



**To: His Excellency Antonio Guterres, Secretary-General of the United Nations;
Honorable Dr. Tedros Adhanom, Director-General of the World Health Organization;
Honorable Erik Solheim, Executive Director of the U.N. Environment Programme;
U.N. Member Nations**

International Appeal: Scientists call for Protection from Non-ionizing Electromagnetic Field Exposure

We are scientists engaged in the study of biological and health effects of non-ionizing electromagnetic fields (EMF). Based upon peer-reviewed, published research, we have serious concerns regarding the ubiquitous and increasing exposure to EMF generated by electric and wireless devices. These include—but are not limited to—radiofrequency radiation (RFR) emitting devices, such as cellular and cordless phones and their base stations, Wi-Fi, broadcast antennas, smart meters, and baby monitors as well as electric devices and infra-structures used in the delivery of electricity that generate extremely-low frequency electromagnetic field (ELF EMF).

Scientific basis for our common concerns

Numerous recent scientific publications have shown that EMF affects living organisms at levels well below most international and national guidelines. Effects include increased cancer risk, cellular stress, increase in harmful free radicals, genetic damages, structural and functional changes of the reproductive system, learning and memory deficits, neurological disorders, and negative impacts on general well-being in humans. Damage goes well beyond the human race, as there is growing evidence of harmful effects to both plant and animal life.

These findings justify our appeal to the United Nations (UN) and, all member States in the world, to encourage the World Health Organization (WHO) to exert strong leadership in fostering the development of more protective EMF guidelines, encouraging precautionary measures, and educating the public about health risks, particularly risk to children and fetal development. By not taking action, the WHO is failing to fulfill its role as the preeminent international public health agency.

Inadequate non-ionizing EMF international guidelines

The various agencies setting safety standards have failed to impose sufficient guidelines to protect the general public, particularly children who are more vulnerable to the effects of EMF. The International

Commission on Non-Ionizing Radiation Protection (ICNIRP) established in 1998 the “Guidelines For Limiting Exposure To Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz)”¹. These guidelines are accepted by the WHO and numerous countries around the world. The WHO is calling for all nations to adopt the ICNIRP guidelines to encourage international harmonization of standards. In 2009, the ICNIRP released a statement saying that it was reaffirming its 1998 guidelines, as in their opinion, the scientific literature published since that time “has provided no evidence of any adverse effects below the basic restrictions and does not necessitate an immediate revision of its guidance on limiting exposure to high frequency electromagnetic fields². ICNIRP continues to the present day to make these assertions, in spite of growing scientific evidence to the contrary. It is our opinion that, because the ICNIRP guidelines do not cover long-term exposure and low-intensity effects, they are insufficient to protect public health.

The WHO adopted the International Agency for Research on Cancer (IARC) classification of extremely low frequency electromagnetic field (ELF EMF) in 2002³ and radiofrequency radiation (RFR) in 2011⁴. This classification states that EMF is a *possible human carcinogen (Group 2B)*. Despite both IARC findings, the WHO continues to maintain that there is insufficient evidence to justify lowering these quantitative exposure limits.

Since there is controversy about a rationale for setting standards to avoid adverse health effects, we recommend that the United Nations Environmental Programme (UNEP) convene and fund an independent multidisciplinary committee to explore the pros and cons of alternatives to current practices that could substantially lower human exposures to RF and ELF fields. The deliberations of this group should be conducted in a transparent and impartial way. Although it is essential that industry be involved and cooperate in this process, industry should not be allowed to bias its processes or conclusions. This group should provide their analysis to the UN and the WHO to guide precautionary action.

Collectively we also request that:

1. children and pregnant women be protected;
2. guidelines and regulatory standards be strengthened;
3. manufacturers be encouraged to develop safer technology;
4. utilities responsible for the generation, transmission, distribution, and monitoring of electricity maintain adequate power quality and ensure proper electrical wiring to minimize harmful ground current;
5. the public be fully informed about the potential health risks from electromagnetic energy and taught harm reduction strategies;
6. medical professionals be educated about the biological effects of electromagnetic energy and be provided training on treatment of patients with electromagnetic sensitivity;
7. governments fund training and research on electromagnetic fields and health that is independent of industry and mandate industry cooperation with researchers;
8. media disclose experts’ financial relationships with industry when citing their opinions regarding health and safety aspects of EMF-emitting technologies; and
9. white-zones (radiation-free areas) be established.

¹ <http://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf>

² <http://www.icnirp.org/cms/upload/publications/ICNIRPStatementEMF.pdf>

³ <http://monographs.iarc.fr/ENG/Monographs/vol80>

⁴ <http://monographs.iarc.fr/ENG/Monographs/vol102/>

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Inquiries, including those from qualified scientists who request that their name be added to the Appeal, may be made by contacting Elizabeth Kelley, M.A., Director, EMFscientist.org, at info@EMFscientist.org.

