

# ABC 4-Corners has aired a piece of investigative journalism titled “The truth about 5G”

**Did they expose the truth or did they hoodwink millions of  
Australians to believe that 5G is safe? You should be the judge.**

- Why did they not include a single scientist who has researched the health risks of wireless (radiofrequency/microwave) electromagnetic radiation (RF/MW EMR) and considers that it is NOT safe? [International EMF Scientist Appeal](#) has 250+ from 43 countries.
- Why did they not declare the conflicts of interests of the proponents of wireless technology interviewed? e.g. Paul Fletcher – Communications Minister, ex Optus senior exec who made submission No. 96 to the 2001 Senate Inquiry into Electromagnetic Radiation; Prof. Rodney Croft – Chairman, ICNIRP despite training in psychology, and lucrative industry funding from wireless and energy industries.
- Why did they completely edit out engineer Steve Toneguzzo of [ECSFR](#) (B.E.Eng., Grad.Dip.Comp.Sc., M.Eng.Sc., CPEng., Fellow IEAUST., NER, APEC, IntPE(Aus) they spent 4 hours interviewing?
- Who is going to do a fact check on the claims made?

# Conflicts of Interests (Col) – Personal and Financial

## Communications Minister Paul Fletcher – Ex Optus Senior Executive

- Made Submission No. 96 on behalf of Optus Cable & Wireless at the 2001 Australian Senate Inquiry into Electromagnetic Radiation. See page 239 of the [final report](#) of the Inquiry into Electromagnetic Radiation.  
([https://www.aph.gov.au/~media/wopapub/senate/committee/ecita\\_ctte/completed\\_inquiries/1999-02/emr/report/report.ashx](https://www.aph.gov.au/~media/wopapub/senate/committee/ecita_ctte/completed_inquiries/1999-02/emr/report/report.ashx))
- Actively protected teleco industry interests in the [Federal Parliament](#) for many years: *“Mr Paul Fletcher of Optus stated: We think there is a terrific opportunity there to leverage that money to extract private sector investment to match it and in doing so get a real one-time change in the structure of telco in rural Australia”*
- Allocated \$9 Mill. of taxpayer funds to counter ‘misinformation about 5G’ while the [parliamentary hearing](#) on 5G was still underway. This inquiry gave only 6% of hearing time to opponents of 5G (who made the majority of the 538 submissions) while giving 91% of hearing time to proponents of 5G. Not a single medical expert was called upon to give evidence on harmful effects.

# Conflicts of Interests (Col) – Personal and Financial

**Prof. Rodney Croft (PhD psychology)** – Chairman of the small NGO [ICNIRP](#) that advises the World Health Organization (WHO) on “how much RF radiation is safe?” was also the head of Australian research into health effects of RF-EMR at the [ACEBR](#), Wollongong University for a long time (was ACRBR prior to 2011 with direct wireless industry partnership).

- Not qualified to address this medical issue i.e. psychologists are not trained in human diseases like cancer or complex biomedical topics like oxidative stress causing DNA damage, immune disruption etc.
- Has been funded by the wireless and energy industries and has been in active partnership with them for many years. Here he is at an [industry event](#).
- Has been the top ‘expert’ industry/government sources use, to dismiss any claims of adverse health effects. He was [lead of the resistance](#) to counter [leading brain surgeons](#) who reported that they were seeing evidence of mobile phone use linked to [brain cancer](#), and also when medical researchers found an increase in [asthma risk](#) near high voltage power lines. No one seems to question his qualifications!
- He was also consultant to the Australian Defence Force (ADF) on cancer and radiofrequency EMR exposure (some defence personnel claimed their cancers were caused by EMR). He received \$66K for this consultancy as stated in his interest declarations to the ICNIRP in 2014. Details next page.

# Prof. Croft: Col and inappropriate consulting



## DECLARATION OF PERSONAL INTERESTS 2011 - 2014

1. I received reimbursement for travel costs associated with attending an RF Research Agenda Setting workshop in July 2011.	1. ~\$3k / <1% 2011 lab income	1. 2011
2. I have consulted for the Australian Defence Force (ADF) on issues relating to RF and cancer in their workforce. The consultancy was between ADF and University of Wollongong (March 2010 to March 2011), and I provided the expertise as part of my University of Wollongong employment, but received a proportion as personal remuneration.	2. \$66k / 31% 2011 personal income	2. 2011
3. I received reimbursement for travel costs associated with attending RF Workshops in September 2011 and April 2013 (Berlin, Germany).	3. ~Σ\$6k / <1% 2011/2013 lab income	3. 2011 & 2013
4. I received personal remuneration for providing advice to Victorian Government on conducting bioelectromagnetics research.	4. ~\$13k / ~8% 2014 personal income	4. 2014

Above is an extract from his 2014 interest declaration for the ICNIRP which is no longer on the internet. New ones are accessible:

- <https://www.icnirp.org/cms/upload/doc/CroftDoI2018.pdf>
- <https://www.icnirp.org/cms/upload/doc/CroftDoI2018.pdf>

# Fact or Fiction about Wireless Radiation?

**Prof. RODNEY CROFT** said: *“...we were looking for large changes in the brain, thinking it could be a real problem. But we just don't find those. We don't see any changes in brain cancer, which is something that we often hear activists complain about”*

- His own EEG studies have found significant changes in the [brain electrical activity](#) and impacts on [sleep](#) that he plays down. Negative [cognitive impacts](#) (i.e. impulsive and error-prone nature) on children were also incorrectly dismissed.
- Medical researchers at the National Institutes of Health (NIH) USA have demonstrated changes to [metabolic functions](#) of the brain even after short-term exposure to a mobile phone. This refutes his claim of no effects on the brain. There are many more studies showing effects.
- There have been reports from several countries where there have been steady increases in the most aggressive brain cancers, namely glioblastomas. In England, there has been a [more than doubling](#) of the rate between 1995 – 2015.
- Going outside his expertise (psychology), Croft led an [Australian](#) brain tumour data analysis. However, this statistical analysis had dubious methodology aimed at showing a “no effect” outcome, e.g. excluded people over the age 59 years who are in the age group with highest accumulated mobile phone use, broke down the study period into stages inappropriately, and falsely attributed the increase in glioblastoma to improved detection by MRI.
- ICNIRP, the advisory body to the World Health Organization, is a small industry-friendly NGO of 14 self-appointed members with no medical expertise on wireless radiation and health (they have one medical doctor but this dermatologist is not an expert in RF-EMR).

# Fact or Fiction about Wireless Radiation?

**Prof. RODNEY CROFT** said: *“So, the actual physical agent, the radiation that's being emitted by these devices is essentially the same as it's always been, and essentially the same as we've had around with radio, for instance, AM and FM radio for many years.”*

- The physical agent has drastically changed both in the carrier frequency range and also modulation frequencies. For example, AM/FM radio use kHz – MHz (that is thousands to millions of Hertz) range carrier radio waves, WiFi uses 2.4 or 5 GHz (billion Hertz) and 5G uses above 3 GHz and millimetre waves of 26 GHz and above. These signals are very different from each other because of differences in these carrier waves, and of even more importance, because of so many modulation frequencies incorporated. Modern digital wireless signals are highly pulsed unlike the old radio/TV signals and this makes them biologically more interfering. Unlike radio/TV towers which were rare structures and mostly built away from densely populated areas, 5G base stations are coming very close to everyone's homes (particularly antennas for mmwaves).
- Vitamin D is produced in skin cells using a particular frequency band of the UVB radiation (not UVA or UVC) which will then go through a couple of chemical modifications in internal organs to become active vitamin D. This controls many functions of your body and thereby one's health and wellbeing. Without this specific frequency band, there would not be vitamin D biosynthesis. Such frequency dependent effects exist for biological effects induced by RF radiation as well. Some wireless signals are worse than others.
- Radios and TV sets people used for decades do not transmit RF signals – they are simply receivers of radio signals which are then amplified for people to hear and see. Smart TVs, however emit RF radiation if WiFi and Bluetooth functions are activated. On the other hand, mobile/cordless phones and other wireless devices are 2-way radios that receive and also emit signals – exposing the user to RF radiation. 5G devices and millions of base stations will expose people to high levels of a new RF radiation form as never before. That's why many cities in Europe and US have [halted](#) 5G deployment.
- Why are so many scientists, medical doctors and others [opposing 5G](#)?
- Why have the US military been using millimetre waves as [weapons](#)?



Former Chief Medical Officer of Australia **Prof. Brendan Murphy** who featured in the program, claiming that 5G is safe, has done no demonstrable research on the topic. He is not an expert on this subject matter. On the other hand, Australian independent scientists have compiled in a [database](#) published health-related scientific evidence on wireless radiation from all over the world ([www.orsaa.org](http://www.orsaa.org)).

[Australian and New Zealand scientists and clinicians](#) recently published (July 2020) an article in the ACNEM Journal (Australasian College of Nutritional & Environmental Medicine) calling for a medical discussion about the health risks of 5G that is lacking in our region.

The [controversial International EMF Project](#) (IEMFP) at the WHO and the ICNIRP was founded by the same person, Australian physicist and industry consultant [Michael Repacholi](#) who even managed to suppress his WHO boss, former Director General (and a senior medical doctor) [Dr. Gro Harlem Brundtland](#) who raised concerns about the adverse health effects of wireless radiation.

WHO's IEMFP leadership was passed on to Repacholi's protégé industry engineer [Emilie van Deventer](#) (PhD electrical engineering), the same way Croft passed on leadership of the [ACEBR](#) to his protégé [Sarah Loughran](#). Interestingly, Australian biomedical research has been headed by two psychologists all these years. Where are the biomedical experts?

