

REFERENCES

1. MARINO, A.A., Kim, P.Y. and Frilot II, C. Trigeminal neurons detect cellphone radiation: thermal or nonthermal is not the question. *Electromagn. Biol. Med.* Published online ahead of print. doi: 10.1080/15368378.2016.1194294, 2016.
2. Baliatsas, C., van Kamp, I., Bolte, J., Kelfkens, G., van Dijk, C., Spreeuwenberg, P., Hooiveld, M., Lebret, E. and Yzermans, J. Clinically defined non-specific symptoms in the vicinity of mobile phone base stations: a retrospective before–after study. *Sci. Total Environ.* 565:714–720, 2016.
3. Hojo, S., Tokiya, M., Mikuki, M., Kanatani, K.T., Takagi, A., Tsurikisawa, N., Kame, S., Katoh, T., Tsukiuchi, T. and Kumano, H. Development and evaluation of an electromagnetic hypersensitivity questionnaire for Japanese people. *Bioelectromagnetics* doi: 10.1002/bem.21987, 2016.
4. Hillert L. Hypersensitivity to electricity; Symptoms, risk factors and therapeutic interventions. Thesis. Karolinska Institutet, Stockholm.
<https://openarchive.ki.se/xmlui/bitstream/handle/10616/38013/thesis.pdf?sequence=1&isAllowed=y>. Accessed August 4, 2016. 2001
5. Medeiros, L.N. and Sanchez, T.G. Tinnitus and cell phones: the role of electromagnetic radiofrequency radiation. *Braz. J. Otorhinolaryngol.* 82(1):97–104, 2016.
6. Mortazavi, S.M. and Mortazavi, S.A. Tinnitus and cell phones: the role of electromagnetic radiofrequency radiation. *Braz. J. Otorhinolaryngol.* 82(2):248–249, 2016.
7. Bakacak, M., Bostanci, M.S., Attar, R., Yildirim, O.K., Yildirim, G., Bakacak, Z., Sayar, H. and Han, A. The effects of electromagnetic fields on the number of ovarian primordial follicles: an experimental study. *Kaohsiung J. Med. Sci.* 31(6):287–292, 2015.
8. Carpenter, D.O. The microwave syndrome or electro-hypersensitivity: historical background. *Rev. Environ. Health* 30(4):217–222, 2015.
9. Chiu, C.T., Chang, Y.H., Chen, C.C., Ko, M.C. and Li, C.Y. Mobile phone use and health symptoms in children. *J. Formos Med. Assoc.* 114(7):598–604, 2015.
10. Johansson O. Electrohypersensitivity: State-of-the-art of a functional impairment. *Electromagnetic Biol. Med.* 25: 235–258, 2006
11. Ghosn, R., Yahia-Cherif, L., Hugueville, L., Ducorps, A., Lemaréchal, J.D., Thuróczy, G., de Seze, R. and Selmaoui, B. Radiofrequency signal affects alpha band in resting electroencephalogram. *J. Neurophysiol.* 113(7):2753–2759, 2015.
12. Hedendahl, L., Carlberg, M. and Hardell, L. Electromagnetic hypersensitivity—an increasing challenge to the medical profession. *Rev. Environ. Health* 30(4):209–215, 2015.
13. Johansson, O. Electrohypersensitivity: a functional impairment due to an inaccessible environment. *Rev. Environ. Health* 30(4):311–321, 2015.
14. Lerchl, A., Klose, M., Grote, K., Wilhelm, A.F., Spathmann, O., Fiedler, T., Streckert, J., Hansen, V. and Clemens, M. Tumor promotion by exposure to radiofrequency electromagnetic fields below exposure limits for humans. *Biochem. Biophys. Res. Commun.* 459(4):585–590, 2015.
15. Mahmoudabadi, F.S., Ziaei, S., Firoozabadi, M. and Kazemnejad, A. Use of mobile phone during pregnancy and the risk of spontaneous abortion. *J. Environ. Health Sci.*

- Eng. 13:34, 2015.
16. Malkemper, E.P., Eder, S.H., Begall, S., Phillips, J.B., Winklhofer, M., Hart, V. and Burda, H. Magnetoreception in the wood mouse (*Apodemus sylvaticus*): influence of weak frequency-modulated radio frequency fields. *Sci. Rep.* 4:9917, 2015.
 17. Meo, S.A., Alsubaie, Y., Almubarak, Z., Almutawa, H., AlQasem, Y. and Hasanato, R.M. Association of exposure to radio-frequency electromagnetic field radiation (RF-EMFR) generated by mobile phone base stations with glycated hemoglobin (HbA1c) and risk of type 2 diabetes mellitus. *Int. J. Environ. Res. Public Health* 12(11):14519–14528, 2015.
