



## The World Foundation for Natural Science

The New World Franciscan Scientific Endeavour of The New World Church

Restoring and Healing the World through Responsibility and Commitment in accord with Natural and Divine Law!

FACT SHEET

# 5G and Corona

MAY 2020

## How the fifth generation wireless standard 5G contributes to the corona pandemic

Almost simultaneously with the worldwide introduction of 5G, the new corona virus has spread to become a global pandemic. A coincidence? No, everything obeys the natural law of cause and effect. Therefore, it is worthwhile to take a closer look at these two “modern evils”.

### Health effects of microwave radiation

“Various studies suggest that 5G would affect the health of humans, plants, animals, insects and microbes—and as 5G is an untested technology, a cautious approach would be prudent.” This was the conclusion of a briefing by the European Parliamentary Research Service in March 2020.<sup>1</sup> This statement follows on seamlessly from earlier findings. It has in fact been known for years and has been proven by hundreds of studies that mobile phone and Wi-Fi (microwave) radiation<sup>2</sup> causes oxidative cell stress, weakens the immune system,<sup>3</sup> inhibits vitamin D production and leads to changes and damage in the genetic material (DNA), and even to carcinogenic diseases.<sup>4</sup> Already in 2007, neuroscientist Dr. Olle Johansson of the Karolinska Institute in Stockholm, Sweden, had compiled a whole series of publications that prove the effects on the immune system.<sup>5</sup> The not yet fully matured immune system of children, in particular, is lastingly damaged, before it is even able to protect the health of the child. Children who grow up with smartphones, tablet and Wi-Fi will be weaker and more prone to

illness throughout their lives. Furthermore, there could be clearly demonstrated effect mechanisms on how microwave radiation interferes with the processes of biological systems, disrupts these and causes corresponding damage or, respectively, the health effects mentioned above. In his

explains that high-frequency radiation interferes with the voltage-controlled calcium channels in the cell membrane and thus influences the calcium and magnesium concentration in the cells. Viruses function according to the same principle by opening up calcium channels in the host cells



Fig. 1: Even in hospitals, nursing and old people's homes, mobile communications and Wi-Fi are moving in. Many people are unaware that radiation damages their health, weakens the immune system and impedes recovery.

comprehensive work “5G: Great risk for EU, U.S. and International Health!”, Dr. Martin L. Pall, PhD, Professor Emeritus of Biochemistry and Basic Medical Sciences at Washington State University,

which allows them to replicate.<sup>6</sup> It is therefore obvious that microwave radiation promotes the reproduction of viruses. The scientists quoted by Dr. Pall warn especially of 5G: higher frequencies up to

100 GHz, much more complex types of modulation and the low-frequency pulsing of the signals very likely lead to even more far-reaching health consequences. The English physicist and former secret service consultant Dr. Barrie Trower emphasizes that microwave radiation has an effect on the psyche and, depending on the pulse frequency, can cause emotional states such as panic, depression, apathy, despondency and even sexual aggression.<sup>7</sup>

At this point it should be noted that the study situation refers to the technologies and frequencies used so far—which are 2G, 3G, 4G, Wi-Fi or cordless telephony (DECT). 5G, on the other hand, has hardly been researched at all and it is not possible to estimate what *additional* effects this will have. And, all the effects just described occur at radiation intensities that are far below the legal threshold values (so-called non-thermal or biological effects).<sup>8</sup> No wonder that in 2019 more than 250 renowned scientists appealed to the UN to finally take the study situation seriously and to better protect mankind from electromagnetic radiation.<sup>9</sup>

Of course, there are also many studies that do not find any connections and give the “all-clear” signal accordingly. However, does it not suffice that about half of the 10,000 studies on high-frequency radiation<sup>10</sup> today do show health impairments? Aren't exactly these studies relevant? If a study does not find a connection, then it is not relevant, because finding nothing is an art that everyone can master.<sup>11</sup>

