

April 21, 2017

From: Scientists for Wired Technology - Advocating for sound public policy based on scientific research on the health impacts of wireless radiation

Mark Graham Mark.Graham@Scientists4WiredTech.com

Paul McGavin Paul.McGavin@Scientists4WiredTech.com

To: Members of the Senate Governance and Finance Committee

Re: Committee meeting of April 26, 2017 and hearing on SB649 wireless telecommunication facilities

Dear Senators,

This letter contains three enclosures:

#1 a list of over 100 substantial scientific studies on the health impacts or health effects of radio frequency / microwave (RF/MW) radiation entered into the public record on 7/15/15 and 4/4/17.

#2 Notice of opposition to SB649 from the City of Elk Grove

#3 Flaws in the Federal Communications Commission's "maximum permissible exposure guidelines" from 1996 (analysis by Scientists for Wired Technology)

This Committee should consider this health argument against SB649 and this supporting evidence.

It is essential that Members of this Committee and the public know this information so that you can understand and evaluate the health hazards of wireless pulsed modulated Radio-Frequency Microwave Radiation (RF/MW radiation) and then make an informed decision about SB.649.

SB649 would expose millions of Californians to this radiation from "small cells" placed on utility poles and light poles in the public right of way, operating 24/7. Neither the local government, the neighborhood nor the resident would have any power or ability to turn that radiation down or off.

On April 19 we wrote to the Committee's consultant and asked him to please retrieve from storage the two green binders containing the studies we entered into the public record on 7/15/15, so the Members of this Committee and your staffs have easy access to evaluate the full information in these 3" thick bright green 3-ring binders. Those binders should be available to you as of today. Please have a member of your staff ask for a copy of those binders. Please review the studies, their methods and conclusions prior to the April 26 Committee meeting. If necessary please ask the Office of Environmental Health Hazard Assessment (OEHHA, part of CalEPA) for assistance in reviewing the studies.

Neither the bill's author, Senator Hueso, nor the telecommunications companies that will reap the financial benefits of this bill, have been asked to prove to this Committee and to the public that the radiation from these small cells as SB649 allows them to install and operate them is healthy and safe. There cannot be a more important question to ask them. SB649 will allow the telecommunications companies to expose millions of Californians to this radiation in their homes and offices 24/7 - and the question of health and safety has not even been asked.

"Proof" will not consist of an unsupported statement; rather it would have to be based on the scientifically studied levels of long term exposure, in terms of power density, at which health effects are found to occur. Avoiding the question will not amount to proof of health and safety.

On July 15, 2015 at a hearing on AB57, by arrangement with the Chairman of this Committee, Senator Robert Hertzberg, two speakers opposed to AB57 were given a total of 5 minutes “at the table” to present the health argument against AB57 and supporting evidence. That set a precedent that this Committee could follow with SB649.

On April 4, 2017 at the meeting of the Senate Energy, Utilities and Communication Committee Paul McGavin referred to the studies in these green binders delivered to this Committee on July 15, 2015 and thereby incorporated them into his testimony. We have also incorporated these studies by reference into our written testimony in opposition to SB649.

Unfortunately the consultant for this Committee has told us repeatedly that he will omit both the health argument against SB649 and the supporting evidence from his bill analysis. Hiding information from the Committee and the public is unethical and improper. The consultant claims he does not have the power to include that information in his bill analysis because this Committee is not interested in and does not have jurisdiction over health. These are false statements as shown by the precedent set in 2015 on AB57. Also, the best reason a local government could have for saying NO to small cells is to protect the health and safety of its residents. The health argument against SB649 and the local government control argument are related.

Local government (the American Planning Association) was allowed to speak at the table in opposition to SB649 at the April 4, 2017 meeting of the Senate Energy, Utilities and Communication Committee. Should they have waited until this Committee’s hearing on April 26? Their testimony was well argued. The point is that what is considered fair game for a given Committee and its bill analysis is much more fluid and flexible than the consultant to this Committee has claimed.

