



Quotations from Scientists, Physicians and Others

United States

Ronald B. Herberman, MD, Director Emeritus, University of Pittsburgh Cancer Institute; *United States*

"Based on substantial evidence, especially from industry-independent studies that long term exposure to radiofrequency radiation may lead to increased risk for brain tumors, I issued a precautionary advisory last year to faculty and staff of the University of Pittsburgh Cancer Institute. Since then, my particular concern about exposure of children to radiofrequency has been supported by a report from Dr. Lennart Hardell. Some of my scientific colleagues have expressed skepticism about the reported biological effects, especially DNA damage by radiofrequency radiation, because of the absence of a demonstrated underlying molecular mechanism. However, based on the precautionary principle, I believe it is more prudent to take seriously the reports by multiple investigators that radiofrequency can damage DNA and increase the risk for brain tumors, and for industry-independent agencies to provide needed funding for detailed research to ascertain the molecular basis for such effects."

L. Lloyd Morgan, BSc, Member, Bioelectromagnetics Society and Lead Author, *"Cellphones and Brain Tumors: 15 Reasons for Concern, Science, Spin and The Truth Behind Interphone"*; *United States*

"The largest health experiment ever undertaken, without informed consent, has some 4 billion participants enrolled. To date science papers have shown an increased risk of brain tumors, eye cancer, salivary gland tumors, testicular cancer, non-Hodgkin's lymphoma, and leukemia from cellphone use. The public must be informed"

Jerry L. Phillips, PhD, Director, Science Learning Center, University of Colorado at Colorado Springs; **United States**

"It is indisputable that exposure to radiofrequency radiation at cell telephone frequencies produces biological changes that are consistent with potential adverse effects on human health and development. Moreover, these biological effects are consistent with recent epidemiological studies of long-term cell phone users that have shown increased risks for tumor development. What should be a major concern for scientists and non-scientists alike is industry's misleading and scientifically inaccurate use of available data. Industry's claims of studies negating one another, their misuse of "weight of evidence," and their overt support of studies designed to produce negative data, all in the name of increasing the profit line, are shameful and should not be tolerated."

Paul J. Rosch, MD, FACP, Clinical Professor of Medicine and Psychiatry, New York Medical College; President, The American Institute of Stress; Emeritus Member, The Bioelectromagnetics Society; **United States**

"If cell phones use is not curtailed or made significantly safer, particularly for children, we may be facing and unprecedented disaster that is preventable, The 15 reasons listed to support this is the tip of the iceberg. A very recent Australian report in men who wear cell phones below their waist confirms the striking adverse effect on sperm and fertility previously suggested by animal studies. (See John Aitken's paper published July 31 in PLoS ONE)

Bert Schou, PhD, CEO, ACRES Research; **United States**

"The capability for biological organisms, and even humans, to be extremely sensitive is well within the realm of biological reactions. I have witnessed one person develop sensitivities to radio frequencies and learned about many more individuals who are sensitive. The electromagnetic radiation effects are understood by motivated and dedicated scientists. Realizing and respecting risks from radiation are needed."

Narendra P. Singh, Research Associate Professor, Department of Bioengineering, University of Washington; **United States**

"Independent research findings, including our own, show that cell phone damages the DNA of brain cells and sperms in animal models. Research lavishly funded by industry to counteract the results from the independent science should be taken with caution."

Austria

Gerd Oberfeld, Dr. (MD), Public Health Department, State Government Salzburg and Speaker for Environmental Medicine for the Austrian Medical Association, Vienna; **Austria**

"The scientific data show, with a high degree of confidence, that mobile phone exposure is associated with an increased brain tumor risk. The age group below 20 years is facing the greatest risk, for malignant (deadly) brain tumors, of about 400 percent, compared to non exposed. When we take the long latency period of up to some decades into account, and the fact that large parts of our society and especially more and more teenagers and even children are using mobile phones on a daily basis, we may well expect a brain tumor epidemic. From a public health perspective there is an urgent need not only for a wake-up call for our society, but for measures that are able to combat this public health threat effective now. "

Brazil

Alvaro Augusto A. de Salles, PhD, Professor, Federal University of Rio Grande do Sul UFRGS; **Brazil**

"Due to the available health effects research results of low level long term non ionizing radiation exposure and since more than four billion people now are using mobile phones, the Precautionary Principle should be adopted promptly for these issues. Otherwise later it can be too late to recover the health public damage. People should be advised to reduce RF/MW exposure, for example using head phones and

hands free kits until new technologies or new health effect research results are available”.