 18. Qi, G., Zuo, X., Zhou, L., Aoki, E., Okamura, A., Watanebe, M., Wang, H., Wu, Q., Lu, H., Tuncel, H., Watanabe, H., Zeng, S. and Shimamoto, F. Effects of extremely low-frequency electromagnetic fields (ELF-EMF) exposure on B6C3F1 mice. *Environ. Health Prev. Med.* 20(4):287–293, 2015.
 19. Rafati, A., Rahimi, S., Talebi, A., Soleimani, A., Haghani, M. and Mortazavi, S.M. Exposure to radiofrequency radiation emitted from common mobile phone jammers alters the pattern of muscle contractions: an animal model study. *J. Biomed. Phys. Eng.* 5(3):133–142, 2015.
 20. Roggeveen, S., van Os, J., Viechtbauer, W. and Lousberg, R. EEG changes due to experimentally induced 3G mobile phone radiation. *PLoS One* 10(6):e0129496, 2015.
 21. Tabrizi, M.M. and Bidgoli, S.A. Increased risk of childhood acute lymphoblastic leukemia (ALL) by prenatal and postnatal exposure to high voltage power lines: a case control study in Isfahan, Iran. *Asian Pac. J. Cancer Prev.* 16(6):2347–2350, 2015.
 22. Zarei, S., Mortazavi, S.M., Mehdizadeh, A.R., Jalalipour, M., Borzou, S., Taeb, S., Haghani, M., Mortazavi, S.A., Shojaei-Fard, M.B., Nematollahi, S., Alighanbari, N. and Jarideh, S. A challenging issue in the etiology of speech problems: the effect of maternal exposure to electromagnetic fields on speech problems in the offspring. *J. Biomed. Phys. Eng.* 5(3):151–154, 2015.
 23. Zhang, Y., Li, Z., Gao, Y. and Zhang, C. Effects of fetal microwave radiation exposure on offspring behavior in mice. *J. Radiat. Res.* 56(2):261–268, 2015.
 24. Zheng, F., Gao, P., He, M., Li, M., Tan, J., Chen, D., Zhou, Z., Yu, Z. and Zhang, L. Association between mobile phone use and self-reported well-being in children: a questionnaire-based cross-sectional study in Chongqing, China. *BMJ Open* 5(5):e007302, 2015.
 25. Carlberg, M. and Hardell, L. Decreased survival of glioma patients with astrocytoma grade IV (glioblastoma multiforme) associated with long-term use of mobile and cordless phones. *Int. J. Environ. Res. Public Health* 11(10):10790–10805, 2014.
 26. Carpenter, D.O. Excessive exposure to radiofrequency electromagnetic fields may cause the development of electrohypersensitivity. *Altern. Ther. Health Med.* 20(6):40–42, 2014.
 27. Choi, S.B., Kwon, M.K., Chung, J.W., Park, J.S., Chung, K. and Kim, D.W. Effects of short-term radiation emitted by WCDMA mobile phones on teenagers and adults. *BMC Public Health* 14:438, 2014.
 28. Frilot II, C., Carrubba, S. and MARINO, A.A. Sensory transduction of weak electromagnetic fields: role of glutamate neurotransmission mediated by NMDA receptors. *Neuroscience* 258:184–191, 2014.
 29. Huang, C.Y., Chuang, C.Y., Shu, W.Y., Chang, C.W., Chen, C.R., Fan, T.C. and Hsu,

- I.C. Distinct epidermal keratinocytes respond to extremely low-frequency electromagnetic fields differently. *PLoS One* 9(11):e113424, 2014.
30. Lamech, F. Self-reporting of symptom development from exposure to radiofrequency fields of wireless smart meters in Victoria, Australia: a case series. *Altern. Ther. Health Med.* 20(6):28–39, 2014.
 31. Liu, H., Chen, G., Pan, Y., Chen, Z., Jin, W., Sun, C., Chen, C., Dong, X., Chen, K., Xu, Z., Zhang, S. and Yu, Y. Occupational electromagnetic field exposures associated with sleep quality: a cross-sectional study. *PLoS One* 9(10):e110825, 2014.
 32. Liu, K., Li, Y., Zhang, G., Liu, J., Cao, J., Ao, L. and Zhang, S. Association between mobile phone use and semen quality: a systemic review and meta-analysis. *Andrology* 2(4):491–501, 2014.
