

Versión en castellano de Ecologistas en Acción del original en italiano: [Appello degli Scienziati Italiani per la Sicurezza Elettromagnetica](#). Ver **NOTA FINAL**

## Llamamiento de la comunidad científica italiana por la seguridad electromagnética

**Al Gobierno italiano, al Parlamento, a las Regiones y a las Provincias Autónomas.  
23 de septiembre de 2023**

Desde la biología, física, química y medicina las abajo firmantes llevamos décadas investigando los efectos biológicos de los campos electromagnéticos, y nunca nos hemos beneficiado de fondos de la industria de las telecomunicaciones, lo que demuestra que siempre hemos trabajado únicamente en interés de la salud pública.

La noticia de que el Gobierno está considerando elevar el valor de advertencia a 6 V/m para los lugares donde se permanece más de cuatro horas es motivo de gran preocupación.

Nuestros estudios, y la investigación internacional en general, han demostrado ampliamente durante al menos dos décadas que las exposiciones a radiofrecuencias, incluso por debajo de las actuales normas de seguridad ICNIRP/OMS, producen daños a la salud y reducen los niveles de bienestar de la población.

Grupos de científicos, como ICEMS y Bioinitiative, y el Consejo de Europa (Resolución 1815 del 2011) han hecho llamamientos para la reducción inmediata de los límites de exposición de la población a 0,6 V/m, para garantizar la salud pública y, en particular, la seguridad de las personas vulnerables, como los niños, las mujeres embarazadas, los enfermos crónicos, los enfermos de cáncer y las personas electro sensibles.

La radiofrecuencia se ha asociado a varios problemas de salud, entre ellos:

- Cáncer (la radiofrecuencia fue clasificada por la IARC como "posible carcinógeno humano" en 2011, pero estudios posteriores han concluido que la radiofrecuencia entra dentro de los parámetros del Grupo 2A, <sup>1</sup> "carcinógeno probable", y del Grupo 1, "carcinógeno demostrado" <sup>2</sup>).
- Enfermedades neurodegenerativas, como el Alzheimer.

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1 Morgan LL, Miller AB, Sasco A, Davis DL. Mobile phone radiation causes brain tumors and should be classified as a probable human carcinogen (2A) (review). *Int J Oncol*. 2015 May;46(5):1865-71. doi: 10.3892/ijo.2015.2908. Epub 2015 Feb 25. PMID: 25738972.

2 Hardell L, Carlberg M. Mobile phone and cordless phone use and the risk for glioma - Analysis of pooled case-control studies in Sweden, 1997-2003 and 2007-2009. *Pathophysiology*. 2015 Mar;22(1):1-13. doi: 10.1016/j.pathophys.2014.10.001. Epub 2014 Oct 29. PMID: 25466607

- Infertilidad masculina y femenina.
- Aumento del estrés oxidativo (relacionado con numerosas enfermedades crónicas).
- Alteraciones neuroconductuales en niños nacidos de madres que utilizaron teléfonos móviles durante el embarazo.
- Disfunción inmunitaria.
- Alteraciones del metabolismo de la insulina.
- Aumento de la permeabilidad cerebral y alteraciones del metabolismo cerebral.

Ya estamos pagando los costes sociales y sanitarios de liberar en el medio ambiente niveles de radiación artificial de radiofrecuencia que no son del todo compatibles con la vida. Aumentar aún más la exposición de la población a las radiofrecuencias no es ni éticamente aceptable ni económicamente sostenible.

Más bien se necesitan **medidas para proteger la salud pública y el medio ambiente**. No sólo las personas, sino también los animales y las plantas se ven afectados por la exposición crónica a las radiofrecuencias, con daños significativos especialmente en las poblaciones de aves, anfibios y abejas.

Un reciente artículo del profesor James Lin en '*IEEE Microwave Magazine*' del 3 de junio de 2023, la revista de la más prestigiosa organización internacional de ingenieros, concluye que **las directrices de la ICNIRP tienen graves limitaciones**:

- Sólo protegen contra los efectos térmicos agudos en exposiciones de alta intensidad y corta duración (30 minutos).
- No son aplicables a exposiciones de larga duración y baja intensidad, como ocurre realmente en contextos de la vida cotidiana.
- Se basan en información obsoleta.

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 3 Huss J., Luxembourg, Socialist Group, "The potential dangers of electromagnetic fields and their effect on the environment", Report to the Committee on the Environment, Agriculture and Local and Regional Affairs Doc. 12608 . 6 May 2011 (Rapporto del consigliere Jean Huss che ha portato alla Risoluzione 1815 dell'Assemblea Plenaria del Consiglio d'Europa del 27 maggio 2011).

5 Kimmel, S., J. Kuhn, W. Harst et al. Influences on Honeybees (*Apis mellifera*). Electromagnetic Radiation, (2007).

6 Sainudeen P. Electromagnetic radiation (EMR) clashes with honeybees. Journal of Entomology and Nematology Vol. 4(1), pp. 1-3, January, 2012.

7 Lázaro A et al, Electromagnetic radiation of mobile telecommunication antennas affects the abundance and composition of wild pollinators. J Insect Conserv, Received: 9 October 2015 / Accepted: 17 April 2016, Springer International Publishing Switzerland 2016.

8 <https://ieeexplore.ieee.org/abstract/document/10121536>

- No protegen contra la radiación de la tecnología 5G, que tiene fuertes características de polarización, muy diferentes de las generaciones anteriores de telefonía móvil, para las que se necesitarían más estudio.

Afortunadamente, la legislación italiana (Ley 36/2001) prevé límites más cautelares porque los responsables de la toma de decisiones tuvieron en cuenta en su momento dos principios fundamentales e indispensables

- El Principio de Precaución, consagrado originalmente en el derecho medioambiental internacional en la Declaración de Río de Janeiro de 1992;
- El Principio de Minimización ALARA (As Low As Reasonably Achievable), es decir, el nivel más bajo razonablemente alcanzable sin comprometer el desarrollo tecnológico

Por todo ello, las personas abajo firmantes solicitamos:

1. **Mantener el valor máximo en 20 V/m** para la protección de la salud pública contra los efectos agudos de las radiaciones.
2. **Mantener el valor de alerta de 6 V/m establecido en la legislación vigente** (Decreto del Presidente del Consejo de Ministros -DPCM- del 8 de julio de 2003).
3. **Medir el valor mencionado en el promedio de 6 minutos**, que tiene una razón biológica precisa (es el tiempo necesario para que las células disipen el calor producido por el campo electromagnético), tal como prevé el DPCM del 8 de julio de 2003, es decir, se solicita derogar el artículo 14, apartado 8 letra d) del Decreto-Ley 179/2012, que establecía la medición en el intervalo de tiempo de 24 horas, lo que es completamente arbitrario y carece de cualquier razón que no sea diluir los valores medidos.
4. **Elevar el objetivo de calidad a 0,6 V/m.**
5. **Aprobar una ley sobre el conflicto de intereses**, con el fin de obligar a los expertos llamados a emitir dictámenes científicos en un contexto institucional a declarar públicamente las fuentes de financiación de sus investigaciones, sus participaciones en empresas del sector y las consultorías en conflicto con el interés público.

Quedamos a su disposición para una reunión y para proporcionar más aclaraciones y documentación.

# Firmantes

## 1. Dr. Fiorenzo Marinelli

**Antiguo biólogo investigador del Instituto de Genética Molecular del Consiglio Nazionale delle Ricerche (CNR) de Bolonia, Centro de Estudios e Investigaciones Interuniversitarias (CIRPS) de la Universidad de La Sapienza de Roma, cofundador de la International Commission for Electromagnetic Safety (ICEMS).**

Lista de publicaciones más significativas:

- Cappucci, U; Casale, A.M.; Proietti, M.; Marinelli, F.; Giuliani, L.; Piacentini, L. "WiFi Related Radiofrequency Electromagnetic Fields Promote Transposable Element Dysregulation and Genomic Instability in *Drosophila melanogaster*" in *Cells* 2022, 11, 4036. <https://doi.org/10.3390/cells11244036>
- Maurizio Brizzi and Fiorenzo Marinelli, "Increased risk of cancer and heart diseases due to the exposure to the radar EMF among the population of Potenza Picena, Italy (1986-91)" in *Eur. J. Oncology*, Vol. 23, n. 4, pp. 204-210, 2018.
- Coraddu M., Marinelli F et al. "A new trend on Electromagnetic Fields (EMF) risk assessment" in *Journal of Physics*, 2015.
- Barteri M, Marinelli F. et al. "Effects of Microwaves (900 MHz) on Peroxidase Systems: a Comparison Between Lactoperoxidase and Horseradish Peroxidase" in *Electromagn Biol Med*, Early Online: 1–7! 2015 Informa Healthcare USA, Inc. DOI: 10.3109/15368378.2014.1002135.
- Marinelli F, La Sala D, Ciccio G, et al. "Exposure to 900 MHz electromagnetic field induces an unbalance between pro-apoptotic and pro-survival signals in T-lymphoblastoid leukemia CCRF-CEM cells" in *Journal of Cellular Physiology*, Volume: 198 Issue: 3 Pages: 479-480. Published: Mar 2004 (*Impact Factor* 4.218)
- Marinelli F "Radiazioni non ionizzanti" capitolo 20.2 nel libro AA.VV. "Scienze ambientali: manuale per prendere buone decisioni", edito dall'ENEA, 2014.

