

Book Chapters

1. Cowell, P.E. (2010) Auditory laterality - Recent findings in speech asymmetry. In: *The two halves of the brain: Information processing in the cerebral hemispheres*. K Hugdahl and R Westerhausen (Eds). M.I.T. Press. pages 349-377.
2. Cowell, P.E., Denenberg, V., Boehm, G., Kertesz, A. and Nasrallah, H. 2003. Using the corpus callosum as an effective anatomical probe in the study of schizophrenia. In: *The Parallel Brain: Cognitive Neuroscience of the Corpus Callosum* Zaidel, E. and Iacoboni, M (Eds.). M.I.T. Press. pages 433-444.
3. Cowell, P.E. 2003. Size differences in the corpus callosum: Beyond the main effects. In: *The Parallel Brain: Cognitive Neuroscience of the Corpus Callosum* Zaidel, E. and Iacoboni, M (Eds.). M.I.T. Press. pages 64-69.
4. Cowell, P.E. and Denenberg, V.H. 2002. Development of laterality and the role of the corpus callosum rodents and humans. In. *Comparative Vertebrate Lateralisation*. L. Rogers and R. Andrew (Eds.) Cambridge University Press. pages 274-305.
5. Cowell, P.E., Waters, N.S., and Denenberg, V.H. 1997. Effects of early environment on the development of functional laterality in Morris maze performance. In: *Hemispheric Specialisation in Animals and Humans*. J. Fagot, L. Rogers, J. Ward, B. Bulman-Fleming and W. Hopkins (Eds.) Hove, UK: Psychology Press.

Journal Articles

1. Wignall EL., Papadakis, N., Wilkinson, ID., Hoggard N., Wallis, LI., Cowell, P.E., Griffiths PD. (2010) Corpus callosum morphology and underlying microstructure assessed using diffusion tensor imaging in adults with Neurofibromatosis type 1. *AJNR*, 31: 856 - 861.
2. Chen, Z.-Y., Cowell, P.E., Varley, R.A., and Y-C. Wang. 2009. A cross-language study of verbal and visuospatial working memory span. *Journal of Clinical and Experimental Neuropsychology*, 31:385-391.
3. Ankerstein, C.A., Varley, R.A., and Cowell, P.E. 2009. A new set of 84 coloured nonobjects. *Behavior Research Methods*, 41:172-176.
4. James, S., Brumfitt, S., and Cowell, P.E. 2009. The influence of the communication situation on self-report of people who stammer. *International Journal of Speech-Language Pathology*, 11:34-44.

5. Rees, J.M., Regunath, G., Whiteside, S.P., Wadnerkar, M.B., and Cowell, P.E. 2008. Adaptation of wavelet transform analysis to the investigation of biological variations in speech signals. *Medical Engineering and Physics*, 30:865-871.
6. Wadnerkar, M.B., Whiteside, S.P. and Cowell, P.E. 2008. Dichotic listening asymmetry: effects of sex differences and menstrual cyclicity, *Laterality*, 13:297-309.
7. Cowell, P.E., Sluming, V.A., Wilkinson, I.D., Cezayirli, E., Romanowski, C.A.J., Webb, J.A., Keller, S.S., Mayes, A., and Roberts, N. 2007. Effects of sex and age on regional prefrontal brain volume in two human cohorts, *European Journal of Neuroscience*, 25(1):307-318.
8. Wadnerkar, M.B., Cowell, P.E., and Whiteside, S.P. 2006. Speech across the menstrual cycle: a replication and extension study, *Neuroscience Letters*, 408:21-24.
9. Varley, R.A., Cowell, P.E., Gibson, A. and Romanowski, C. 2005. Disconnection agraphia in a case of multiple sclerosis: The isolation of letter movement plans from language. *Neuropsychologia*, 43: 1503-1513.
10. Boucher, J., Cowell, P., Howard, M., Broks, P., Farrant, A., Roberts, N., and Mayes, A. 2005. A combined clinical, neuropsychological and neuroanatomical study of adults with high functioning autism. *Cognitive Neuropsychiatry*, 10:165-213.
11. Whiteside, S.P., Hanson, A., and Cowell, P.E. 2004. Hormones and temporal components of speech: sex differences and effects of menstrual cyclicity on speech. *Neuroscience Letters*, 367:44-47.
12. Howard, M., Roberts, J.N., Garcia-Finana, M., and Cowell, P.E. 2003. Volume estimation of prefrontal cortical subfields using MRI and stereology. *Brain Research Protocols*, 10:125-138.
13. Whiteside, S.P. and Cowell, P.E. 2001. Comment on delayed left-ear accuracy in dichotic listening. *Perceptual and Motor Skills*, 92:548-550.
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Conference Abstracts