When this Committee makes public policy while it is in the dark about a significant argument against a bill and the supporting scientific evidence it cannot be good policy. Hiding the truth in order to favor a certain bill is wrong. Concealing information that might cause the Members of this Committee to question this bill and vote NO on it is wrong. It is bad politics.

We recommend that this Committee arrange an information hearing on the health impacts / effects of wireless pulsed modulated Radio-Frequency Microwave Radiation (RF/MW radiation). Invite testimony from M.D.s and biologists and other biological scientists who have published research on such radiation and are not affiliated with the telecommunications industry.

Scientists for Wired Technology opposes SB649 and respectfully asks for your NO vote.

Sincerely,

Scientists for Wired Technology
Mark Graham
Paul McGavin

Enclosures:

- #1 List of scientific evidence supporting the health argument against SB649.
- #2 Notice of opposition to SB649 from the City of Elk Grove
- #3 Flaws in the Federal Communications Commission’s “maximum permissible exposure guidelines” from 1996 (analysis by Scientists for Wired Technology)

I. SUBSTANTIAL SCIENTIFIC EVIDENCE [ENTERED INTO THE PUBLIC RECORD ON 4/4/17:](#)

<http://scientists4wiredtech.com/2017/04/ca-senate-sb-649-testimony/>

Four Important Scientific Studies Entered Into the Public Record on 4/4/17

1. **2016:** \$25 million, 16-year US Government NIEHS study: National Toxicology Program Carcinogenesis Studies of Radiofrequency Microwave Radiation
<http://biorxiv.org/content/biorxiv/early/2016/05/26/055699.full.pdf>
2. **2016:** a study by Dr. Trevor Marshall, Electrosmog and Autoimmune Disease
<https://link.springer.com/article/10.1007/s12026-016-8825-7>
3. **1993:** the seminal study on biological windows by Dr. W. Ross Adey, Biological Effects of Electromagnetic Fields
<http://www.globalenergymedicine.com/documents/general/biological.doc>
4. **2011:** review by Yakymenko et al, Long-Term Exposure To Microwave Radiation Provokes Cancer Growth: Evidence From Radars And Mobile Communication Systems
<http://exp-oncology.com.ua/wp/wp-content/uploads/2011/11/110.pdf>

II. TABLE of CONTENTS OF SUBSTANTIAL SCIENTIFIC EVIDENCE [ENTERED INTO THE PUBLIC RECORD ON 7/15/15:](#)

<https://www.youtube.com/watch?v=vZ58zMLN40A>

A. Science Articles on Environmental Effects:

1. Electromagnetic Pollution from Phone Masts. Effects on Wildlife; January 30, 2009
2. New Research Confirms That Our Electronics and Radio Waves Disrupt Migratory Birds; May 8, 2014
3. Can Electromagnetic Exposure Cause a Change in Behaviour? Studying Possible Non-Thermal Influences on Honey Bees
4. Electromagnetic Radiation (EMR) Clashes with Honey Bees; January 2011
5. Nanometer-Scale Elongation Rate Fluctuations in the Myriophyllum Aquaticum (Parrot Feather) Stem Were Altered by Radio-Frequency Electromagnetic Radiation; 2014
6. High Frequency (900 MHz) Low Amplitude (5V_m-1) Electromagnetic Field: A Genuine Environmental Stimulus That Affects Transcription, Translation, Calcium and Energy Charge in Tomato; March 2008