 33. Movvahedi, M.M., Tavakkoli-Golpayegani, A., Mortazavi, S.A., Haghani, M., Razi, Z., Shojaei-Fard, M.B., Zare, M., Mina, E., Mansourabadi, L., Nazari-Jahromi, Safari, A., Shokrpour, N. and Mortazavi, S.M. Does exposure to GSM 900 MHz mobile phone radiation affect short-term memory of elementary school students? *J. Pediatr. Neurosci.* 9(2):121–124, 2014.
 34. Nordin, S., Neely, G., Olsson, D. and Sandström, M. Odor and noise intolerance in persons with self-reported electromagnetic hypersensitivity. *Int. J. Environ. Res. Public Health* 11(9):8794–8805, 2014.
 35. Reale, M., Kamal, M.A., Patruno, A., Costantini, E., D'Angelo, C., Pesce, M. and Greig, N.H. Neuronal cellular responses to extremely low frequency electromagnetic field exposure: implications regarding oxidative stress and neurodegeneration. *PLoS One* 9(8):e104973, 2014.
 36. Redmayne, M. and Johansson, O. Could myelin damage from radiofrequency electromagnetic field exposure help explain the functional impairment electrohypersensitivity? A review of the evidence. *J. Toxicol. Environ. Health B Crit. Rev.* 17(5):247–258, 2014.
 37. Aboul Ezz, H.S., Khadrawy, Y.A., Ahmed, N.A., Radwan, N.M. and El Bakry, M.M. The effect of pulsed electromagnetic radiation from mobile phone on the levels of monoamine neurotransmitters in four different areas of rat brain. *Eur. Rev. Med. Pharmacol. Sci.* 17(13):1782–1788, 2013.
 38. Byun, Y.H., Ha, M., Kwon, H.J., Hong, Y.C., Leem, J.H., Sakong, J., Kim, S.Y., Lee, C.G., Kang, D., Choi, H.D. and Kim, N. Mobile phone use, blood lead levels, and attention deficit hyperactivity symptoms in children: a longitudinal study. *PLoS One* 8(3):e59742, 2013.
 39. Carpenter, D.O. Human disease resulting from exposure to electromagnetic fields. *Rev. Environ. Health* 28(4):159–172, 2013.
 40. Hardell, L., Carlberg, M., Söderqvist, F. and Mild, K.H. Case-control study of the association between malignant brain tumours diagnosed between 2007 and 2009 and mobile and cordless phone use. *Int. J. Oncol.* 43(6):1833–1845, 2013.
 41. Huang, J., Tang, T., Hu, G., Zheng, J., Wang, Y., Wang, Q., Su, J., Zou, Y. and Peng, X. Association between exposure to electromagnetic fields from high voltage transmission lines and neurobehavioral function in children. *PLoS One* 8(7):e67284, 2013.
 42. Mahram, M. and Ghazavi, M. The effect of extremely low frequency electromagnetic fields on pregnancy and fetal growth, and development. *Arch. Iran Med.* 16(4):221–224,

- 2013.
43. MARINO, A.A. Electromagnetic hypersensitivity syndrome revisited again. *Int. J. Neurosci.* 123:593–594, 2013.
 44. Mortazavi, S., Parsanezhad, M., Kazempour, M., Ghahramani, P., Mortazavi, A. and Davari, M. Male reproductive health under threat: short term exposure to radiofrequency radiations emitted by common mobile jammers. *J. Hum. Reprod. Sci.* 6(2):124–128, 2013.
 45. Nordin, S., Palmquist, E., Claeson, A.S. and Stenberg, B. The environmental hypersensitivity symptom inventory: metric properties and normative data from a population-based study. *Arch. Public Health* 71(1):18, 2013.
 46. Redmayne, M., Smith, E. and Abramson, M.J. The relationship between adolescents' well-being and their wireless phone use: a cross-sectional study. *Environ. Health* 12:90, 2013.
 47. Shamsi Mahmoudabadi, F., Ziaei, S., Firoozabadi, M. and Kazemnejad, A. Exposure to extremely low frequency electromagnetic fields during pregnancy and the risk of spontaneous abortion: a case-control study. *J. Res. Health Sci.* 13(2):131–134, 2013.
 48. Umur, A.S., Yaldiz, C., Bursali, A., Umur, N., Kara, B., Barutcuoglu, M., Vatansever, S., Selcuki, D. and Selcuki, M. Evaluation of the effects of mobile phones on the neural tube development of chick embryos. *Turk. Neurosurg.* 23(6):742–752, 2013.