Swedish oncologist Prof. Lennart Hardell's criticism of the [WHO's](#) International EMF Project that continues to neglect the evidence of harm is published in the International Journal of Oncology.

# Fact or Fiction?

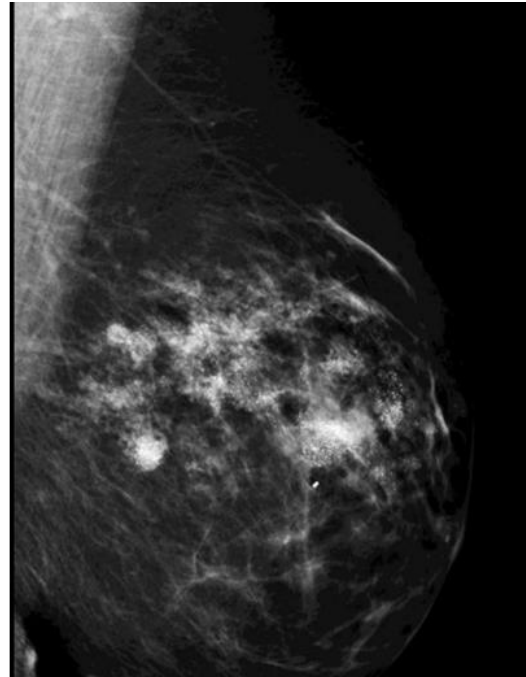
**Prof. Malcolm Sim** claimed on the program: *“Radiofrequency is in what's called the non-ionising wavelengths of radiation, so it doesn't cause DNA damage to genetic material and so on”*

- [UV radiation](#) is also so-called “non-ionizing radiation” but it causes DNA damage and cancer (UVA and UVB is ‘non-ionizing’ and that’s what reaches us from the sun). This physics term has been falsely used by proponents of wireless technology to mislead people. This term does not apply to an aqueous medium such as in biological tissue where both UV and RF radiation cause changes in the ionic state of biochemicals.
- RF radiation has been demonstrated to cause DNA damage or found to be associated with DNA damage in over 150 separate studies (go to the [ORSAA database](#) and search with ‘DNA damage’). Of those, 49 are detailed in a 2009 review by [Prof. Hugo Rudiger](#) (Ex- Medical University of Vienna). He was [falsely implicated](#) in a ‘fraud case’ seeking to discredit his team’s work establishing [clear evidence](#) of DNA damage by mobile phone radiation. Similar [sabotage](#) was directed at Prof. Henry Lai’s team at the University of Washington who first reported [DNA damage caused by mobile phones](#).
- The US National Toxicology Program (under the National Institutes of Health, USA) has confirmed that they have observed evidence of [DNA damage caused by mobile phone](#) radiation. Note their claim: *“In conclusion, these results suggest that exposure to RFR is associated with an increase in DNA damage.”*
- Most studies are done in lab animals/cell cultures (DNA is the same regardless of the species, if you get damage in one species, you expect that in others). However [increased DNA damage](#) has also been clearly demonstrated even in young healthy adults exposed to mobile phones for as little as 15 min or 30 min.
- Increased [DNA damage](#) (and oxidative stress) has been found in people who live near mobile phone base stations (masts) in a several research [studies](#).
- This can explain the [increased rates of cancer](#) seen near mobile phone base stations. Industry-funded studies often yield no effect outcomes.
- **Australia has not done a single study** to investigate if any health impact has occurred in people near common mobile phone base stations. The [only study](#) led by Dr. Bruce Hocking (ex Telstra Chief Medical Officer) about 25 years ago found an increased risk of cancer near broadcasting towers.



**Prof. Sim** did not tell the audience about the large volume of new scientific evidence that has been published since the [2011 WHO](#) (IARC) classification, with IARC recommending that it should be [re-classified as a priority](#). This evidence, from [population data](#) and [collective data](#) indicates that RF radiation causes cancer.

The collective experimental evidence supports the observations of American doctors who have reported multiple breast cancers in young women without other risk factors, apart from carrying mobile phones tucked in their bras.



[West JG et al.](#)

Multifocal breast cancer in young women with prolonged contact between their breasts and their cellular phones. Case Reports in Medicine, 54682. doi: 10.1155/2013/354682 (2013)

# Is it really Russians behind 5G protests as Minister Fletcher claimed?

5G APPEAL

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## The 5G appeal

Scientists and doctors call for a moratorium on the roll-out of 5G.  
5G will substantially increase exposure to radiofrequency electromagnetic fields RF-EMF, that has been proven to be harmful for humans and the environment.

[Read more](#)

## The Truth

Thousands of scientists and clinicians who have researched the topic are behind the 5G Protests.

They understand the health risks although those who are pushing 5G for financial reasons don't.