B. PubMed Abstracts:

1. The Effects of Electromagnetic Fields on the Number of Ovarian Primordial Follicles: An Experimental Study; June 2015
2. Effect of Mobile Phone Use on Metal Ion Release from Fixed Orthodontic Appliances; June 2015
3. Are Men Talking Their Reproductive Health Away? May-June 17, 2015
4. Effects of 2.4 GHz Radiofrequency Radiation Emitted from Wi-Fi Equipment on MicroRNA Expression in Brain Tissue; May 20, 2015
5. Can Prenatal Exposure to a 900 MHz Electromagnetic Field Affect the Morphology of the Spleen and Thymus, and Alter Biomarkers of Oxidative Damage in 21-Day-Old Male Rats? May 19, 2015
6. Mobile Phone Radiation Causes Brain Tumors and Should be Classified as a Probable Human Carcinogen (2A) (review); May 2015
7. Use of Mobile Phone During Pregnancy and the Risk of Spontaneous Abortion; April 21, 2015
8. Tumor Promotion by Exposure to Radiofrequency Electromagnetic Fields Below Opposition to SB649 by Scientists for Wired Technology, page 3

Exposure Limits for Humans; April 17, 2015

9. The Effects of 2100-MHz Radiofrequency Radiation on Nasal Mucosa and Mucociliary Clearance in Rats; April 16, 2015

10. Effects of Chronic Exposure to Electromagnetic Waves on the Auditory System; April 2, 2015

11. Exposure to 900 MHz Electromagnetic Fields Activates the mmp-1/ERK Pathway and Causes Blood-Brain Barrier Damage and Cognitive Impairment in Rats; March 19, 2015

12. Cognitive Impairment and Neurogenotoxic Effects in Rats Exposed to Low-intensity Microwave Radiation; March 5, 2015

13. The Effects of Long-Term Exposure to a 2450 MHz Electromagnetic Field on Growth and Pubertal Development in Female Wistar Rats; March 2015

14. Effects of Long-Term Exposure of 2.4 GHz Radiofrequency Radiation Emitted from Wi-Fi Equipment on Testes Functions; March 2015

15. Effects of Prenatal and Postnatal Exposure of Wi-Fi on Development of Teeth and Changes in Teeth Element Concentration in Rats: Wi-Fi (2.45 GHz) and Teeth Element Concentrations; February 2015

16. Investigation of the Effects of Distance from Sources on Apoptosis, Oxidative Stress and Cytosolic Calcium Accumulation Via TRPV1 Channels Induced by Mobile Phones and Wi-Fi in Breast Cancer Cells; February 19, 2015

17. Effect of Low-Intensity Microwaves Radiation on Monoamine Neurotransmitters and Their Key Regulating Enzymes in Rat Brain; February 12, 2015

18. The Impact of Electromagnetic Radiation of Different Parameters on Platelet Oxygen Metabolism – In Vitro Studies; January-February 2015

19. The Effect of 2100 MHz Radiofrequency Radiation of a 3G Mobile Phone on the Parotid Gland of Rats; January-February 2015

20. Generation of Infant Anatomical Models for Evaluating Electromagnetic Field Exposures; January 2015

21. Validation of Self-Reported Start Year of Mobile Phone Use in a Swedish Case-Control Study on Radiofrequency Fields and Acoustic Neuroma Risk; January 2015

22. Impact of Head Morphology on Local Brain Specific Absorption Rate from Exposure to Mobile Phone Radiation; January 2015

23. Effects of Extremely Low Frequency Electromagnetic Field (ELF-EMF) on Catalase, Cytochrome P450 and Nitric Oxide Synthase in Erythro-Leukemic Cells; January 15, 2015

24. Experimental Model for ELF-EMF Exposure: Concern for Human Health; January 2015

25. Effect of ELF-EMF Exposure on Human Neuroblastoma Cell Line: A Proteomics Analysis; Winter 2014

26. Effects of Mobile Phone Radiation (900 MHz Radiofrequency) on Structure and Functions of Rat Brain; December 2014

27. The Developmental Effects of Extremely Low Frequency Electric Fields on Visual and Somatosensory Evoked Potentials in Adult Rats; December 11, 2014

28. In Vitro Electromagnetic Stimulation to Enhance Cell Proliferation in Extracellular Matrix Constructs With and Without Metallic Nanoparticles; December 2, 2014

