



# Curriculum Vitae

**Kiki Theodorou**

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## Personal Information

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## Present Position

1. Associate Professor on Medical Physics & Informatics, Medical School, University of Thessaly
2. Research Associate of the Medical Physics Department, Karolinska Institute, Stockholm, Sweden

## Degrees

1. BSc in Physics, 1994. Physics Department, University of Patras, Hellas
2. MSc in Medical Physics, 1996. Medical Physics Department, Medical School, University of Patras, Patras, Hellas.
3. Ph.D. in Medical Physics, 1999. Medical Physics Department, Medical School, University of Patras, Patras, Hellas
4. PostDoc, Medical Physics Department, Karolinska Institute, Sweden (1999-2001)

## Personal Scholarships, Grants

1. Swedish Cancer Institute (1998-2000)
2. ESTRO (June 1998)
3. Bodosakis Foundation (1996-2000)
4. YPER grant (Oriented Research grant – General Secretariat of Research and Technology)
5. 1998 - 2001
6. Marie Curie Research Grant, European Community (1998 – 2001)
7. Educational Exchange Program, Ministry of Education (November, 1998)

## Professional Licenses

8. Hospital Physicist License in the field of ionizing radiation by the Greek Ministry of Health (1999)
9. Hospital Physicist License in the field of non-ionizing radiation by the Greek Ministry of Health (1999)

### Active member of the following Societies

1. Hellenic Association of Medical Physics (H.A.M.P.)
2. Balkan Union of Oncology (B.U.ON.)
3. Balkan School of Oncology (B.S.O.)
4. European Society for Therapeutic Radiology and Oncology (ESTRO)
5. Hellenic Society of Radiotherapeutic Oncology (H.S.R.O.)
6. Hellenic Association of Physicists (H.A.P.)

### Special Appointments - Distinctions

1. Chair of the 8th European Conference on Medical Physics (2014)
2. Jack Fowler Award (2005)
3. International Atomic Energy Agency – IAEA (Wien), Certified Scientific Expert
4. Associate Editor to the *Medical Physics Journal*
5. Referee to the following Scientific Journals
  - i. Medical Physics
  - ii. Radiotherapy and Oncology
  - iii. Scientific World Journal
  - iv. American Journal of Clinical Oncology
  - v. Journal of Advance Medical Research
6. Member of the Scientific Committee in 2 ESTRO Conferences
7. Board Member of the Hellenic Association of Medical Physicists (2010 – today)
8. Elected Member of the General Assembly of the Medical School, University of Thessaly (2002 - today)
9. Chair of the Organizing Committee of International Conference on Medical Physics (1999)
10. Chairman, Scientific or Organizing Committee Member, Invited Speaker in EFOMP, ESTRO, BUON, SFPH and other European or International Conferences

### Research Grants – National and International Projects

1. Bilateral Cooperation Projects (Coordinator) with: France, Germany, Sweden, Romania, China, Russia, Georgia, USA, Albania
2. Education in Radiophysics, Balkan Countries cooperation (Coordinator)
3. BIOMED I project "Dynamic Radiotherapy (DYNARAD)", 32 Institutions / Hospitals in Europe (Deputy Coordinator)
4. Computerised Radioprotection, Hellenic Ministry of Health (Coordinator)
5. Stereotactic Radiotherapy and Radiosurgery, Bodosakis Foundation (Coordinator)
6. "EC-Network – EQUAL", Europe Against Cancer Program (National Delegate)

7. 11 National Research Projects funded by the Greek Secretariat of Research and Technology (G.S.R.T.)