Note: the signatories to this appeal have signed as individuals, giving their professional affiliations, but this does not necessarily mean that this represents the views of their employers or the professional organizations they are affiliated with.

Signatories

Armenia

Prof. Sinerik Ayrapetyan, Ph.D., UNESCO Chair - Life Sciences International Postgraduate Educational Center, Armenia

Australia

Dr. Priyanka Bandara, Ph.D., Independent Env.Health Educator/Researcher, Advisor, Environmental Health Trust; Doctors for Safer Schools, Australia

Dr. Peter French BSc, MSc, MBA, PhD, FRSM, Conjoint Senior Lecturer, University of New South Wales, Australia

Dr. Bruce Hocking, MD, MBBS, FAFOEM (RACP), FRACGP, FARPS, specialist in occupational medicine; Victoria, Australia

Dr. Gautam (Vini) Khurana, Ph.D., F.R.A.C.S., Director, C.N.S. Neurosurgery, Australia

Dr. Don Maisch, Ph.D., Australia

Dr. Elena Pirogova, Ph.D., Biomed Eng., B. Eng (Hon) Chem. Eng., Engineering & Health College; RMIT University, Australia

Dr. Mary Redmayne, Ph.D., Department of Epidemiology & Preventive Medicine, Monash University, Australia

Dr. Charles Teo, BM, BS, MBBS, Member of the Order of Australia, Director, Centre for Minimally Invasive Neurosurgery at Prince of Wales Hospital, NSW, Australia

Austria

Dr. Michael Kundi, MD, University of Vienna, Austria

Dr. Gerd Oberfeld, MD, Public Health Department, Salzburg Government, Austria

Dr. Bernhard Pollner, MD, Pollner Research, Austria

Prof. Dr. Hugo W. Rüdiger, MD, Austria

Bahrain

Dr. Amer Kamal, MD, Physiology Department, College of Medicine, Arabian Gulf University, Bahrain

Belgium

Prof. Marie-Claire Cammaerts, Ph.D., Free University of Brussels, Faculty of Science, Brussels, Belgium

Brazil

Vânia Araújo Condessa, MSc., Electrical Engineer, Belo Horizonte, Brazil

Prof. Dr. João Eduardo de Araujo, MD, University of Sao Paulo, Brazil

Dr. Francisco de Assis Ferreira Tejo, D. Sc., Universidade Federal de Campina Grande, Campina Grande, State of Paraíba, Brazil

Prof. Alvaro deSalles, Ph.D., Federal University of Rio Grande Del Sol, Brazil

Prof. Adilza Dode, Ph.D., MSc. Engineering Sciences, Minas Methodist University, Brazil

Dr. Daiana Condessa Dode, MD, Federal University of Medicine, Brazil

Michael Condessa Dode, Systems Analyst, MRE Engenharia Ltda, Belo Horizonte, Brazil

Prof. Orlando Furtado Vieira Filho, PhD, Cellular&Molecular Biology, Federal University of Rio Grande do Sul, Brazil

Canada

Dr. Magda Havas, Ph.D., Environmental and Resource Studies, Centre for Health Studies, Trent University, Canada

Dr. Paul Héroux, Ph.D., Director, Occupational Health Program, McGill University; InvitroPlus Labs, Royal Victoria Hospital, McGill University, Canada

Dr. Tom Hutchinson, Ph.D., Professor Emeritus, Environmental and Resource Studies, Trent University, Canada

Prof. Ying Li, Ph.D., InVitroPlus Labs, Dept. of Surgery, Royal Victoria Hospital, McGill University, Canada

James McKay M.Sc., Ecologist, City of London; Planning Services, Environmental and Parks Planning, London, Canada

Prof. Anthony B. Miller, MD, FRCP, University of Toronto, Canada

Prof. Klaus-Peter Ossenkopp, Ph.D., Department of Psychology (Neuroscience), University of Western Ontario, Canada

Dr. Malcolm Paterson, PhD. Molecular Oncologist (ret.), British Columbia, Canada

Prof. Michael A. Persinger, Ph.D., Behavioural Neuroscience and Biomolecular Sciences, Laurentian University, Canada