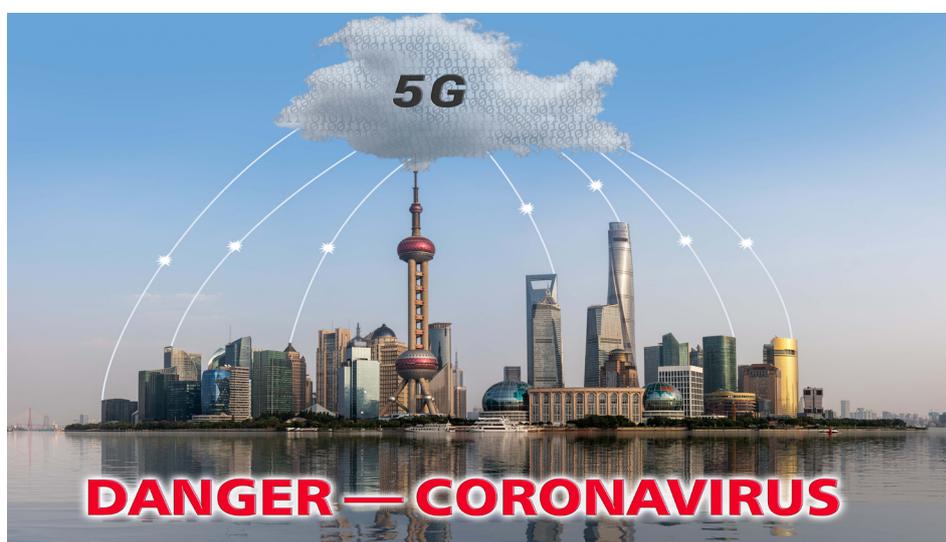
### The corona pandemic 2020 and the spread of 5G

For the first time, the “new” corona virus<sup>12</sup> SARS-CoV-2 was observed in December 2019 in the 11 million city of Wuhan in the Chinese province of Hubei. The “disease” caused by the virus is called Coronavirus Disease 2019 (COVID-19). The most common symptoms of COVID-19 are coughing, shortness of breath and

breathing difficulties in general, sudden loss of sense of smell and taste, neurological disorders and cardiac arrhythmia. Recent findings from autopsies show that all organs can be affected and often thromboses (blood clots) occur.<sup>13</sup> Fever and feverish feeling are also described, which is not so much a symptom of illness but a sign of the body's own defensive reaction and incipient self-healing. Viruses are actually killed at body temperatures of 40 °C or more! In conventional medical treatment, however, the focus today is on alleviating the symptoms and, in more serious cases, on artificial ventilation.

dozens if not hundreds of millions of deaths worldwide were projected.

It is very remarkable that those places or countries, where 5G has already been implemented, developed very quickly into corona hot spots.<sup>15</sup> In its eagerness to take on a global pioneering role in 5G, China installed approximately 130,000 5G antennas by the end of 2019<sup>16,17</sup>—10,000 of them in Wuhan.<sup>18</sup> In the country ranking, South Korea comes in second with 75,000 antennas, followed by the USA with 10,000 5G antennas. It is estimated that around 600,000 new 5G antennas will be installed by the end of 2020, half



*Fig. 2: With 5G, microwave radiation will massively increase worldwide. Besides millions of new terrestrial antennas, the Earth will also be irradiated from outside: up to 100,000 satellites are planned, which are to bring fast internet to the remotest corner of the Earth.*

The virus (or rather the diagnosis of it) spread rapidly from China to South Korea, Iran, Italy, the USA and eventually around the world. On March 11<sup>th</sup>, 2020, the World Health Organization (WHO) raised the “health emergency of international concern” to pandemic status.<sup>14</sup> With exceptions such as Sweden or Belarus, in rare unanimity in virtually all countries of the world, social contacts were forbidden, schools closed, economies shut down or even curfews imposed to prevent feared infections. As quickly as the virus itself, general hysteria and panic spread, with horror images from Italian or American hospitals, and

of them in China alone.<sup>19</sup> The first corona virus hot spot in Europe was Italy: in 2019, the new generation of mobile phones was launched in the major cities of Milan, Turin, Bologna, Rome and Naples, among others.<sup>20</sup> Together with Ireland, Italy is the only European country to date that has auctioned off and is probably using the high 5G frequency bands in the 27 GHz range.<sup>21</sup> At the end of April 2020, San Marino was the state with the highest number of deaths per inhabitant.<sup>22</sup> And in San Marino, a nationwide 5G network was already in operation at the end of 2018, which operates with frequency bands of 3.5 GHz and 26 GHz.<sup>23, 24</sup>

On its website, Telecom Italia even writes that “the activation of the first 5G network [...] will make San Marino an open air laboratory for the development of innovative services”. From today’s point of view, this prediction has a bitter taste.