**Total Research Funds from European and National programs: 1.7 MEuros**

#### **Active International Research Collaborations**

1. Medical Physics Department, Institute CURIE, Paris, France
2. Medical Physics Department, Medical School, Harvard University
3. Faculté de Médecine - Hôpital Tenon - Département de Radiothérapie, Paris, France
5. Karolinska Institutet, Stockholms Universiteit, Medicinsk Stralningsfysik, Stockholm, Sweden
6. Lehrstuhl und Abteilung für Medizinische Physik Radiologische Universitätsklinik, Tübingen, Germany
8. The Royal Marsden NHS Trust, Institute of Cancer Research, Joint Department of Physics.
10. Emory University and Hospital, Dept. of Radiation Oncology, Atlanta
11. University of Offenbach, Dept. of Radiation Physics, University Hospital

#### **Scientific Expert Missions**

1. Tirana, Albania (United Nations - International Atomic Energy Agency – IAEA, Wien). 2002
2. Ocean Road Cancer Institute, Dar Es Salaam, Tanzania (United Nations - International Atomic Energy Agency – IAEA, Wien) March 2004
3. Antananarivo General Hospital, Madagascar (United Nations - International Atomic Energy Agency – IAEA, Wien) January 2005
4. Ahmadu Bello University, Teaching Hospital, Zaria, Nigeria (United Nations - International Atomic Energy Agency – IAEA, Wien) November 2005
5. SRI SATHYA SAI INSTITUTE OF HIGHER MEDICAL SCIENCES, Bangalore, India Feb. 2006
6. National Center of Oncology, Baku, Azerbaijan (United Nations - International Atomic Energy Agency – IAEA, Wien) Nov. 2006

#### **Clinical and Professional Experience**

1. Medical Physics Department, University Hospital of Larissa (2001 – today)
2. Medical Physics Department, University Hospital of Patras (1996 – 2001)
3. European Institute of Oncology, Milan, Italy (1.9.2014 – 31-10-2014)
4. Institut CURIE, Service de Physique Medicale, Paris (1.8.1996 έως 20.12.1996)
5. Royal Free Hospital, London (December, 1997)
6. Karolinska Institute, Medical Radiation Physics Department. (1997 έως 2001)
7. General Electric Medical Systems, Buc, France (1995).

### Academic Activities - Education

1. Undergraduate courses on Medical Physics (Medical School, Veterinary School, Univ. of Thessaly, Univ. of Patras)
2. European Course on Medical Physics and Biomedical Engineering (ECMPBE), postgraduate courses in Radiotherapy Physics (University of Patras, 1996 - today)
3. Radiation Physics and Radiation Protection for trainees and physicians in Hospital (University Hospital of Patras 1996-2000 and Larissa, 2001- today)

### Academic Activities – Supervision

1. Active PhD program on Medical Physics
2. 19 PhD Thesis
3. More than 40 MSc Thesis

### Academic Activities – Main Research Areas

1. Stereotactic Radiotherapy
2. Development of Radiotherapy Treatment Planning Algorithms
3. Dosimetry
4. Networks and Integration Procedures in Radiotherapy
5. Monte Carlo Methods in Radiotherapy
6. Radiation Protection
7. Radiation Biology
8. High Field MR Imaging, Quantitative MR Imaging, MR Spectroscopy.

### Scientific Activities (Overview)

Publications in International Peer Reviewed Scientific Journals	84
Publications in Peripheral Scientific Journals	5
Books/Chapters in Books (English Language, International)	6
Books/Chapters in Books (Greek Language)	4
Invited Lectures	43
Publications in Proceedings of National/International Conferences	105
Total Number of References (Google Scholar/Scopus 2015)	707
h-index	16

### List of Publications in International Peer Review Journals

1. I Tsougos, S Alexiou, K Theodorou, V Valotassiou, P Georgoulas. The prevalence of a false-positive myocardial perfusion stress SPET test in a skinny patient, induced by projection truncation. (2015). Hellenic Journal of Nuclear Medicine
2. M-A. Kalogeridi, G. Kyrgias, A. Zygogianni, J. Kouvaris, K. Theodorou, N. Kelekis, V. Kouloulas. Challenges and Choices in Prostate Cancer Irradiation: From the Three Dimensional Conformal Radiotherapy to the Era of Intensity Modulated, Image-Guided and Adaptive Radiation Treatment. (2014) Urology Journal, V 11 (6), pp. 1925-1931
3. G. Dafoulas, A. Mavrodi, A. Bargiota, H. Giannakakos, P. Stafylas, P. Gkiata, P. Pechlivangolou, K. Theodorou, Georgios Koukoulis, V. Aletras. Cost utility analysis of long-term telemonitoring of patients with DMT2: Results of the Greek pilot of the renewing health multicenter pragmatic randomized trial. (2014). International Journal of Integrated Care, V 14 (8) pp. 10-12
4. E. Tsolaki, P. Svolos, E. Kousi, E. Kapsalaki, I. Fezoulidis, K. Fountas, K. Theodorou, C. Kappas, I. Tsougos (2014). International Journal of Computer Assisted Radiology and Surgery, pp. 1-18
5. P. Svolos, E. Kousi, E. Kapsalaki, K. Theodorou, I. Fezoulidis, C. Kappas, I. Tsougos. The role of diffusion and perfusion weighted imaging in the differential diagnosis of cerebral tumors: a review and future perspectives. (2014). Cancer Imaging, V 14 (1), pp. 14:20
6. E. Tsolaki, E. Kousi, P. Svolos, E. Kapsalaki, K. Theodorou, C. Kappas, I. Tsougos. Clinical decision support systems for brain tumor characterization using advanced magnetic resonance imaging techniques. (2014). World Journal of Radiology, V 6 (4), pp 72-81
7. P Tsiamas, E Sajo, F Cifter, K Theodorou, C Kappas, M Makrigiorgos, K Marcus, P Zygmanski. Beam quality and dose perturbation of 6 MV flattening-filter-free linac. (2014). European Journal of Medical Physics, V30 (1), pp. 47-56
8. Tsougos I, Svolos P, Kousi E, Athanassiou E, Theodorou K, Arvanitis D, Fezoulidis I, Vassiou K. The contribution of diffusion tensor imaging and magnetic resonance spectroscopy for the differentiation of breast lesions at 3T. (2014) Acta Radiologica, V55(1), pp. 14-23
9. Svolos P, Tsolaki E, Kapsalaki E, Theodorou K, Fountas K, Fezoulidis I, Tsougos I. Investigating brain tumor differentiation with diffusion and perfusion metrics at 3T MRI using pattern recognition techniques. (2013) Magnetic resonance imaging, V. 31, Issue 9, pp 1567-1577
10. Khalid Alzimami, Abdelmoneim Sulieman, Georgios Paroutoglou, Spiros Potamianos, Marianna Vlychou, Kiki Theodorou. Optimisation of radiation exposure to gastroenterologists and patients during therapeutic ERCP. (2013). Gastroenterology Research and Practice, V 2013, pp. 1-7

11. Svolos P, Tsolaki E, Theodorou K, Fountas K, Kapsalaki E, Fezoulidis I, Tsougos I. Classification methods for the differentiation of atypical meningiomas using diffusion and perfusion techniques at 3-T MRI. (2013) *Clinical imaging*, V. 37, Issue 5, pp 856-864
12. Zygogianni A, Kouloulis V, Kyrgias G, Armpilia C, Antypas C, Theodorou K, Kouvaris J. Comparison of Two Radiotherapeutic Hypofractionated Schedules in the Application of Tumor Bed Boost. (2013) *Clinical breast cancer*. Volume 13, Issue 4, Pages 292–298
13. Vassiou K, Tsougos I, Kousi E, Vlychou M, Athanasiou E, Theodorou K, Arvanitis D, Fezoulidis I. Application value of 3T 1H-magnetic resonance spectroscopy in diagnosing breast tumors.(2013) *Acta Radiologica*. V. 54, Issue 4, pp 380-388
14. P. Tsiamas, B L, F Cifter, W. Ngwa, R. Berbeco, C. Kappas, K. Theodorou, K Marcus, M. Makrigiorgos, E. Sajo, P. Zygmanski. Impact of beam quality on megavoltage radiotherapy treatment techniques utilizing gold nanoparticles for dose enhancement. (2013) V. 58, Issue 3, pp 451
15. G Kyrgias, E Kostopoulou, E Zafiriou, A Zygogianni, J Skarlatos, AV Roussaki-Schulze, K Theodorou. Hidradenocarcinoma of the temporal area successfully treated with concomitant electrochemotherapy and radiotherapy. (2013) *Head Neck*, V. 5, Issue 2, pp 14
16. Tsolaki E, Svolos P, Kousi E, Kapsalaki E, Fountas K, Theodorou K, Tsougos I. Automated differentiation of glioblastomas from intracranial metastases using 3T MR spectroscopic and perfusion data. (2013) Springer-Verlag, pp. 1-11
17. G. Kyrgias, A. Zygogianni, K. Theodorou, M. Koukourakis, A. Oikonomou, J. Kouvaris, V. Kouloulis. Accelerated Hypofractionated Whole-Breast Irradiation With Concomitant Daily Boost in Early Breast Cancer. (2013). *American journal of clinical oncology*.
18. A Zygogianni, G Kyrgias, J Kouvaris, C Antypas, K Theodorou, S Papageorgiou, G Zacharogianni, V Kouloulis. Re-irradiation in head and neck cases using IMRT technique: a retrospective study with toxicity and survival report. (2012) *Head Neck Oncol*, V. 4, pp78
19. I Tsougos, P Svolos, E Kousi, K Fountas, K Theodorou, I Fezoulidis, E Kapsalaki. Differentiation of glioblastoma multiforme from metastatic brain tumor using proton magnetic resonance spectroscopy, diffusion and perfusion metrics at 3 T. (2012) *Cancer Imaging*, V 12, pp. 413
20. E Kousi, I Tsougos, K Fountas, K Theodorou, E Tsolaki, I Fezoulidis, E Kapsalaki. Distinct peak at 3.8 ppm observed by 3T MR spectroscopy in meningiomas, while nearly absent in high-grade gliomas and cerebral metastases. (2012) *Molecular medicine reports*, V. 5, Issue 4, pp. 1011
21. P Tsiamas, E Sajo, F Cifter, K Theodorou, K Kappas, M Makrigiorgos, K Marcus, P Zygmanski. Optimal Clinical Megavoltage X-Ray Beam Quality for Contrast Enhanced RT (CERT). (2012) *Medical physics* V. 39, Issue 6, pp. 3710

22. G. Kyrgias, K. Theodorou, A. Zygogianni, K. Tsanadis, S. Zervoudis, M. Koukourakis, Tzitzikas M. Radiotherapy of early breast cancer in scleroderma patients: our experience with four cases and a short review of the literature. (2012) *Breast Cancer*, V. 4, pp. 3-8
23. A Zygogianni, G Kyrgias, J Kouvaris, E Alexopoulou, S Zefkili, K Theodorou, G Capezzali, A Mazioti, Y Kirova, C Antypas, C Armpilia, E Efstathopoulos, N Kelekis, V Kouloulis. A radiological and radiotherapeutic approach for paediatric tumours in the head and neck area. (2012) *Head & neck oncology*, V. 5, Issue 2, pp. 18
24. E. Tsolaki, E. Kousi, E. Kapsalaki, I. Dimou, K. Theodorou, G. Manikis, C. Kappas, I. Tsougos. A Statistical Diagnostic Decision Support Tool Using Magnetic Resonance Spectroscopy Data. (2012) *Data Mining for Biomarker Discovery* 117-142
25. E. Kapsalaki, P. Svolos, I. Tsougos, K. Theodorou, I. Fezoulidis, K. Fountas. Quantification of Normal CSF Flow Through the Aqueduct Using PC-Cine MRI at 3T. (2012) *Hydrocephalus*, pp 39-42
26. E Kousi, I Tsougos, E Tsolaki, KN Fountas, K Theodorou, I Fezoulidis, E Kapsalaki, C Kappas. Spectroscopic Evaluation of Glioma Grading at 3T: The Combined Role of Short and Long TE (2012) *The Scientific World Journal*, V 2012
27. H Omer, T Kilindir, C Kappas, K Theodorou, A Suleiman. Evaluation of Single-Field Electron Beams for Postmastectomy Radiotherapy. (2012). *Journal of Analytical Oncology*, V 1 (2), pp. 175-180
28. E Kousi, I Tsougos, K Vasiou, K Theodorou, A Poultisidi, I Fezoulidis, C Kappas. Magnetic Resonance Spectroscopy of the Breast at 3T: Pre-and Post-Contrast Evaluation for Breast Lesion Characterization. (2012) *The Scientific World Journal*
29. A. Sulieman, M. Vlychou, I Tsougos, C Kappas, K Theodorou. Radiation doses to patients undergoing enteroclysis. (2011) *Radiation protection dosimetry*, V 147, Issue 1-2, pp 122-125
30. A. Sulieman, M. Elzaki, C Kappas, K. Theodorou. Radiation dose measurement in gastrointestinal studies. (2011) *Radiation protection dosimetry*, V 147, Issue 1-2, pp 118-121
31. A. Sulieman, M. Vlychou, I Tsougos, K. Theodorou. Radiation doses to paediatric patients and comforters undergoing chest X rays. (2011) *Radiation protection dosimetry*, V 147, Issue 1-2, pp 171-175
32. I. Dimou, I. Tsougos, E. Tsolaki, E. Kousi, E. Kapsalaki, K. Theodorou, M. Kounelakis, M. Zervakis. Brain lesion classification using 3T MRS spectra and paired SVM kernels. (2011) *Biomedical Signal Processing and Control*, V 6, Issue 3, pp 314-320
33. MM Kounelakis, IN Dimou, MM Zervakis, II Tsougos, EE Tsolaki, E Kousi, EE Kapsalaki, KK Theodorou. Strengths and Weaknesses of 1.5 T and 3T MRS Data in Brain Glioma Classification (2011) *Information Technology in Biomedicine, IEEE Transactions*, V 15, Issue 4, pp 647-654