China

Prof. Huai Chiang, Bioelectromagnetics Key Laboratory, Zhejiang University School of Medicine, China
Prof. Yuqing Duan, Ph.D., Food & Bioengineering, Jiangsu University, China
Dr. Kaijun Liu, Ph.D., Third Military Medical University, Chongqing, China
Prof. Xiaodong Liu, Director, Key Lab of Radiation Biology, Ministry of Health of China; Associate Dean, School of Public Health, Jilin University, China
Prof. Wenjun Sun, Ph.D., Bioelectromagnetics Key Lab, Zhejiang University School of Medicine, China
Prof. Minglian Wang, Ph.D., College of Life Science & Bioengineering, Beijing University of Technology, China
Prof. Qun Wang, Ph.D., College of Materials Science & Engineering, Beijing University of Technology, China
Prof. Haihu Zhang, Ph.D., School of Food & BioEngineering, Jiangsu University, China
Prof. Jianbao Zhang, Associate Dean, Life Science and Technology School, Xi'an Jiaotong University, China
Prof. Hui-yan Zhao, Director of STSCRW, College of Plant Protection, Northwest A & F University, Yangling Shaanxi, China
Prof. J. Zhao, Department of Chest Surgery, Cancer Center of Guangzhou Medical University, Guangzhou, China

Croatia

Ivancica Trosic, Ph.D., Institute for Medical Research and Occupational Health, Croatia

Egypt

Prof. Dr. Abu Bakr Abdel Fatth El-Bediwi, Ph.D., Physics Dept., Faculty of Science, Mansoura University, Egypt
Prof. Dr. Emad Fawzy Eskander, Ph.D., Medical Division, Hormones Department, National Research Center, Egypt
Prof. Dr. Heba Salah El Din Aboul Ezz, Ph.D., Physiology, Zoology Department, Faculty of Science, Cairo University, Egypt
Prof. Dr. Nasr Radwan, Ph.D., Neurophysiology, Faculty of Science, Cairo University, Egypt

Estonia

Dr. Hiie Hinrikus, Ph.D., D.Sc., Tallinn University of Technology, Estonia
Mr. Tarmo Koppel, Tallinn University of Technology, Estonia

Finland

Dr. Mikko Ahonen, Ph.D., University of Tampere, Finland
Dr. Marjukka Hagström, LL.M., M.Soc.Sc., Principal Researcher, Radio and EMC Laboratory, Finland
Prof. Dr. Osmo Hänninen, Ph.D., Dept. of Physiology, Faculty of Medicine, University of Eastern Finland, Finland;
Editor-In-Chief, Pathophysiology, Finland
Dr. Dariusz Leszczynski, Ph.D., Adjunct Professor of Biochemistry, University of Helsinki, Finland;
Member of the IARC Working Group that classified cell phone radiation as possible carcinogen.
Dr. Georgiy Ostroumov, Ph.D. (in the field of RF EMF), independent researcher, Finland

France

Prof. Dr. Dominique Belpomme, MD, MPH, Professor in Oncology, Paris V Descartes University, ECERI Executive Director
Dr. Pierre Le Ruz, Ph.D., Criirem, Le Mans, France
Dr Annie J Sasco, MD, MPH, MS, DrPH, Fmr. Research Dir., French NIH (INSERM); Fmr. Chief, Unit of Epidemiology for Cancer Prevention at International Agency for Research on Cancer; Fmr. Acting Head, Programme for Cancer Control, World Health Organization; France.

Georgia

Prof. Besarion Partsvania, Ph.D., Head of Bio-cybernetics Department of Georgian Technical University, Georgia

Germany

Prof. Dr. Franz Adlkofer, MD, Chairman, Pandora Foundation, Germany
Prof. Dr. Hynek Burda, Ph.D., University of Duisburg-Essen, Germany
Dr. Horst Eger, MD, Electromagnetic Fields in Medicine, Association of Statutory Health Insurance Physicians, Bavaria, Germany
Prof. Dr. Karl Hecht, MD, former Director, Institute of Pathophysiology, Charité, Humboldt University, Berlin, Germany
Dr.Sc. Florian M. König, Ph.D., Florian König Enterprises (FKE) GmbH, Munich, Germany
Dr. rer. nat. Lebrecht von Klitzing, Ph.D., Dr. rer. nat. Lebrecht von Klitzing, Ph.D., Head, Institute of Environ.Physics; Ex-Head, Dept. Clinical Research, Medical University, Lubeck, Germany
Dr. Cornelia Waldmann-Selsam, MD, Member, Competence Initiative for the Protection of Humanity, Environment and Democracy e.V, Bamberg, Germany
Dr. Ulrich Warnke, Ph.D., Bionik-Institut, University of Saarlandes, Germany