Finland

Mikko Ahonen, Researcher, University of Tampere, Finland – He quotes legendary scientist, Neil Cherry

"The standard based on the ICNIRP Guidelines is focused on avoiding tissue heating, not based on biological and epidemiological evidence. The maintenance of the standard is obtained by ignoring or rejecting any and all evidence that contradicts it." – Dr Neil Cherry (2002)

France

Daniel Oberhausen, Physicist, Association PRIARTÉM; France

"Today mobile phone technologies as well as WiFi, WiMAX etc. use EM radiations whose frequencies are in the 1 to 10 GHz range. Proteins and DNA show resonant absorptions in these bands indicating non-thermal effects which may damage living matter. Independent research has to be conducted to clear up those facts. On Earth the cosmic noise between 1 and 10 GHz is extremely low and there are good reasons to think living beings are adapted to that environment."

Germany

Christine Aschermann, Dr. med., Psychiatry, Psychotherapy. Originator of Doctors' Appeal (2002 Freiburg Appeal); Germany

"I developed an interest in the risks of mobile phones and their masts as I observed that -since 1996- an increasing number of my patients began to show organic brain disorders such as lack of concentration, memory loss, difficulty finding words, apraxia up to personality changing- beside various somatic symptoms (e.g. headache, high blood pressure, tiredness, tinnitus, digestive troubles, soft tissue pains). In my opinion, these disorders can be attributed to the extension of the mobile telecommunication networks. As the brain is our most important organ responsible for the somatic regulation and for the specific human spirit a failure will have

extremely serious consequences for our health, our lives and our civilization. Unfortunately, industry dependent science and those obviously addicted to their mobile phones are still denying health effects. I hold the hypothesis that cancer and brain tumors are the end of a long story of suffering, of the person himself and those closely connected with him, too. I hope that, after all, "five minutes after twelve", the general public will heed the results of independent studies and take steps to ban this fatal technology.

Horst Eger, Dr med., Bavarian Ärztekammer Medical Quality No. 65143:
"Elektromagnetische Felder in der Medizin Diagnostik, Therapie, Umwelt"

"Our research has not especially worked on brain tumour cases. But for better understanding of the already known mechanisms of cancer induction, I send you the studies of Schmid and Schrader, which show a clear dependency of disturbed mitosis and HF radiation below the limits. Cells with lacking DNA will have a chance to get malign cells. The increase of disturbed mitosis is up to 10 fold. Count that in relation of 10 billions or more brain cells."

Ulrich Warnke, Dr. rer. nat., Academic High Councillor, Biosciences,
University of Saarland; **Germany**

"Electromagnetic waves like that of mobile-communication-systems can cause mechanisms together with magnet-fields, that damage cells and functions in human beings caused by activated oxidative and nitric stress and followed by inflammations. It is known that the risk of tumour-development exists as a consequence of a long lasting influence. If the population is not informed about it in detail, epidemic illnesses–also with children and teenagers - can not be excluded."

Greece

Lukas H. Margaritis, PhD, Professor of Cell Biology and Radiobiology, Dept.
of Cell Biology and Biophysics Faculty of Biology, University of Athens
Adamantia Fragopoulou, MSc, Medical Biology, PhD (cand.),
Electromagnetic Biology Research Group, Athens University; **Greece**

*"The undersigned **Lukas H. Margaritis,** Professor of Cell Biology and Radiobiology*

and Adamantia F. Fragopoulou, BSc, MSc, doctorate student, having research experience with mobile phone radiation exposure on animal models, strongly support the above text and believe that the possible damage of brain cells following exposure to this type of radiation within the so called safety limits have been highly underestimated by certain studies, possibly due to wrong experimental design. It is therefore our duty as academic citizens to warn the public, through this work, as we do in our country through the media, at every opportunity. Man-made electromagnetic radiation has no safety limits since it was developed long after the evolution of life in earth. The actual effects at the molecular, cellular and organism level are very hard to evaluate due to the complexity of the exposure conditions and the still unknown metabolic mechanisms (signal transduction, tumor formation, cell-cell interactions) taking place within a tissue".

Russia

Professor Yury Grigoriev, Chairman of Russian National Committee on Non Ionizing Radiation Protection, a member of WHO International Advisory Committee on "EMF and Health"

The members of the Russian National Committee on Non-Ionizing Radiation Protection emphasize ultimate urgency to defend children's health from the influence of the EMF of the mobile communication systems. We appeal to the government authorities, to the entire society to pay closest attention to this coming threat and to take adequate measures in order to prevent negative consequences to the future generation's health. The children using mobile communication are not able to realize that they subject their brain to the EMF radiation and their health – to the risk. We believe that this risk is not much lower than the risk to the children's health from tobacco or alcohol. It is our professional obligation not to let damage the children's health by inactivity.