 49. Frei, P., Mohler, E., Braun-Fahrlander, C., Frölich, J., Neubauer, G., Rössli, M. and QUALIFEX-team. Cohort study on the effects of everyday life radio frequency electromagnetic field exposure on non-specific symptoms and tinnitus. *Environ. Int.* 38(1):29–36, 2012.
 50. MARINO, A.A., Carrubba, S. and McCarty, D. Response to Letter to the Editor concerning "Electromagnetic hypersensitivity: evidence for a novel neurological syndrome". *Int. J. Neurosci.* 122(7):402–403, 2012.
 51. Misa Agustíño, M.J., Leiro, J.M., Jorge Mora, M.T., Rodríguez-González, J.A., Jorge Barreiro, F.J., Ares-Pena, F.J. and López-Martín, E. Electromagnetic fields at 2.45 GHz trigger changes in heat shock proteins 90 and 70 without altering apoptotic activity in rat thyroid gland. *Biol. Open* 1(9):831–838, 2012.
 52. Hillert L, Berglind, N., Arnetz, B.B. and Bellander, T. Prevalence of self-reported hypersensitivity to electric or magnetic fields in a population-based questionnaire survey. *Environ. Health* 28: 33–41, 2002
 53. Touitou, Y. and Selmaoui, B. The effects of extremely low-frequency magnetic fields on melatonin and cortisol, two marker rhythms of the circadian system. *Dialogues Clin. Neurosci.* 14(4):381–399, 2012.
 54. Frilot II, C., Carrubba, S. and MARINO, A.A. Transient and steady-state magnetic fields induce increased fluorodeoxyglucose uptake in the rat hindbrain. *Synapse* 65:617–623, 2011.
 55. Seitz H., Stinner, D., Eikmann, T., Herr, C. and Rössli, M. Electromagnetic hypersensitivity and subjective health complaints associated with electromagnetic fields of mobile phone communication—A literature review published between 2000 and 2004. *Sci. Total Environ.* 349:45–55, 2005.
 56. McCarty, D.E., Carrubba, S., Chesson Jr., A.L., Frilot II, C., Gonzalez-Toledo, E. and

- MARINO, A.A. Electromagnetic hypersensitivity: evidence for a novel neurological syndrome. *Int. J. Neurosci.* 121:670–676, 2011.
57. Rööslü, M. and Hug, K. Wireless communication fields and non-specific symptoms of ill health: a literature review. *Wien Med. Wochenschr.* 161(9–10):240–250, 2011.
 58. Volkow, N.D., Tomasi, D., Wang, G.J., Vaska, P., Fowler, J.S., Telang, F., Alexoff, D., Logan, J. and Wong, C. Effects of cell phone radiofrequency signal exposure on brain glucose metabolism. *JAMA* 305(8):808–813, 2011.
 59. Carpenter, D.O. Electromagnetic fields and cancer: the cost of doing nothing. *Rev. Environ. Health* 25(1):75–80, 2010.
 60. Carrubba, S., Frilot II, C., Chesson Jr., A.L. and MARINO, A.A. Mobile-phone pulse triggers evoked potentials. *Neurosci. Lett.* 469:164–168, 2010.
 61. Carrubba, S., Frilot II, C., Chesson Jr., A.L. and MARINO, A.A. Numerical analysis of recurrence plots to detect effect of environmental-strength magnetic fields on human brain electrical activity. *Med. Eng. Phys.* 32(8):898–907, 2010.
 62. Mohler, E., Frei, P., Braun-Fahrlander, C., Frölich, J., Neubauer, G., Rööslü, M. and QUALIFEX Team. Effects of everyday radiofrequency electromagnetic-field exposure on sleep quality: a cross-sectional study. *Radiat. Res.* 174(3):347–356, 2010.
 63. Thomas, S., Heinrich, S., von Kries, R. and Radon, K. Exposure to radio-frequency electromagnetic fields and behavioural problems in Bavarian children and adolescents. *Eur. J. Epidemiol.* 25(2):135–141, 2010.
 64. Carrubba, S., Frilot II, C., Hart, F.X., Chesson Jr., A.L. and MARINO, A.A. The electric field is a sufficient physical determinant of the human magnetic sense. *Int. J. Radiat. Biol.* 85:622–632, 2009.
 65. McKinney H. and K. Crofton. SWI-ES survey. A health study on the prevalence of electro-sensitivity condition. Safe wireless initiative. www.safewirelessinitiative.org, 2007.
 66. Frilot II, C., Carrubba, S. and MARINO, A.A. Magnetosensory function in rats: localization using positron emission tomography. *Synapse* 63:421–428, 2009.