## 2. Prof. Livio Giuliani

**Matemático, Ex Director de Investigación del ISPESL (posteriormente INAIL), Presidente de la Comisión Internacional de Seguridad Electromagnética ([www.icems.eu](http://www.icems.eu))**

Lista de publicaciones más significativas:

- Giuliani L. "Reasons for Disagreement Between European Council and Italy Concerning Protection Against Health Impacts from EMF/Unterschied zwischen der EU und Italien im Hinblick auf den Schutz der Bevölkerung vor elektromagnetischen Feldern". Proceedings of the Conference Celltower Siting Salzburg June 2000. Epub [www.land-sbg.at/celltower](http://www.land-sbg.at/celltower) 2000. <https://liviogiuliani.academia.edu/research>
- Marinelli F, La Sala D, Ciccio G, Cattini L, Trimarchi C, Putti S, Zamparelli A, Giuliani L, Tomassetti G, Cinti C. Exposure to 900 MHz Electromagnetic fields induce an unbalance

between proapoptotic and prosurvival signals in T-lymphoblastoid leukaemia CCRF-CEM cells. *J Cell Physiol* 2004, 198:324-332.

- Lisi A, Rieti S, Criceti A, Flori A, Generosi R, Luce M, Perfetti P, Foletti A, Ledda M, Rosola E, Giuliani L, D'Emilia E, Grimaldi S. ELF Non Ionizing Radiation Changes the Distribution of the Inner Chemical Functional Groups in Human Epithelial Cell (HaCaT) Culture. *Electrom Biol Med* 2006, 25(4): 281-289.
- Boella F, Giuliani L. Micro-Cells Coverage for Mobile Telephony: An Alternative Way to Reduce EMF Exposures. *Electrom Biol Med* 2006, 25(4): 325-337.
- Zhadin MN, Barnes FS, Giuliani L. Response to a few remarks on combined action of DC and AC magnetic fields on ion motion in macromolecules" by Binhi. *Bioelectromagnetics*, 2007, 28(5):412-413.
- Soffritti M, Belpoggi F, Lauriola M, Tibaldi E, Manservigi F, Accurso D, Chiozzotto D, Giuliani L. Mega-experiments on the carcinogenicity of Extremely Low Frequency Magnetic Fields (ELFMF) on Sprague-Dawley rats exposed from fetal life until spontaneous death: plan of the project and early results on mammary carcinogenesis, in Giuliani L and Soffritti M eds, *Non-Thermal Effects and Mechanisms of Interaction Between Electromagnetic Fields and Living Matter. An ICEMS Monograph. Eur. J. Oncol. Library* 2010 Oct ,Vol. 5, Fidenza 2010.
- Giuliani L, D'Emilia E, Ledda M, Grimaldi S, Lisi A. New Perspectives of Bioelectromagnetics in Biology and in Medicine: DNA Spectra for Diagnostic Purposes. *Journal of Physics: Conference Series* 329, 01 2011.
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- Cappucci U, Casale AM, Proietti M, Marinelli F, Giuliani L, Piacentini L. WiFi Related Radiofrequency Electromagnetic Fields Promote Transposable Element Dysregulation and Genomic Instability in *Drosophila melanogaster*. *Cells*. 2022 Dec 13;11(24):4036. doi: 10.3390/cells11244036. PMID: 36552798; PMCID: PMC9776602.

### 3. Dr. Ernesto Burgio

**Pediatra, ECERI – European Cancer and Environment Research Institute, Bruselas**

Lista de las publicaciones más significativas sobre el tema:

- Belpomme D, Carlo GL, Irigaray P, Carpenter DO, Hardell L, Kundi M, Belyaev I, Havas M, Adlkofer F, Heuser G, Miller AB, Caccamo D, De Luca C, von Klitzing L, Pall ML, Bandara P, Stein Y, Sage C, Soffritti M, Davis D, Moskowitz JM, Mortazavi SMJ, Herbert MR, Moshhammer H, Ledoigt G, Turner R, Tweedale A, Muñoz-Calero P, Udasin I, Koppel T, Burgio E, Vorst AV. *The Critical Importance of Molecular Biomarkers and Imaging in the Study of Electrohypersensitivity. A Scientific Consensus International Report.* *Int J Mol Sci.* 2021 Jul 7;22(14):7321. doi: 10.3390/ijms22147321
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*How Wireless Technologies May Affect Childhood Development*. Child Dev. 2018 Jan;89(1):129-136. doi: 10.1111/cdev.12824. Epub 2017 May 15. PMID: 28504324.

- Burgio E. Ambiente e Salute. Inquinamento, interferenze sul genoma umano e rischi per la salute OMCeO 2013 <http://www.omcear.it/docs/cesalpino/AMBIENTE%20E%20SALUTE.pdf>

#### **4. Dr. Massimo Coraddu**

**Físico ambiental, IIS Dionigi Scano, Cagliari**

Lista de las publicaciones más significativas:

- M. Zucchetti, M. Coraddu, B. Littarru, and M. Cristaldi. Environmental pollution and health effects in the Quirra area, Sardinia (Italy) . Fresenius Environmental Bulletin. 20: 810-817, 2011.
- M. Coraddu, E. Cottone, A. Levis, A. Lombardo, F. Marinelli and M. Zucchetti. Electromagnetic Fields (EMF) biological and health effects and the MUOS case. Fresenius Environmental Bulletin. 24: 1896-1903, 2015.

#### **5. Ing. Claudio Poggi**

**Ing. Electrónico Investigador independiente y miembro de la ICEMS, Génova**

Lista de las publicaciones más significativas:

- Rizzo A, Cardellini F, Poggi C, Borra E, Ciciani L, Narici L, Sperandio L, Vilardi I. Novel Algorithm for Radon Real-Time Measurements with a Pixelated Detector. Sensors (Basel). 2022 Jan 10;22(2):516. doi: 10.3390/s22020516. PMID: 35062477; PMCID: PMC8780917.
- Rossi E, Corsetti MT, Sukkar S, Poggi C. Extremely low frequency electromagnetic fields prevent chemotherapy induced myelotoxicity. Electromagn Biol Med. 2007;26(4):277-81. doi: 10.1080/15368370701761984. PMID: 18097813.
- Liboff AR, Poggi C, Pratesi P. Weak low-frequency electromagnetic oscillations in water. Electromagn Biol Med. 2017;36(2):154-157. doi: 10.1080/15368378.2016.1227332. Epub 2016 Sep 29. PMID: 27687570.
- Bartolini L, De Dominicis L, de Collibus MF, Fornetti G, Guarneri M, Paglia E, Poggi C, Ricci R. Underwater three-dimensional imaging with an amplitude-modulated laser radar at a 405 nm wavelength. Appl Opt. 2005 Nov 20;44(33):7130-5. doi: 10.1364/ao.44.007130. PMID: 16318184.
- Liboff AR, Poggi C, Pratesi P. Helical water wires. Electromagn Biol Med. 2017;36(3):265-269. doi: 10.1080/15368378.2017.1322521. Epub 2017 May 19. PMID: 28524701.

Patentes:

- Inventore di brev. GE2004A000063: "Metodo per incrementare l'efficacia biologica dei campi elettromagnetici usati per il trattamento di esseri umani animali o piante";
- Inventore di brev. GE2004A000064: "Metodo per l'applicazione di un campo elettromagnetico per il trattamento di esseri umani, animali o piante";
- Inventore di brev. GE2004A000081: "Dispositivo per l'ottenimento di effetti biologici tramite il controllo di flussi ionici con l'uso di campi elettromagnetici";
- Coinventore di brev. TO2006A000416: "Procedimento per la rilevazione di parametri fisici di cellule e relativo apparato di rilevazione";

- Coinventore di brev. TO2006A000597: "Procedimento per accelerare il differenziamento di cellule staminali in cellule derivate aventi fenotipo tessuto-specifico, relative cellule derivate e loro usi";
- Coinventore di brev. TO2006A000916: "Procedimento per accelerare il differenziamento di cellule staminali, la proliferazione di cellule con fenotipo tessuto-specifico, primarie o linee cellulari tumorali e la fusione di diversi stipiti cellulari ed il relativo dispositivo";
- Coinventore di brev. GB2494538: "Human stress detection system";
- Inventore di brev. n. 102016000056753: "Dispositivi per la generazione di Campi Elettromagnetici deboli con ricchezza spettrale controllata, particolarmente adatti anche ad essere implementati in apparecchi miniaturizzati, portatili, wearables o impiantabili";
- Inventore di brev. n. 102016000057037: "Metodo per l'applicazione di deboli Campi Elettromagnetici a uomini o animali";
- Coinventore di brev. n. 102016000065131: "Metodo e dispositivo per rendere più efficiente, rapido e ripetibile il processo di fermentazione, attraverso l'azione di microorganismi, in alimenti o bevande o altri liquidi ad uso umano, animale o agricolo";
- Coinventore di brev. n. 102018000006819: "Procedimento e relativo dispositivo basati sull'uso di Campo Elettromagnetico atti a rendere più efficiente, rapido e ripetibile il processo di crescita e sviluppo di ife, micelio e funghi, e a promuovere la micorrizzazione dell'apparato radicale, anche nelle colture orticole, al fine di ridurre l'utilizzo di pesticidi e fungicidi chimici, anche in agricoltura biologica";
- Coinventore di brev. n. 102021000003284: "Procedimento e relativo dispositivo basati sull'uso di Campo Elettromagnetico atti a contrastare la diffusione di virus di tipo "Corona" in un organismo".

