APPENDIX X.

PUBLISHED ABSTRACTS

by members of the Medical Physics Unit : 2013 calendar year (x 98)
(names of MPU staff members are underlined, students are indicated by †)

1. S.D. Davis, W. Parker, M.D.C. Evans, Using integral activity to compare relative dosimetric efficiency with respect to source type and source change schedules for high-dose-rate brachytherapy, Brachytherapy 12(1), S41–S42 (2013).
15. M. Hobson, S. Davis, (2013) Correcting the asymmetric response observed in portal dosimetry images due to backscatter from the treatment arm: Comparison between an in house 1-D profile correction method and a 2-D correction provided in Varian’s PDPC package, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S103, abs. 275.


32. G. Aldosary†, J. Seuntjens, A. Sarfehnia, Change of ionization chamber correction factors (Ppol, Pion, KWall) with chamber walls of different materials in continuous and pulsed beams, Med. Phys. 40(6), 222 (2013).


77. Y. Zlateva†, I. El Naqa, N. Quitoriano, Red spectral shift of Cherenkov emission with applications in image-guided and intensity-modulated radiation therapy, AAPM, Indiana, IN, July 2013.
78. P. Pater†, J. Seuntjens, M. Bernal, I. El Naqa, Electronic equilibrium in RBE of DSB induction in Monte Carlo simulations of low energy photon and electron track structures, AAPM, Indiana, IN, July 2013.
80. M. Vallieres†, A. Kumar, K. Sultanem, I. El Naqa, FDG-PET imaging features can predict treatment outcomes in head and neck cancer, AAPM, Indiana, IN, July 2013.
81. M. Vallieres†, C.R. Freeman, S. Skamene, I. El Naqa, Joint FDG-PET/CT imaging for the early prediction of tumor outcomes, AAPM, Indiana, IN, July 2013.
82. Y. Zlateva†, I. El Naqa, M.D.C. Evans, Preliminary study of Cherenkov emission by radiotherapy treatment beams for potential applications as optical dosimeter, COMP-CARO, Montreal, QC, September 2013.
A new probabilistic model for DNA strand breaks simulation using Monte Carlo track structures, COMP-CARO, Montreal, QC, September 2013.

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The role of stem-like cells in regional radiosensitivity of the lung, COMP-CARO, Montreal, QC, September 2013.

Copy number variations as predictors of late toxicities in prostate cancer, ASTRO, Atlanta, GA, September 2013.

Radiosensitivity of head and neck squamous cell carcinoma derived cells lines and normal tissue cells, ASTRO, Atlanta, GA, September 2013.

The role of stem-like cells in regional radiosensitivity of the lung, ASTRO, Atlanta, GA, September 2013.

FDG-PET Image-derived features can determine HPV status in head and neck cancer, ASTRO, Atlanta, GA, September 2013.

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