Greece

Dr. Adamantia F. Fragopoulou, M.Sc., Ph.D., Department of Cell Biology & Biophysics, Biology Faculty, University of Athens, Greece
Dr. Christos Georgiou, Ph.D., Biology Department, University of Patras, Greece
Prof. Emeritus Lukas H. Margaritis, Ph.D., Depts. Cell Biology, Radiobiology & Biophysics, Biology Faculty, Univ. of Athens, Greece
Dr. Aikaterini Skouroliakou, M.Sc., Ph.D., Department of Energy Technology Engineering, Technological Educational Institute of Athens, Greece
Dr. Stelios A Zinelis, MD, Hellenic Cancer Society-Kefalonia, Greece

Iceland

Dr. Ceon Ramon, Ph.D., Affiliate Professor, University of Washington, USA; **Professor**, Reykjavik University, Iceland

India

Prof. Dr. B. D. Banerjee, Ph.D., Fmr. Head, Environmental Biochemistry & Molecular Biology Laboratory, Department of Biochemistry, University College of Medical Sciences, University of Delhi, India
Prof. Jitendra Behari, Ph.D., Ex-Dean, Jawaharlal Nehru University; presently, Emeritus Professor, Amity University, India
Prof. Dr. Madhukar Shivajirao Dama, Institute of Wildlife Veterinary Research, India
Associate Prof. Dr Amarjot Dhami, Ph.D., Lovely Professional University, Phagwara, Punjab, India
Dr. Kavindra K. Kesari, MBA, Ph.D., Resident Environmental Scientist, University of Eastern Finland, Finland; Assistant Professor, Jaipur National University, India
Prof. Girish Kumar, Ph.D., Electrical Engineering Department, Indian Institute of Technology, Bombay, India
Dr. Pabrita Mandal Ph.D., Department of Physics, Indian Institute of Technology, Kanpur, India
Prof. Rashmi Mathur, Ph.D., Head, Department of Physiology, All India Institute of Medical Sciences, New Delhi, India
Dr. Kameshwar Prasad MD, Head, Dept of Neurology, Director, Clinical Epidemiology, All India Institute of Medical Sciences, India
Dr. Sivani Saravanamuttu, Ph.D., Dept. Advanced Zoology and Biotechnology, Loyola College, Chennai, India
Dr. N.N. Shareesh, Ph.D., Melaka Manipal Medical College, India
Dr. R.S. Sharma, MD, Sr. Deputy Director General, Scientist - G & Chief Coordinator - EMF Project, Indian Council of Medical Research, Dept. of Health Research, Ministry/Health and Family Welfare, Government of India, New Delhi, India
Prof. Dr. Dorairaj Sudarsanam, M.Sc., M.Ed., Ph.D., Fellow - National Academy of Biological Sciences, Prof. of Zoology, Biotechnology and Bioinformatics, Dept. Advanced Zoology & Biotechnology, Loyola College, Chennai, South India

Iran (Islamic Republic of)

Prof. Dr. Soheila Abdi, Ph.D., Physics, Islamic Azad University of Safadasht, Tehran, Iran
Prof. G.A. Jelodar, D.V.M., Ph.D., Physiology, School of Veterinary Medicine, Shiraz University, Iran
Prof. Hamid Mobasheri, Ph.D., Head BRC; Head, Membrane Biophysics&Macromolecules Lab;Instit.Biochemistry&Biophysics,University,Tehran,Iran
Prof. Seyed Mohammad Mahdavi, Ph.D., Dept of Biology, Science and Research, Islamic Azad University, Tehran, Iran
Prof. S.M.J. Mortazavi, Ph.D., Head, Medical Physics & Engineering; Chair, NIER Protection Research Center, Shiraz University of Medical Sciences, Iran
Prof. Amirnader Emami Razavi, Ph.D., Clinical Biochem., National Tumor Bank, Cancer Institute, Tehran Univ. Medical Sciences, Iran
Dr. Masood Sepehrmanesh, Ph.D., Gastroenterohepatology Research Center, Shiraz University of Medical Sciences, Iran
Prof. Dr. Mohammad Shabani, Ph.D., Neurophysiology, Kerman Neuroscience Research Center, Iran

Israel

Michael Peleg, M.Sc., radio communications engineer and researcher, Technion - Israel Institute of Technology, Israel
Prof. Elihu D. Richter, MD,MPH, Occupational&Environmental Medicine, Hebrew University-Hadassah School of Public Health&Community Medicine, Israel
Dr. Yael Stein, MD, Hebrew University of Jerusalem, Hadassah Medical Center, Israel
Dr. Danny Wolf, MD, Pediatrician and General Practitioner, Sherutey Briut Clalit, Shron Shomron district, Israel
Dr. Ronni Wolf, MD, Assoc. Clinical Professor, Head of Dermatology Unit, Kaplan Medical Center, Rehovot, Israel

