

# Curriculum vitae

## NAME

Guangdi Chen

## CONTACT DETAILS

## DEGREES

09/2002-06/2007

Ph.D, Zhejiang University School of Medicine

Speciality: Occupational Health and Environmental Health

09/1997-07/2002

Bachelor in Medicine, Zhejiang University School of Medicine

Speciality: Preventive Medicine

## CURRENT AND PRIOR POSITIONS

### 12/2015-Present

Professor, Zhejiang University School of Medicine

Bioelectromagnetics Laboratory, Institute of Environmental Health, Zhejiang University School of Public Health

### 03/2011-12/2015

Associate Professor, Zhejiang University School of Medicine

Bioelectromagnetics Laboratory, Institute of Environmental Health, Zhejiang University School of Public Health

### 12/2007- 03/2011

Post-doc Research Fellow, University of British Columbia

Department of Dermatology, Faculty of Medicine

### 07/2007-11/2007

Research Assistant, Zhejiang University School of Medicine

Bioelectromagnetics Laboratory, Institute of Environmental Health, Zhejiang University School of Public Health

## CURRENT SCIENTIFIC ACTIVITY

### Research Interests:

#### 1. Investigation on the cellular response to environmental EMF exposure.

Position: Vice Director, Bioelectromagnetics Laboratory, Zhejiang University School of Medicine

#### 2. Investigation on the effects of prenatal exposure to chemicals on health effects in offsprings.

Position: Vice Dean, Zhejiang University School of Public Health

### Committee Members:

Board of Directors, 2018-2021, The Bioelectromagnetics Society <https://bems.org/society/bod/now/bod/2017>

Vice Director, 2018-2021, Technical Committee on Bioelectromagnetics, Chinese Society of Biomedical Engineering (CSBME)

Member, 2018-2021, Technical Committee on Radiation and Environment, Biophysical Society of China (BSC)

Associate Editor, Bioelectromagnetics

## RELEVANT SCIENTIFIC PUBLICATIONS

### 2020

1. Qiong Luo<sup>#</sup>, Hao Zhao<sup>#</sup>, Ying Jiang, Jing Guo, Na Lv, Jun Tang, Shuai Li, Dan Zhang\*, Rongpan Bai\*, **Guangdi Chen\***. Association of blood metal exposure with testosterone and hemoglobin: A cross-sectional study in Hangzhou Birth Cohort Study. *Environ Int.* 2020 Mar; 136: 105451. doi: 10.1016/j.envint.2019. 105451. PMID: 31924581
2. Liling Su, Longtao Zhu, **Guangdi Chen\***. Residence near power lines and risk of Alzheimer's dementia and Parkinson's disease. *Int J Epidemiol.* 2020 Mar; In press.
3. Liling Su, Longtao Zhu, Zhenchao Liu, Jianyao Lou, Bing Han, Chen Lin, Dongyu Li, Jun Qian, Xinyuan Zhao\*, **Guangdi Chen\***. The decreased permittivity of zebrafish embryos culture medium by magnetic fields did not affect early development of zebrafish embryos. *Ecotox and Environ Safe.* 2020 Mar; In press.
4. Yue Fei, Yumin Jin, Xinyuan Zhao, Yiqin Wang, Jun Qian, Liling Su\*, **Guangdi Chen\***. The Relative Permittivity Changes of EGF by 50 Hz MF Exposure Neither Affect the Interaction of EGF With EGFR Nor Its Biological Effects. *Bioelectromagnetics.* 2020 Jan 17. doi: 10.1002/bem.22249. PMID: 31951053