34. P Tsiamas, J Seco, Z Han, M Bhagwat, J Maddox, C Kappas, K Theodorou, M Makrigiorgos, K Marcus, P Zygmanski. A modification of flattening filter free linac for IMRT. (2011) *Medical physics*, V 38, pp. 2342
35. P Tsiamas, J Seco, Z Han, M Bhagwat, J Maddox, C Kappas, K Theodorou, M Makrigiorgos, K Marcus, P Zygmanski. A modification of flattening filter free linac for IMRT (2011) *Medical physics*, V 38, pp 2342
36. P. Svolos, I. Tsougos, G. Kyrgias, C. Kappas, K. Theodorou. On the use of published radiobiological parameters and the evaluation of NTCP models regarding lung pneumonitis in clinical breast radiotherapy. (2011) *Australasian Physical & Engineering Science in Medicine*, V 34, Issue 1, pp 69-81
37. I. Skarlatos, G. Kyrgias, E. Mosa, X. Provatopoulou, M. Spyrou, K. Theodorou, A. Lepouras, A. Gounaris, M. Koukourakis. Electrochemotherapy in cancer patients: first clinical trial in Greece. (2011) *In Vivo*, V 25, Issue 2, pp 265-274
38. A. Sulieman, G. Paroutoglou, A. Kapsoritakis, A. Kapatenakis, S. Potamianos, M. Vlychou, K. Theodorou. Reduction of radiation doses to patients and staff during endoscopic retrograde cholangiopancreatography. (2011) *Saudi journal of gastroenterology: official journal of the Saudi Gastroenterology Association*, V 17, Issue 1, pp 23
39. E. Kapsalaki, I. Tsougos, K. Theodorou, K. Fountas. Proton Magnetic Resonance Spectroscopy in Intracranial Gliomas. (2011) *Tumors of the Central Nervous System*, Volume 1, pp. 67-79
40. V. Vlachopoulou, G. Malatara, H. Delis, K. Theodorou, D. Kardamakis, G. Panayiotakis. Peripheral dose measurement in high-energy photon radiotherapy with the implementation of MOSFET. (2010) *World Journal of Radiology*, V 2, Issue 11, pp 434
41. C. Ilioudis, A. Fevgas, K. Theodorou, K. Malizos, Z. Dailiana. An innovative e-health network for collaboration on emergency cases (2010) *Information Technology and Applications in Biomedicine (ITAB)*, pp. 1-4
42. Karanikas, V., Zamanakou, M., Soukou, F., Kerenidi, T., Tsougos, I., Theodorou, K., Georgoulis, P., Germanis, A.E. Cytolytic T-cell response against Epstein-Barr virus in lung cancer patients and healthy subjects. (2010) *Journal of Experimental & Clinical Cancer Research*, p. 64. Article in Press.
43. Siomos, K.E., Avagianou, P.A., Floros, G.D., Skenteris, N., Mouzas, O.D., Theodorou, K., Angelopoulos, N.V. Psychosocial correlates of insomnia in an adolescent population. (2010) *Child psychiatry and human development*, 41 (3), pp. 262-273.
44. Tsougos, I., Loudos, G., Georgoulis, P., Theodorou, K., Kappas, C. Patient-specific internal radionuclide dosimetry. (2010) *Nuclear Medicine Communications*, 31 (2), pp. 97-106.
45. Topaltzikis, T., Rountas, C., Fezoulidis, I., Kappas, C., Theodorou, K. In vivo dosimetry during DSA of the carotid and renal arteries. Derivation of local DRLs. (2009) *Physica Medica*, 25 (4), pp. 166-171.