Italy

Prof. Sergio Adamo, Ph.D., La Sapienza University, Rome, Italy
Prof. Fernanda Amicarelli, Ph.D., Applied Biology, Dept. of Health, Life and Environmental Sciences, University of L'Aquila, Italy
Dr. Pasquale Avino, Ph.D., INAIL Research Section, Rome, Italy
Dr. Fiorella Belpoggi, Ph.D., FIATP, Director, Cesare Maltoni Cancer Research Center, Ramazzini Institute, Italy

Prof. Giovanni Di Bonaventura, PhD, School of Medicine, "G. d'Annunzio" University of Chieti-Pescara, Italia
Prof. Emanuele Calabro, Department of Physics and Earth Sciences, University of Messina, Italy
Prof. Franco Cervellati, Ph.D., Department of Life Science and Biotechnology, Section of General Physiology, University of Ferrara, Italy
Vale Crocetta, Ph.D. Candidate, Biomolecular and Pharmaceutical Sciences, "G. d'Annunzio" University of Chieti, Italy
Prof. Stefano Falone, Ph.D., Researcher in Applied Biology, Dept. of Health, Life&Environmental Sciences, University of L'Aquila, Italy
Prof. Dr. Speridione Garbisa, ret. Senior Scholar, Dept. Biomedical Sciences, University of Padova, Italy
Dr. Settimio Grimaldi, Ph.D., Associate Scientist, National Research Council, Italy
Prof. Livio Giuliani, Ph.D., Director of Research, Italian Health National Service, Rome-Florence-Bozen;
Spokesman, ICEMS-International Commission for Electromagnetic Safety, Italy
Prof. Dr. Angelo Levis, MD, Dept. Medical Sciences, Padua University, Italy
Prof. Salvatore Magazù, Ph.D., Department of Physics and Science, Messina University, Italy
Dr. Fiorenzo Marinelli, Ph.D., Researcher, Molecular Genetics Institute of the National Research Council, Italy
Dr. Arianna Pompilio, PhD, Dept. Medical, Oral & Biotechnological Sciences. G. d'Annunzio University of Chieti-Pescara, Italy
Prof. Dr. Raoul Saggini, MD, School of Medicine, University G. D'Annunzio, Chieti, Italy
Dr. Morando Soffritti, MD, Honorary President, National Institute for the Study and Control of Cancer and Environmental Diseases, B.Ramazzini, Bologna. Italy
Prof. Massimo Sperini, Ph.D., Center for Inter-University Research on Sustainable Development, Rome, Italy

Japan

Prof. Tsuyoshi Hondou, Ph.D., Graduate School of Science, Tohoku University, Japan
Prof. Hidetake Miyata, Ph.D., Department of Physics, Tohoku University, Japan

Jordan

Prof. Mohammed S.H. Al Salameh, Jordan University of Science & Technology, Jordan

Kazakhstan

Prof. Dr. Timur Saliev, MD, Ph.D., Life Sciences, Nazarbayev University, Kazakhstan; Institute Medical Science/Technology, University of Dundee, UK

New Zealand

Dr. Bruce Rapley, BSc, MPhil, Ph.D., Principal Consulting Scientist, Atkinson & Rapley Consulting Ltd., New Zealand

Nigeria

Dr. Idowu Ayisat Obe, Department of Zoology, Faculty of Science, University of Lagos, Akoka, Lagos, Nigeria
Prof. Olatunde Michael Oni, Ph.D., Radiation & Health Physics, Ladoko Akintola University of Technology, Ogbomoso, Nigeria

Oman

Prof. Najam Siddiqi, MBBS, Ph.D., Human Structure, Oman Medical College, Oman

Poland

Dr. Pawel Boder, Pharm. D., Department of Microwave Safety, Military Institute of Hygiene and Epidemiology, Poland
Prof. Dr. Stanislaw Szmigielski, MD, Ph.D., Military Institute of Hygiene and Epidemiology, Poland

Romania

Alina Cobzaru, Engineer, National Institutes Research & Development and Institute of Construction & Sustainability, Romania

Russian Federation

Prof. Vladimir N. Binhi, Ph.D., A.M.Prokhorov General Physics Institute of the Russian Academy of Sciences; M.V.Lomonosov Moscow State University
Dr. Oleg Grigoyev, DSc., Ph.D., Deputy Chairman, Russian National Committee on Non-Ionizing Radiation Protection, Russian Federation
Prof. Yury Grigoryev, MD, Chairman, Russian National Committee on Non-Ionizing Radiation Protection, Russian Federation
Dr. Anton Merkulov, Ph.D., Russian National Committee on Non-Ionizing Radiation Protection, Moscow, Russian Federation
Dr. Maxim Trushin, Ph.D., Kazan Federal University, Russia

