# ICTR-PHE 2016

# *Scientific poster list*

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| 1 | Toward brachytherapy with ytterbium sources | Akulinichev, Sergey |
| 2 | Conformal proton therapy with passive scattering | Akulinichev, Sergey |
| 3 | RBE for Carbon ions In Vivo for Tumor Control and Normal Tissue Damage | Alsner, Jan |
| 4 | PET scanning of ocular melanoma after proton irradiation | Amin, Tanjilul |
| 5 | Ocular Melanoma cells in the presence of nanoparticles against cobalt 60 radiation therapy- Monte Carlo and In Vitro studies | Asadi, Somayeh |
| 6 | Laser therapy of human choroidal Melanoma in the presence of gold nanoparticles - Monte Carlo and In Vitro Study | Asgari, Mehdi |
| 7 | A systematic Monte Carlo study on the dosimetric and imaging properties of C-11 and O-15 beams. | Augusto, Ricardo |
| 8 | Alanine as a Dose Verification Tool for Carbon Ion In-Vivo Irradiation | Bassler, Niels |
| 9 | Gamma Locator for Radionuclide Diagnostics Of Oncological Diseases | Berdnikova, Anastasia |
| 10 | Evaluation of the size of micrometric/nanometric dosimeters for use in radiotherapy and medical physics | Beuve, Michaël |
| 11 | From 2D to 3D: Proton radiography and proton CT in proton therapy: A simulation study | Biegun, Aleksandra |
| 12 | Investigation on novel solution for  a positioning system  in protontherapy | Bourhaleb, Faiza |
| 13 | GEANT4 simulation of dose deposition in patients from TomoTherapy Hi-Art Megavoltage computed tomography (MVCT) imaging. | Brochu, Frederic |
| 14 | Increasing PET scanner resolution using a Silicon detector probe | Brzezinski, Karol |
| 15 | PET Scanning Protocols for In-Situ Dose Delivery Verification of Proton Therapy | Buitenhuis, Tom |
| 16 | CTV-PTV margin reduction using prediction of respiration-induced tumour motion | Bukhari, Waqas |
| 17 | Development of a PET Insert for Human Brain Imaging: Detection System | Campos Rivera, Natalia |
| 18 | A local and global liver function model | Cao, Yue |
| 19 | Proton scattering radiography using an emulsion detector: a feasibility study | Carzaniga, Tommaso |
| 20 | Development of a track structure detector for biologically weighted treatment planning in particle therapy | Casiraghi, Margherita |
| 21 | 62 MeV Proton beams induced DNA damage in hypoxic conditions. | Chaudhary, Pankaj |
| 22 | Laser accelerated ultra high dose rate protons induced DNA damage under hypoxic conditions | Chaudhary, Pankaj |
| 23 | Faster QA through improved proton calorimetry. Another spin-off from particle physics | Chirvase, Cezarina |
| 24 | Simulation of recombination in an air filled ionization chamber | Christensen, Jeppe Brage |
| 25 | The GEMpix detector as a real-time 2D dosimeter in external photon beam radiotherapy | Claps, Gerardo |
| 26 | First tests to implement an in-house 3d-printed photon bolus procedure using clinical treatment planning system data. | Dipasquale, Giovanna |
| 27 | Brain motion induced artefacts in Microbeam Radiation Therapy: a Monte Carlo study | Donzelli, Mattia |
| 28 | How to produce the highest tin-117m specific activity? | Duchemin, Charlotte |
| 29 | Tb-155 production with gadolinium target: proton, deuteron or alpha beam? | Duchemin, Charlotte |

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| 30 | RapidArc commissioning and dosimetric verification using EPID portal dosimetry system | Dwivedi, Shekhar |
| 31 | Dosimetric Measurement for Isocentre Blocked Boost Fields in 3D-CRT Treatment Plans | Dwivedi, Shekhar |
| 33 | Proton beam irradiation inhibits cellular motility in vitro | Elas, Martyna |
| 34 | Experimental study of Radiation induced DNA damage by internal Auger electron cascade compared to external γ-rays | Fredericia, Pil |