29. Self-Reporting of Symptoms Development from Exposure to Radiofrequency Fields of Wireless Smart Meters in Victoria, Australia: A Case Series; November-December 2014

30. Is Magnetite a Universal Memory Molecule? November 2014

31. Electromagnetic Fields Mediate Efficient Cell Reprogramming into a Pluripotent State; October 28, 2014

32. Short- and Long-Term Exposure to Alternating Magnetic Field (50 Hz, 0.5 mT) Affects Rat Pituitary ACTH Cells: Stereological Study; October 27, 2014

33. Decreased Survival of Glioma Patients with Astrocytoma Grade IV (Glioblastoma Multiforme) Associated with Long-Term Use of Mobile and Cordless Phones; October 16, 2014

34. Behavior and Memory Evaluation of Wistar Rats Exposed to 1.8 GHz Radiofrequency Electromagnetic Radiation; September 2014

35. Electromagnetic Radiation (Wi-Fi) and Epilepsy Induce Calcium Entry and Apoptosis Through Activation of TRPV1 Channel in Hippocampus and Dorsal Root Ganglion of Rats; September 2014

36. Therapeutic Approaches of Melatonin in Microwave Radiations-induced Oxidative Stress-Mediated Toxicity on Male Fertility Pattern of Wistar Rats; June 2014

37. Exposure to 1800 MHz Radiofrequency Radiation Impairs Neurite Outgrowth of Embryonic Neural Stem Cells; May 29, 2014

Opposition to SB649 by Scientists for Wired Technology, page 4

38. 2.45 GHz Microwave Irradiation Adversely Affects Reproductive Function in Male Mouse, *Mus Musculus* by Inducing Oxidative and Nitrosative Stress; May 2014
39. Effect of 3G Cell Phone Exposure with Computer Controlled 2-D Stepper Motor on Non-Thermal Activation of the hsp27/p38MAPK Stress Pathway in the Rat Brain; March 2014
40. Different Electromagnetic Field Waveforms Have Different Effects on Proliferation, Differentiation and Mineralization of Osteoblasts In Vitro; January 2014
41. Effects of Melatonin on Wi-Fi-Induced Oxidative Stress in Lens of Rats; January 2014
42. The Influence of Direct Mobile Phone Radiation on Sperm Quality; 2014
43. Could Myelin Damage from Radiofrequency Electromagnetic Field Exposure Help Explain the Functional Impairment Electrohypersensitivity? A Review of the Evidence; 2014
44. Wi-Fi (2.45 GHz) and Mobile Phone (900 and 1800 MHz) Induced Risks on Oxidative Stress and Elements in Kidney and Testis of Rats During Pregnancy and the Development of Offspring; December 2013
45. Effects of Olive Leaf Extract on Metabolic Disorders and Oxidative Stress Induced by 2.45 GHz Wi-Fi Signals; November 2013
46. The Relationship Between Adolescents' Well-Being and Their Wireless Phone Use: A Cross-Sectional Study; October 22, 2013
47. Electromagnetic Fields Act Via Activation of Voltage-Gated Calcium Channel to Produce Beneficial or Adverse Effects; August 2013
48. Wi-Fi Technology – An Uncontrolled Global Experiment on the Health of Mankind; June 2013
