

Wenjun Sun Ph.D. Public and Occupational Health

China

List of EMF Journal Publications

1. **WJ Sun**, YN Yu, H Chiang, YD Fu, and DQ Lu. Effects of 50Hz magnetic fields exposure on protein tyrosine phosphorylation in cultured cell. *Electro- and Magneto biology*, 2001, 20(2):207-214.
2. **WJ Sun**, H Chiang, YD Fu, YN Yu, HY Xie, and DQ Lu. Exposure to 50Hz Electromagnetic Fields Induces the Phosphorylation and Activity of Stress-activated Protein Kinase in Cultured Cells. *Electro- and Magnetobiology*, 2001, 20(3):415-423.
3. **WJ Sun**, YN Yu, H Chiang, YD Fu, HY Xie, and DQ Lu. Exposure to 50Hz Magnetic Fields Does Not Induce the Phosphorylation of SEK1/MKK4 in Cultured Cells. *Electromagnetic Biology and Medicine*, 2002, 21(1): 97-102.
4. Ke XQ, **Sun WJ**, Lu DQ, Fu YT, and Chiang H. 50-Hz magnetic field induces EGF-receptor clustering and activates RAS. *Int J Radiat Biol*, 2008, 84(5):413-420.
5. **Wenjun Sun**, Yaping Gan, Yiti Fu, Deqiang Lu and Huai Chiang. An Incoherent Magnetic Field Inhibited EGF Receptor Clustering and Phosphorylation Induced by a 50-Hz Magnetic Field in Cultured FL Cells. *Cell Physiol Biochem*, 2008, 22(5-6): 507-514.
6. **Sun W**, Tan Q, Pan Y, Fu Y, Sun H, Chiang H. Effects of 50-Hz magnetic field exposure on hormone secretion and apoptosis-related gene expression in human first trimester villous trophoblasts in vitro. *Bioelectromagnetics*, 2010, 31(7):566-572.
7. **Wenjun Sun**, Qiu Tan, Yongmiao Pan, Yiti Fu, Dan Zhang, Deqiang Lu, Huai Chiang. Superimposition of an Incoherent Magnetic Field Eliminated the Inhibition of Hormone Secretion Induced by a 50-Hz Magnetic Field in Human Villous Trophoblasts in vitro. *Cell Physiol Biochem*, 2010, 26 (4-5):793-798. **SCI IF**
8. **Wenjun Sun**, Xiuying Shen, Dongbo Lu, Yiti Fu, Deqiang Lu, & Huai Chiang. A 1.8-GHz radiofrequency radiation induces EGF receptor clustering and phosphorylation in cultured human amniotic (FL) cells. *Int J Radiat Biol*, 2012 Mar 88(3):239-244.
9. Nittby H, Moghadam MK, **Sun W**, Malmgren L, Eberhardt J, Persson BR, Salford LG. Analgetic effects of non-thermal GSM-1900 radiofrequency electromagnetic fields in the land snail *Helix pomatia*. *Int J Radiat Biol*, Mar 2012; 88 (3): 245-252.
10. **WJ Sun**, M. Kaviani Mogadam, M. Sommarin, H. Nittby, L.G. Salford, B.R.R. Persson and J.L. Eberhardt. Calcium Efflux of Plasma Membrane Vesicles exposed to ELF Magnetic Fields - Test of a Nuclear Magnetic Resonance Interaction Model. *Bioelectromagnetics*, 2012; 33(7):535-542.
11. **Wenjun Sun**, Xiuying Shen, Dongbo Lu, Deqiang Lu, & Huai Chiang. Superposition of an incoherent magnetic field inhibited EGF receptor clustering and phosphorylation induced by a 1.8 GHz pulse-modulated radiofrequency radiation. *Int J Radiat Biol*, 2013, 89(5): 378-383.
12. Ahui Dai, **Wenjun Sun**. Mechanisms of NADPH Oxidase Biological Effects in The Electromagnetic Radiation. *PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS*, 2014, 41(12): 1222-1227.
13. Baihuan Feng, Liping Qiu, Chunmei Ye, Liangjing Chen, Yiti Fu and **Wenjun Sun**. Exposure to a 50-Hz magnetic field induced mitochondrial permeability transition through the

