

BOARD OF SUPERVISORS MEETING
April 9, 2019

“For all items *NOT* on the agenda”

(Each Speaker Limited to 3 Minutes)

Voluntary Sign-In Sheet

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International Appeal: Stop 5G on Earth and in Space

Harmful effects of radio frequency radiation are already proven

Even before 5G was proposed, [dozens of petitions and appeals](#)⁷ by international scientists, including the [Freiburger Appeal](#) signed by over 3,000 physicians, called for a halt to the expansion of wireless technology and a moratorium on new base stations.⁸

In 2015, [215 scientists from 41 countries](#) communicated their alarm to the United Nations (UN) and World Health Organization (WHO).⁹ They stated that “numerous recent scientific publications have shown that EMF [electromagnetic fields] affects living organisms at levels well below most international and national guidelines”. More than 10,000 peer-reviewed scientific studies demonstrate harm to human health from RF radiation.^{10,11} Effects include:

- [Alteration of heart rhythm](#)¹²
- [Altered gene expression](#)¹³
- [Altered metabolism](#)¹⁴
- [Altered stem cell development](#)¹⁵
- [Cancers](#)¹⁶
- [Cardiovascular disease](#)¹⁷
- [Cognitive impairment](#)¹⁸
- [DNA damage](#)¹⁹
- [Impacts on general well-being](#)²⁰
- [Increased free radicals](#)²¹
- [Learning and memory deficits](#)²²
- [Impaired sperm function and quality](#)²³
- [Miscarriage](#)²⁴
- [Neurological damage](#)²⁵
- [Obesity and diabetes](#)²⁶
- [Oxidative stress](#)²⁷

Effects in children include [autism](#),²⁸ [attention deficit hyperactivity disorder \(ADHD\)](#)^{29,30} and [asthma](#).³¹

Damage goes well beyond the human race, as there is abundant evidence of harm to diverse plant- and [wildlife](#)^{32,33} and laboratory animals, including:

- [Ants](#)³⁴
- [Birds](#)^{35,36}
- [Forests](#)³⁷
- [Frogs](#)³⁸
- [Fruit flies](#)³⁹
- [Honey bees](#)⁴⁰
- [Insects](#)⁴¹
- [Mammals](#)⁴²
- [Mice](#)^{43,44}
- [Plants](#)⁴⁵
- [Rats](#)⁴⁶
- [Trees](#)⁴⁷

Negative [microbiological](#) effects⁴⁸ have also been recorded.

The WHO’s International Agency for Research on Cancer (IARC) concluded in 2011 that RF radiation of frequencies 30 kHz - 300 GHz are possibly [carcinogenic to humans \(Group 2B\)](#).⁴⁹ However, recent evidence, including the latest studies on cell phone use and brain cancer risks, indicate that [RF radiation is proven carcinogenic to humans](#)⁵⁰ and should now be classified as a “Group 1 carcinogen” along with tobacco smoke and asbestos.

Most contemporary wireless signals are pulse-modulated. Harm is caused by both the high-frequency carrier wave and the low-frequency pulsations.⁵¹