



Below is a summary of the research on wireless radiation that I find most helpful when working with people, especially with schools.

RESOURCES:

The Bioinitiative Report

A 1500 page report authored by an international panel of scientists and physicians and edited by Cindy Sage and David O. Carpenter analyzes 5000+ peer reviewed studies and concludes that there needs to be biologically-based exposure standards for low-intensity electromagnetic radiation, especially for children. Published in 2007 and updated with an additional 1800 studies in 2012. The 19 page Summary for the Public provides an excellent overview of the information.

National Toxicology Program

The first US government funded study. A 10 year, \$25 million dollar study that released its findings in 2018: "Clear Evidence of Cancer" concludes National Toxicology Program Expert Panel on Cell Phone Radiation. Scientific panel advises there is evidence for an association between both heart and brain cancers and cell phone radiation in large-scale animal study.

WHO

In 2011, the World Health Organization International Agency for Research on Cancer (WHO IARC) classified radio frequency radiation (RFR) as a Possible Human Carcinogen Class 2B, based on an increased risk for glioma, a malignant brain cancer associated with mobile phone use.

International EMF Scientist Appeal

A petition signed by 224 scientists from 41 nations who have published peer-reviewed research on biological or health effects of non-ionizing radiation, including ELF and RFR. The petition is an appeal to the United Nations (UN) to encourage the World Health Organization (WHO) to create protective EMF guidelines, encouraging precautionary measures, and educating the public about health risks, particularly risk to children and fetal development (attached).

The American Academy of Pediatrics

The American Academy of Pediatrics recommends that parents should limit the use of cell phones and other wireless devices by children and teens. "Children are not little adults and are disproportionately impacted by all environmental exposures, including cell phone radiation. Current FCC standards do not account for the unique vulnerability and use patterns specific to pregnant women and children. It is essential that any new standard for cell phones or other wireless devices be based on protecting the youngest and most vulnerable populations to ensure they are safeguarded throughout their lifetimes."

Martin L. Pall, PhD's letter to the Palo Alto Unified School Board in Palo Alto, CA

The [letter](#) outlines why renewing the school district's wireless infrastructure should be reconsidered due to health and safety concerns for students and staff from wireless exposures. Attachment A provides an excellent overview of the debate on wireless safety, and cites research on the health risks. Attachment B is a list of 114 scientific reviews documenting the non-thermal effects of radio frequency radiation (wireless radiation). The list gives some measure of the size of the literature that contradicts the industry contention that there are no non-thermal effects of chronic, low level exposure to radio frequency radiation.

Harvard Pediatric Neurologist Dr. Martha Herbert

Dr. Herbert [recommends](#) Los Angeles Unified School District adopt wired instead of wireless internet based on her research linking autism to EMF exposure.

SHORT VIDEOS:

MARTIN BLANK - PhD of Columbia University Special Lecturer and retired Associate Professor at Columbia University in the Department of Physiology and Cellular Biophysics and former president of the Bioelectromagnetics Society. He [explains](#) that electromagnetic fields (EMF) damage your cells and DNA by inducing a cellular stress response.

SENATOR COLBECK - Aerospace Engineer who designed systems for the International Space Station speaking on the house floor about the dangers of wireless radiation, including in schools. The [video](#) is only 5 minutes long.

FRANK CLEGG - Former President of Microsoft in Canada. A 10 minute [video](#) of him discussing the harms of wireless radiation, especially for children.

MARTIN PALL P.H.D. - researcher and Professor Emeritus of Biochemistry and Basic Medical Sciences at WSU [explains](#) the previously unknown mechanism of biological harm from microwaves emitted by cellphones and other wireless technologies.

"Research by Martin Pall, Ph.D., helps explain why these technologies can have such a potent impact on your mental health. Embedded in your cell membranes are voltage gated calcium channels (VGCCs), which are activated by microwaves. When that happens, about 1 million calcium ions per second are released, which triggers a biochemical cascade that results in mitochondrial dysfunction. Your brain, along with the pacemaker in your heart, has the highest density of VGCCs of the organs in your body, which is why Alzheimer's, autism, anxiety, depression appears to be strongly linked to excessive microwave exposure."