- ROS/GSK-3 β signaling pathway. *Int J Radiat Biol*, 2016, Mar;92(3):148-155.
14. Liping Qiu, Baihuan Feng, Zuowei Ni, Xiaodan Wu, and **Wenjun Sun**. Exposure to a 50-Hz magnetic field induced ceramide generation in cultured cells. *Int J Radiat Biol*, 2016, Apr;92(4):215-221.
 15. Yong Wang, Xingwen Li, Liyuan Sun, Baihuan Feng, and **Wenjun Sun**. Acid sphingomyelinase mediates 50-Hz magnetic field-induced EGF receptor clustering on lipid raft. *J Recept Signal Transduct*, 2016,36(6):593-600.
 16. Baihuan Feng, Chunmei Ye, Liping Qiu, Liangjing Chen, Yiti Fu, **Wenjun Sun**. Mitochondrial ROS release and subsequent Akt activation potentially mediated the anti-apoptotic effect of a 50-Hz magnetic field on FL cells. *Cell Physiol Biochem*, 2016,38(6):2489-2499.
 17. Baihuan Feng, Ahui Dai, Liangjing Chen, Liping Qiu, Yiti Fu, **Wenjun Sun**. NADPH oxidase-produced superoxide mediated a 50-Hz magnetic field-induced epidermal growth factor receptor clustering. *Int J Radiat Biol*, 2016,92(10): 596-602.
 18. Liyuan Sun, Liangjing Chen, Lina Bai, Yongpeng Xia, Xiaobo Yang, Wei Jiang*, **Wenjun Sun***. Reactive oxygen species mediates 50-Hz magnetic field-induced EGF receptor clustering via acid sphingomyelinase activation. *Int J Radiat Biol*, 2018, 94 (7): 678-684.
 19. Qiu Liping, Chen Liangjing, Yang Xiaobo, Ye Anfang, Fu Yiti, Jiang Wei*, **Wenjun Sun***. S1P mediated human amniotic cells proliferation induced by a 50-Hz magnetic field via ERK1/2 signaling pathway. *J Cell Physiol*, 2019, 234:7734-7741.
 20. Xiaobo Yang, Anfang Ye, Liangjing Chen, Yongpeng Xia, Wei Jiang* and **Wenjun Sun***. Involvement of calcium in 50-Hz magnetic fields-induced activation of sphingosine kinase 1 (one) signaling pathway. *Bioelectromagnetics*, 2019, 40: 180-187.
 21. Liangjing Chen, Yongpeng Xia, Jingchun Lu, Qixin Xie, Anfang Ye*, **Wenjun Sun***. A 50-Hz magnetic field exposure promotes human amniotic cells proliferation via SphK-S1P-S1PRs-ERK signaling pathway. *Ecotox Environ Safe*, 2020, 194: 110407.
 22. Liangjing Chen #, Anfang Ye #, Xiaochen Liu, Jingchun Lu, Qixin Xie, Yixin Guo, **Wenjun Sun***. Combined effect of co-exposure to Di (2-ethylhexyl) phthalates and 50-Hz magnetic-fields on promoting human amniotic cells proliferation. *Ecotox Environ Safe*, 2021, 224: 112704.
 23. Anfang Ye, Xiaochen Liu, Liangjing Chen, Yongpeng Xia, Xiaobo Yang*, **Wenjun Sun***. Endogenous Ca²⁺ release was involved in 50Hz MF-induced proliferation via Akt-SK1 signal cascade in human amniotic epithelial cells. *Electromagn Biol Med*, 2022, 41(2): 142-151.