

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).
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*

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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
 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*