1. Cowell, P.E., Ledger, W.L., Wadnerkar, M.B., Skilling, F.A., and Whiteside S.P. (2010) Changes in speech perception asymmetry as a function of menstrual cycle phase and ovarian hormones. Organization for the Study of Sex Differences, Ann Arbor, Michigan, USA, June 3-5, 2010.
2. Whiteside, S.P., Cowell, P.E., Ledger, W, and Rees, J.M. (2010) Wavelet analysis and effects of hormones on speech. Engineering and Medical Sciences Research Day, University of Sheffield, 23 March 2010.
3. Hsu, F-C., Whiteside, S.P., and Cowell, P.E. (2010) Dichotic perception of tonal and non-tonal languages in native speakers of Mandarin and English. Tokyo Conference on Psycholinguistics, Tokyo, Japan, March 12-13, 2010.
4. Sluming V, Mayes A, Wilkinson I, Romanowski C., Cezayirly E, Roberts N, and Cowell P.E. (2010) Effects of sex and age on regional frontal lobe GM distribution. ISMRM, Stockholm, Sweden, May 1-7, 2010.
5. Varley, R.A., Cowell, P.E., Dyson, L., Roper, A.H., Inglis, A.L., and Whiteside, S.P. (2009). Lexical therapy for apraxia of speech. Science of Aphasia. Antalya, Turkey, September, 2009.
6. Dyson, L., Roper, A.H., Cowell, P.E., Inglis, A.L., Whiteside, S.P. and Varley, R.A. (2009) Self-administered therapy for work production impairments in aphasia and apraxia. British Aphasiology Society, Sheffield, UK. September 2009.
7. Zimmerer, V.C., Cowell, P.E., Roper, A.H. and Varley, R.A. (2009) Aphasic sequence blindness with and without words. British Aphasiology Society, Sheffield, UK. September 2009.
8. James, S., Brumfitt, S., and Cowell, P.E. (2009) Ecological Momentary Assessment in Stuttering Practice and Research: Preliminary Data. 6th World Congress on Fluency Disorders, Rio de Janeiro Brazil. August 2009.
9. James, S., Brumfitt, S., and Cowell, P.E. (2009) Online self report: developing a tool for clinical practice. European CPOLOL Congress. Ljubljana, Slovenia, 14-16 May, 2009.

10. Hsu, F-C., Whiteside, S.P., and Cowell, P.E. (2009) Dichotic listening of syllables in Mandarin and English. Psycholinguistics in Flanders. Antwerp, Belgium, 18-19 May, 2009.
11. Zimmerer, V.C., Cowell, P.E. and Varley, R.A. (2009) Structural Complexity in Language and Cognition. Conference on Recursion at Umass, USA, May 26-28, 2009.
12. Abdulkareem, I., Garcia-Finana, M., Cowell, P.E., and Sluming, V.S. (2009) Morphometric comparison of the corpus callosum between male orchestral musicians and non-musicians. British Neuroscience Association, Liverpool, UK, April 2009.
13. James, S., Brumfitt, S., and Cowell, P.E. (2009) The influence of the communication situation on self-report of people who stammer. Royal College of Speech and Language Therapists Scientific Conference. London, March 2009.
14. Zimmerer, V.C., Cowell, P.E., and Varley, R.A. (2008) Artificial grammar learning in severe agrammatism. The Academy of Aphasia Annual Meeting. Turku, Finland. October 19-21, 2008.
15. Zimmerer, V.C., Cowell, P.E., and Varley, R.A. (2008) Using Artificial Grammar Learning to find recursive syntax processing in humans. 3rd International Conference German Cognitive Linguistics Association. Leipzig, Germany, September, 2008.
16. Zimmerer, V.C., Cowell, P.E., and Varley, R.A. (2008) Grammar and thought in people with severe aphasia. Conference on Language, Communication and Cognition. Brighton, UK, August 4-7, 2008.
17. James, S., Brumfitt, S., and Cowell, P.E. 2008. The influence of communication situation on self-report on people with stuttering impairment. Oxford Dysfluency Conference. Oxford, UK, July 3-6, 2008.
18. Wadnerkar, M.B., Whiteside, S.P. and Cowell, P.E. 2008. Verbal fluency performance and cognitive strategy as a function of sex and menstrual cycle phase. Organization for the Study of Sex Differences, New Orleans, USA, June 4-6, 2008.
19. Cowell, P.E., Wadnerkar, M.B., and Whiteside, S.P. 2006. Effects of sex and menstrual cycle phase on speech and related behavioural systems. International Society for Behavioral Neuroscience, Fourteenth Annual Meeting, Bath Spa University, Bath, UK, July 3-7, 2006.
20. Wadnerkar, M.B., Whiteside, S.P., and Cowell, P.E. 2006. Dichotic listening performance: effects of sex differences and menstrual cyclicity. *British Psychological Society, Annual Meeting*, Cardiff UK, 30 March – 1 April 2006.
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biobehavioural systems. Institute for Chemical Engineering, Chemical and Process Engineering, Hybrid Modelling and Neural Networks in Process Engineering Symposium, 22 November 2005, Leeds, UK.

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36. Cowell, P.E., Adler, R.A., Yan, M.X.-H., Grossman, R.I. and Gur, R.E. 1996b. Sex differences in regional prefrontal anatomy in patients with schizophrenia. *Society for Neuroscience Abstracts*, 22:1191.
37. Kumar, A., Miller, D., Cowell, P., Bilker, W., Zhisong, J., and Gottlieb, G. 1996. Focal neuroanatomic substrates in late-life major depression. *Society for Neuroscience Abstracts*, 22:265.
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42. Cowell, P.E., Turetsky, B.I., Gur, R.C. and Gur, R.E. 1993. Sex differences in aging of the human frontal and temporal lobes. *Society for Neuroscience Abstracts*, 19:179.
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44. Cowell, P.E., Jernigan, T.L., Tallal, P.A., and Denenberg, V.H. 1991. Prenatal risk and corpus callosum development in language and learning impaired children. *Society for Neuroscience Abstracts*, 17:1044.
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46. Cowell, P.E., Allen, L. S., Zalatio, N., and Denenberg, V.H. 1990. Effects of sex and age on regional morphology of the human corpus callosum. *Society for Neuroscience Abstracts*, 16:926.
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Peer Reviewed Book Review

Cowell, P.E. (2001) Invited book review of “Neurobehavior of language and cognition: Studies of normal aging and brain damage honouring Martin L. Albert.” *Cognitive Neuropsychiatry*, 6:235-239.