

## 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 )

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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).
2. G. Forestier, F. Lalys, D.L. Collins, J. Meixensberger, S. Wassef, T. Neumuth, B. Goulet, L. Riffaud, P. Jannin, *Multi-site study of surgical practice in neurosurgery based on surgical process models*, J. Biomed. Informatics **46**(5), 822-829 (2013).
3. J.S.W. Campbell, G.B. Pike, *Potential and limitations of diffusion MRI tractography for the study of language*

16. J. Morin, D. Béliveau-Nadeau, E. Chung†, J. Seuntjens, D. Thériault, L. Archambault, S. Beddar, L. Beaulieu, *A comparative study of small field total scatter factors and dose profiles using plastic scintillation detectors and other stereotactic dosimeters: The case of the CyberKnife*, Med. Phys. **40**(1), 011719-1-011719-10, (2013).
17. J. Renaud†, D. Marchington, J. Seuntjens, A. Sarfehnia, *Development of a graphite probe calorimeter for absolute clinical dosimetry*, Med. Phys. (Letters) **40**(2), 020701 (2013).
18. J. Verhaeghe, A.J. Reader, *Accelerated PET water activation acquisition with signal separation methodology*, Med. Phys. **40**(3), art no. 031909 (2013).
19. B. White, T. Zhao, J. Lamb, S. Wuenschel, J. Bradley, I. El Naqa, D. Low, *Distribution of lung tissue motion during free breathing*, Med. Phys. **40**(4), (2013).
20. P. Papaconstadopoulos†, J. Seuntjens, *A source model for modulated electron radiation therapy using dynamic jaw movements*, Med. Phys. **40**(5), 051707-1-051070-12 (2013).
21. E. Chung†, S.D. Davis, J. Seuntjens, *Experimental analysis of general ion recombination in a liquid-filled ionization chamber in high-energy photon beams*, Med. Phys. **40**(6), 062104 (7pp) (2013). [http://online.medphys.org/resource/1/mphysa6/v40/i6/p062104\\_s1?view=fulltext](http://online.medphys.org/resource/1/mphysa6/v40/i6/p062104_s1?view=fulltext)
22. D. Markel, H. Zaidi, I. El Naqa, *Novel multimodality segmentation using level sets and Jensen-Renyi divergence*, Med. Phys. **40**, 121908 (2013).
23. S. Karama, M.E. Bastin, C. Murray, N.A. Royle, L. Penke, S.M. Maniega, A.J. Gow, J. Corley, M. del C. Valdés Hernández, J.D. Lewis, M-É. Rousseau, C. Lepage, V.S. Fonov, D.L. Collins, T. Booth, P. Rioux, T. Sherif, R. Adalat, J.M Starr, A.C. Evans, J.M. Wardlaw, I.J. Deary, *Childhood IQ explains associations between IQ and brain cortical thickness in old age*, Mol Psychiatry, Jun 4, 2013. doi: 10.1038/mp.2013.64.
24. C.L. Tardif, B.J. Bedell, S.F. Eskildsen,

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- resolution PET [18F]Fallypride study in cocaine dependent participants, Neuropsychopharm. 38(9), 1780-1788 (2013).*
34. N.W. Duncan, P. Gravel, C. Wiebking, A.J. Reader, O. Lyttleton, G. Northoff, *Grey matter density and GABAA binding potential show a positive linear relationship across cortical regions, Neuroscience 235, 226-231 (2013).*
  35. S.H. Kim, V.S. Fonov, C. Dietrich, C. Vachet, H.C. Hazlett, R.G. Smith, M.M. Graves, J. Piven, J.H. Gilmore, S.R. Dager, R.C. McKinstry, S. Paterson, A.C. Evans, D.L. Collins, G. Gerig, M.A. Styner, I. Network, *Adaptive prior probability and spatial temporal intensity change estimation for segmentation of the one-year-old human brain*

