

Curriculum Vitae

Last name, First name: Samaras, Theodoros

Gender: M

Nationality/ies: Greek

Overall Scientific Expertise

Prof. Theodoros Samaras is Medical Physicist by training, with an expertise in bioelectromagnetics, i.e., the interaction of electromagnetic fields (EMF) with living matter for medical applications, as well as for hazard identification and mitigation. He has been working on the dosimetry of *in vitro*, animal, and clinical studies, as well as on the assessment of human exposure to EMF. He has served as a member of SCENIHR and SCHEER, and several of their working groups, performing risk assessment of various exposure agents.

Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation [▲]
1999-now	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

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

- Member of the Working Group on non-ionizing radiation of the Ministry of Health of Cyprus (2021-today)
- Member of the SCHEER (2016-2021) and several of its working groups
- Member of the SCENIHR (2013-2016) and several of its working groups

- Advisory board member of EFHRAN (“European health risk assessment network on EMF exposure”) (2009-2012)
- Advisory board member of EMF-NET (“Effects of the exposure to electromagnetic fields: From science to public health and safer workplace”) (2004-2008)

Memberships in Learned Societies:

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

Memberships in Editorial Boards:

- *Bioelectromagnetics* (Wiley), Editor in Chief
- *Frontiers in Public Health* (Frontiers), Associate Editor for *Radiation and Health*

List of Publications:

In total 169 citable documents in Scopus (h-index 32, total citations > 2900). Main (and related) publications:

- van Rhoon, G. C., Samaras, T., Yarmolenko, P. S., Dewhirst, M. W., Neufeld, E., & Kuster, N. (2013). CEM43°C thermal dose thresholds: a potential guide for magnetic resonance radiofrequency exposure levels?. *European radiology*, 23(8), 2215–2227. <https://doi.org/10.1007/s00330-013-2825-y> (Cited 178 times)
- Christ, A., Klingenbock, A., Samaras, T., Goiceanu, C., & Kuster, N. (2006). The dependence of electromagnetic far-field absorption on body tissue composition in the frequency range from 300 MHz to 6 GHz. *IEEE Transactions on Microwave Theory and Techniques*, 54(5), 2188–2195. <https://doi.org/10.1109/TMTT.2006.872789> (Cited 167 times)
- Gajšek, P., Ravazzani, P., Wiart, J., Grellier, J., Samaras, T., & Thuróczy, G. (2015). Electromagnetic field exposure assessment in Europe radiofrequency fields (10 MHz-6 GHz). *Journal of exposure science & environmental epidemiology*, 25(1), 37–44. <https://doi.org/10.1038/jes.2013.40> (Cited 105 times)
- Murbach, M., Neufeld, E., Capstick, M., Kainz, W., Brunner, D. O., Samaras, T., Pruessmann, K. P., & Kuster, N. (2014). Thermal tissue damage model analyzed for different whole-body SAR and scan durations for standard MR body coils. *Magnetic resonance in medicine*, 71(1), 421–431. <https://doi.org/10.1002/mrm.24671> (Cited 72 times)
- Gajšek, P., Ravazzani, P., Grellier, J., Samaras, T., Bakos, J., & Thuróczy, G. (2016). Review of Studies Concerning Electromagnetic Field (EMF) Exposure Assessment in Europe: Low Frequency Fields (50 Hz-100 kHz). *International journal of environmental research and public health*, 13(9), 875. <https://doi.org/10.3390/ijerph13090875> (Cited 61 times)
- Manassas, A., Boursianis, A., Samaras, T., & Sahalos, J. N. (2012). Continuous electromagnetic radiation monitoring in the environment: analysis of the results in Greece. *Radiation protection dosimetry*, 151(3), 437–442. <https://doi.org/10.1093/rpd/ncs028> (Cited 32 times)
- Iakovidis, S., Apostolidis, C., Manassas, A., & Samaras, T. (2022). Electromagnetic Fields Exposure Assessment in Europe Utilizing Publicly Available Data. *Sensors (Basel, Switzerland)*, 22(21), 8481. <https://doi.org/10.3390/s22218481> (Cited 1 time)
- Baaken, D., Wollschläger, D., Samaras, T., Schüz, J., & Deltour, I. (2020). Exposure To Extremely Low-Frequency Magnetic Fields In Low- And Middle-Income Countries: An Overview. *Radiation protection dosimetry*, 191(4), 487–500. Advance online publication. <https://doi.org/10.1093/rpd/ncaa172> (Cited 1 time)