

## FOR IMMEDIATE RELEASE

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### **ICBE-EMF Submits: Wireless Technology Not Adequately Assessed for Hazards to Human Health and Environment**

*New peer-reviewed paper  
presents scientific case for revision of limits*

**TUCSON, AZ – October 17, 2022 – The International Commission on the Biological Effects of Electromagnetic Fields (ICBE-EMF)** is challenging the safety of current wireless exposure limits to radiofrequency radiation (RFR) and is calling for an independent evaluation.

Published today in the journal *Environmental Health*, “[Scientific evidence invalidates health assumptions underlying the FCC and ICNIRP exposure limit determinations for radiofrequency radiation: implications for 5G](#),” demonstrates how the U.S. Federal Communications Commission (FCC) and the International Commission on Nonionizing Radiation Protection (ICNIRP) have ignored hundreds of scientific studies documenting adverse health effects at exposures below the threshold dose claimed by these agencies, which was used to establish human exposure limits. The authors argue that the threshold, based on science from the 1980s – before cell phones were ubiquitous – is wrong, and these exposure limits based on this threshold do not adequately protect workers, children, people with electromagnetic hypersensitivity, and the public from exposure to the nonionizing radiation from wireless data transmission.

“Many studies have demonstrated oxidative effects associated with exposure to low-intensity RFR, and significant adverse effects including cardiomyopathy, carcinogenicity, DNA damage, neurological disorders, increased permeability of the blood-brain barrier, and sperm damage,” explains **Dr. Ronald Melnick**, Commission chair and a former senior toxicologist with the U.S. National Toxicology Program at the National Institute of Environmental Health Sciences. “These effects need to be addressed in revised and health-protective exposure guidelines. Furthermore, the assumption that 5G millimeter waves are safe because of limited penetration into the body does not dismiss the need for health effects studies.”

**Dr. Lennart Hardell**, former professor at Örebro University Hospital in Sweden and author of more than 100 papers on non-ionizing radiation, added, “Multiple robust human studies of cell phone radiation have found increased risks for brain tumors, and these are supported by clear evidence of carcinogenicity of the same cell types found in animal studies.”

The Commission believes that an independent evaluation based on the scientific evidence with attention to the knowledge gained over the past 25 years is needed to establish lower exposure limits. The Commission is also calling for health studies to be completed prior to any future deployment of 5G networks.

**Elizabeth Kelley**, the Commission's managing director, noted that “ICBE-EMF was commissioned by the advisors to the [International EMF Scientist Appeal](#), a petition signed by more than 240 scientists who have published over 2,000 papers on EMF, biology, and health,” and that “The commissioners have endorsed the Appeal’s recommendations to protect public and environmental health.”

For background on the paper and its co-authors, see: <http://www.icbe-emf.org/activities/>.

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