Serbia

Dr. Snezana Raus Balind, Ph.D., Research Associate, Institute for Biological Research "Sinisa Stankovic", Belgrade, Serbia
Prof. Danica Dimitrijevic, Ph.D., Vinca Institute of Nuclear Sciences, University of Belgrade, Serbia
Dr. Sladjana Spasic, Ph.D., Institute for Multidisciplinary Research, University of Belgrade, Serbia

Slovak Republic

Dr. Igor Belyaev, Ph.D., Dr.Sc., Cancer Research Institute, Slovak Academy of Science, Bratislava, Slovak Republic

South Korea (Republic of Korea)

Prof. Young Hwan Ahn, MD, Ph.D., Ajou University Medical School, South Korea

Prof. Kwon-Seok Chae, Ph.D., Molecular-ElectroMagnetic Biology Lab, Kyungpook National University, South Korea

Prof. Dr. Yoon-Myoung Gimm, Ph.D., School of Electronics and Electrical Engineering, Dankook University, South Korea

Prof. Dr. Myung Chan Gye, Ph.D., Hanyang University, South Korea

Prof. Dr. Mina Ha, MD, Dankook University, South Korea

Prof. Seung-Cheol Hong, MD, Inje University, South Korea

Prof. Dong Hyun Kim, Ph.D., Dept. of Otorhinolaryngology-Head and Neck Surgery, Incheon St. Mary's Hospital, Catholic University of Korea, South Korea

Prof. Hak-Rim Kim, Dept. of Pharmacology, College of Medicine, Dankook University, South Korea

Prof. Myeung Ju Kim, MD, Ph.D., Department of Anatomy, Dankook University College of Medicine, South Korea

Prof. Jae Seon Lee, MD, Department of Molecular Medicine, NHA University College of Medicine, Incheon 22212, South Korea

Prof. Yun-Sil Lee, Ph.D., Ewha Woman's University, South Korea

Prof. Dr. Yoon-Won Kim, MD, Ph.D., Hallym University School of Medicine, South Korea

Prof. Jung Keog Park, Ph.D., Life Science & Biotech; Dir., Research Instit.of Biotechnology, Dongguk University, South Korea

Prof. Sungman Park, Ph.D., Institute of Medical Sciences, School of Medicine, Hallym University, South Korea

Prof. Kiwon Song, Ph.D., Dept. of Chemistry, Yonsei University, South Korea

Spain

Prof. Dr. Miguel Alcaraz, MD, Ph.D., Radiology and Physical Medicine, Faculty of Medicine, University of Murcia, Spain

Dr. Alfonso Balmori, Ph.D., Biologist, Consejería de Medio Ambiente, Junta de Castilla y León, Spain

Prof. J.L. Bardasano, D.Sc., University of Alcalá, Department of Medical Specialties, Madrid, Spain

Dr. Claudio Gómez-Perretta, MD, Ph.D., La Fe University Hospital, Valencia, Spain

Prof. Dr. Miguel López-Lázaro, PhD., Associate Professor, Department of Pharmacology, University of Seville, Spain

Prof. Dr. Elena Lopez Martin, Ph.D., Human Anatomy, Facultad de Medicina, Universidad de Santiago de Compostela, Spain

Prof. Enrique A. Navarro, Ph.D., Department of Applied Physics and Electromagnetics, University of Valencia, Spain

Sweden

Dr. Michael Carlberg, MSc, Örebro University Hospital, Sweden

Dr. Lennart Hardell, MD, Ph.D., University Hospital, Örebro, Sweden

Prof. Olle Johansson, Ph.D., Experimental Dermatology Unit, Dept. of Neuroscience, Karolinska Institute, Sweden

Dr. Bertil R. Persson, Ph.D., MD, Lund University, Sweden

Senior Prof. Dr. Leif Salford, MD, Department of Neurosurgery, Director, Rausing Laboratory, Lund University, Sweden

Dr. Fredrik Söderqvist, Ph.D., Ctr. for Clinical Research, Uppsala University, Västerås, Sweden

Switzerland

Dr. phil. nat. Daniel Favre, A.R.A. (Association Romande Alerte, Switzerland

Taiwan (Republic of China)

Prof. Dr. Tsun-Jen Cheng, MD, Sc.D., National Taiwan University, Republic of China

Turkey

Prof. Dr. Mehmet Zülküf Akdağ, Ph.D., Department of Biophysics, Medical School of Dicle University, Diyarbakir, Turkey

Associate Prof. Dr. Halil Abraham Atasoy, MD, Pediatrics, Abant İzzet Baysal University, Faculty of Medicine, Turkey

Prof. Ayse G. Canseven (Kursun), Ph.D., Gazi University, Faculty of Medicine, Dept. of Biophysics, Turkey