 67. Yilmaz A, Yilmaz N, Serarslan Y, Aras M, Altas M, Özgür T, Sefil F. The effects of mobile phones on apoptosis in cerebral tissue: an experimental study on rats. *Eur. Rev. Med. Pharmacol. Sci.* 18(7):992–1000, 2014.
 68. MARINO, A.A. and Carrubba, S. The effects of mobile-phone electromagnetic fields on brain electrical activity: a critical analysis of the literature. *Electromagn. Biol. Med.* 28(3):250–274, 2009.
 69. MARINO, A.A., Carrubba, S., Frilot, C. and Chesson Jr., A.L. Evidence that transduction of electromagnetic field is mediated by a force receptor. *Neurosci. Lett.* 452:119–123, 2009.
 70. Carrubba, S. and MARINO, A.A. The effects of low-frequency environmental-strength electromagnetic fields on brain electrical activity: a critical review of the literature. *Electromagnetic Biology and Medicine* 27:83–101, 2008.
 71. Woldańska-Okońska M, Czernicki J, Karasek M. The influence of the low-frequency magnetic fields of different parameters on the secretion of cortisol in men. *Int. J. Occup. Med. Environ. Health.* 26:92–101, 2013.
 72. Koyu, A., Cesur, G., Ozguner, F., Akdogan, M., Mollaoglu, H. and Ozen, S. Effects of

- 900 MHz electromagnetic field on TSH and thyroid hormones in rats. *Toxicol. Lett.* 157: 257–262, 2005.
73. Merzenich, H., Schmiedel, S., Bennack, S., Brüggemeyer, H., Philipp, J., Blettner, M. and Schüz, J. Childhood leukemia in relation to radio frequency electromagnetic fields in the vicinity of TV and radio broadcast transmitters. *Am. J. Epidemiol.* 168(10):1169–1178, 2008.
 74. Carrubba, S., Frilot, C., Chesson Jr., A.L. and MARINO, A.A. Nonlinear EEG activation by low-strength low-frequency magnetic fields. *Neurosci. Lett.* 417:212–216, 2007.
 75. Carrubba, S., Frilot, C., Chesson Jr., A.L. and MARINO, A.A. Evidence of a nonlinear human magnetic sense. *Neuroscience* 144:356–367, 2007.
 76. Kolomytkin, O.V., Dunn, S., Hart, F.X., Frilot, C., Kolomytkin, D. and MARINO, A.A. Glycoproteins bound to ion channels mediate detection of electric fields: a proposed mechanism and supporting evidence. *Bioelectromagnetics* 28:379–385, 2007.
 77. Otto, M. and von Mühlendahl, K.E. Electromagnetic fields (EMF): do they play a role in children's environmental health (CEH)? *Int. J. Hyg. Environ. Health* 210(5):635–644, 2007.
 78. Tran, V. The Radiation Control for Health and Safety Act of 1968: History, Accomplishments, and Future (Third Year Paper). Harvard Law School. <http://nrs.harvard.edu/urn-3:HUL.InstRepos:8846732>, 2006. Accessed July 20, 2016.
 79. Feychting, M. Non-cancer EMF effects related to children. *Bioelectromagnetics Suppl.* 7:S69–S74, 2005.
 80. Kantar Gok, D., Akpınar, D., Yargicoglu, P., Ozen, S., Aslan, M., Demir, N., Derin, N. and Agar, A. Effects of extremely low-frequency electric fields at different intensities and exposure durations on mismatch negativity. *Neuroscience* 272:154–166, 2014.
 81. Johansen, C. Electromagnetic fields and health effects—epidemiologic studies of cancer, diseases of the central nervous system and arrhythmia-related heart disease. *Scand. J. Work Environ. Health* 30(Suppl. 1):1–30, 2004.
 82. Rafati, A., Rahimi, S., Talebi, A., Soleimani, A., Haghani, M. and Mortazavi, S.M. Exposure to radiofrequency radiation emitted from common mobile phone jammers alters the pattern of muscle contractions: an animal model study. *J. Biomed. Phys. Eng.* 5(3):133–142, 2015.
 83. MARINO, A.A., Nilsen, E., A.L. Chesson Jr. and Frilot, C. Effect of low-frequency magnetic fields on brain electrical activity in human subjects. *Clin. Neurophysiol.* 115:1195–1201, 2004.
 84. MARINO, A.A., Nilsen, E. and Frilot, C. Nonlinear changes in brain electrical activity due to cell-phone radiation. *Bioelectromagnetics* 24:339–346, 2003.
 85. MARINO, A.A., Nilsen, E. and Frilot, C. Localization of electroreceptive function in rabbits. *Physiol. Behav.* 79:803–810, 2003.