| 35 | Multiple Code Comparisons of Proton Interactions in the Presence of Gold Nanoparticles in the Human Eye | Gaeini, Shaghayegh |
| 36 | Characterization of the immune component in the lung of KP mouse with pulmonary adenocarcinoma: from infiltrated immune cells to tertiary lymphoid structures. | Gael, Boivin |
| 37 | Detectors for quality assurance of pencil beam scanning gantries for proton therapy | Gagnon-Moisan, Francis |
| 38 | Spatial Resolution Enhancement in Integration-Mode Detectors for Proton Radiography and Tomography | Gianoli, Chiara |
| 39 | Hybrid TOF-PET/MRI local transceiver coil | Glowacz, Bartosz |
| 41 | The influence of chemical composition on quenching in proton irradiation of a new deformable 3D dosimeter | Høye, Ellen Marie |
| 42 | Accelerated Prompt Gamma estimation for clinical Proton Therapy simulations | Huisman, Brent |
| 43 | Correlation of Gross Tumour Volume and metabolic Tumour Volume for non-small cell lung cancer patients | Jameson, Michael |
| 44 | Production of and research on medical radioisotopes at the heavy ion laboratory, university of warsaw | Jastrzebski, Jerzy |
| 46 | Fast dose modulation in proton therapy with continuous line scanning | Klimpki, Grischa |
| 47 | Criteria of spot asymmetry in proton radiotherapy pencil beam scanning – a Monte Carlo study | Klodowska, Magdalena |
| 48 | 191Os – revival of an out-of-favor radionuclide? | Köster, Ulli |
| 49 | Prompt Gamma-ray Timing experiment during different modalities of proton beam delivery | Kormoll, Thomas |
| 50 | Proton Beams for Physics Experiments at OncoRay | Kormoll, Thomas |
| 51 | Development of the Flair tool for FLUKA Treatment Planning Verification | Kozlowska, Wioletta |
| 53 | Front-end  electronics and hit position reconstruction methods for the J-PET scanner | Krzemień, Wojciech |
| 54 | Single-cell S-value calculations for Auger-electron emitting radionuclides | Lee, Boon |
| 55 | Monte Carlo simulation of prompt-γ emission in proton therapy using a track length estimator | Létang, Jean |
| 56 | Recent Improvements and Applications of the FLUKA Monte Carlo code in Hadrontherapy | Mairani, Andrea |
| 57 | MONDO: a neutron tracker for particle therapy secondary emission fluxes measurements | Marafini, Michela |
| 58 | Infrared study of the biochemical effects in glioma cells induced by x-rays and Gd nanoparticles: first studies at SESAME synchrotron (Jordan) | Martínez-Rovira, Immaculada |
| 59 | Visualization of target inhomogeneities in carbon ion radiotherapy using nuclear fragments | Martišíková, Maria |
| 60 | Evaluation of the DNA damage induced by 60 MeV proton irradiation by cytogenetic and molecular methods | Miszczyk, Justyna |
| 61 | Induction of NSCs Quiescence and Neurogenesis Preservation in Mouse Adult Brain after FLASH Whole Brain Irradiation | Montay-Gruel, Pierre-Gabriel |
| 62 | Monte Carlo study of a high resolution monolithic silicon diode array for MRI-linac applications | Oborn, Brad |
| 63 | Application of biophysical modelling for normal tissue response with immunological aspects in radiotherapy | Oita, Masataka |
| 64 | Comparative evaluation of the in vitro the comet assay for the detection of genotoxic effects of 60 MeV protons and X-ray radiation | Panek, Agnieszka |
| 66 | Fused Toes Homolog (FTS) regulates EGF-induced epithelial–mesenchymal transition (EMT) and migration of cervical cancer cells | Park, Woo Yoon |
| 67 | FRED: a fast MC tool for treatment planning and dose verification in proton therapy | Patera, Vincenzo |
| 68 | The efficacy of IMRT, VMAT and IMPT to deliver highly conformal FET-PET guided boost in gliomas | Petersen, Jørgen |
