

APPENDIX XIV.

PUBLISHED ABSTRACTS

by members of the Medical Physics Unit : 2007 calendar year
(names of MPU staff members are underlined, students are indicated by †)

1. S. Devic, T. Vuong, M.D.C. Evans, E.B. Podgorsak, *3D image-guided brachytherapy*, Adv. Radioth. in Multimodality Oncol. **1**, OA-12 (2007).
2. S. Devic, T. Vuong, M.D.C. Evans, E.B. Podgorsak, *HDR endorectal brachytherapy quality assurance*, Adv Radioth in Multimodality Oncol **1**, PA-25 (2007).
3. S. Devic, M.D.C. Evans, E.B. Podgorsak, T. Vuong, *3D image-guided brachytherapy*, Proceedings of The Seventh Asia-Oceania Congress on Medical Physics, The Thirteenth National Annual Meeting of Medical Physics, 42 (2007).
4. E. Klepousniotou, V. Gracco, G.B. Pike, *Assessing metaphorical language processing in normal and brain-damaged populations*, Ninth European Association of Psychological Assessment and Second International Conference on Psychological Assessment of the Psychological Society of Northern Greece, Thessaloniki, Greece, May 03-06, 2007.
5. E. Klepousniotou, V. Gracco, G.B. Pike, *Competition effects in lexical ambiguity processing*, Cognitive Neuroscience Society Annual Meeting, New York, May 05-08, 2007.
6. P. Savadjiev, J. Campbell, M. Descoteaux, R. Deriche, G.B. Pike, K. Siddiqi, *Disambiguation of complex subvoxel fibre configurations in high angular resolution fibre tractography*, Joint Annual Meeting ISMR–ESMRMB, Berlin, Germany, May 19-25, 2007.
7. J.J. Chen, K. Advani, G.B. Pike, *Characterization of the BOLD post-stimulus undershoot*, Joint Annual Meeting ISMR–ESMRMB, Berlin, Germany, May 19-25, 2007.
8. J.J. Chen, G.B. Pike, *Dynamic measurement of functional changes in venous cerebral blood volume at 3T*, Joint Annual Meeting ISMR–ESMRMB, Berlin, Germany, May 19-25, 2007.
9. C. Mark, G.B. Pike, *Neurovascular metabolism coupling in the human visual cortex: A biophysical BOLD fMRI model comparison*, Joint Annual Meeting ISMR–ESMRMB, Berlin, Germany, May 19-25, 2007.
10. C.L. Tardif, **G.B. Pike**, *Comparison of T1-weighted 3D high-resolution anatomical sequences for the brain at 3 Tesla: FLASH, MP-RAGE and MDEFT*, Joint Annual Meeting ISMR–ESMRMB, Berlin, Germany, May 19-25, 2007.
11. I.R. Levesque†, **G.B. Pike**, *Characterization of myelin damage in multiple sclerosis using myelin water imaging: Insight from simulations on a four pool model of white matter*, Joint Annual Meeting ISMR–ESMRMB, Berlin, Germany, May 19-25, 2007.
12. I.R. Levesque†, S. Narayanan, L.T. Ribeiro, J.G. Sled, D.L. Arnold, G.B. Pike, *Reproducibility of quantitative magnetization transfer imaging parameters*, Joint Annual Meeting ISMR–ESMRMB, Berlin, Germany, May 19-25, 2007.
13. B. Reniers, D. Liu†, T. Rusch, F. Verhaegen, *Spectral analysis and microdosimetric MC study around a novel electronic brachytherapy device*, 3rd International Workshop on Monte Carlo Techniques in Radiotherapy Delivery and Verification, Montreal, Canada, May 29-June 01, 2007.
14. C. Furstoss, B. Reniers, E. Poon†, M. D'Amour, J-F. Carrier, L. Beaulieu, J. Williamson, F. Verhaegen, *Monte Carlo iodine brachytherapy dosimetry: Study for a clinical application*, International Workshop on Monte Carlo Techniques in Radiotherapy Delivery and Verification, Montreal, Canada, May 29-June 01, 2007.

15. E. Poon†, B. Reniers, Y. Le, J. Williamson, F. Verhaegen, *Dose perturbations due to applicator shielding and patient heterogeneities for 192Ir high dose rate rectal brachytherapy treatment*, International Workshop on Monte Carlo Techniques in Radiotherapy Delivery and Verification, Montreal, Canada, May 29-June 01, 2007.
16. D. Liu†, E. Poon†, M. Bazalova†, B. Reniers, M.D.C. Evans, J.P. Seuntjens, T. Rusch, F. Verhaegen, *Geant4 Monte Carlo characterization of novel electronic brachytherapy system*, International Workshop on Monte Carlo Techniques in Radiotherapy Delivery and Verification, Montreal, Canada, May 29-June 01, 2007.
17. S. Frey, J.S.W. Campbell, G.B. Pike, M.H. Kachaturian, V. Vanduffel, M. Petrides, *Homologues of areas 44 and 45 in the monkey using diffusion tensor fiber tractography*, Proceedings of the 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
18. C.I. Mark, G.B. Pike, *Neurovascular metabolism coupling in the human visual cortex: A biophysical BOLD fMRI model comparison*, Proceedings of the 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM) Chicago, IL, June 10-14, 2007.
19. J.J. Chen, G.B. Pike, *Functional MRI measurement of venous cerebral blood volume measurement at 3 Tesla*, Proceedings of the 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM) Chicago, IL, June 10-14, 2007.
20. J.J. Chen, K. Advani, G.B. Pike, *Analysis of the biomechanical origin of the post-stimulus undershoot in BOLD*, Proceedings of the 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM) Chicago, IL, June 10-14, 2007.
21. E. Klepousniotou, V. Gracco, G.B. Pike, *Investigating the right hemisphere's involvement in language processing: An fMRI study*, Society for Neuroscience Meeting, San Diego, CA, November 03-07, 2007.
22. S. Frey, M. Petrides, G.B. Pike, M.H. Khachaturian, L.B. Ekstrom, J. Arsenault, W. Vanduffel, *Microstimulation and fMRI of areas 44 and 45 in the non-human primate*, Society for Neuroscience Meeting, San Diego, CA, November 03-07, 2007.
23. E. Klepousniotou, V.L. Gracco, G.B. Pike, *Functional neuroimaging of the linguistic abilities of the right hemisphere: What do we want to see in brain imaging?*, London, UK, December 03-04, 2007.
24. D.L. Arnold, J. Chen, S. Narayanan, P. Giacomini, G.B. Pike, D.L. Collins, *Imaging degeneration and repair in MS*, The Canadian end MS Research Conference, Banff AB, December 10-13, 2007.
25. E. Klepousniotou, V.L. Gracco, G.B. Pike, *Functional neuroimaging evidence regarding the role of the right hemisphere in language processing*, Submitted to the Hellenic Society for Neuroscience 2007, Thessaloniki, Greece, November 30–December 01, 2007.
26. E. Klepousniotou, G.B. Pike, V.L. Gracco, *N400 modulations predict patterns of meaning activation in homonymy and polysemy*, 3rd International Congress on Brain and Behaviour, Thessaloniki, Greece, November 28–December 02, 2007.