 86. MARINO, A.A., Nilsen, E. and Frilot, C. Consistent magnetic-field induced dynamical changes in rabbit brain activity detected by recurrence quantification analysis. *Brain Res.* 951:301–310, 2002.
 87. Knave, B. Electromagnetic fields and health outcomes. *Ann. Acad. Med. Singapore* 30(5):489–493, 2001.

88. MARINO, A.A., Wolcott, R.M., Chervenak, R., Jourd'heuil, F., Nilsen, E. and Frilot, C. Nonlinear dynamical law governs magnetic field induced changes in lymphoid phenotype. *Bioelectromagnetics* 22:529–546, 2001.
89. MARINO, A.A., Wolcott, R.M., Chervenak, R., Jourd'heuil, F., Nilsen, E., Frilot, C. and Pruett, S.B. Coincident nonlinear changes in the endocrine and immune systems due to low-frequency magnetic fields. *NeuroImmunoModulation* 9:65–77, 2001.
90. Sonnier, H. and MARINO, A.A. Sensory transduction as a proposed model for biological detection of electromagnetic fields. *Electro- and Magnetobiology* 20:153–175, 2001.
91. Staczek, J., MARINO, A.A., Gilleland, L.B., Pizarro, A. and Gilleland, H.E. Low-frequency electromagnetic fields alter the replication cycle of MS2 bacteriophage. *J. Current Microbiology* 36:298–301, 1998.
92. Landry, P.S., Sadasivan, K.K., MARINO, A.A. and Albright, J.A. Electromagnetic fields can affect osteogenesis by increasing the rate of differentiation. *Clin. Orthop. Relat. Res.* 338:262–270, 1997.
93. Mailhes, J.B., Young, D., MARINO, A.A. and London, S.N. Electromagnetic fields enhance chemically-induced hyperploidy in mammalian oocytes. *Mutagenesis* 12(5):347–351, 1997.
94. MARINO, A.A., Bell, G.B. and Chesson, A. Low-level EMFs are transduced like other stimuli. *J. Neurol. Sci.* 144:99–106, 1996.
95. MARINO, A.A. Time-dependent hematological changes in workers exposed to electromagnetic fields. *Am. Ind. Hyg. Assoc. J.* 56(2):189–192, 1995.
96. Bell, G.B., MARINO, A.A. and Chesson, A.L. Frequency-specific responses in the human brain caused by electromagnetic fields. *J. Neurol. Sci.* 123(1–2):26–32, 1994.
97. Bell, G.B., MARINO, A.A. and Chesson, A.L. Frequency-specific blocking in the human brain caused by electromagnetic fields. *Neuroreport* 5(4):510–512, 1994.
98. MARINO, A.A. Electromagnetic fields, cancer, and the theory of neuroendocrine-related promotion. *Bioelectrochem. Bioenerg.* 29:255–276, 1993.
99. Bell, G., MARINO, A., Chesson, A. and Struve, F. Electrical states in the rabbit brain can be altered by light and electromagnetic fields. *Brain Res.* 570(1–2):307–315, 1992.
100. Bell, G.B., MARINO, A.A. and Chesson, A.L. Alterations in brain electrical activity caused by magnetic fields: detecting the detection process. *Electroencephalogr. Clin. Neurophysiol.* 83(6):389–397, 1992.
101. Bell, G.B., MARINO, A.A., Chesson, A.L. and Struve, F.A. Human sensitivity to weak magnetic fields. *Lancet* 338(8781):1521–1522, 1991.
102. MARINO, A.A. Meta-analysis of multi-generational studies in mice exposed to power-frequency electric fields. *J. Bioelectricity* 9:213–231, 1990.
103. MARINO, A.A. Environmental electromagnetic fields and public health, in *Modern Bioelectricity*, A.A. MARINO, Editor. Marcel Dekker: New York. pp. 965–1044, 1988.
104. MARINO, A.A. Direct current and bone growth, in *Modern Bioelectricity*, A.A. MARINO, Editor. Marcel Dekker: New York. pp. 657–709, 1988.
105. MARINO, A.A. Are powerline fields hazardous to health? Probably So. *Public Power* 45:1820, 1987.

106. MARINO, A.A. Health risks from electric power facilities. Presented at International Utility Symposium, Health Effects of Electric and Magnetic Fields, Ontario Hydro, Toronto, Canada, 1986.
