

Sugars and Cell Phones

Smart Sugars Lesson # 40

by JC Spencer

The cell phone is an appendage that will forever alter our minds and brains. This high tech security blanket offers a feeling of connection to world and friends but at what cost? Some teenagers are becoming android like creatures.

The world of cyberspace has your number and you are on call. Our brains have been rewired by a technology of bombarding electrons. The invisible chain around your head can be yanked from a far. Our neurotransmitters are awaiting with anticipation, ready to induce a dopamine response of addictive pleasure.

Let us understand what is going on so we can overcome the negative, improve the positive, and take advantage of the potential of this high tech connectivity which is here to stay.

Quantum Glycobiology would tell us that the interactions between the cell phone and sugars is the tipping point to endless possibilities. In this lesson, we will bypass the psychological damage, the quantum possibilities, and simply take a peek at basic glycomics.

Brain activity is sugar powered. Studies show cell phone radio frequencies increase glucose metabolism with unknown ramifications; but, speculations range from cancer to dissipation of protein plaque buildup on the neurons which would benefit Alzheimer's patients.

We should calculate how best to be safe while utilizing this technology to our advantage. It seems wise to use the speaker phone when you can, so the transmitter is not next to your brain. An ear piece may be of benefit.

One sugar forms protective stress barriers like little Faraday cages around human cells.

Scientist at the Université de Lausanne in Switzerland were surprised to learn that cells were protected from electron beam microscopy damage when those cells were coated with the sugar trehalose.

A 2011 study published in JAMA shows cell phone RF cause increased glucose sugar activity in parts of the brain near the phone's antenna, concluding that the human brain is sensitive to the electromagnetic radiation.

Another 2011 study published in the journal Bioelectromagnetics shows no statistically significant change in brain cancers in men and women in England from 1998-2007 when cell phone use increased dramatically.

A 2010 study showed surprising results by University of South Florida researchers at the Florida Alzheimer's Disease Research Center (ADRC), published in the *Journal of Alzheimer's Disease*. The mice study provides evidence that long-term exposure to electromagnetic waves associated with cell phone use may actually protect against, and even reverse, Alzheimer's disease. Electron radiation may prevent protein plaque build-up on the neurons.

I am designing a laboratory protocol for an interesting experimentation with cell phone RF that may help determine parameters for future research with sugars and the human brain.

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