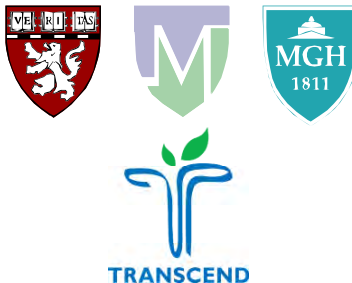


HARVARD MEDICAL SCHOOL



MASSACHUSETTS  
GENERAL HOSPITAL

Martha R. Herbert, Ph.D., M.D.  
*Assistant Professor, Pediatric Neurology*  
*Director, TRANSCEND Research Program*  
www.transcendresearch.org  
transcend@partners.org

Martinos Center for Biomedical Imaging  
149 13<sup>th</sup> Street, Room 10.018  
Boston, Massachusetts 02129  
Phone: (617) 724-5920  
Fax: (617) 812-6334  
mherbert1@partners.org

TO: Los Angeles Unified School District  
FROM: Martha R Herbert, PhD, MD  
RE: Wireless vs. Wired in Classrooms  
DATE: February 8, 2013

I am a pediatric neurologist and neuroscientist on the faculty of Harvard Medical School and on staff at the Massachusetts General Hospital. I am Board Certified in Neurology with Special Competency in Child Neurology, and Subspecialty Certification in Neurodevelopmental Disorders.

I have an extensive history of research and clinical practice in neurodevelopmental disorders, particularly autism spectrum disorders. I have published papers in brain imaging research, in physiological abnormalities in autism spectrum disorders, and in environmental influences on neurodevelopmental disorders such as autism and on brain development and function.

I recently accepted an invitation to review literature pertinent to a potential link between Autism Spectrum Disorders and Electromagnetic Frequencies (EMF) and Radiofrequency Radiation (RFR). I set out to write a paper of modest length, but found much more literature than I had anticipated to review. I ended up producing a 60 page single spaced paper with over 550 citations. It is available at [http://www.biointiative.org/report/wp-content/uploads/pdfs/sec20\\_2012\\_Findings\\_in\\_Autism.pdf](http://www.biointiative.org/report/wp-content/uploads/pdfs/sec20_2012_Findings_in_Autism.pdf).

In fact, there are thousands of papers that have accumulated over decades – and are now accumulating at an accelerating pace, as our ability to measure impacts become more sensitive – that document adverse health and neurological impacts of EMF/RFR. Children are more vulnerable than adults, and children with chronic illnesses and/or neurodevelopmental disabilities are even more vulnerable. Elderly or chronically ill adults are more vulnerable than healthy adults.

Current technologies were designed and promulgated without taking account of biological impacts other than thermal impacts. We now know that there are a large array of impacts that have nothing to do with the heating of tissue. The claim from wifi proponents that the only concern is thermal impacts is now definitively outdated scientifically.

EMF/RFR from wifi and cell towers can exert a disorganizing effect on the ability to learn and remember, and can also be destabilizing to immune and metabolic function. This will make it harder for some children to learn, particularly those who are already having problems in the first place.

Powerful industrial entities have a vested interest in leading the public to believe that EMF/RFR, which we cannot see, taste or touch, is harmless, but this is not true. Please do the right and precautionary thing for our children

I urge you to step back from your intention to go wifi in the LAUSD, and instead opt for wired technologies, particularly for those subpopulations that are most sensitive. It will be easier for you to make a healthier decision now than to undo a misguided decision later.

Thank you.

A handwritten signature in black ink, appearing to read 'MH', with a long horizontal line extending to the right.

Martha Herbert, PhD, MD  
Pediatric Neurology  
Martinos Center for Biomedical Imaging  
Massachusetts General Hospital  
Harvard Medical School  
Boston, Massachusetts  
USA