

APPENDIX XII

CONFERENCE & SEMINAR PRESENTATIONS

by members of the Medical Physics Unit : 2014 calendar year (x 41)

(presenter is indicated by an asterisk *)

(the names of staff members of the MPU are underlined, students are indicated by †)

1. M. Fan†*, G. Stroian, Quantitative evaluation and quality control of treatment plans using a web-based application, 5th Winter School of the Canadian Organization of Medical Physics (COMP), Québec City, Québec, January 26-30, 2014.
2. Y. Zlateva†*, I. El Naqa, Investigation of Cherenkov emission with applications in dosimetry, image guidance and intensity modulation in radiation therapy, CIRMS, Gaithersburg, Maryland, March 2014.
3. S. Lee†*, N. Ybarra, K. Jeyaseelan, S. Faria, N. Kopek, M. Vallières, I. El Naqa, Association of computed tomography image textures with inflammatory biomarkers in radiation-induced lung injury, ESTRO 33, Vienna, Austria, April 04-08, 2014.
4. D. Markel†*, I. El Naqa, Development of a novel regimentation framework using the Jensen Renyi divergence for adaptive radiotherapy”, ESTRO 33, Vienna, Austria, April 04-08, 2014.
5. B. Mofteh*, F. Alrumayyan, S. Aldelajjan, M. Shehadeh, F. Alzorkani, J. Seuntjens, S. Devic, Dosimetric characterization of low energy protons for intra-operative radiation therapy, ESTRO 33, Vienna, Austria, April 04-08, 2014.
6. S. Devic, S. Asgharizadeh†, A. Syme, F. DeBlois, J. Seuntjens, I. El Naqa, H. Bekerat, Radiochromic film based patient specific QA for brachytherapy, ESTRO 33, Vienna, Austria, April 04-08, 2014.
7. I.R. Levesque, M. Saranathan, T. Tourdias, J. Su, J.A. Rioux, B.K. Rutt, Robust B1-insensitive whole-brain T1 mapping with 3-TI MP-RAGE: Validation and acquisition strategy, Joint Meeting of the ISMRM-ESMRMB, Milan, Italy, May 10-16, 2014.
8. K. O’Grady†*, S.D. Davis, P. Papaconstadopoulos†, J. Seuntjens, Depth and off-axis dose perturbation effects in water in an 18 MV photon beam for a liquid ionization chamber and an air-filled ionization chamber, International Workshop on Monte Carlo Techniques in Medical Physics, Québec, Québec, June 17-20, 2014.
9. S. Hickling†*, P. Léger, I. El Naqa, Development and validation of a simulation platform to model acoustic waves induced by linear accelerator irradiation, International Workshop on Monte Carlo Techniques in Medical Physics, Québec, Québec, June 17-20, 2014.
10. Y. Zlateva†*, I. El Naqa, Monte Carlo simulation of Cherenkov emission by high-energy radiotherapy beams: Investigating a novel optical approach to dosimetry and online imaging in radiotherapy, International Workshop on Monte Carlo Techniques in Medical Physics, Québec, Québec, June 17-20, 2014.
11. J.R. Perez†*, N. Ybarra, O. Maria†*, F. Chagnon, O. Lesur, I. El Naqa, In vivo fluorescence imaging and endomicroscopy for tracking of mesenchymal stem cells in post-radiotherapy lung injury rat model, 12th annual meeting of the International Society for Stem Cell Research (ISSCR), Vancouver, British Columbia, June 18-21, 2014.
12. K. Asiev, J. Mullins†, F. DeBlois, L. Liang, A. Syme, An automated XML technique for isocentre verification on the Varian TrueBeam, Poster, 60th Annual Meeting of the Canadian Organization of Medical Physicists, Banff, Alberta, July 09-12, 2014.
13. J. Mullins†, K. Asiev, F. DeBlois, M. Morcos, J. Seuntjens, A. Syme, Enabling trajectory-based radiotherapy on a TrueBeam accelerator with the Eclipse treatment planning system, 60th Annual Meeting of the Canadian Organization of Medical Physicists, Banff, Alberta, July 09-12, 2014.
14. K. O’Grady, S.D. Davis, P. Papaconstadopoulos, J. Seuntjens, Off-axis dose perturbation effects in water in a $5 \times 5 \text{ cm}^2$ 18 MV photon beam for the PTW microLion and Exradin A1SL ionization chambers, 60th Annual Meeting of the Canadian Organization of Medical Physicists and the Canadian College of Physicists in Medicine, Banff, Alberta, July 09-12, 2014.