## **6. Dra. Oriana Chisté**

### **Médica Investigadora independiente y miembro de la ICEMS, Trento**

Patentes:

- Coinventore di brev. n. 102016000065131: "Metodo e dispositivo per rendere più efficiente, rapido e ripetibile il processo di fermentazione, attraverso l'azione di microorganismi, in alimenti o bevande o altri liquidi ad uso umano, animale o agricolo";
- Coinventore di brev. n. 102018000006819: "Procedimento e relativo dispositivo basati sull'uso di Campo Elettromagnetico atti a rendere più efficiente, rapido e ripetibile il processo di crescita e sviluppo di ife, micelio e funghi, e a promuovere la micorrizzazione dell'apparato radicale, anche nelle colture orticole, al fine di ridurre l'utilizzo di pesticidi e fungicidi chimici, anche in agricoltura biologica";
- Coinventore di brev. n. 102021000003284: "Procedimento e relativo dispositivo basati sull'uso di Campo Elettromagnetico atti a contrastare la diffusione di virus di tipo "Corona" in un organismo".

## **7. Dr. Morando Soffritti**

### **Médico, Presidente Honorario de la Fundación Ramazzini, Bolonia**

Lista de las publicaciones más significativas:

- Soffritti M, Belpoggi F, Tibaldi E, Esposti DD, Lauriola M. Life-span exposure to low doses of aspartame beginning during prenatal life increases cancer effects in rats. *Environ Health Perspect.* 2007 Sep;115(9):1293-7. doi: 10.1289/ehp.10271. PMID: 17805418; PMCID: PMC1964906.
- Soffritti M, Belpoggi F, Esposti DD, Falcioni L, Bua L. Consequences of exposure to carcinogens beginning during developmental life. *Basic Clin Pharmacol Toxicol.* 2008 Feb;102(2):118-24. doi: 10.1111/j.1742-7843.2007.00200.x. PMID: 18226064.
- Soffritti M, Tibaldi E, Bua L, Padovani M, Falcioni L, Lauriola M, Manservigi M, Manservigi F, Belpoggi F. Life-span carcinogenicity studies on Sprague-Dawley rats exposed to  $\gamma$  radiation: design of the project and report on the tumor occurrence after post-natal radiation exposure (6 weeks of age) delivered in a single acute exposure. *Am J Ind Med.* 2015 Jan;58(1):46-60. doi: 10.1002/ajim.22391. Epub 2014 Oct 28. PMID: 25351660.
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- Maltoni C, Soffritti M, Belpoggi F. The scientific and methodological bases of experimental studies for detecting and quantifying carcinogenic risks. *Ann N Y Acad Sci.* 1999;895:10-26. doi: 10.1111/j.1749-6632.1999.tb08074.x. PMID: 10676406.
- Soffritti M, Giuliani L. The carcinogenic potential of non-ionizing radiations: The cases of S50 Hz MF and 1.8 GHz GSM radiofrequency radiation. *Basic Clin Pharmacol Toxicol.* 2019 Aug;125 Suppl 3:58-69. doi: 10.1111/bcpt.13215. Epub 2019 Mar 25. PMID: 30801980.

## **8. Prof. Mario Barteri**

### **Ex Prof. Ordinario Química y Física de la Universidad La Sapienza de Roma**

Lista de las publicaciones más significativas:

- Barteri M, Pala A, Rotella S. Structural and kinetic effects of mobile phone microwaves on acetylcholinesterase activity. *Biophys Chem.* 2005 Mar 1;113(3):245-53. doi: 10.1016/j.bpc.2004.09.010. PMID: 15620509.
- Barteri M, De Carolis R, Marinelli F, Tomassetti G, Montemiglio LC. Effects of microwaves (900 MHz) on peroxidase systems: A comparison between lactoperoxidase and horseradish peroxidase. *Electromagn Biol Med.* 2016;35(2):126-33. doi: 10.3109/15368378.2014.1002135. Epub 2015 Jan 12. PMID: 25577980.

## **9. Prof. Massimo Scalia**

### **Ex Prof. de Física Matemática de la Universidad La Sapienza de Roma, Coordinador de la Sección de Bioelectromagnetismo (BEM) del Centro Interuniversitario di Ricerca Per lo Sviluppo sostenibile (CIRPS)**

Lista de las publicaciones más significativas:

- Scalia M., Sperini M., Guidi F. The Johnson noise in biological matter. *Math. Probl Eng.* 2012:582126. doi: 10.1155/2012/582126.
- Massimo Scalia, Tonella Doro, Lorenzo Uhl. Measuring electro-physiological response to a tibetan bell as stimulating agent\_September 2021 IOP Conference Series Earth and Environmental Science.
- M. Scalia, Francesca Pulcini, Massimo Sperini. Electromagnetic characterization of the environment. An Italian experience and the "mapping" method. September 2021\_IOP Conference Series Earth and Environmental Science.
- M. Scalia, M. Sperini, Maria Teresa Di Genova, Fiorenzo Marinelli. Electromagnetic characterization of the environment. An Italian experience and the "mapping" method. Preprint\_May 2021.
- M. Scalia et al. Air ions: measures\_Preprint\_May 2021.
- M. Scalia, Carlo Cattani. A generalized logistic model for Covid-19 spreading\_Culture of Sustainability/Culture della Sostenibilità\_February 2021.
- M. Scalia et al. An Ecology and Economy Coupling Model. A global stationary state model for a sustainable economy in the Hamiltonian formalism\_April 2020\_Ecological Economics 172(June 2020):1 – 9.
- M. Scalia, A. Angelini. The Sentinel. The MUOS. Environment, Society and High Frequency Electromagnetic Fields\_Oct. 2019\_(Book) Lambert Academic Publishing.
- M. Scalia, Pasquale Avino, M. Sperini, Vincenzo I. Valenzi. Some Observations on the Role of Water States for Biological and Therapeutical Effects\_Sept. 2018\_Innovative Biosystems and Bioengineering.

## 10. Prof.<sup>a</sup> Bianca Gustavino

**Profesora de Citogenética y Mutagénesis Ambiental, Universidad de Roma Tor Vergata - Departamento de Biología**

Lista de las publicaciones más significativas:

- Gustavino B, et al. Exposure to 915 MHz radiation induces micronuclei in *Vicia faba* root tips. *Mutagenesis*. 2016 Mar;31(2):187-92. doi: 10.1093/mutage/gev071. Epub 2015 Oct 17. PMID: 26476436
- B. Gustavino et al. DNA-damage induced in human lymphocytes by exposure to 915 MHz mobile-phone radiation: Does smoking habit modulate its genotoxicity? 7<sup>th</sup> International Conference on Radiation in Various Fields of Research (RAD 2019) 10–14.06.2019 | HERCEG NOVI, MONTENEGRO. [www.rad-conference.org](http://www.rad-conference.org) (Book of Abstracts)
- B. Gustavino et al. Induction of DNA damage by UVB radiation in erythrocytes of scaly reptiles and protective role of skin pigmentation. 7<sup>th</sup> International Conference on Radiation in Various Fields of Research (RAD 2019) 10–14.06.2019 | HERCEG NOVI, MONTENEGRO. [www.rad-conference.org](http://www.rad-conference.org) (Book of Abstracts).
- Gonfloni S, Jodice C, Gustavino B, Valentini E. DNA Damage Stress Response and Follicle Activation: Signaling Routes of Mammalian Ovarian Reserve. *Int J Mol Sci*. 2022 Nov 19;23:14379. doi: 10.3390/ijms232214379. PMID: 36430860.

## **11. Prof. Massimo Sperini**

### **Físico, miembro asociado de la Sección de Bioelectromagnetismo (BEM) del Centro Interuniversitario di Ricerca Per lo Sviluppo sostenibile (CIRPS)**

Lista de las publicaciones más significativas:

- Scalia M., Sperini M., Guidi F. The Johnson noise in biological matter. *Math. Probl Eng.* 2012:582126. doi: 10.1155/2012/582126.
- M. Scalia, Francesca Pulcini, Massimo Sperini. Electromagnetic characterization of the environment. An Italian experience and the "mapping" method. September 2021\_IOP Conference Series Earth and Environmental Science.
- Massimo Scalia, Massimo Speroni, Maria Teresa Di Genova<sup>1</sup>, Francesca Pulcini and Fiorenzo Marinelli et al. May 2021 IOP Conf. Ser.: Earth Environ. Sci. 853 012004.