107. MARINO, A.A. Electromagnetic energy in the environment and human disease. *Clin. Ecol.* 3(3):154–157, 1985.
108. MARINO, A.A. Electromagnetic fields and public health, in *Assessments and Viewpoints on the Biological and Human Health Effects of Extremely Low Frequency Electromagnetic Fields*. American Institute of Biological Sciences: Arlington, VA. pp. 205–232, 1985.
109. MARINO, A.A. and Morris, D.M. Chronic electromagnetic stressors in the environment: a risk factor in human cancer. *J. Environ. Sci.* C3(2):189–219, 1985.
110. MARINO, A.A., Cullen, J.M., Reichmanis, M., Becker, R.O. and Hart, F.X. Sensitivity to change in electrical environment: a new bioelectric effect. *Am. J. Physiol.* 239(5):R424–R427, 1980.
111. MARINO, A.A., Reichmanis, M., Becker, R.O., Ullrich, B. and Cullen, J.M. Power frequency electric field induces biological changes in successive generations of mice. *Experientia* 36:309–311, 1980.
112. MARINO, A.A., Cullen, J.M., Reichmanis, M. and Becker, R.O. Fracture healing in rats exposed to extremely low-frequency electric fields. *Clin. Orthop. Relat. Res.* 145:239–244, 1979.
113. Reichmanis, M., Perry, F.S., MARINO, A.A. and Becker, R.O. Relation between suicide and the electromagnetic field of overhead power lines. *Physiol. Chem. Phys.* 11(5):395–403, 1979.
114. Becker, R.O. and MARINO, A.A. Electromagnetic pollution. *The Sciences* Jan.:14, 15, 23, 1978.
115. MARINO, A.A., Cullen, J.M., Reichmanis, M. and Becker, R.O. Power frequency electric fields and biological stress: a cause-and-effect relationship. *Eighteenth Annual Hanford Life Sciences Symposium*, Richland, Washington: Technical Information Center, U.S. Department of Energy. Volume 50, pp. 258–276, 1978.
116. MARINO, A.A. and Becker, R.O. Hazard at a distance: effects of exposure to the electric and magnetic fields of high voltage transmission lines. *Med. Res. Eng.* 12(5):6–9, 1977.
117. MARINO, A.A. and Becker, R.O. Biological effects of extremely low frequency electric and magnetic fields: a review. *Physiol. Chem. Phys.* 9(2):131–147, 1977.
118. MARINO, A.A., Berger, T.J., Austin, B.P., Becker, R.O. and Hart, F.X. In vivo bioelectrochemical changes associated with exposure to extremely low frequency electric fields. *Physiol. Chem. Phys.* 9(4–5):433–441, 1977.
119. MARINO, A.A., Becker, R.O. and Ullrich, B. The effect of continuous exposure to low frequency electric fields on three generations of mice: a pilot study. *Experientia* 32(5):565–566, 1976.
120. MARINO, A.A., Berger, T.J., Austin, B.P. and Becker, R.O. Evaluation of electrochemical information transfer system. I. Effect of electric fields on living organisms. *J. Electrochem. Soc.* 123:1199–1200, 1976.
121. Khurana, V.G., Hardell, L., Everaert, J., Bortkiewicz, A., Carlberg, M. and Ahonen, M. Epidemiological Evidence for a Health Risk from Mobile Phone Base Stations. *Int. J.*

- Occup. Environ. Health.16:263–267, 2010.
122. Tang, J., Zhang, Y., Yang, L., Chen, Q., Tan, L., Zuo, S., Feng, H., Chen, Z. and Zhu, G. Exposure to 900 MHz electromagnetic fields activates the mmp-1/ERK pathway and causes blood-brain barrier damage and cognitive impairment in rats. *Brain Res.* 1601:92–101, 2015.
 123. Eltiti, S., Wallace, D., Ridgewell, A., Zoughou, K., Russo, R. Sepulveda, F., Mirshekar-Syahkal, D., Rasor, P., Deeble, R. and Fox, E. Does short-term exposure to mobile phone base station signals increase symptoms in individuals who report sensitivity to electromagnetic fields? *Environ. Health Perspect.* 115:1603–1608, 2007.
 124. Rea, W.J., Pan, Y., Yenyves, E.J., Sujisawa, I., Samadi, N. and Ross, G.H. Electromagnetic field sensitivity. *J. Bioelectricity* 10:241–256, 1991.
 125. Rööslü M., Möser, M., Baldinini, Y., Meier, M. and Braun-Fahrlander, C. Symptoms of ill health ascribed to electromagnetic field exposure—a questionnaire survey. *Int. J. Hyg. Environ. Health.* 207:141–150, 2004.
