

## APPENDIX IX.

### PUBLICATIONS

by members of the Medical Physics Unit : 2013 calendar year (x 60)  
(names of MPU staff members are underlined, students are indicated by †)

1. S.D. Davis, W. Parker, M.D.C. Evans, *Using mean dose rate to compare relative dosimetric efficiency with respect to source type and source change schedules for HDR brachytherapy*, J. Appl. Clin. Med. Phys. **14**, 53–61 (2013).
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3. J.S.W. Campbell, G.B. Pike, *Potential and limitations of diffusion MRI tractography for the study of language*, Brain and Language, July 2013. doi:10.1016/j.bandl.2013.06.007.
4. E. Klepousniotou, V.L. Gracco, G.B. Pike, *Pathways to lexical ambiguity: fMRI evidence for bilateral fronto-parietal involvement in language processing*, Brain & Language, October 2013 [Epub ahead of print].
5. P.A. MacDonald, H. Ganjavi, D.L. Collins, S. Karama, A.C. Evans, The Brain Development Cooperative Group, *Investigating the relation between striatal volume and IQ*, Brain Imaging Behav., Jun 30, 2013.
6. C. Haegelen, P. Coupé, V.S. Fonov, N. Guizard, P. Jannin, X. Morandi, D.L. Collins, *Efficiency of automated segmentation of basal ganglia and deep brain structures on MRI of patients with Parkinson's disease*, Intl. J. Comp. Asst. Radiol. Surg. **8**(1), 99-110 (2013).
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9. G. Landry, F. deBlois, F. Verhaegen, *ImaSim, a software tool for basic education of medical x-ray imaging in radiotherapy and radiology*, Front Physics **1**, 22 (2013).
10. R. Schirmacher, V. Bernard-Gauthier, A.J. Reader, J.P. Soucy, E. Schirmacher, B. Wängler, C. Wängler, *Design of brain imaging agents for positron emission tomography: Do large bioconjugates provide an opportunity for in vivo brain imaging?* Future Medicinal Chemistry **5**(14), 1621-1634 (2013).
11. M.M. Chakravarty, P. Steadman, M.C. van Eede, R.D. Calcott, V. Gu, P. Shaw, A. Raznahan, D.L. Collins, J.P. Lerch, *Performing label-fusion based segmentation using multiple automatically generated templates*, Human Brain Mapping **34**(10), 2635-54 (2013).
12. B. Axelsson, C.E. de Almeida, H. Delis, W.R. Hendee, I.D. McLean, B. Moftah, J. Seuntjens, S. Tabakov, A.K. Toutaoui, W. Van der Putten, D. van der Merwe, *Postgraduate medical physics academic programmes*, endorsed by the International Organization for Medical Physics (IOMP) Training Course Series 56, International Atomic Energy Agency (IAEA), Vienna, Austria, December 2013, pp. 1-27, ISSN1018-5518.
13. L. Rittner, J.S.W. Campbell, P.F. Freitas, S. Appenzeller, G.B. Pike, R.A. Lotufo, *Analysis of scalar maps for the segmentation of the corpus callosum in diffusion tensor fields*, J. Math. Imaging & Vision **45**, 214-226 (2013). DOI 10.1007/s10851-012-0377-4.
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26. S.F. Eskildsen, P. Coupé, D. García-Lorenzo, V.S. Fonov, J.C. Pruessner, D.L. Collins, *Prediction of Alzheimer's disease in subjects with mild cognitive impairment from the ADNI cohort using patterns of cortical thinning*, Neuroimage **65**, 511-21 (2013).
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