## **12. Dra. Francesca Pulcini**

### **Divulgadora científica, miembro asociado de la Sección BEM del CIRPS**

Lista de las publicaciones:

- Massimo Scalia, Massimo Sperini, Maria Teresa Di Genova<sup>1</sup>, Francesca Pulcini and Fiorenzo Marinelli et al. May 2021 IOP Conf. Ser.: Earth Environ. Sci. 853 012004.

## **13. Dr. Massimo Santilli**

### **Técnico Electrónico, miembro asociado de la Sección BEM del CIRPS**

Lista de las publicaciones:

- M. Scalia, M. Sperini, F. Marinelli, Mauro Santilli, Air ions: measures. Preprint, May 2021.
- Massimo SCALIA, Massimo Sperini, Francesca Pulcini, Agata Fantauzzi, Lorenzo Uhl, Albina Pisani, Mauro Santilli. The evolution of Physics of Coherence from Giuliano Preparata to Allan Widom: some applications. COHERENCE 2022, 16 March 2022, Rome
- Massimo SCALIA, Massimo Sperini, Francesca Pulcini, Agata Fantauzzi, Lorenzo Uhl, Albina Pisani, Mauro Santilli. Electromagnetic Fields Virus And Bacteria. COHERENCE 2021, 26 November 2021, Rome.

## **14. Ing. Francesca Mattia**

### **Ingeniera electrónica especializada en bioelectromagnetismo**

Lista de las publicaciones:

- Ramundo-Orlando A, Mattia F, Palombo A e D'Inzeo G (2000). Effect of low- frequency, low-amplitude magnetic fields on the permeability of cationic liposomes entrapping carbonic anhydrase ii. no evidence for surface enzyme involvement. *Bioelectromagnetics* 21:499-507 (2000).
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## 15. Dr. Settimio Grimaldi

**Biofisico, Ex Investigador del Istituto di Farmacologia Traslazionale, CNR, Tor Vergata, Roma**

Lista de las publicaciones más significativas:

- Alberto F, Mario L, Sara P, Settimio G, Antonella L. Electromagnetic information delivery as a new tool in translational medicine. *Int J Clin Exp Med*. 2014 Sep 15;7(9):2550-6. PMID: 25356108; PMCID: PMC4211758.
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## 16 Prof.<sup>a</sup> Lucia Piacentini

**Genetista, Universidad La Sapienza de Roma**

Lista de las publicaciones más significativas:

- Cappucci U et al. "WiFi Related Radiofrequency Electromagnetic Fields Promote Transposable Element Dysregulation and Genomic Instability in *Drosophila melanogaster*." *Cells* vol. 11,24 4036. 13 Dec. 2022, doi:10.3390/cells11244036
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## 17 Dr. Ugo Cappucci

**Genetista, Universidad La Sapienza de Roma**

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## **18. Assunta Maria Casale**

**Genetista, Universidad La Sapienza de Roma**

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## **19. Dr. Paolo Orio**

**Médico Veterinario**

Lista de las publicaciones:

- Angelo Levis, Laura Masiero, Paolo Orio, Susan Biggin, Spiridione Garbisa. Health Effects of Mobile Phone Usage. *Encyclopedia of Mobile Phone Behavior*, Zheng Yan, University at Albany, State University of New York, USA 2015.

## **20. Laura Masiero**

**Arquitecta, Padua**

Lista de las publicaciones:

- Angelo Levis, Laura Masiero, Paolo Orio, Susan Biggin, Spiridione Garbisa. Health Effects of Mobile Phone Usage. *Encyclopedia of Mobile Phone Behavior*, Zheng Yan, University at Albany, State University of New York, USA 2015.

## **21. Dr. Cristiano Foschi**

**Biólogo especializado en Ecología, Doctor en Higiene Industrial y Higiene Industrial y Medioambiental. Roma**

Lista de las publicaciones más significativas:

- Cristaldi M, Foschi C, Szpunar G, Brini C, Marinelli F, Triolo L. Toxic Emissions from Military Test in Sardinia Territory. *International Journal of Environmental Research and Public Health*, 2013, 10, 1631-1646.
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## 22. Dra. Antonella De Ninno

**Física, especializada en la interacción de los campos electromagnéticos con los sistemas biológicos, Agenzia Nazionale per le Nuove Tecnologie (ENEA)**

Lista de las publicaciones más significativas:

- De Ninno A & Pregnolato M. Electromagnetic homeostasis and the role of low-amplitude electromagnetic fields on life organization, (2016): *Electromagnetic Biology and Medicine*, DOI: 10.1080/15368378.2016.1194293
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## 23. Prof.<sup>a</sup> Daniela Caccamo

**Profesora de Bioquímica Clínica, Universidad de Messina**

Lista de las publicaciones más significativas:

- Belpomme D, Carlo GL, Irigaray P, Carpenter DO, Hardell L, Kundi M, Belyaev I, Havas M, Adlkofer F, Heuser G, Miller AB, Caccamo D, De Luca C, von Klitzing L, Pall ML, Bandara P, Stein Y, Sage C, Soffritti M, Davis D, Moskowitz JM, Mortazavi SMJ, Herbert MR, Moshhammer H, Ledoigt G, Turner R, Tweedale A, Muñoz-Calero P, Udasin I, Koppel T,

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## **24. Prof. Dr. Stella Conte** **Médico y PhD, Universidad de Cagliari**

Lista de las publicaciones más significativas en la materia:

- Piras, C., Conte, S., Pibiri, M. Rao G., Muntoni S., Leoni V.P., Finco G., Atzori L. Metabolomics and Psychological Features in Fibromyalgia and Electromagnetic Sensitivity. *Scientific Report*, 10, 20418 (2020). <https://doi.org/10.1038/s41598-020-76876-8>

## **25. Dr. Ing. Massimo Rogante, B.Eng.(Mech), Nucl. Eng. Ph.D.** **Director del Estudio de Ingeniería Rogante**

Lista de las publicaciones más significativas:

- Giuliani L, Rogante M, Putti P.M., Saggini R, Campi elettromagnetici ed impatto ambientale: aspetti normativi, limiti di esposizione e principio di precauzione, *Ambiente & Sicurezza sul Lavoro*, EPC Editore, Vol. 2 (2022), pp. 61-69.
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Gjeldum, Eds., Croatian Society for Mechanical Technologies, Split, Croatia (2018), ISSN 1847-7917, pp. 45-51.

## 26. Prof. Henry Lai

**Profesor emérito, Departamento de Bioingeniería, Universidad de Washington, Seattle, WA 98195, USA**

Lista de las publicaciones más significativas:

- Lai, H., Levitt, B.B. Cellular and molecular effects of non-ionizing electromagnetic fields. Submitted to Reviews on Environmental Health 2023 Apr 7. doi: 10.1515/reveh-20230023. Online ahead of print
- Levitt, B.B., Lai, H.C., Manville, A.M. II. Low-level EMF effects on wildlife and plants: what research tells us about: an ecosystem approach. Frontiers in Public Health 10:1000840, 2022.
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## 27. Prof. Wilfried Kühling

**Prof. Dr.-Ing, Martin-Luther-Universität Halle-Wittenberg. Alemania**

Lista de las publicaciones más significativas:

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## **28. Dr. Arzu Firlarer**

**Dr. (PhD), Universidad Baskent Departamento de Salud y Seguridad en el Trabajo - Turquía**

Lista de las publicaciones más significativas:

- R. Hamid et al., "Measurement of electromagnetic radiation from GSM base stations," 2003 IEEE International Symposium on Electromagnetic Compatibility, 2003. EMC '03., Istanbul, Turkey, 2003, pp. 1211-1214 Vol.2, doi: 10.1109/ICSMC2.2003.1429136
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## **29. Susan Foster**

**Escritora sobre temas médicos, consultor de incendios y servicios públicos, bombera honoraria del Cuerpo de Bomberos de San Diego (California). EE.UU.**

Lista de las publicaciones más significativas:

- Organizer, SPECT brain scan study (2004) of California firefighters exposed to 2G tower. Study used as foundation for first ever health exemption (2015, 2018, 2021) for California firefighters.

## **30. Prof. David O. Carpenter**

**MD, Director y Profesor, Universidad de Albany, EE.UU,**

Lista de las publicaciones más significativas:

- Bandara P and Carpenter DO (2019) Causes of cancer: Perceptions vs scientific evidence. *Eur J Cancer* <https://doi.org/10.1016/j.ejca.2029.08.016>
- Carpenter DO (2019) Extremely low frequency electromagnetic fields and cancer: How source of funding affects results. *Environ Res* 178:108688
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- Carpenter DO (2015) The microwave syndrome or electrohypersensitivity: Historical background. *Rev Environ Health* 30: 217-222.

