

Curriculum Vitae

Last name, First name: Samaras, Theodoros

Gender: Male

Nationality: Hellenic (Greek)

Overall Scientific Expertise:

Dr Theodoros Samaras is a trained Medical Physicist, who has been working in radiation protection and dosimetry of non-ionizing radiation. His research involves the assessment of human exposure to electromagnetic fields in a broad frequency spectrum, ranging from extremely low frequencies (ELF) to millimetre wave (MMW) radiation. He has experience with the application of computational multiphysics techniques in the study of mechanisms involved in the interaction of electromagnetic radiation with the human body. He is also active in measurements to assess personal exposure, and has been involved in the deployment and management of sensor networks for the continuous monitoring of the electromagnetic environment.

Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation
1999 – now	Associate Professor	Aristotle University of Thessaloniki, Thessaloniki, Greece	Physics (biophysics, EMF exposure), Engineering (biomedical), Environmental science (EMF monitoring)
1999	Postgraduate Fellow	Erasmus MC–Daniel den Hoed, Rotterdam, The Netherlands	Physics (medical physics)
1998 – 1999	Postgraduate Researcher	Swiss Federal Institute of Technology (ETH), Zürich, Switzerland	Physics (biophysics, EMF exposure), Engineering (biomedical)

Educational Background

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation
1996	PhD	Aristotle University of Thessaloniki, Thessaloniki, Greece	Physics (medical physics)
1991	MSc	University of Surrey, Guildford, UK	Physics (medical physics)
1990	BSc (4y course)	Aristotle University of Thessaloniki, Thessaloniki, Greece	Physics

Memberships in Scientific Advisory Bodies/Committees/Panels:

- Member of the IEEE ICES (International Committee on Electromagnetic Safety)
- Member of the CLC/TC 106X (Electromagnetic fields in the human environment)

Memberships in Learned Societies:

- Council member of the European Bioelectromagnetics Association (EBEA)
- Member of the Bioelectromagnetics Society (BEMS)
- Member (former board member) of the European Society for Hyperthermic Oncology (ESHO)

- Member of the Institute of Electrical and Electronic Engineers (IEEE)

List of Publications:

Book chapters: 3; Peer-reviewed articles: 55; Peer-reviewed conferences: 13; Review articles: 1 (Scopus results; April 2013).

Selected publications:

- Markakis, I., Samaras, T.; Radiofrequency exposure in Greek indoor environments (2013) *Health Physics*, 104 (3), pp. 293-301
- Murbach, M., Neufeld, E., Capstick, M., Kainz, W., Brunner, D.O., Samaras, T., Pruessmann, K.P., Kuster, N.; Thermal Tissue Damage Model Analyzed for Different Whole-Body SAR and Scan Durations for Standard MR Body Coils (2013) *Magnetic Resonance in Medicine*, Article in Press
- Karampatzakis, A., Samaras, T.; Numerical modeling of heat and mass transfer in the human eye under millimeter wave exposure (2013) *Bioelectromagnetics*, Article in Press
- Manassas, A., Boursianis, A., Samaras, T., Sahalos, J.N.; Continuous electromagnetic radiation monitoring in the environment: Analysis of the results in Greece (2012) *Radiation Protection Dosimetry*, 151 (3), art. no. ncs028, pp. 437-442
- Boursianis, A., Vantias, P., Samaras, T.; Measurements for assessing the exposure from 3G femtocells (2012) *Radiation Protection Dosimetry*, 150 (2), art. no. ncr398, pp. 158-167
- Chalkidou, A., Simeonidis, K., Angelakeris, M., Samaras, T., Martinez-Boubeta, C., Balcells, L., Papazisis, K., Dendrinou-Samara, C., Kalogirou, O.; In vitro application of Fe/MgO nanoparticles as magnetically mediated hyperthermia agents for cancer treatment (2011) *Journal of Magnetism and Magnetic Materials*, 323 (6), pp. 775-780
- Samaras, T., Kalampaliki, E., Sahalos, J.N.; Influence of thermophysiological parameters on the calculations of temperature rise in the head of mobile phone users (2007) *IEEE Transactions on Electromagnetic Compatibility*, 49 (4), pp. 936-939