

Abstract Submitted  
for the MAR17 Meeting of  
The American Physical Society

**Possible Explanation for Cancer in Rats due to Cell Phone Radio Frequency Radiation** BERNARD J. FELDMAN, University of Missouri-St. Louis — Very recently, the National Toxicology Program reported a correlation between exposure to whole body 900 MHz radio frequency radiation and cancer in the brains and hearts of Sprague Dawley male rats. Assuming that the National Toxicology Program is statistically significant, I propose the following explanation for these results. The neurons around the brain and heart form closed electrical circuits and, following Faraday's Law, 900 MHz radio frequency radiation induces 900 MHz electrical currents in these neural circuits. In turn, these 900 MHz currents in the neural circuits generate sufficient localized heat in the neural cells to shift the equilibrium concentration of carcinogenic radicals to higher levels and thus, to higher incidences of cancer.

Bernard J. Feldman  
University of Missouri-St. Louis

Date submitted: 14 Oct 2016

Electronic form version 1.4