49. Modulation of Wireless (2.45 GHz) Induced Oxidative Toxicity in Laryngotracheal Mucosa of Rat by Melatonin; May 2013
50. Effect of Low Level Microwave Radiation Exposure on Cognitive Function and Oxidative Stress in Rats; April 2013
51. Immunohistopathologic Demonstration of Deleterious Effects on Growing Rat Testes of Radiofrequency Waves Emitted from Conventional Wi-Fi Devices; April 2013
52. Electromagnetic Hypersensitive Finns: Symptoms, Perceived Sources and Treatments, A Questionnaire Study; April 2013
53. 2.45 GHz Microwave Irradiation-Induced Oxidative Stress Affects Implantation or Pregnancy in Mice, *Mus Musculus*; March 2013
54. Detection of Low Level Microwave Radiation Induced Deoxyribonucleic Acid Damage *Vis-à-vis* Genotoxicity in Brain of Fischer Rats; January 2013
55. The Effect of Electromagnetic Radiation on the Rat Brain: An Experimental Study; 2013
56. Microwave Radiation Induced Oxidative Stress, Cognitive Impairment and Inflammation in Brain of Fischer Rats; December 2012
57. Protective Effects of Melatonin Against Oxidative Injury in Rat Testis Induced by Wireless (2.45 GHz) Devices; November 12, 2012
58. Electromagnetic Fields at 2.45 GHz Trigger Changes in Heat Shock Proteins 90 and 70 Without Altering Apoptotic Activity in Rat Thyroid Gland; September 15, 2012
59. 2.45 GHz Wireless Devices Induce Oxidative Stress and Proliferation Through Cytosolic Ca (2+) Influx in Human Leukemia Cancer Cells; June 2012
60. Cell Phone Use and Behavioral Problems in Young Children; June 2012
61. Melatonin Modulates Wireless (2.45 GHz)-Induced Oxidative Injury Through TRPM2 and Voltage Gated Ca (2+) Channels in Brain and Dorsal Root Ganglion in Rat; February 1, 2012
62. Pathophysiology of Microwave Radiation: Effect on Rat Brain; January 2012
63. Use of Laptop Computers Connected to Internet Through Wi-Fi Decreases Human Sperm Motility and Increases Sperm DNA Fragmentation; January 2012
64. Selenium and L-Carnitine Reduce Oxidative Stress in the Heart of Rat Induced by 2.45-GHz Radiation from Wireless Devices; December 2011
65. Effects of Wi-Fi Signals on the p300 Component of Event-Related Potentials During an Auditory Hayling Task; June 2011
66. Pulse Modulated 900 MHz Radiation Induces Hypothyroidism and Apoptosis in Thyroid Cells: a Light, Electron Microscopy and Immunohistochemical Study; December 2010
67. Scientific Panel on Electromagnetic Field Health Risks: Consensus Points, Recommendations, and Rationales; October-December 2010
68. Indication of Cocarcinogenic Potential of Chronic UMTS-Modulated Radiofrequency Exposure in an Ethylnitrosourea Mouse Model; July 2010
69. Bioeffects of Mobile Telephony Radiation in Relation to its Intensity or Distance From the Antenna; May 2010