### **31. Prof. Christos D. Georgiou, Ph.D.**

**Profesor Emérito de Bioquímica, Departamento de Biología, Universidad de Patras, Grecia**

Lista de las publicaciones más significativas:

- Georgiou, C. D. (2010). Oxidative stress-induced biological damage by low-level EMFs: Mechanism of free radical pair electron spin polarization and biochemical amplification. *European Journal of Oncology* 5: 63-113 (In: *Non-thermal effects and mechanisms of interaction between electromagnetic fields and living matter*, Giuliani, L., Soffritti, M. Eds, *Ramazzini Institute European J. Oncology Library* 5, ISBN: 978-88-6261-166-4).
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### **32. Dr.. Lucio Triolo**

**Investigador voluntario en el Instituto de Anatomía Comparada de la Universidad de Roma, La Sapienza; antiguo investigador sobre Evaluación del Impacto Ambiental de los Sistemas Energéticos en el centro de investigación ENEA de Casaccia (Roma), Roma.**

Lista de las publicaciones más significativas:

1. Cristaldi M., Foschi C., Szpunar G., Brini C., Marinelli F., Triolo L. Toxic Emissions from Military Test in Sardinia Territory. *International Journal of Environmental Research and Public Health*, 2013, 10, 1631-1646.
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### 33. Prof. Tarmo Koppel

#### Seguridad laboral en Campos electromagnéticos, Universidad Tecnológica de Tallin, Estonia

##### Lista de las publicaciones más significativas:

- 2022 Electromagnetic hypersensitivity close to mobile phone base stations—a case study in Stockholm, Sweden L Hardell, T Koppel Reviews on Environmental Health 38 (2), 219-228.
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### 34. Prof. Klaus Buchner

#### Prof. Dr. habil, Universidad Técnica de Múnich y ex miembro del Parlamento Europeo

##### Lista de las publicaciones más significativas:

- Klaus Buchner und Horst Eger: Veränderung klinisch bedeutsamer Neurotransmitter unter dem Einfluss modulierter hochfrequenter Felder – Eine Langzeitstudie unter lebensnahen Bedingungen. umwelt □ medizin □ gesellschaft |24| 1/2011, S. 44 – 57 (Change of clinically important neurotransmitters by high frequency fields, a long-time study)
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- Klaus Buchner, Horst Eger und Josef Hopper: Reduzierte Fruchtbarkeit und vermehrte Missbildungen unter Mobilfunkstrahlung. Dokumentation aus einem landwirtschaftlichen Nutzbetrieb. umwelt □ medizin □ gesellschaft |27| 3/2014, S. 182 – 190 (Reduced fertility and pig malformation with statistics of 27.700 piglets)
- K.B. und M. Krout: 5G Wahn[sinn]. Die Risiken des Mobilfunks Das gefährliche Spiel mit den

Grenzwerten. Die strahlungsarmen Alternativen. Mankau Verlag 2021, ISBN 978-3-86374608-7 (5G delusion and madness)

- Michèle Rivasi und Klaus Buchner: Die Internationale Kommission zum Schutz vor nicht-ionisierender Strahlung: Interessenkonflikte, „Corporate Capture“ & der Vorstoß zum Ausbau des 5G-Netzes. Broschürenreihe „Wirkungen des Mobil- und Kommunikationsfunks“ Heft 14, 2021. ISBN 978-3-98 20 686-2-6 (ICNIRP: Conflicts of interest, corporate capture and advance to expansion of the 5G-net). Available also in French and in electronic form also in English

### **35. Prof. Paul Héroux**

#### **Profesor de Toxicología y Efectos Sanitarios de las Radiación Electromagnética, Facultad de Medicina, Universidad McGill, Montreal, Canadá.**

##### Lista de las publicaciones más significativas:

- Michèle Rivasi und Klaus Buchner: Die Internationale Kommission zum Schutz vor nichtionisierender Strahlung: Interessenskonflikte, „Corporate Capture“ & der Vorstoß zum Ausbau des 5G-Netzes. Broschürenreihe „Wirkungen des Mobil- und Kommunikationsfunks“ Heft 14, 2021. ISBN 978-3-98 20 686-2-6 (ICNIRP: Conflicts of interest, corporate capture and advance to expansion of the 5G-net). Available also in French and in electronic form also in English).
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workers from Québec and France", *American Journal of Epidemiology*, Vol. 140, No. 9, pp 805-820, 1994. DOI: 10.13140/2.1.3003.8724

### **36. Prof. Olle Johansson**

**Ex profesor de Neurociencia Básica y Aplicada, Instituto Karolinska, Estocolmo, Suecia**

#### Lista de las publicaciones más significativas:

- Gangi S, Johansson O, "Skin changes in "screen dermatitis" versus classical UV- and ionizing irradiation-related damage--similarities and differences. Two neuroscientists' speculative review", *Exp Dermatol* 1997; 6: 283-291
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- Johansson O, "Health effects of artificial electromagnetic fields: A wake-up call from a neuroscientist... But is anyone in power picking up? Hello...?", In: 2016 Environmental Sensitivities Symposium: TextBook (ed. L Curran), Building Vitality, Carlton North, 2016, pp 73-94, ISBN 13:978-1539094227
- Johansson O, "To understand adverse health effects of artificial electromagnetic fields... ...is "rocket science" needed or just common sense?", In: *Essays on Consciousness – Towards a New Paradigm* (ed. I. Fredriksson), Balboa Press, Bloomington, IN, USA, 2018, pp 1-38, ISBN 978-1-9822-0811-0
- Bandara P, Johansson O, "Comment on exposure to radiofrequency electromagnetic fields from Wi-Fi in Australian schools", *Radiat Prot Dosimetry* 2018; 178: 288-291
- Johansson O, "The Stockholm Declaration about "Life EMC"", *Bee Culture Magazine* 2022a; May issue: 56-61

### **37. Joel M. Moskowitz, Ph.D.**

**Director del Centro para la Salud Familiar y Comunitaria de la Facultad de Salud Pública de la Universidad de California, Berkeley**

#### Lista de las publicaciones más significativas:

- Choi,Y-J., Moskowitz, J.M., Myung, S.K., Lee, Y-R., Hong, Y-C. Cellular phone use and risk of tumors: Systematic review and meta-analysis. *International Journal of Environmental Research and Public Health*. 2020, 17(21), 8079. DOI: 10.3390/ijerph17218079
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- Pall, M.L., Bandara, P., Stein, Y., Sage, C., Soffritti, M., Davis, D., Moskowitz, J.M., Mortazavi, S.M.J., Herbert, M.R., Moshhammer, H., Ledoigt, G., Turner, R., Tweedale, A., Muñoz-Calero, P., Udasin, I., Koppel, T., Burgio, E., Vander Vorst, A. 2021. The critical importance of molecular biomarkers and imaging in the study of electrohypersensitivity. A scientific consensus international report. *International Journal of Molecular Sciences* 22, no. 14: 7321. DOI: 10.3390/ijms22147321.
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### **38. Linda S. Birnbaum, Ph.D., D.A.B.T., A.T.S.**

**Científico emérito y ex director del Instituto Nacional de Ciencias de la Salud Medioambiental y del Programa Nacional de Toxicología, becario residente, Nicholas School of the Environment, Universidad de Duke Carolina del Norte, EE.UU.**

#### Lista de las publicaciones más significativas:

- Birnbaum LS. NIEHS supports partnerships in environmental public health. *Prog Community Health Partnersh*. 2009 Fall;3(3):195-6. doi: 10.1353/cpr.0.0076. PMID: 20208218.
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### **39. Dr Susan Pockett**

**Licenciada en Biología Celular; Doctora en Neurofisiología, Universidad de Auckland, Nueva Zelanda.**

#### Lista de las publicaciones más significativas:

- Electrosmog: the health effects of microwave pollution <https://bit.ly/ElectrosmogPockett>  
*Stråletåka : Helse og miljøforurensningen fra mikrobølgerne* (Z-Forlag, Norge – Norwegian translation of *Electrosmog*); *lledaagse Stralings Overlast de gevolgen van elektrosmog voor de gezondheid*  
(Vissers – Dutch translation of *Electrosmog*)
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#### 40. Prof.<sup>a</sup> Magda Havas

**Prof.<sup>a</sup> Emérita, Escuela de Medio Ambiente, Universidad de Trent, Canadá.**

##### Lista de las publicaciones más significativas:

- Havas, M. and J. Marrongelle. 2021. Original Findings Confirmed in Replication Study: Provocation with 2.4 GHz Cordless Phone affects the Autonomic Nervous System (ANS) as measured by Heart Rate Variability (HRV). *Medical Research Archives* 9(11): 17 pages
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#### 41. David Gee,

**Profesor visitante, Centro de Investigación y Política de la Contaminación, Universidad de Brunel, Londres. Reino Unido**

##### Lista de las publicaciones más significativas:

- Statement on Mobile Phones and the Potential Head cancer risk for the EMF Hearing on EMF, Council of Europe, Paris, February 25th 2011. Professor Jacqueline McGlade, Director, European Environment Agency, and David Gee, Senior Adviser, Science, Policy and Emerging issues.