15. J. Coates†*, K. Jeyaseelan, N. Ybarra, M. David, S. Faria, L. Souhami, F. Cury, M. Duclos, I. El Naqa, Radiogenomic modeling of normal tissue toxicities in prostate cancer patients receiving hypofractionated radiotherapy, First place - J.R. Cunningham Young Investigator Symposium, 60th Annual Meeting of the Canadian Organization of Medical Physicists and the Canadian College of Physicists in Medicine, Banff, Alberta, July 09-12, 2014.
16. Y. Zlateva†*, N. Quitariano, I. El Naqa, Shining light on the implementation of Cherenkov emission in radiation therapy, 60th Annual Meeting of the Canadian Organization of Medical Physicists and the Canadian College of Physicists in Medicine, Banff, Alberta, July 09-12, 2014.
17. S. Peloquin, C. Furstoss, P. Munger, W. Wierzbicki, Respiratory gating with an Elekta flattening filter free photon beam, 60th Annual Meeting of the Canadian Organization of Medical Physicists and the Canadian College of Physicists in Medicine, Banff, Alberta, July 09-12, 2014.
18. D. Markel†*, I.R. Levesque, I. El Naqa, A 4D multimodal lung phantom for regmentation evaluation, 60th Annual Scientific Meeting of the Canadian Organization of Medical Physicists, Banff, Alberta, July 09-12, 2014.
19. D. Markel†*, I. El Naqa, I. Levesque, A 4D lung phantom for coupled registration/segmentation evaluation, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
20. S. Hickling†*, M. Hobson, I. El Naqa, Feasibility of x-ray acoustic computed tomography as a tool for calibration and in vivo dosimetry of radiotherapy electron and photon beams, John R. Cameron Young Investigator Symposium, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
21. P. Pater†*, J. Seuntjens, I. El Naqa, New method to simulate DNA damage using ionization cross-sections and a geometrical nucleosome model, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
22. J. Coates†*, K. Jeyaseelan, N. Ybarra, M. David, S. Faria, L. Souhami, F. Cury, M. Duclos, I. El Naqa, Radiogenomic modeling of normal tissue toxicities in prostate cancer patients receiving hypofractionated radiotherapy, Best in Physics (Therapy), 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
23. Y. Zlateva†*, N. Quitariano, I. El Naqa, Shining light on the implementation of Cherenkov emission in radiation therapy, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
24. S. Lee†*, N. Ybarra, K. Jeyaseelan, S. Faria, N. Kopek, I. El Naqa, Ensemble of graphical models for predicting radiation pneumonitis risk, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
25. P. Pater†*, I. El Naqa, J. Seuntjens, Sensitivity analysis of the threshold energy for the creation of strand breaks and of single and double strand break clustering conditions, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
26. M. Vallières†*, S. Laberge, I. Levesque, I. El Naqa, Enhancement of texture-based metastasis prediction models via the optimization of PET/MRI acquisition protocols, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
27. S. Laberge, M. Vallières†*, I. Levesque, I. El Naqa, STAMP: Simulator for texture analysis in MRI/PET, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
28. I.J. Gerard, J.A. Hall, K. Mok, D.L. Collins, Repeated landmark use for patient-to-image registration reduces fiducial registration error in patient-to-image mapping in image guided neurosurgery, 56th annual meeting of the American Association of Physicists in Medicine (AAPM), Austin, Texas, July 20-24, 2014.
29. K. Sabit, L. Souhami, V. Panet-Raymond, I. El Naqa, G. Shenouda, Volumetric evolution of pituitary macroadenomas following surgical resection and indications for immediate adjuvant radiotherapy, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.
30. N. Ybarra, S. Lee†*, O. Maria†, K. Jeyaseelan, J. Perez†, M. Serban, I. El Naqa, Impact of mesenchymal stem cells delivery routes on recovery from radiation-induced lung injury Ct dosimetry: Preclinical investigation, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.

31. J. Coates†*, K. Jeyaseelan, N. Ybarra, M. David, S. Faria, L. Souhami, F. Cury, M. Duclos, I. El Naqa, Radiogenomic modeling of normal tissue toxicities in prostate cancer patients receiving hypofractionated radiotherapy, Best in Physics, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.
32. J.R. Perez†*, M. Vallières†, N. Ybarra, O. Maria†, F. Chagnon, O. Lesur, I. El Naqa, Fluorescence endomicroscopy as a tool to assess radiation-induced lung damage, protection and regeneration, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.
33. K. Sabit, L. Souhami, V. Panet-Raymond, I. El Naqa, G. Shenouda, Volumetric evolution of pituitary macroadenomas following surgical resection and indications for immediate adjuvant radiotherapy, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.
34. Y. Zlateva†*, N. Quitoriano, I. El Naqa, Shining light on the implementation of Cherenkov emission in radiation therapy, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.
35. M. Vallières†*, C.R. Freeman, S.R. Skamene, I. El Naqa, Early assessment of tumor aggressiveness using joint FDG-PET/MR textural features, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.
36. S. Hickling†*, M. Hobson, I. El Naqa, Feasibility of x-ray acoustic computed tomography as a tool for non-invasive volumetric in vivo dosimetry, 56th annual meeting of the American Society for Radiation Oncology (ASTRO), September 14-17, 2014, San Francisco, California.
37. S. Peloquin, C. Furstoss, P. Munger, W. Wierzbicki, Radiothérapie asservie à la respiration en combinaison avec faisceau sans filter égalisateur, Association québécoise des physicien(ne)s médicaux cliniques (AQPMC) Journée étudiantes, November 14, 2014, Montréal, Québec.
38. I. Levesque, T1 mapping: The up and down (and up) story of an old technique, Noon Seminar Series, McGill University, November 21, 2014, Montréal, Québec.
39. M.E. Lafaille-Magnan, D.L. Collins, V. Fonov, D. Fontaine, P. Etienne, J. Poirier, J. Breitner, Association of olfactory performance and hippocampal volume in persons at risk of alzheimer's dementia, *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* 10(4), P85-P86 (2014).
40. A. Zandifar, V. Fonov, P. Coupé, J.C. Pruessner, D.L. Collins, A unified assessment of fully automated hippocampus segmentation methods, *Alzheimer's Association International Conference on Alzheimer's Disease, AAIC*, Copenhagen.
41. N. Faridi, S. Karama, M. Burgaleta, M. White, A.C. Evans, V. Fonov, D.L. Collins, D.P. Waber, Neuroanatomical correlates of behavioral rating versus performance measures of working memory in typically developing children and adolescents, *American Psychological Association*.