

Curriculum Vitae

Last name, First name: Samaras, Theodoros

Gender: M

Nationality/ies: Greek

Overall Scientific Expertise:

I am a Medical Physicist by training. My main expertise is applied and computational electromagnetics, with a special emphasis on bioelectromagnetics, i.e., the interaction of electromagnetic fields (EMF) with living matter, both for medical applications and hazard identification and mitigation. I have worked in the area of dosimetry for experiments *in vitro* and *in vivo*, as well as for the exposure assessment of humans participating in provocation or epidemiological studies. I have also been a member of SCENIHR and several of its working groups, performing risk assessment based on literature data.

Professional Experience

| Years employed from – to | Title of position | Employer – name and location | Areas of professional specialisation |
|--------------------------|---------------------|--|---|
| 1999-2016 | Associate Professor | Aristotle University of Thessaloniki, Thessaloniki, Greece | physics (medical, EMF radiation), engineering (biomedical), medical technology, nanoparticle applications |
| 1999 | Research Fellow | Erasmus Medical Center, Rotterdam, The Netherlands | physics (medical, EMF radiation), engineering (biomedical), medical technology |
| 1998-1999 | Research Fellow | Swiss Federal Institute of Technology (ETH), Zurich, Switzerland | physics (medical, EMF radiation) |

Educational Background

[Starting with the most recent, please provide the details of your post-secondary education and/or professional training (e.g. university or its equivalent, postgraduate, postdoctoral). Please copy and paste more rows if needed.]

| Year | Degree awarded | Educational Institution – name and location | Areas of educational specialisation |
|------|-----------------------------|--|-------------------------------------|
| 1999 | PhD | Aristotle University of Thessaloniki, Thessaloniki, Greece | Physics |
| 1991 | MSc | University of Surrey, Guildford, UK | Medical Physics |
| 1990 | University Degree (4 years) | Aristotle University of Thessaloniki, Thessaloniki, Greece | Physics |

Memberships in Scientific Advisory Bodies/Committees/Panels (if any):

1. Member of the SCENIHR (2013-2016) and several of its working groups
2. Advisory board member of two EU projects: EMF-NET (“Effects of the exposure to electromagnetic fields: From science to public health and safer workplace”) and EFHRAN (“European health risk assessment network on EMF exposure”).

Memberships in Learned Societies (if any):

European Bioelectromagnetics Association (EBEA), elected member of the board (two terms)
European Society for Hyperthermic Oncology (ESHO), formerly elected member of the board (one term)
The Bioelectromagnetics Society (BEMS)
Institute of Electrical and Electronic Engineers (IEEE)
Hellenic Association of Medical Physicists (EFIE)
Greek Society for Biomedical Engineering (ELEVIT)

Memberships in Editorial Boards (if any):

Frontiers in Public Health, Review Editor for *Radiation and Health*

List of Publications:

In total 96 citable documents in Scopus (h-index 17, total citations 903). Main publications:

1. Gajšek, P., Ravazzani, P., Wiart, J., Grellier, J., Samaras, T., Thuróczy, G. Electromagnetic field exposure assessment in Europe radiofrequency fields (10 MHz-6 GHz) (2015) *Journal of Exposure Science and Environmental Epidemiology*, 25 (1), pp. 37-44. (Cited 6 times.)
2. Karampatzakis, A., Samaras, T. Numerical modeling of heat and mass transfer in the human eye under millimeter wave exposure (2013) *Bioelectromagnetics*, 34 (4), pp. 291-299. (Cited 4 times.)
3. Van Rhoon, G.C., Samaras, T., Yarmolenko, P.S., Dewhurst, M.W., Neufeld, E., Kuster, N. CEM43°C thermal dose thresholds: A potential guide for magnetic resonance radiofrequency exposure levels? (2013) *European Radiology*, 23 (8), pp. 2215-2227. (Cited 11 times.)
4. 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. (Cited 31 times.)
5. Christ, A., Klingenböck, A., Samaras, T., Goiceanu, C., Kuster, N. The dependence of electromagnetic far-field absorption on body tissue composition in the frequency range from 300 MHz to 6 GHz (2006) *IEEE Transactions on Microwave Theory and Techniques*, 54 (5), pp. 2188-2194. (Cited 86 times.)
6. Christ, A., Samaras, T., Klingenböck, A., Kuster, N. Characterization of the electromagnetic near-field absorption in layered biological tissue in the frequency range from 30 MHz to 6000 MHz (2006) *Physics in Medicine and Biology*, 51 (19), art. no. 014, pp. 4951-4965. (Cited 43 times.)
7. Schuderer, J., Samaras, T., Oesch, W., Spät, D., Kuster, N. High peak SAR exposure unit with tight exposure and environmental control for in vitro experiments at 1800 MHz (2004) *IEEE Transactions on Microwave Theory and Techniques*, 52 (8 II), pp. 2057-2066. (Cited 63 times.)