Prof. Dr. Mustafa Salih Celik, Ph.D., Fmr. Head, Turkish Biophysical Society; Head, Biophysics Dept; Medical Faculty, Dicle Univ., Turkey

Prof. Dr. Osman Cerezci, Electrical-Electronics Engineering Department, Sakarya University, Turkey

Prof. Dr. Suleyman Dasdag, Ph.D., Dept. of Biophysics, Medical School of Dicle University, Turkey

Prof. Omar Elmas, MD, Ph.D., Mugla Sitki Kocman University, Faculty of Medicine, Department of Physiology, Turkey

Prof. Dr. Ali H. Eriş, MD, faculty, Radiation Oncology Department, BAV University Medical School, Turkey

Prof. Dr. Arzu Firlarer, M.Sc. Ph.D., Occupational Health & Safety Department, Baskent University, Turkey

Prof. Associate Prof. Ayse Inhan Garip, PdH., Marmara Univ. School of Medicine, Biophysics Department, Turkey

Prof. Suleyman Kaplan, Ph.D., Head, Department of Histology and Embryology, Medical School, Ondokuz Mayıs University, Samsun, Turkey.

Prof. Dr. Mustafa Nazıroğlu, Ph.D., Biophysics Dept, Medical Faculty, Süleyman Demirel University, Isparta, Turkey
Prof. Dr. Ersan Odacı, MD, Ph.D., Karadeniz Technical University, Medical Faculty, Trabzon, Turkey
Prof. Dr. Elcin Ozgur, Ph.D., Biophysics Department, Faculty of Medicine, Gazi University, Turkey
Prof. Dr. Selim Seker, Electrical Engineering Department, Bogazici University, Istanbul, Turkey
Prof. Dr. Cemil Sert, Ph.D., Department of Biophysics of Medicine Faculty, Harran University, Turkey
Prof. Dr. Nesrin Seyhan, B.Sc., Ph.D., Medical Faculty of Gazi University; Chair, Biophysics Dept; Director GNRK Ctr.;
Panel Mbr, NATO STO HFM; Scientific Secretariat Member, ICEMS; Advisory Committee Member, WHO EMF, Turkey
Prof. Dr. Bahriye Sirav (Aral), Ph.D., Gazi University Faculty of Medicine, Dept of Biophysics, Turkey

Ukraine

Dr. Oleg Banyra, MD, 2nd Municipal Polyclinic, St. Paraskeva Medical Centre, Ukraine
Prof. Victor Martynyuk, Ph.D., ECS "Institute of Biology", Head of Biophysics Dept, Taras Shevchenko National University of Kiev, Ukraine
Prof. Igor Yakymenko, Ph.D., D.Sc., Institut. Experimental Pathology, Oncology & Radiobiology, National Academy of Sciences of Ukraine

United Kingdom

Michael Bevington, M.A., M.Ed., Chair of Trustees, ElectroSensitivity UK (ES-UK), UK
Mr. Roger Coghill, MA, C Biol, MI Biol, MA Environ Mgt; Member Institut.of Biology; Member, UK SAGE Committee on EMF Precautions, UK
Mr. David Gee, Associate Fellow, Institute of Environment, Health and Societies, Brunel University, UK
Dr. Andrew Goldsworthy BSc PhD, Lecturer in Biology (retired), Imperial College, London, UK
Emeritus Professor Denis L. Henshaw, Ph.D., Human Radiation Effects, School of Chemistry, University of Bristol, UK
Dr. Mae-Wan Ho, Ph.D., Institute of Science in Society, UK
Dr. Gerard Hyland, Ph.D., Institute of Biophysics, Neuss, Germany, UK
Dr. Isaac Jamieson, Ph.D., Biosustainable Design, UK
Emeritus Professor, Michael J. O'Carroll, Ph.D., former Pro Vice-Chancellor, University of Sunderland, UK
Mr. Alasdair Phillips, Electrical Engineer, UK
Dr. Syed Ghulam Sarwar Shah, M.Sc., Ph.D., Public Health Consultant, Honorary Research Fellow, Brunel University London, UK
Dr. Sarah Starkey, Ph.D., independent neuroscience and environmental health research, UK