### Microwave radiation and viruses—a deadly cocktail

Prof. Dr.-Ing. Konstantin Meyl brings another aspect into play. The mobile phone frequencies of 2.4 GHz (4G, Wi-Fi, microwave oven) and now also 22 GHz and 44.4 GHz (5G) used today, correspond exactly to the resonance frequencies of water molecules—the main component of all life. Experiments have shown that Wi-Fi (2.4 GHz) changes water.<sup>25</sup> Biologist Mae-Wan Ho suspects that the biological effects of microwave radiation are closely linked to the function and alteration of cell and tissue water.<sup>26</sup> An attack on water in living organisms can be understood as an attack on countless biological processes.

Professor Meyl writes in his latest book that these frequencies not only activate body water but also highly toxic cyanhydric acid (hydrogen cyanide). The symptoms of cyanhydric acid poisoning are similar to those of COVID-19: the oxygen uptake of the cells is blocked, which leads to shortness of breath and in severe cases to suffocation. In addition, paralysis of the olfactory nerve cells is also reported. At the beginning of March 2020, up to 1,000 deaths per day were reported in Wuhan, until the broadband signal (5G) was switched off on March 5<sup>th</sup>: suddenly the death toll dropped to almost zero.<sup>27</sup> A similar connection is described by the US activist and founder of the Cellular Phone Task Force, Arthur Firstenberg. Looking back over the past hundred years, with every electrification surge or every introduction of new radio technology (radio, TV, radar, mobile phones, etc.) new, deadly viruses have appeared or diseases have broken out.<sup>28</sup> The call

for mass vaccinations makes matters even worse. Vaccine additives such as aluminium particles are stored in the body and lead to an increase in the absorption of microwave radiation. Science is still unclear about what a virus actually is—whether it is an organic structure<sup>29</sup> “close to life” or simply the excrement of a poisoned cell.<sup>30</sup>

### The overall picture

It is quite legitimate to claim that microwave radiation represents a new environmental toxin that causes enormous damage not only to humans but to ALL living organisms. Now let us put the various pieces of the puzzle together. The microwave radiation, very well researched, in use today

- weakens or suppresses the immune system.
- damages and alters the genetic material (DNA) of all living organisms and also of viruses.
- increases the reproduction of viruses.
- activates the formation of toxins such as cyanhydric acid in living organisms.
- leads to changes in the psyche or the state of mind.

The evidence clearly shows that the expansion of 5G and the massive increase in radiation exposure on the one hand further weakens the natural defences and on the other hand promotes the mutation and reproduction of viruses. The corona pandemic should be a gentle, perhaps the last, reminder not to open Pandora’s box any further. When we consider what 5G would mean in its final form, it could really make you anxious. The number of antennas will increase tenfold and in addition, up to 100,000 5G satellites will be launched into orbit. Elon Musk’s company SpaceX alone wants to operate 42,000 satellites; the first few hundred have already been placed in the ionosphere. Depending on the source, between 100 billion and 7 trillion (!) end devices will eventually

communicate with each other via the 5G network. The irradiation would then be “total”. There would no longer be a white spot on Earth that would not be irradiated, polluted and affected by microwave radiation.

### What we can do

It doesn’t have to come to that. The future is open and depends solely on us, on each single one. Our feelings, our thinking and our actions decide whether we will subject our lives to a dictatorship of technology (and its technocrats), or whether technology should serve life. We have the freedom of choice, and there are always alternatives! What can we do in concrete terms?