Sweden

Örjan Hallberg, MSEE, Hallberg Independent Research, *Sweden*

"According to my own studies there is a clear trend of increasing brain cancer rates, hearing problems, increasing incidence of acoustic neuroma and also increasing

mortality among people having Alzheimer's disease in more sparsely populated areas in Sweden. This fits well with the higher average output power from mobile phones in sparsely populated areas and should be taken seriously by responsible authorities."

United Kingdom

Ian Dring, Dr., Independent Scientist, United Kingdom

"The overwhelming weight of evidence clearly shows that people are suffering from the significant change to our natural environment that has been caused by microwave communication systems. The issue has gone beyond an academic debate. The cold fact is that you, I, your children, my children might die as a result of over exposure to microwaves. It is now time that this is recognized and that we move to a more sensible precautionary approach. It is our responsibility to protect the health of our children."

Ian Gibson, PhD, biologist and geneticist, cancer researcher, ex-senior M.P. and Chair of Science and Technology Select Committee, UK Parliament. Trustee, Radiation Research Trust

"We need more research to combat the arrogance of those scientists and politicians who fail to see how we must continue to ask for explanations."

Jill Evans, MEP

"I very much welcome this report which provides vital information needed by those of us campaigning to ensure new technology is safe. I know the concern amongst my constituents in Wales about microwave radiation. Raising awareness of the problems will ensure we address them effectively."

Andrew Goldsworthy BSc, PhD, UK, Imperial College London, Lecturer in Biology (retired); ***United Kingdom***

"As an ex-amateur radio enthusiast and a professional biologist, I do not doubt the value of mobile telecommunications. The ability to communicate easily is what sets us apart from the lower animals; and cell phones are an aid to this. However, as presently configured, their radiation is potentially damaging, both to ourselves and

the environment. The main problem is not the microwaves themselves, but the sharp changes in signal strength that occur when they are modulated to carry digital information. These make cell membranes leak and give many unwanted biological effects at signal levels well below current safety guidelines. The good news is that, by involving both biologists and engineers in the necessary research, it should be possible to change the way in which the information is encoded to eliminate most of these effects. The bad news is that the mobile telecommunications industry is not prepared to do this, since it involves admitting that their present systems are unsafe, which could result in damaging litigation. We must find some compromise, or there will be serious consequences for human health and fertility, and the damage to the human genome may be irreparable."

MaeWan Ho, PhD, FRSA, Founder and Director Institute of Science in Society

"Ban wireless from your home and neighborhood if you have small children. This includes wireless installations in you home computers and cordless phones. Non-thermal effects from electromagnetic radiation are irrefutable. This important report should be read and acted on by policy-makers worldwide."

Dr Caroline Lucas, Green Party MEP for SE England
Radiation Research Trust trustee

"This report raises further concern about the health and other risks of mobile phone technology, especially for children. Government action to protect us from the dangers of electromagnetic radiation is long overdue, so I hope this new evidence of the link between brain tumors and mobile phone use is given the serious attention it deserves."

Andrew Mitchell, Member of Parliament, Shadow Secretary of State for International Development, *United Kingdom*

"I welcome the scientific debate about cell phones and brain tumours and a serious discussion of any design flaws of the Interphone study."

Philip Parkin, General Secretary, *Voice*, union for education professionals;
United Kingdom

"I have become increasingly concerned about the general public's lack of awareness of the HPA advice on the use of mobile phones and children; and where it is known it is often being ignored. I was amazed and appalled recently when the government's own Training and Development Agency was advocating, through an article in its own magazine for schools, the use of mobile phones in the classroom as an aide to teaching and learning. This study of the available evidence on Cellphones and Brain Tumours is a sharp reminder to all of the care that needs to be taken in the introduction of new technologies and strengthens the case for the Precautionary Principle in using them. I would endorse it as essential reading for all parents and all frequent, long-term users of mobile phones."

Chris Woollams, M.A. Biochemistry (Oxon), Editor, Integrated Cancer and Oncology News (icon magazine), CEO CANCERactive; **United Kingdom**

"In a world where a drug cannot be launched without proof that it is safe, where herbs and natural compounds available to all since early Egyptian times are now questioned, their safety subjected to the deepest scrutiny, where a new food cannot be launched without prior approval, the idea that we can put up mobile telephony masts and introduce Wi-Fi willy-nilly around our 5 year olds is double-standards gone mad. And I speak, not just as an editor and scientist that has looked in depth at all the research, but as a father that lost his beloved daughter to a brain tumour."