46. Topaltzikis, T., Papageorgiou, N., Skoularigis, J., Triposkiadis, F., Kappas, C., Theodorou, K. Patient radiation doses during cardiac angiography and implantations of cardiac resynchronization devices. Derivation of local DRLs. (2009) IFMBE Proceedings, 25 (3), pp. 262-264.
47. Kilindris, T., Theodorou, K. Dose calculation optimization in intracranial stereotactic radiotherapy using implicit surface modelling. (2009) IFMBE Proceedings, 25 (4), pp. 1475-1477.
48. Dimou, I.N., Tsougos, I., Tsolaki, E., Theodorou, K. Classification of pathological human brain lesions using magnetic resonance spectroscopy at 3T. (2009) IFMBE Proceedings, 25 (4), pp. 1368-1370.
49. Svolou, P., Tsougos, I., Theodorou, K., Kappas, C. The use of radiobiological parameters and the evaluation of NTCP models. How do they affect the ability to estimate radiation induced complications? (2009) IFMBE Proceedings, 25 (3), pp. 292-294.
50. Dimou, I.N., Tsougos, L., Tsolaki, E., Theodorou, K., Zervakis, M. Classification of 3T MRS spectra using support vector machines. (2009) Final Program and Abstract Book - 9th International Conference on Information Technology and Applications in Biomedicine, ITAB 2009, art. no. 5394304.
51. Kousi, E., Tsougos, I., Kapsalaki, E., Kappas, C., Theodorou, K. Proton magnetic resonance spectroscopy at 3T - Evaluation of metabolic profile of human brain lesions (2009) IFMBE Proceedings, 25 (2), pp. 335-337.
52. Siomos, K.E., Avagianou, P.-A., Floros, G.D., Skenteris, N., Mouzas, O.D., Theodorou, K., Angelopoulos, N.V. Psychosocial Correlates of Insomnia in An Adolescent Population (2009) Child Psychiatry and Human Development, pp. 1-12. Article in Press.
53. Papanikolaou, V., Iliopoulos, D., Dimou, I., Dubos, S., Tsougos, I., Theodorou, K., Kitsiou-Tzeli, S., Tsezou, A. The involvement of HER2 and p53 status in the regulation of telomerase in irradiated breast cancer cells. (2009) International Journal of Oncology, 35 (5), pp. 1141-1149.
54. Loudos, G., Tsougos, I., Boukis, S., Karakatsanis, N., Georgoulas, P., Theodorou, K., Nikita, K., Kappas, C. A radionuclide dosimetry toolkit based on material-specific Monte Carlo dose kernels. (2009) Nuclear Medicine Communications, 30 (7), pp. 504-512.
55. Tsougos I, Grout I, Theodorou K, Kappas C. A free software for the evaluation and comparison of dose response models in clinical radiotherapy (DORES). Int J Radiat Biol. 2009 Mar 18:1-19.
56. Topaltzikis, T., Rountas, C., Moisidou, R., Fezoulidis, I., Kappas, C., Theodorou, K. Radiation dose to patients and staff during angiography of the lower limbs. Derivation of local dose reference levels. (2009) Physica Medica, 25 (1), pp. 25-30.
57. Topaltzikis, T., Rountas, C., Fezoulidis, I., Kappas, C., Theodorou, K. In vivo dosimetry during DSA of the carotid and renal arteries. Derivation of local DRLs. (2009) Physica Medica, .
58. Theodorou, K., Stathakis, S., Lind, B., Kappas, C. Dosimetric and radiobiological evaluation of dose distribution perturbation due to head heterogeneities for Linac and Gamma Knife stereotactic radiotherapy. (2008) Acta Oncologica, 47 (5), pp. 917-927.

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60. Tsougos, I., Schreiber, E., Lahanas, M., Theodorou, K., Kappas, C., Baltas, D. Geometrical pre-planning for conformal radiotherapy. (2007) *Acta Oncologica*, 46 (7), pp. 918-927.
61. Sulieman, A., Theodorou, K., Vlychou, M., Topaltzikis, T., Kanavou, D., Fezoulidis, I., Kappas, C. Radiation dose measurement and risk estimation for paediatric patients undergoing micturating cystourethrography. (2007) *British Journal of Radiology*, 80 (957), pp. 731-737.
62. Tsougos, I., Nilsson, P., Theodorou, K., Kjellén, E., Ewers, S.-B., Jarlman, O., Lind, B.K., Kappas, C., Mavroidis, P. NTCP modelling and pulmonary function tests evaluation for the prediction of radiation induced pneumonitis in non-small-cell lung cancer radiotherapy. (2007) *Physics in Medicine and Biology*, 52 (4), pp. 1055-1073.
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64. Satra M, Tsougos I, Papanikolaou V, Theodorou K, Kappas C, Tsezou A. Correlation between radiation-induced telomerase activity and human telomerase reverse transcriptase mRNA expression in HeLa cells. *Int J Radiat Biol*. 2006 Jun;82(6):401-9.
65. Tsiakalos, M.F., Stathakis, S., Plataniotis, G.A., Kappas, C., Theodorou, K. Monte Carlo dosimetric evaluation of high energy vs low energy photon beams in low density tissues. (2006) *Radiotherapy and Oncology*, 79 (1), pp. 131-138.
66. Tsougos, I., Mavroidis, P., Theodorou, K., Rajala, J., Pitkänen, M.A., Holli, K., Ojala, A.T., Hyödynmaa, S., Järvenpää, R., Lind, B.K., Kappas, C. Clinical validation of the LKB model and parameter sets for predicting radiation-induced pneumonitis from breast cancer radiotherapy. (2006) *Physics in Medicine and Biology*, 51 (3), pp. L1-L9.
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