## 2019

5. Hao Zhao<sup>#</sup>, Wei Gui<sup>#</sup>, Hongjuan Huang, Yue Liu, Hui Ding, Wenyan Fan, Shaoxin Huang, Wanshui Yang\*, Xin Wang\*, Guangdi Chen\*. Association of long-term sleep habits and hypertension: a cross-sectional study in Chinese adults. *J Hum Hypertens*. 2019 Aug 20. PMID: 31431681
6. Liling Su, Yumin Jin, Haifeng Lou, **Guangdi Chen\***. RE: "Associations of electric shock and extremely low-frequency magnetic field exposure with the risk of amyotrophic lateral sclerosis: the EURO-MOTOR project". *Am J Epidemiol*. 2019 Sep 1;188(9):1753-1759. PMID: 31150043
7. Yue Fei, Liling Su, Haifeng Lou, Chuning Zhao, Yiqin Wang, **Guangdi Chen\***. The effects of 50 Hz magnetic field-exposed cell culture medium on cellular functions in FL cells. *J Radiat Res*. 2019 Jul 1;60(4):424-431. PMID: 31111909.
8. Xinyuan Zhao, Saisai Wei, Zhijian Li, Chen Lin, Zhenfeng Zhu, Desen Sun, Rongpan Bai, Jun Qian, Xiangwei Gao\*, **Guangdi Chen\***, Zhengping Xu\*. Autophagic flux blockage in alveolar epithelial cells is essential in silica nanoparticle-induced pulmonary fibrosis. *Cell Death Dis*. 2019 Feb 12;10(2):127. PMID: 30755584.

## 2018

9. Jing Guo, Na Lv, Jun Tang, Xue Zhang, Lihe Peng, Xiaopu Du, Shuai Li, Qiong Luo, Dan Zhang, **Guangdi Chen\***. Associations of blood metal exposure with thyroid hormones in Chinese pregnant women: A cross-sectional study. *Environ Int*. 2018 Dec;121(Pt 2):1185-1192. PMID: 30385064
10. Chuan Sun, XiaoxiaWei, Aziguli Yimaer, Zhengping Xu\*, **Guangdi Chen\***. Ataxia Telangiectasia Mutated Deficiency Does Not Result in Genetic Susceptibility to 50 Hz Magnetic Fields Exposure in Mouse Embryonic Fibroblasts. *Bioelectromagnetics*. 2018 Sep;39(6):476-484. PMID: 30091795
11. Liling Su, Chuning Zhao, Yumin Jin, Ying Lei, Liqin Lu\*, **Guangdi Chen\***. Association between parental occupational exposure to extremely low frequency magnetic fields and childhood nervous system tumors risk: A meta-analysis. *Sci Total Environ*. 2018 Nov 15; 642:1406-1414. PMID: 30045521

12. Jing Guo, Yun Huang, Suchen Bian, Chuning Zhao, Yumin Jin, Dongdong Yu, Xinkai Wu, Dan Zhang, Weiming Cao, Fangyuan Jing\*, **Guangdi Chen\***. Associations of urinary polycyclic aromatic hydrocarbons with bone mass density and osteoporosis in U.S. adults, NHANES 2005-2010. *Environ Pollut.* 2018 Sep; 240:209-218. PMID: 29738949
13. Liling Su, Aziguli Yimaer, Zhengping Xu, **Guangdi Chen\***. Effects of 1800 MHz RF-EMF exposure on DNA damage and cellular functions in primary cultured neurogenic cells. *Int J Radiat Biol.* 2018 Mar;94(3):295-305. PMID: 29368975

## 2017

14. Liling Su, Xiaoxia Wei, Zhengping Xu\*, **Guangdi Chen\***. RF-EMF exposure at 1800 MHz did not elicit DNA damage or abnormal cellular behaviors in different neurogenic cells. *Bioelectromagnetics.* 2017 Apr;38(3):175-185. PMID: 28026047
15. Liling Su, Aziguli Yimaer, Xiaoxia Wei, Zhengping Xu, **Guangdi Chen\***. The effects of 50 Hz magnetic field exposure on DNA damage and cellular functions in various neurogenic cells. *J Radiat Res.* 2017 Mar 21:1-13. PMID: 28369556
16. Jing Guo, Dongdong Yu, Na Lv, Rongpan Bai, Chunjing Xu, **Guangdi Chen\***, Weiming Cao\*. Relationships between acrylamide and glycidamide hemoglobin adduct levels and allergy-related outcomes in general US population, NHANES 2005-2006. *Environ Pollut.* 2017 Jun; 225:506-513. PMID: 28325597
17. Muxiong Chen, Wenpan Fang, Xinkai Wu, Shuchen Bian, **Guangdi Chen\***, Liqin Lu\*, Yu Weng\*. Distinct effects of rs895819 on risk of different cancers: an update meta-analysis. *Oncotarget.* 2017 Apr 27. PMID: 28504960

## 2016

18. Liling Su, Yue Fei, Xiaoxia Wei, Jing Guo, Xiangen Jiang\*, Liqin Lu\*, **Guangdi Chen\***. