **48**, 158-173.

## **WATKINS, Kate**

Smith SM, Jenkinson M, Johansen-Berg H, Rueckert D, Nichols TE, Mackay CE, **Watkins KE**, Ciccarelli O, Cader MZ, Matthews PM, Behrens TE (2006) Tract-based spatial statistics: Voxelwise analysis of multi- subject diffusion data. *Neuroimage* [Epub ahead of print]

Dorsaint-Pierre R, Penhune VB, **Watkins KE**, Neelin P, Lerch JP, Bouffard M & Zatorre RJ (2006) Asymmetries of the planum temporale and Heschl's gyrus: Relationship to language lateralization. *Brain* **129**: 1164-1176

Jamison HL, **Watkins KE**, Bishop DVM & Matthews PM. (2006). Hemispheric specialisation for processing auditory non-speech stimuli. *Cerebral Cortex* **16**(9): 1266-75. Epub 2005.

Klein D, **Watkins KE**, Zatorre RJ & Milner B (2006). Word and nonword repetition in bilingual subjects: A PET study. *Hum Brain Mapp* **27**(2): 153-6 (Epub 2005).

Jansen AC, Leonard G, Bastos AC, Eposito-Festen JE, Tampieri D, **Watkins KE**, Andermann F & Andermann E (2005). Cognitive functioning in bilateral perisylvian polymicrogyria (BPP): Clinical and radiological correlations. *Epilepsy & Behavior* **6**(3): 393-404.

Devlin JT, **Watkins KE** (2006) Stimulating language: insights from TMS. *Brain* 2006; doi: 10.1093/brain/awl331

## **YASIN, Ifat**

**Yasin, I.**, and Plack, C.J. (2005). "The role of suppression in the upward spread of masking," *J. Assoc. Res. Otol.* **6**, 368-377.

## **YEUNG, Nick**

**Yeung** N, Nystrom LE, Aronson JA, Cohen JD (2006). Between-task competition and cognitive control in task switching. *Journal of Neuroscience*, 26:1429-1438.

**Yeung** N, Cohen JD (2006). The impact of cognitive deficits on conflict monitoring: Predictable dissociations between the ERN and N2. *Psychological Science*, 17:164-171.

Nieuwenhuis S, **Yeung** N (2005). Neural mechanisms of attention and control: losing our inhibitions? *Nature Neuroscience*, 8:1631-1633.