

Published Scientific Research on 5G, Small Cells and Health

Published peer reviewed science already indicates that the current wireless technologies of 2G, 3G and 4G – in use today with our cell phones, computers and wearable tech – creates (create) radiofrequency exposures which poses (pose) a serious health risk to humans, animals and the environment. Scientists are cautioning that before rolling out 5G, research on human health effects urgently needs to be done first to ensure the public and environment are protected.

Researchers with the renowned Ramazzini Institute (RI) in Italy performed a large-scale lifetime [study](#) of lab animals exposed to environmental levels (comparable to allowable limits from cell towers) of RFR radiation and found the rats developed increased cancers- schwannoma of the heart in male rats. This study confirms the \$25 million [US National Toxicology Program](#) study which used much higher levels of cell phone radiofrequency (RF) radiation, but also reported finding the same unusual cancers as the Ramazzini- schwannoma of the heart in male rats.

5G will utilize not only the frequencies currently in use, but also higher millimeter wave and sub-millimeter wave frequencies. Small cells being installed in cities are usually 4G technology with a wide variety of frequencies. Thus, when we consider the health impacts of 5G and small cells we are looking at research on current technologies and frequencies in use in addition to research on sub-millimeter and millimeter waves. The 5G standard is new there are no studies that have looked at long term human exposure to 5G. However the current body of research finding effects from current wireless technology provides enough data for scientists to call for a moratorium.

This page lists important research on 5G, millimeter waves, cellular antennas, the environment and human health.

- [Learn more about 5G on EHT's database of resources here.](#)
- [Click here for EHT's list of Scientists letters on Health Impacts of 5G](#)
- [Click here to read research in cell tower radiation linked to health effects](#)
- [Click here to get the EHT factsheet on 5G](#)
- Dr. Martin Pal, ["5G: Great risk for EU, U.S. and International Health! Compelling Evidence for Eight Distinct Types of Great Harm Caused by Electromagnetic Field\(EMF\) Exposures and the Mechanism that Causes Them"](#)
- [Published article on the EMF Scientist Appeal in the European Journal of Oncology.](#)