

## **EMF and the MICROBIOME**

In 2010, researchers discovered the 'microbiome', a new organ - the 'third brain' - that had gone undetected for nearly 3000 years in human anatomy. The microbiome is our body's operating system, a collection of microbial communities that has evolved along with us that live inside us and form part of us - trillions of bacteria, fungi, viruses and other microbes. We have microbes in our brain, our gut and on our skin and the microbes in our brain are just as important as neurons and glial cells.

The microbiome is the non-human genome that is part of our greater genome containing all the information required to live long, healthy lives. We are a complex eco-system made by cells and there is a constant exchange of information between our cells and the cells of the microbiota. Roughly 10% of these cells are human and have their genetic information encoded in human DNA. The remaining 90% is constituted by microbial cells, and their information is encoded in microbial DNA.

The primary component of the universe is Pure Information which supports life. EMF from our electrical, electronic and wireless devices is human-made signals with foreign information which the cells perceive as an attack on them. Today, managing the balance between beneficial bacteria and potentially pathogenic bacteria is a daily challenge with recent research indicating that much like humans, bacteria are also affected by EMF.

**The Microbiome is Everything**

Dr Marco Ruggiero

**EMF is killing many of us  
prematurely and is making many very sick**

**EMF PROTECTION PROJECT**

# **EMF and the MICROBIOME**

A leading area of research is studying the effects of EMF exposure in increasing the growth rate of pathogens and decreasing the viability of known probiotics. EMF exposure effects on microbiota and microbiome have shown:

- inhibition of bacterial growth (53GHz)
- enhancement of bacterial sensitivity to antibiotics (53 GHz)
- inhibition of growth and viability of bacteria (70 GHz)
- effects on metabolic pathways in bacteria (53 GHz)
- co-effects of mm-Waves and UVC (enhanced survival)
- co-effects with X-rays (repair of the damage)
- effects on structure of bacterial genome<sup>1</sup>

Already approved bands of frequencies for 5G are around 24 GHz, 28 GHz, 38 GHz, 39 GHz, and 48 GHz for use in 5G stations, with 32 GHz, 42 GHz, 50 GHz, 71-76 GHz, 81-86 GHz and above 95 GHz being proposed.

Human DNA resonates at 54 to 78 GHz. The frequency of oxygen molecule absorption is 60 GHz which could impair our oxygen absorption rate in our body and thereby the whole basis of our living system.

**"5G ... is going to eviscerate microbial DNA inside human beings  
which is our effective operating system..."**

Sacha Stone 5G Apocalypse The Extinction Event

1. Dariusz Leszczynski. PhD DSC. Powerpoint 5G MILLIMETER-WAVES HEALTH & ENVIRONMENT  
<https://betweenrockandhardplace.files.wordpress.com/2018/05/leszczynski-emerg-at-arpansa-may-8-2018.pdf>

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