United States

Dr. Martin Blank, Ph.D., Columbia University, USA
Prof. Jim Burch, MS, Ph.D., Dept. of Epidemiology & Biostatistics, Arnold School of Public Health, University of South Carolina, USA
Prof. David O. Carpenter, MD, Director, Institute for Health and the Environment, University of New York at Albany, USA
Prof. Simona Carrubba, Ph.D., Biophysics, Daemen College, Women & Children's Hospital of Buffalo Neurology Dept., USA
Dr. Zoreh Davanipour, D.V.M., Ph.D., Friends Research Institute, USA
Dr. Devra Davis, Ph.D., MPH, President, Environmental Health Trust; Fellow, American College of Epidemiology, USA
Paul Raymond Doyon, EMRS, MAT, MA, Doyon Independent Research Associates, USA
Prof. Om P. Gandhi, Ph.D., Department of Electrical and Computer Engineering, University of Utah, USA
Prof. Beatrice Golomb, MD, Ph.D., University of California at San Diego School of Medicine, USA
Dr. Martha R. Herbert, MD, Ph.D., Harvard Medical School, Harvard University, USA
Dr. Gunnar Heuser, M.D., Ph.D., F.A.C.P. Emeritus member, Cedars Sinai Medical Center, Los Angeles, CA; Former Assistant Clinical Professor, UCLA; Former member, Brain Research Institute, UCLA. USA
Dr. Donald Hillman, Ph.D., Professor Emeritus, Michigan State University, USA
Elizabeth Kelley, MA, Fmr. Managing Secretariat, ICEMS, Italy; Director, EMFscientist.org, USA
Neha Kumar, Founder, Nonionizing Electromagnetic Radiation Shielding Alternatives, Pvt. Ltd; B.Tech - Industrial Biotech., USA
Dr. Henry Lai, Ph.D., University of Washington, USA
B. Blake Levitt, medical/science journalist, former New York Times contributor, EMF researcher and author, USA
Prof. Trevor G. Marshall, PhD, Autoimmunity Research Foundation, USA
Dr. Albert M. Manville, II, Ph.D. and C.W.B., Adj. Professor, Johns Hopkins University Krieger Graduate School of Arts & Sciences; Migratory Bird Management, U.S. Fish & Wildlife Service, USA
Dr. Andrew Marino, J.D., Ph.D., Retired Professor, LSU Health Sciences Center, USA
Dr. Marko Markov, Ph.D., President, Research International, Buffalo, New York, USA
Dr. Jeffrey L. Marrongelle, DC, CCN, President/Managing Partner of BioEnergiMed LLC, USA

Dr. Ronald Melnick, PhD, Senior Toxicologist, (Retired, leader of the NTP's health effects studies of cell phone radio frequency radiation)
US National Toxicology Program, National Institute of Environmental Health Sciences, USA
Dr. Samuel Milham, MD, MPH, USA
L. Lloyd Morgan, Environmental Health Trust, USA
Dr. Joel M. Moskowitz, Ph.D., School of Public Health, University of California, Berkeley, USA
Dr. Martin L. Pall, Ph.D., Professor Emeritus, Biochemistry & Basic Medical Sciences, Washington State University, USA
Dr. Jerry L. Phillips, Ph.D. University of Colorado, USA
Dr. William J. Rea, M.D., Environmental Health Center, Dallas, Texas, USA
Camilla Rees, MBA, Electromagnetichealth.org; CEO, Wide Angle Health, LLC, USA
Prof. Narendra P. Singh, MD, University of Washington, USA
Prof. Eugene Sobel, Ph.D., Retired, School of Medicine, University of Southern California, USA
David Stetzer, Stetzer Electric, Inc., Blair, Wisconsin, USA
Dr. Lisa Tully, Ph.D., Energy Medicine Research Institute, Boulder, CO, USA

Supporting Scientists who have published peer reviewed papers in related fields

Michelle Casciani, MA, Environmental Science, President/Chief Executive Officer, Salvator Mundi International Hospital, Rome, Italy
Enrico Corsetti, Engineer, Research Director, Salvator Mundi International Hospital, Rome, Italy
Jacques Testart, Biologist, Honorary Research Director at I.N.S.E.R.M. (French National Medical Research Institute), France
Xin Li, PhD candidate MSc, Department of Mechanical Engineering, Stevens Institute of Technology, New Jersey, USA
Dr. Carlos A. Loredo Ritter, MD, Pediatrician, Pediatric Neurologist, President, Restoration Physics, North American Sleep Medicine Society, USA
Dr. Robin Maytum, PhD, Senior Lecturer in Biological Science, University of Bedfordshire, Luton, UK
Prof. Dr. Raúl A. Montenegro, Ph.D., Evolutionary Biology, National University of Cordoba; President, FUNAM; Recognitions: Scientific Investigation Award from University of Buenos Aires, UNEP 'Global 500' Award (Brussels, Belgium), the Nuclear Free Future Award (Salzburg, Austria), and Alternative Nobel Prize (Right Livelihood Award, Sweden), Argentina.
Dr. Hugo Schooneveld, PhD, Biologist, Neuroscientist, Advisor to the Dutch EHS Foundation, Netherlands
Dr. Carmen Adella Sirbu, MD, Neurology, Lecturer, Titu Matescu University, Romania