## 42. Paul Ben Ishai

**Profesor titular, Departamento de Física, Universidad Ariel, Israel**

### Lista de las publicaciones más significativas:

- Wireless technologies, non-ionizing electromagnetic fields and children: Identifying and reducing health risks, *Current problems in Pediatric and Adolescent Health Care*, 53(2) 101374 (2023).
- Problems in evaluating the health impacts of radio frequency radiation, *Environmental Research*, (2023) In Press, doi.org/10.1016/j.envres.2022.115038, (2023).
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## 43. Florian M. König

**Dipl.-Ing (FH), D.Sc. (US-Dr. 2004), Investigador y desarrollador independiente, Director de [http://www.fk-e.de/Impress\\_en.html](http://www.fk-e.de/Impress_en.html)**

### Lista de las publicaciones más significativas:

- Florian M. König<sup>1</sup>, Chistian B. König. Investigations in Meteorosensitivity- Human Statistics and Parallel Impact Tests by Emitted Atmospheric Weather-Related Electromagnetic Fields. *Japan Journal of Medicine* 2019; 2(4): 382 - 388 . doi: 10.31488/jjm.1000146
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## 44. Prof. Elihu D Richter MD MPH

**Medicina Laboral y Medioambiental, Escuela de Salud Pública y Medicina Comunitaria, Universidad Hebrea-Hadassah Jerusalén**

### Lista de las publicaciones más significativas:

- Peleg M, Nativ O, Richter ED. Radio frequency radiation-related cancer: assessing causation in the occupational/military setting. *Environ Res*. 2018;163:123–33.
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## 45. Ing. Michael Peleg

**Ingeniero de Sistemas y Comunicaciones, Msc, Instituto Tecnológico de Israel (Technion). Israel**

#### Lista de las publicaciones más significativas:

1. M. Peleg, E. M. Berry, M. Deitch, O. Nativ, E. Richter: On radar and radio exposure and cancer in the military setting, *Environmental Research*, Volume 216, Part 2, Jan 2023, 114610, ISSN 0013-9351, <https://doi.org/10.1016/j.envres.2022.114610>
2. Michael Peleg, Or Nativ, Elihu D. Richter: Radio frequency radiation related cancer: assessing causation in the occupational/military setting, *Environmental Research*, Volume 163, May 2018, Pages 123-133, ISSN 0013-9351, <https://doi.org/10.1016/j.envres.2018.01.003>.
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#### **46. Prof. Nasr Radwan**

**Profesor de Biología y Zoología, Facultad de Ciencias, Universidad de El Cairo, Egipto**

#### Lista de las publicaciones más significativas:

- Mohammed HS, Fahmy HM, Radwan NM, Elsayed AA. Non-thermal continuous and modulated electromagnetic radiation fields effects on sleep EEG of rats. *J Adv Res.* 2013 Mar;4(2):181-7. doi: 10.1016/j.jare.2012.05.005. Epub 2012 Jun 25. PMID: 25685416; PMCID: PMC4195462.
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#### **47. Prof. Lennart Hardell**

**MD, PhD, ex profesor de Oncología y Epidemiología del Cáncer, Departamento de Oncología, Hospital Universitario, Örebro, Suecia, The Environment and Cancer Research Foundation, Örebro, Suecia.**

#### Lista de las publicaciones más significativas:

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- Nilsson M, Hardell L. 5G Radiofrequency radiation caused the microwave syndrome in a family living close to the base stations. *J Cancer Sci Clin Ther.* 2023;7: 127-134

#### **48. Devra L. Davis, PhD, MPH**

**Miembro del Colegio Americano de Epidemiología, profesor visitante de la Facultad de Medicina de la Universidad Ondokuz Mayıs de Samsun (Turquía), editor asociado de *Frontiers in Radiation and Health*.**

##### Lista de las publicaciones más significativas:

- Belpomme D, Carlo GL, Irigaray P, Carpenter DO, Hardell L, Kundi M, Belyaev I, Havas M, Adlkofer F, Heuser G, Miller AB, Caccamo D, De Luca C, von Klitzing L, Pall ML, Bandara P, Stein Y, Sage C, Soffritti M, Davis D, Moskowitz JM, Mortazavi SMJ, Herbert MR, Moshammer H, Ledoigt G, Turner R, Tweedale A, Muñoz-Calero P, Udasin I, Koppel T, Burgio E, Vorst AV. *The Critical Importance of Molecular Biomarkers and Imaging in the Study of Electrohypersensitivity. A Scientific Consensus International Report.* *Int J Mol Sci.* 2021 Jul 7;22(14):7321. doi: 10.3390/ijms22147321.
- Davis D, Birnbaum L, Ben-Ishai P, Taylor H, Sears M, Butler T, Scarato T. Wireless technologies, non-ionizing electromagnetic fields and children: Identifying and reducing health risks. *Curr Probl Pediatr Adolesc Health Care.* 2023 Feb;53(2):101374. doi: 10.1016/j.cppeds.2023.101374. Epub 2023 Mar 17. PMID: 36935315.
- Miller AB, Sears ME, Morgan LL, Davis DL, Hardell L, Oremus M, Soskolne CL. Risks to Health and Well-Being From Radio-Frequency Radiation Emitted by Cell Phones and Other Wireless Devices. *Front Public Health.* 2019 Aug 13;7:223. doi: 10.3389/fpubh.2019.00223. PMID: 31457001; PMCID: PMC6701402.
- Yahyazadeh A, Deniz ÖG, Kaplan AA, Altun G, Yurt KK, Davis D. The genomic effects of cell phone exposure on the reproductive system. *Environ Res.* 2018 Nov;167:684-693. doi: 10.1016/j.envres.2018.05.017. Epub 2018 Jun 5. PMID: 29884549.

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- Deniz OG, Kaplan S, Selçuk MB, Terzi M, Altun G, Yurt KK, Aslan K, Davis D. Effects of short and long term electromagnetic fields exposure on the human hippocampus. *J Microsc Ultrastruct.* 2017 Oct-Dec;5(4):191-197. doi: 10.1016/j.jmau.2017.07.001. Epub 2017 Jul 13. PMID: 30023254; PMCID: PMC6025790.
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- Fernández C, de Salles AA, Sears ME, Morris RD, Davis DL. Absorption of wireless radiation in the child versus adult brain and eye from cell phone conversation or virtual reality. *Environ Res.* 2018 Nov;167:694-699. doi: 10.1016/j.envres.2018.05.013. Epub 2018 Jun 5. PMID: 29884550.
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- Davis D, Birnbaum L, Ben-Ishai P, Taylor H, Sears M, Butler T, Scarato T. Wireless technologies, non-ionizing electromagnetic fields and children: Identifying and reducing health risks. *Curr Probl Pediatr Adolesc Health Care.* 2023 Feb;53(2):101374. doi: 10.1016/j.cppeds.2023.101374. Epub 2023 Mar 17. PMID: 36935315.

#### **49. Dr. Alkiviadis-Constantinos Cefalas**

**Físico, Interacción de la radiación con la materia, Biofísico. Fundación Nacional Helénica de Investigación, Atenas, Grecia.**

##### Lista de las publicaciones más significativas:

- Physical Differences between Man-Made and Cosmic Microwave Electromagnetic Radiation and Their Exposure Limits, and Radiofrequencies as Generators of Biotoxic Free Radicals. *Radiation*, 2, 4, 285–302 (2022).
- Dynamics and Physics of Integrin Activation in Tumor Cells by Nano-Sized Extracellular Ligands and Electromagnetic Fields."The Integrin Interactome." Editors: VicenteManzanares, Miguel (Ed.), Springer Science+Business Media, LLC, part of Springer Nature, pp.199-233, (2021).
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## **50. Dr. Evangelia Sarantopoulou**

**Físico, Interacción de la radiación con la materia, Biofísico. Fundación Nacional Helénica de Investigación, Atenas, Grecia**

### Lista de las publicaciones más significativas:

- Physical Differences between Man-Made and Cosmic Microwave Electromagnetic Radiation and Their Exposure Limits, and Radiofrequencies as Generators of Biotoxic Free Radicals. Radiation, 2, 4, 285–302 (2022).
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## **51. Hanns Moshhammer**

**Doz. Dr., Salud Medioambiental, Universidad Médica de Viena, ZPH, Departamento de Salud Medioambiental**

#### Lista de las publicaciones más significativas:

- Belyaev I, Dean A, Eger H, Hubmann G, Jandrisovits R, Johansson O, Kern M, Kundi M, Lercher P, Mosgöller W, Moshhammer H, Müller K, Oberfeld G, Ohnsorge P, Pelzmann P, Scheingraber C, Thill R. EUROPAEM EMF Guideline 2016 for the prevention, diagnosis and treatment of EMF-related health problems and illnesses. *Reviews on Environmental Health* 2016 31 (3), 363-397
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## 52. SM Javad Mortazavi

### Profesor de Física Médica, Director Fundador del Centro de Investigación sobre Protección contra Radiaciones Ionizantes y No Ionizantes, Universidad de Ciencias Médicas de Teherán, Irán

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### 53. Marjukka Hagström

**LL.M., M.Soc.Sc. Investigador principal, Fundación Finlandesa de Electro sensibilidad, Finlandia**

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### 54. Andre Vander Vorst

**Profesor Microondas, Profesor emérito Universidad Católica de Lovaina, Bélgica**

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## 55. Jean Monro

**Naturópata medioambiental, MBBS, LRCP, MRCS, FAAEM, DIBEM, MRSB, mANP, mGNC; nº de registro GNC: 5761. Reino Unido.**

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## 56. Vassilios Gavriil

**Ingeniero Eléctrico e Informático, Ph.D., Instituto de Química Teórica y Física / Fundación Nacional Helénica de Investigación, Grecia**

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## 57. Fausto Bersani Greggio

**Fisico matematico, Istituto Alessandro Volta, Riccione, Italia**

Lista de las publicaciones más significativas:

- Bersani G. F., Grianti F., Gambarara A., Bernabè C., Polverelli I., "Estimate of the average electric field produced by a mobile telephone inside human skull" – *Medical Hypotheses* (Volume 64 - 2005).
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## 58. Mona Nilsson

**Directora, Fundación Sueca de Protección Radiológica, Suecia**

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## 59. Paolo Renati

**Físico de Sistemas Complejos, Electrodinámica cuántica del agua y la materia viva, Academia Mundial del Agua, Países Bajos**

Lista de las publicaciones más significativas:

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## 60. Alfonso Balmori

### Biólogo, investigador independiente. España

Lista de las publicaciones más significativas:

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## **61. Einar Flydal**

**Cand. Polit. & Master of Telecom Strategy & Management, Telenor ASA & Norwegian University of Science and Technology (jubilado), Noruega**

Lista de las publicaciones más significativas:

- Nordhagen EK, Flydal E. Self-referencing authorships behind the ICNIRP 2020 radiation protection guidelines. paper, *Rev Environ Health*. 2022 Jun 27. doi: 10.1515/reveh-20220037.