- Talk to your neighbours, friends, politicians about the effects of microwave radiation.
- Get involved, write letters to the editor or call your local political representative. If there is the insight that the wireless technology known today must not be pursued for the reasons mentioned above, this will finally open the doors for new developments and research.
- Make objections against planned antenna projects.
- Do not use mobile communications, Wi-Fi, cordless phones. Most wireless connections are unnecessary because wired solutions are possible. Be a role model—also to your children!
- The mobile phone is intended for “emergencies” and is quite useful for this purpose.
- Many countries already have a high-performance fibre optic network that is far superior to wireless connections with regard to reliability, security, speed and expandability.<sup>31</sup>
- Refrain from using microwave ovens and induction hobs—the health effects correspond exactly to those of mobile phone radiation.

## References

<sup>1</sup> [https://www.europarl.europa.eu/Reg-Data/etudes/BRIE/2020/646172/EPRS\\_BRI%282020%29646172\\_EN.pdf](https://www.europarl.europa.eu/Reg-Data/etudes/BRIE/2020/646172/EPRS_BRI%282020%29646172_EN.pdf)

<sup>2</sup> High-frequency radiation covers the frequency range from about 10 MHz to 300 GHz; this includes the mobile radio and Wi-Fi radiation mentioned above. High-frequency radiation is also known as microwave radiation.

<sup>3</sup> The study database <https://www.emf-data.org/en/start> can be searched for the keyword "immune system".

<sup>4</sup> Very good overviews of the study situation are provided by e.g. <https://www.emf-data.org/en>, <https://www.bioinitiative.org> and <https://www.emf-portal.org/en>

<sup>5</sup> [https://bioinitiative.org/wp-content/uploads/pdfs/sec08\\_2007\\_Evidence\\_%20Effects\\_%20Immune\\_System.pdf](https://bioinitiative.org/wp-content/uploads/pdfs/sec08_2007_Evidence_%20Effects_%20Immune_System.pdf)

<sup>6</sup> Bai D, Fang L, Xia S, Ke W, Wang J, Wu X, Fang P, Xiao S: Porcine deltacoronavirus (PDCoV) modulates calcium influx to favour viral replication. *Virology* 2020, 539, 38-48. doi: 10.1016/j.virol.10.011. See <https://www.ncbi.nlm.nih.gov/pubmed/31670218>

<sup>7</sup> From the documentary "The Effect of Mobile Telephony Radiation On our Health" by Lothar Moll and Klaus Scheidsteger, <https://faktencheck-mobilfunkstrahlung.de/en/>

<sup>8</sup> Pall, Martin L (2019): 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. The paper documents 139 sources (study results).

<sup>9</sup> <https://emfscientist.org/>

<sup>10</sup> According to the database <https://www.emf-portal.org> there are currently about 10,000 studies on radiofrequency radiation > 10 MHz.

<sup>11</sup> Here is an illustrative example: If two people go mushrooming in the forest and one of them finds nice, big mushrooms or porcini mushrooms, but the other one finds nothing: Who is right? The one who says there are mushrooms in the forest, or the one who says there are no mushrooms in the forest?

<sup>12</sup> The "new" corona virus with the correct name SARS-CoV-2 belongs to the large family of corona viruses, which were already described in the mid-1960s. Corona viruses are genetically highly variable and occur repeatedly in altered form (source: Wikipedia).

<sup>13</sup> <https://www.infosperber.ch/Artikel/Gesundheit/Covid-19-greift-auch-die-Niere-das-Herz-und-das-Hirn-an> (in German)

<sup>14</sup> Detailed information is available at <https://en.wikipedia.org/wiki/SARS-CoV-2>

<sup>15</sup> The US-American Paul Doyen collected comprehensive evidence on corona virus and 5G during an 18-month stay in China. The main statements are backed up by original sources: <https://www.electricsense.com/5g-coronavirus/>

<sup>16</sup> <https://techblog.comsoc.org/2019/10/31/china-to-launch-5g-mobile-networks-on-friday-with-a-huge-government-backed-push/> Other sources even speak of 160,000 antennas.