 126. Rööslü M., Möser, M., Baldinini, Y., Meier, M. and Braun-Fahrlander, C. Symptoms of ill health ascribed to electromagnetic field exposure—a questionnaire survey. *Int. J. Hyg. Environ. Health.* 207:141–150, 2004.
 127. Lamech, F. Self-reporting of symptom development from exposure to radiofrequency fields of wireless smart meters in Victoria, Australia: a case series. *Altern. Ther. Health Med.* 20(6):28–39, 2014.
 128. Qi, G., Zuo, X., Zhou, L., Aoki, E., Okamura, A., Watanebe, M., Wang, H., Wu, Q., Lu, H., Tuncel, H., Watanabe, H., Zeng, S. and Shimamoto, F. Effects of extremely low-frequency electromagnetic fields (ELF-EMF) exposure on B6C3F1 mice. *Environ. Health Prev. Med.* 20(4):287–293, 2015.
 129. Johnson-Liakouris AG. Radiofrequency sickness in the Lillienfeld study: an effect of modulated microwaves? *Arch Environ Health.* 53:236–238, 1998.
 130. Forman, S.A., Holmes, C.K. and McManamon, T.V. Wedding WR. Psychological symptoms and intermittent hypertension following acute microwave exposure. *J. Occup. Med.* 24: 932–934, 1982.
 131. Frey, A.H. Human auditory system response to modulated electromagnetic energy. *J. Appl. Physiol.* 17:689–692, 1962.
 132. Carpenter, D.O. Human disease resulting from exposure to electromagnetic fields. *Rev. Environ. Health.* 28:159–172, 2013.
 133. Kim, J., Hwang, Y., Kang, S., Kim, M., Kim, T.S., Kim, J., Seo, J., Ahn, H., Yoon, S., Yun, J.P., Lee, Y.L., Ham, H., Yu, H.G. and Park, S.K. Association between Exposure to Smartphones and Ocular Health in Adolescents. *Ophthalmic Epidemiol.* 23:269–276, 2016.
 134. Havas, M. Electromagnetic hypersensitivity: biological effects of dirty electricity with emphasis on diabetes and multiple sclerosis. *Electromag. Biol. Med.*25:259–268, 2006.
 135. Eltiti, S., Wallace, D., Zougkou, K., Russo, R., Joseph, S., Rasor, P. and Fox, E. Development and evaluation of the electromagnetic hypersensitivity questionnaire. *Bioelectromagnetics.*28:137–151, 2007.
 136. Schooneveld, H. and Kuiper, J. Dutch Electrohypersensitivity (EHS) Foundation. Electrohypersensitivity (EHS) in the Netherlands—a questionnaire survey. 2007.

- http://www.powerwatch.org.uk/news/20071218_ehs_netherlands.pdf. Accessed August 4, 2016.
137. Austrian Medical Association's EMF Working Group. Guideline of the Austrian Medical Association for the diagnosis and treatment of EMF-related health problems and illnesses (EMF syndrome): consensus paper of the Austrian Medical Association's EMF Working Group.
 138. <http://www.vagbrytaren.org/Guideline%20%20AG-EMF.pdf>. Accessed August 4, 2016.
 139. Electromagnetic and radiofrequency fields effect on human health. American Academy of Environmental Medicine. <https://www.aaemonline.org/pdf/emfpositionstatement.pdf>. Accessed August 4, 2016.
 140. Saili, L., Hanini, A., Smirani, C., Azzouz, I., Azzouz, A., Sakly, M., Abdelmelek, H. and Bouslama, Z. Effects of acute exposure to WIFI signals (2.45 GHz) on heart variability and blood pressure in Albinos rabbit. *Environmental Toxicology and Pharmacology* 40:600–605, 2015.
 141. Schröttner, J. and Leitgeb, N. Sensitivity to electricity—Temporal changes in Austria. *BMC Public Health* 2008, 8:310. Available at: <http://www.biomedcentral.com/content/pdf/1471-2458-8-310.pdf>. Accessed August 4, 2016.
 142. Electromagnetic hypersensitivity. Jamieson, I. European Economic and Social Committee 2014. https://www.dropbox.com/s/yi9blv356so0wbf/IAJ_EMF_BRUSSELS_Revised_0141124A-min.pdf?dl=0. Accessed August, 4, 2016 2014.
 143. EM Radiation Research Trust. Electromagnetic Hypersensitivity. <http://www.radiationresearch.org/campaigns/electromagnetic-hypersensitivity>. 2015.
 144. Hallberg, O. and Oberfeld, G. Will we all become electrosensitive? *Electromag. Biol. Med.* 25 (3):189–191, 2006.