## **62. Jerry L. Phillips, Ph.D**

**Director Ejecutivo y Profesor, Universidad de Colorado, Colorado Springs, EE.UU.**

Lista de las publicaciones más significativas:

- J.L. Phillips, L. Rutledge, and W.D. Winters. Transferrin Binding to Two Human Colon Carcinoma Cell Lines: Characterization and Effect of 60 Hz Electromagnetic Fields. *Cancer Res.*, 46:239-244, 1986.
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### **63. Yael Stein**

**MD (Medicina, Anestesiología), MPH (Salud Pública), ex adscrita a la Universidad Hebrea, Centro Médico Hadassah, investigadora independiente. Israel**

Lista de las publicaciones más significativas:

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- Stein Y, Levy-Nativ O, Richter ED. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. *Eur J Oncol*, 2011; 16(1):21-54

### **64. Dr. Ruggero Ridolfi**

**Médico especialista en Oncología y Endocrinología, miembro del Comité Científico ISDE- Italia**

Lista de las publicaciones más significativas en la materia:

- Ruggero Ridolfi "Progetto Ambiente e Tumori" Ed. AIOM-Italia 2011 <http://www.aiom.it/Attivit%E0+Scientifica/Documenti+AIOM/Position+paper/Progetto+Ambiente+e+Tumori/1,5352,1>
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## 65. Michael Bevington

### Presidente de la organización, Electrosensitivity UK

Lista de las publicaciones más significativas en la materia:

- Bevington M, 'Proof of EHS beyond all reasonable doubt'. Comment on: Leszczynski D. Review of the scientific evidence on the individual sensitivity to electromagnetic fields (EHS). Rev Environ Health 2021; Rev Environ Health. 2022; 37(2): 299-301. doi: 10.1515/reveh-2021-0038. PMID: 34343421.
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## 66. Maria Grazia Petronio

### Médico especialista en Higiene y Medicina Preventiva, Epidemiología y Salud Pública, Nefrología, ISDE Italia

Lista de las publicaciones más significativas en la materia:

- M.G.Petronio et al. Campi elettromagnetici (CEM) a 50Hz generati da elettrodotti: l'attività di prevenzione tra principio di precauzione e nuove disposizioni normative. In ATTI DEL 29° CONVEGNO ANNUALE DI EPIDEMIOLOGIA, 7-9 sett., Pisa, 2005.
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## **67. Dr. Valerio Gennaro**

### **Medico Epidemiólogo, Génova**

Lista de las publicaciones más significativas en la materia:

- Levis A, Grasso G, Palmisano S, Consigliere F, Gennaro V. A proposito dell'articolo su Med Lav 2011; 102: 144-162 di S. Lagorio e P. Vecchia. Telefoni mobili e tumori alla testa: la sentenza della Corte d'Appello di Brescia--Sezione Lavoro--alla luce delle attuali conoscenze scientifiche e della legislazione in materia. Med Lav. 2012 Jul-Aug;103(4):30913; author reply 313. Italian. PMID: 22880492.
- Levis AG, Minicucci N, Ricci P, Gennaro V, Garbisa S. Telefoni mobili e tumori alla testa: è tempo che i dati vengano letti e valorizzati correttamente [Mobile phones and head tumours: it is time to read and highlight data in a proper way]. Epidemiol Prev. 2011 MayAug;35(3-4):188-99. Italian. PMID: 21914915.
- Levis AG, Minicuci N, Ricci P, Gennaro V, Garbisa S. Mobile phones and head tumours. The discrepancies in cause-effect relationships in the epidemiological studies - how do they arise? Environ Health. 2011 Jun 17;10:59. doi: 10.1186/1476-069X-10-59. PMID: 21679472; PMCID: PMC3146917.

## **68. Cindy Lee Russell**

### **Doctor en Cirugía Plástica, ex Presidente de la Asociación Médica del Condado de Santa Clara, Director Ejecutivo de Physicians for Safe Technology, EE.UU.**

Lista de las publicaciones más significativas en la materia:

- 5G wireless telecommunications expansion: Public health and environmental implications. Environ Res. 2018 Aug;165:484-495.
- Building science and radiofrequency Radiation: What makes smart and healthy buildings. Frank M. Clegg, Margaret Sears, Margaret Friesen, Theodora Scarato, Rob Metzinger, Cindy Lee Russell, Alex Stadtner, Anthony B. Miller. Building and Environment. Vol 176, June 2020.

## **69. Camilla Rees, MBA**

### **National Institute for Science, Law and Public Policy, Washington, D.C., USA**

Lista de las publicaciones más significativas en la materia:

- Havas M, Marrongelle J, Pollner B, Kelley E, Rees C, Tully L. Provocation study using heart rate variability shows microwave radiation from 2.4 GHz cordless phone affects autonomic nervous system. January 2010. European Journal of Oncology 5.

## **70. Dra. Margaret Friesen**

**Licenciada en Entomología, antigua bióloga investigadora del Gobierno de Canadá (jubilada).**

Lista de las publicaciones más significativas en la materia:

- Clegg, F. M., Sears, M., Friesen, M., Scarato, T., Metzinger, R., Russell, C., Stadner, A. & Miller, A. B. (2020). Building science and radiofrequency radiation: What makes smart and healthy buildings. *Building and Environment*, 176, 106324.
- Friesen, M., & Havas, M. (2020). Effects of Non-ionizing Electromagnetic Pollution on Invertebrates, Including Pollinators such as Honey Bees: What We Know, What We don't Know, and What We Need to Know. In Working Landscapes. Proceedings of the 12th Prairie Conservation and Endangered Species Conference, Danyluk (ed.). February 2019, Winnipeg, Manitoba..203 pages. (pp. 127–138). Critical Wildlife Habitat Program, Winnipeg, Manitoba.

## **71. Joaquim Fernandez- Solá M.D. Ph.D.**

**Consultor Senior en Medicina Interna Hospital Clinic Barcelona, Catedrático de Medicina Interna. Universidad de Barcelona, Jefe de la Unidad de Sensibilidad Central. Hospital Clinic Barcelona España, Miembro del Comité de Expertos en Sensibilidad Central. Generalitat de Catalunya, España**

Lista de las publicaciones más significativas en la materia:

- Fernández –Solà J, Rodríguez JM, Cederholm T, Torrents A..¿Cómo afecta la tecnología a la salud? La Vanguardia. Monografías especiales de Salud. 29/04/2014:Pag 12.
- -Gonzalez-Moreno P, Fernández-Sola J, Maestu C. Sensibilidad electromagnética: tan desconocida como incapacitante. Agencia EFE-Salud. 16-10-2017:1-9.  
Fernández-Solà J, Central Sensitization: a pathogenic mechanism in complex undefined diseases. *Neurophysiology (London)* 2019; 9(6):2485-2490.
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## 72. Ceferino Maestú

**Doctor en Medicina, PHD, Director del Laboratorio de Bioelectromagnetismo del Centro de Tecnología Biomédica de la Universidad Politécnica de Madrid, España**

Lista de las publicaciones más significativas en la materia:

- Ceferino Maestu response to the comments On What is the radiation before 5G? a correlation study between measurements in situ in real time and epidemiological indicators in vallecas madrid. *Environ Res*. 112193 - 112193, pp. 320 - 326. 10/2022. ISSN 0013-9351 60(3), pp. 23 - 28. 07/2022. ISSN 0034-6233 .
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  - olga garcia-minguillan; raquel prous; ceferino maestu; maria del carmen ramirez-castillejo. CT2A Cell Viability Modulated by Electromagnetic Fields at Extremely Low Frequency under No Thermal Effects. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 21 - 1, pp. 0 - 13. 2020.
  - Olga García-Minguillán López; Ana Jiménez Valbuena; Ceferino Maestu Unturbe. Significant Cellular Viability Dependence on Time Exposition at ELF-EMF and RF-EMF In Vitro Studies. International Journal of Environmental Research And Public Health. 16(12) - null, pp. 2085 - En total 8. 06/2019. ISSN 1661-7827
  - Olga García-Minguillán López; Ana Jiménez Valbuena; Ceferino Maestu Unturbe. Significant Cellular Viability Dependence on Time Exposition at ELF-EMF and RF-EMF In Vitro Studies. International Journal of Environmental Research And Public Health. 16(12) - null, pp. 2085 - En total 8. 06/2019. ISSN 1661-782

### 73. Guido Luzi

#### Físico Investigador en el campo de la Teledetección y sensores de microondas, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), España

Lista de las publicaciones más significativas en la materia:

- Dei D, Grazzini G., Luzi G., Pieraccini M., Atzeni C., Boncinelli S., Camiciottoli G., Castellani W., Marsili M., Lo Dico J.; " Non-Contact Detection of Breathing Using a Microwave Sensor", Sensors 2009, 9, 2574-2585.
- Pieraccini M., G. Luzi, D. Dei, L. Pieri, Carlo Atzeni, "Detection of breathing and heartbeat through snow using a microwave transceiver", Geoscience and Remote Sensing Letters, January 2008, Vol. 5, No 1 pp. 57-59.