<sup>17</sup> <https://www.wsj.com/articles/china-is-about-to-switch-on-5g-its-behind-the-u-s-but-not-for-long-11572494203>

<sup>18</sup> [http://www.xinhuanet.com/english/2019-10/31/c\\_138517734.htm](http://www.xinhuanet.com/english/2019-10/31/c_138517734.htm)

<sup>19</sup> [https://www.barrons.com/articles/the-real-5g-winner-could-be-china-51570228459?mod=article\\_inline](https://www.barrons.com/articles/the-real-5g-winner-could-be-china-51570228459?mod=article_inline)

<sup>20</sup> [https://www.gsmarena.com/italy\\_becomes\\_the\\_third\\_european\\_country\\_with\\_5g-news-37424.php](https://www.gsmarena.com/italy_becomes_the_third_european_country_with_5g-news-37424.php)

<sup>21</sup> <https://5gobservatory.eu/5g-spectrum/national-5g-spectrum-assignment/#1563958389100-0edfce99-fd41>

<sup>22</sup> San Marino is an independent state (republic), which is an enclave completely surrounded by Italy. See the country ranking at <https://telindex.ch/corona.php?Log=&pg=world>, even though it should be treated with caution: the survey methods of the individual countries are very inconsistent, strong deviations may be possible.

<sup>23</sup> <https://www.rcrwireless.com/20181218/5g/tim-nokia-complete-full-5g-coverage-san-marino>

<sup>24</sup> <https://www.telecomitalia.com/tit/en/archivio/media/note-stampa/market/2018/PR-San-Marino5G-230518.html>

<sup>25</sup> Ulrich, D. (2020): Auswirkungen von Mobilfunk auf Wasser und Leben. Studienlage und eigene Experimente. (in German)

<sup>26</sup> Ho, M.-W. (2012): *The Rainbow and the worm. The physics of organisms.*

<sup>27</sup> Meyl, K. (2020): *Über die Struktur von Gas und Wasser, Potentialwirbel Band 5, 1. Auflage 2020* (in German)

<sup>28</sup> Firstenberg, A. (2017 / 2020): *The Invisible Rainbow*, ISBN 978-1-64502-009-7 (paperback), ISBN 978-1-64502-010-3 (ebook)

<sup>29</sup> According to Wikipedia, virologists largely agree that viruses are not considered living organisms.

<sup>30</sup> See the presentation by Dr Thomas Cowan at <https://www.midlandscbd.com/articles/m-d-asks-if-coronavirus-is-caused-by-5g>

<sup>31</sup> [https://www.europarl.europa.eu/Reg-Data/etudes/BRIE/2020/646172/EPRS\\_BRI%282020%29646172\\_EN.pdf](https://www.europarl.europa.eu/Reg-Data/etudes/BRIE/2020/646172/EPRS_BRI%282020%29646172_EN.pdf)

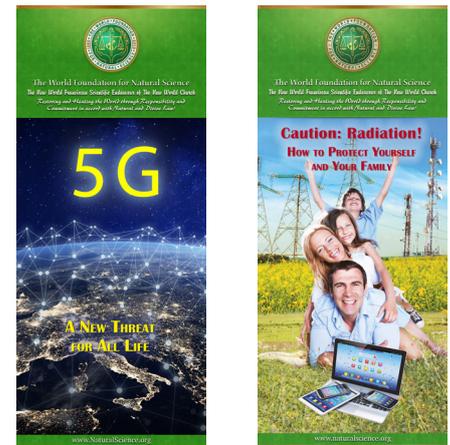


Fig. 3: Find out more about 5G and microwave radiation in our brochures. Please pass these brochures to your family and friends to read.

## Imprint

**Publisher**  
The World Foundation for Natural Science

**Editor**  
Paul Probst, European President  
Susanne Bellotto

**Author**  
Franz Ulrich, Electrical Engineer ETH

**Layout & Artwork**  
Franz Ulrich

**Photo Credits**  
1: AdobeStock  
2: AdobeStock  
3: The World Foundation for Natural Science

**Order Address**  
The World Foundation for Natural Science  
European Headquarters  
P.O. Box 7995  
6000 Lucerne 7, Switzerland  
☎-Phone: +41(41)798-0398  
📠-Fax: +41(41)798-0399  
✉-E-mail: EU-HQ@NaturalScience.org  
[www.NaturalScience.org](http://www.NaturalScience.org)

© copyright by  
The World Foundation for Natural Science

As of May 8<sup>th</sup> 2020