70. Mutagenic Response of 2.45 GHz Radiation Exposure on Rat Brain; April 2010
71. Preliminary Study on the Induction of Sperm Head Abnormalities in Mice, *Mus Musculus*, Exposed to Radiofrequency Radiations from Global System for Mobile Communication Base Stations; January 2010
72. Effects of Selenium and L-Carnitine on Oxidative Stress in Blood of Rat Induced by 2.45 GHz Radiation from Wireless Devices; December 2009
73. The Effects of Microwave Emitted by Cellular Phones on Ovarian Follicles in Rats; November 2009
74. Epidemiological Evidence for and Association Between Use of Wireless Phones and Tumor Diseases; August 2009
75. Increased Blood-Brain Barrier Permeability in Mammalian Brain 7 Days After Exposure to the Radiation from a GSM-900 Mobile Phone; August 2009
76. Modulator Effects of L-Carnitine and Selenium on Wireless Devices (2.45 GHz) Induced Oxidative Stress and Electroencephalography Records in Brain of Rat; August 2009
77. The Effect of 50 HZ Magnetic Field of Different Shape on Oxygen Metabolism in Blood Platelets: In Vitro Studies; 2009
78. Blood-Brain Barrier Permeability and Nerve Cell Damage in Rat Brain 14 and 28 Days After Exposure to Microwaves from GSM Mobile Phones; 2008
79. Effects of Prenatal Exposure to a 900 MHz Electromagnetic Field on the Dentate Gyrus of Rats: A Stereological and Histopathological Study; October 31, 2008
80. Prenatal and Postnatal Exposure to Cell Phone Use and Behavioral Problems in Children; July 2008
81. Chronic Non-Thermal Exposure of Modulated 2450 MHz Microwave Radiation Alters Thyroid Hormones and Behavior of Male Rats; June 2008
82. Cognitive Impairment in Rats After Long-Term Exposure to GSM-900 Mobile Phone Radiation; April 2008
83. Biological Effects from Electromagnetic Field Exposure and Public Exposure Standards; February 2008
84. Neurobehavioral Effects Among Inhabitants Around Mobile Phone Base Stations; March 2007
85. GSM Base Station Electromagnetic Radiation and Oxidative Stress in Rats; 2006
86. Protein Kinase C Activity in Developing Rat Brain Cells Exposed to 2.45 GHz Radiation; 2006
87. Single Strand DNA Breaks in Rat Brain Cells Exposed to Microwave Radiation; April 1 1, 2006
88. Non-Thermal DNA Breakage by Mobile-Phone Radiation (1800 MHz) in Human Fibroblasts and in Transformed GFSH-RI 7 Rat Granulosa Cells In Vitro; June 6, 2005
89. Radiofrequency-Induced Carcinogenesis: Cellular Calcium Homeostasis Changes as a Triggering Factor; March 2005
90. Erythropoietic Changes in Rats After 2.45 GJz Nonthermal Irradiation; December 2004
91. Malignant Melanoma of the Skin Not a Sunshine Story! July 2004
92. Effects of Pulsed Electromagnetic Fields on Cognitive Processes – A Pilot Study on Pulsed Field Interference with Cognitive Regeneration; July 2004
93. A Possible Association Between Fetal/Neonatal Exposure to Radiofrequency Electromagnetic Radiation and the Increased Incidence of Autism Spectrum Disorders (ASD); 2004
94. Electromagnetic Waves of 900 MHz in Acute Pentylentetrazole Model in Ontogenesis in Mice; October 2003
95. Nerve Cell Damage in Mammalian Brain After Exposure to Microwaves From GSM Mobile Phones; June 2003
96. Investigation on the Health of People Living Near Mobile Telephone Relay Stations: Incidence According to Distance and Sex; July 2002
97. Melanoma Incidence and Frequency Modulation (FM) Broadcasting; January-February 2002
98. Microwaves and Cellular Immunity. Effect of Whole Body Microwaves Irradiation on Tumor Necrosis Factor Production in Mouse Cells; October 1999
99. Effects of Modulated and Continuous Microwave Irradiation on the Morphology and Cell Surface Negative Charge of 3 T 3 Fibroblasts; December 1991
100. Some Behavioral Effects of Short-Term Exposure of Rats to 2.45 GHz Microwave 100. Radiation; 1988
101. Influence of Electromagnetic Fields on the Efflux of Calcium Ions From Brain Tissue