## **También están suscritos los siguientes biólogos, físicos, ingenieros y médicos**

### **1. Carol Taccetta, MD, FCAP**

FCAP (Miembro del Colegio de Patólogos Americanos), USA

### **2. Prof. Stefano Isola**

Catedrático de Física Matemática. Universidad de Camerino, Italia

### **3. Prof. Giuseppe Pellicane**

Profesor Asociado, Especializado en Física Teórica de la Materia, Departamento de Ciencias Biomédicas (BIOMORF), Universidad de Messina, Italia, y Profesor Asociado (Honorario), Facultad de Química y Física, UKZN, Pietermaritzburg, Sudáfrica.

### **4. Dr. Stefano Gallozzi**

Investigador y tecnólogo del Instituto Nacional Italiano de Astrofísica (INAF), Observatorio Astronómico de Roma.

### **5. Dra. Elisa V. Ruello**

Investigadora, Departamento de Ciencias Biomédicas, Odontológicas y de la Imagen Morfológica y Funcional (BIOMORF), Universidad de Messina, Italia

### **6. Dr. Panagis Polykretis**

Biólogo y Doctor en Biología Estructural, Comisión Médica Científica Independiente, Fondazione Allineare Sanità e Salute, Italia

### **7. Dr. Mario Frusi**

Médico especialista en Fitoterapia, Homeopatía, Homotoxicología  
ISDE- International Society of Doctors for the Environment, Sanremo (IM), Italia

### **8. Dra. Anna Zuccherò**

Médica especializada en Medicina Interna, Geriátría y Gerontología, Medicina del Trabajo, Máster en medicina clínica medioambiental francesa, Máster en medicina clínica medioambiental alemana, anteriormente Directora Médica Departamento de Medicina Nivel I Hospital dell'Angelo AULSS3

### **9. Dr. Giuseppe Miserotti**

Médico generalista (jubilado), Piacenza, ISDE, Italia

**10. Dra. Patrizia Gentilini**

Médica, especializada en Oncología y Hematología General  
Comité Científico Fondazione Allineare Sanità e Salute, coautora del Informe Independiente sobre 5G de los Consumidores Europeos.

**11. Dra. Annunziata Patrizia Difonte**

Especialista en Medicina del Trabajo, Experta en Enfermedades Medioambientales, Ferno (Varese).

**12. Prof. Aurelio Angelini**

Decano de la Facultad de Ciencias Sociales, Universidad de Enna 'Kore'

**13. Dr. Ronald M. Powell, Ph.D.**

Física Aplicada, Científico de carrera jubilado del Gobierno de EE.UU, National Science Foundation (NSF) y National Institute of Standards and Technology (NIST), Montgomery Village, MD, EE.UU.

**14. Paolo Cardigno**

Médico especialista en Higiene y Medicina Preventiva, Parma

**15. Gianpaolo Guzzi**

Médico odontólogo, A.I.R.M.E.B., Milán, Italia

**16. Manuela Passoni**

Médico odontólogo, A.I.R.M.E.B., Milán, Italia

**17. Antonio Maria Pasciuto**

Medicina Interna, ASSIMAS, Roma, Italia

**18. Anna Guzzardo**

Medicoade Medicina General, Palermo, Italia

**19. Roberto Gava**

Médico especialista en Cardiología, Farmacología, Toxicología, Padua, Italia

**20. Mar Rodríguez Gimena**

Médica generalista, Médica especialista en Medicina Familiar y Comunitaria, Servicio Madrileño de Salud, Madrid, España.

**21. Davide Caforio**

Físico, Afiliación: Il Physikalisches Institut - Justus-Liebig-Universität Giessen. Ciudad Giessen (Hesse). Alemania.

## 22. Adam Patrick

Ingeniero

### Ver también cartas del ámbito científico/experto en la misma línea de este llamamiento científico:

- 2023: CARTA DEL MOVIMIENTO CIUDADANO "RETE 6 V/M":

**¡No hay ninguna razón para elevar el valor de exposición de los campos electromagnéticos generados por las altas frecuencias salvo la economía por parte de los operadores de telecomunicaciones que quieren ahorrar en costes de infraestructura después de comprar licencias para 5G!**

Ver carta en <https://vogliamolimiticautelativi.it/nasce-la-rete-6-v-m/> y en <https://ilmanifesto.it/lettere/rete-6-v-m>

Ver apoyos en <https://vogliamolimiticautelativi.it/le-adesioni-rete-6-v-m/>.

Entre los apoyos, además de la sociedad civil, se encuentran personas del ámbito científico y experto como las siguientes, entre otras:

- **Fiorella Belpoggi**, Directora Científica Emérita del Instituto Ramazzini, Comité Científico de ISDE Médicos para el Medio Ambiente, Comité de Ética Científica de Europa Verde, Consejo Ejecutivo del Collegium Ramazzini
- Prof. **Giuseppe Mastruzzo**, Director del Colegio Universitario Internacional de Turín
- **Sergio Ulgiati**, Presidente del Comitato Etico e Scientifico di Europa Verde
- **Patrizia Gentilini**, Comitato Scientifico Fondazione Allineare Sanità e Salute
- **Ugo Mattei**, Distinguished Professor of Law and Alfred and Hanna Fromm Chair in International and Comparative Law – UC Hastings College of the Law – Professor of Civil Law – University of Turin
- **Linda Birnbaum**, Retired Director National Institute Environmental Health Sciences and National Toxicology Program, USA. Fellow Collegium Ramazzini
- **David Gee**, Visiting Fellow, Centre for Pollution Research and Policy, Brunel University, London, and Fellow of the Collegium Ramazzini
- **Devra Davis** PhD, MPH, President, Environmental Health Trust, USA, Fellow Collegium Ramazzini
- **Dr.ssa Anna Zuccherò**, Medico Internista già dirigente ospedaliero Mestre Venezia, Specialista in Medicina del Lavoro, Esperta in ipersensibilità a campi elettromagnetici(EHS) e a sostanze chimiche (MCS)

- **Dott.ssa Annunziata Patrizia Difonte**, especialista en medicina del trabajo y experta en enfermedades ambientales

- 9 de enero de 2024: **CARTA DE LA ASSOCIAZIONE ITALIANA MEDICI PER L'AMBIENTE (ISDE): "El Parlamento [italiano] aumenta los límites de exposición a los CEM: un favor a las operadoras de telefonía extranjeras y contra la salud pública"**

La principal asociación médica italiana que se ocupan de la correlación entre los factores medioambientales y la salud humana, expresa su preocupación por la aprobación del artículo 10 de la Ley de la Competencia, que prevé el aumento de la exposición a los campos electromagnéticos de radiofrecuencia (CEMRF) de 6 a 15 V/m (volta/metro).

<https://www.isdenews.it/il-parlamento-aumenta-i-limiti-di-esposizione-ai-campi-elettromagnetici-un-favore-agli-operatori-telefonici-stranieri-e-contro-la-salute-pubblica/>

- 13 de marzo de 2024: **CARTA DE LA COMISIÓN INTERNACIONAL SOBRE LOS EFECTOS BIOLÓGICOS DE LOS CAMPOS ELECTROMAGNÉTICOS (ICBE-EMF)** - compuesta por miembros de la comunidad científica en la investigación de los CEM, sin conflictos por intereses con el lobby industrial de las multinacionales. Carta al Gobierno de Meloni y a la administración pública italiana criticando la nueva ley aprobada por el Parlamento el 30 de diciembre de 2023: **"Apoyo al llamamiento de la Red 6x6 (6 V/m en 6') contra la nueva ley italiana que aumenta los límites de exposición a las radiofrecuencias (CEMRF)":**

[https://oasisana.files.wordpress.com/2024/03/icbe-emf-letter-to-italian-officials.13marzo2024.en-italiano\\_encrypted\\_.pdf](https://oasisana.files.wordpress.com/2024/03/icbe-emf-letter-to-italian-officials.13marzo2024.en-italiano_encrypted_.pdf)