

EVAGGELOS K. PANTELIS, Ph.D.

Assistant Professor

Medical Physics Laboratory, Medical School, University of Athens

Curriculum Vitae

Education

- 2005 Ph.D. in Physics, Nuclear and Particle Physics Sec., Physics Dept., University of Athens
- 2002 Professional license to practice Medical Physics
- 2002 M.Sc. in Medical Physics, Medical School, University of Athens
- 1999 B.Sc. in Physics, Physics Dept., University of Athens

Employment

- 3/2012 - Assistant Professor, Medical Physics Laboratory, Medical School, University of Athens
- 2010 - 2012 Lecturer, Medical Physics Laboratory, Medical School, University of Athens
- 2006 - Medical Physicist, Radiotherapy department, Iatropolis clinic
- 2005 Compulsory military service
- 2003 EU Marie Curie stipend fellow, Dept. of Medical Physics & Engineering, Strahlenklinik, Klinikum Offenbach, Johann Wolfgang Goethe Universität, Germany
- 2001 - 2002 Medical Physics Intern, Aretaieio University Hospital, Athens

Research interests

- Experimental and Monte Carlo dosimetry of small and non-standard fields used in stereotactic radiosurgery and IMRT radiation therapy applications.
- QA of stereotactic radiosurgery and IMRT radiation therapy applications
- Computational dosimetry of brachytherapy applications using Monte Carlo simulations and semi-analytical models
- Conventional (TLD, diode, film) and contemporary (3D polymer gel-MRI) experimental dosimetry

Teaching responsibilities

- Medical Physics: undergraduate Medical students
- Radiation protection: undergraduate Medical students
- Interaction of ionizing radiation and matter : postgraduate Medical Physics students
- Introduction to Monte Carlo simulation : postgraduate Medical Physics students
- Image reconstruction and image processing : undergraduate Medical students

- Radiation therapy technology: undergraduate Medical students
- Radiation Protection: IAEA Regional postgraduate courses on radiation protection and the safety of radiation sources.

Professional services

Referee of articles submitted to the following Journals: Physics in Medicine & Biology (IF 2009: 2.781), Medical Physics (IF 2009: 2.704), and Australasian Physical & Engineering Science in Medicine (IF 2009: 0.631).

Theses

- “Development of computational and experimental dosimetric techniques in radiotherapy applications”, Ph.D. thesis, University of Athens, 2005
- “Computational dosimetry in Ir-192 brachytherapy applications using the Sievert integral”, M.Sc. thesis, University of Athens, 2002.

Publications/Conference contributions

- 33 publications in Peer Reviewed International Journals. IF = 88,6, h-index = 13, citations =445 (Source: Scopus Citation Overview, export date: 8/1/2014)
- 35 presentations in international conferences
- 11 presentations in National conferences

Book contributions

- Chapter 77: C Antypas and E. Pantelis, Integrated systems: CyberKnife, in “Quality and Safety in Radiotherapy”, Editors: T. Pawlicki, A. J. Mundt, P. Dunscombe, P. Scalliet, Taylor & Francis, 2010 USA

Awards

- Co-author in: Polymer gel dosimetry for the TG-43 dosimetric characterization of a new 125I interstitial brachytherapy seed, included in the Institute of Physics Publishing list of selected articles for 2006
- First author in: Polymer gel water equivalence and relative energy response with emphasis on low photon energy dosimetry in brachytherapy nominated by the Publishing team of the Physics in Medicine and Biology Journal for inclusion in the Highlights of 2004

Participation in research projects

a) As Coordinator/Principal Investigator

- “Output calibration and small field output factor measurements of the new IRIS secondary collimator of the CyberKnife system”
Source: Accuray Inc. (Sunnyvale, USA) Start-end : 2010 – 2012.

b) As a member of the research team

- “Quantification of the benefit and development of tools for the clinical user for the smooth transition to patient based brachytherapy treatment planning” Source : Research program “ARISTEIA/BrachyGuide”. Start-end: 9/2012 – 9/2015.

- “Experimental and computational determination of the dosimetric parameters required for the use of I125.S17plus I-125 source in clinical LDR permanent implant brachytherapy applications”.
Source: BEBIG GmbH, Berlin. Start-end: 2013-2014.
- “Research proposal for the independent validation of Acuros based dosimetry calculations in brachytherapy”.
Source: Varian Medical Systems SA. funding was managed by the Special Account of Research Grants of the University of Athens). Start-end: 2008-2011.
- “Monte Carlo simulation determination of the dosimetric parameters required for the use of the type I, II and III Co-60 sources in clinical HDR remote afterloading brachytherapy applications”.
Source: Shimazdu Corporation, Japan. Start-end: 2003.
- “Monte Carlo simulation determination of the dosimetric parameters required for the use of a new Ir-192 pulsed dose rate source in clinical PDR remote afterloading brachytherapy applications”.
Source: Nucletron B.V., The Netherlands. Start-end: 2003.
- “Development of computational-experimental dosimetry techniques for applications in medical physics and radiation protection”.
Source: Greek Ministry of Education - EPEAEK II– IRAKLEITOS. Start-end: 2002-2005.