In Vitro: A Three-Model Analysis Consistent with the Frequency Response Up to 510 Hz;
1988

C. Science Articles or Abstracts:

1. The Effects of Electromagnetic Fields on the Number of Ovarian Primordial Follicles: An Experimental Study; June 2015
2. Cell phones and Blood-Brain Barrier: Chinese Scientists Confirm Findings of Swedish Salford group; May 18, 2015
3. Does the Brain Detect 3G Mobile Phone Radiation Peaks? May 11, 2015
4. In Vitro Effect of Cell Phone Radiation on Motility, DNA Fragmentation and Clusterin Gene Expression in Human Sperm; April 21, 2015
5. Use of Mobile Phone During Pregnancy and the Risk of Spontaneous Abortion; April 21, 2015
6. Effects of 2.4 GHz Radiofrequency Radiation Emitted from Wi-Fi- Equipment on MicroRna Expression in Brain Tissue; March 16, 2015
7. RF Cancer Promotion: Animal Study Makes Waves; March 13, 2015
8. Evaluation of Selected Biochemical Parameters in the Saliva of Young Males Using Mobile Phones; March 2015
9. Effect of Cell Phone Use on Salivary Total Protein, Enzymes and Oxidative Stress Markers in Young Adult: A Pilot Study; February 2015
10. New Study: Carrying a Cell Phone in a Backpack Leads to Blood Abnormalities; January 17, 2015
11. Why Children Absorb More Microwave Radiation Than Adults: The Consequences; December 2014
12. Decreased Survival of Glioma Patients with Astrocytoma Grade IV (Glioblastoma Multiforme) Associated with Long-Term Use of Mobile and Cordless Phones; October 16, 2014
13. Effect of Low-Frequency Electromagnetic Field Exposure on Oocyte Differentiation and Follicular Development; January 27, 2014
14. Effect of Mobile Phone Usage Time on Total Antioxidant Capacity of Saliva and Salivary Immunoglobulin A; January 10, 2014
15. Extremely Low-Frequency Electromagnetic Fields Cause DNA Strand Breaks in Normal Cells; January 8, 2014
16. Wi-Fi Technology – An Uncontrolled Global Experiment on the Health of Mankind; June 2013
17. Electromagnetic Fields Act Via Activation of Voltage-Gated Calcium Channels to Produce Beneficial or Adverse Effects; May 20, 2013
18. Microwave Electromagnetic Fields Act by Activating Voltage-Gated Calcium Channels: Why the Current International Safety Standards Do Not Predict Biological Hazard; 2013
19. The Effects of Prenatal Exposure to a 900 Megahertz Electromagnetic Field on Hippocampus Morphology and Learning Behavior in Rat Pups; 2013
20. Fetal Radiofrequency Radiation Exposure from 800-1900 MHz-Rated Cellular Telephones Affects Neurodevelopment and Behavior in Mice; March 15, 2012
21. Exposure to Electromagnetic Fields from Laptop Use of "Laptop" Computers; 2012
22. Use of Laptop Computers Connected to Internet Through Wi-Fi Decreases Human Sperm Motility and Increases Sperm DNA Fragmentation; October 11, 2011
23. Microwave Radiation Affects the Heart; March 7, 2011
24. Cell Phone Radiofrequency Radiation Exposure and Brain Glucose Metabolism; February 23, 2011
25. Wi-Fi Electromagnetic Fields Exert Gender Related Alteration on EEG; 2010
26. Provocation Study Using Heart Rate Variability Shows Microwave Radiation from DECT Phone Affects Autonomic Nervous System; October 23, 2010
27. Laptop Expositions Affect Motility and Induce DNA Fragmentation in Human Spermatozoa in Vitro by a Non-Thermal Effect: A Preliminary Report; September 2010
28. Effects of Laptop Computers' Electromagnetic Field on Sperm Quality; July 31, 2010
29. Effects of Exposure to 2.45 GHz Microwave Radiation on Male Rat Reproductive System; January 6, 2010

Opposition to SB649 by Scientists for Wired Technology, page 7

30. Electromagnetic Fields Stress Living Cells; January 30, 2009
31. Increased Blood-Brain Barrier Permeability in Mammalian Brain 7 Days After Exposure to the Radiation from a GSM-900 Mobile Phone; January 30, 2009
32. 2.45 GHz Low Level CW Microwave Radiation Affects Embryo Implantation Sites and Single Strand DNA Damage in Brain Cells of Mice, Mus Musculus; 2009
33. The Dangers of Electromagnetic Smog; August 2007
34. DNA Strand Breaks in Rat Brain Cells Exposed to Low Level Microwave Radiation; April 2006
35. Non-Thermal Effects of EMF Upon the Mammalian Brain; February 2006
36. Magnetic-Field-Induced DNA Strand Breaks in Brain Cells of the Rat; May 2004
37. Nerve Cell Damage in Mammalian Brain After Exposure to Microwaves from GSM Mobile Phones; January 29, 2003