| 70 | Prompt gamma imaging of passively shaped proton fields with a knife-edge slit camera | Priegnitz, Marlen |
| 71 | Evaluation of the usefulness of dose calculation algorithms in radiotherapy planning | Rawojc, Kamila |

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| 72 | Nuclear fragmentation in protontherapy | Rebello Teles, Patricia |
| 73 | Internalization of iron nanoparticles by macrophages for the improvement of glioma treatment | Reymond, Solveig |
| 74 | Clinical applicability of the Compton camera for Prompt γ-ray Imaging during proton therapy | Rohling, Heide |
| 75 | A model for the relative biological effectiveness of protons based on the linear energy transfer spectrum | Rørvik, Eivind |
| 76 | Design of an innovative beam monitor for particle therapy for the simultaneous measurement of beam fluence and energy | Sacchi, Roberto |
| 77 | Variance Reduction of Monte Carlo Simulation in Nuclear Medicine | Saidi, Pooneh |
| 78 | Reduced side effects by proton minibeam radiotherapy in a mouse ear model | Schmid, Thomas |
| 79 | Helium and Oxygen beam models in TRiP98: implementation, treatment planning tests and experimental verification | Scifoni, Emanuele |
| 80 | Size dependence of GNPs dose enhancement effects in cancer treatment – Geant4 and MCNP code | Sharabiani, Marjan |
| 81 | Therapeutical Dose to Thyroid Remnants Determination for Low-risk Thyroid Carcinoma Patient Treated with rhTSH and 1.1 GBq 131I | Solný, Pavel |
| 82 | Augmented reality supporting innovation and accuracy in advanced radiation therapy facilities | Spoto, Salvatore |
| 83 | Improved proton stopping power ratio estimation for a deformable 3D dosimeter using Dual Energy CT | Taasti, Vicki |
| 84 | Organizational response of the hypothalamus and pituitary to external beam radiation | Taku, Nicolette |
| 85 | Monte Carlo validation of the microPET FOCUS PET scanner using FLUKA | Toufique, Yassine |
| 86 | 4D dose calculations: Tetrahedral meshes versus voxel-based structures | Touileb, Yazid |
| 87 | Realization of an innovative Dose Profiler for online range monitoring in particle therapy treatments | Traini, Giacomo |
| 88 | Ocular Brachytherapy Dosimetry for103Pd and125I in The Presence of Gold Nanoparticles: Monte Carlo Study | Vahidian, Mohamad |
| 89 | GEANT4 versus MCNP5: Monte-Carlo ophthalmic brachytherapy dosimetry in the presence of gold nanoparticles for 125I and 103Pd | Vahidian Qazvini, Shervin |
| 90 | Assessment of MicroDiamond PTW 60019 detector and its use in small radiosurgery fields of Leksell Gamma Knife | Veselsky, Tomas |
| 91 | ENTERVISION biological dosimetric phantom. Proof of concept and results | Viana Miranda Lima, Thiago |
| 92 | Evaluation of Patients Dose in PET Studies from CT Contrast Agents | Viana Miranda Lima, Thiago |
| 93 | Proton radiotherapy at PTC Czech in Prague | Vilimovský, Jan |
| 94 | Yield study and optimization of nuclear isotopes for cancer treatment and diagnostics with ISOLTRAP/CERN | Welker, Andree |
| 95 | Sonification as a method to distinguish the isometric force of Attention Deficit Hyperactivity Disorder (ADHD) compared to control participants | Williams, Genevieve |
| 96 | Sonification to investigate gait transition | Williams, Genevieve |
| 97 | HIF-1α plays a key role in the response of HNSCC cancer stem cells to photon and carbon ion exposures | Wozny, Anne-Sophie |
| 98 | Small fields dose calculation algorithms in the presence of lung inhomogeneity | Zergoug, Ismail |
| 99 | The mobile PET insert for simultaneous PET/MRI imaging | Zieliński, Marcin |
| 100 | The use of nanoparticles to improve hadrontherapy | Bolsa Ferruz, Marta |
| 101 | The Medicis-Promed Marie Curie training network | Stora, Thierry |
| 102 | MIGRT and Radiobiophotonics | Papineni, Rao |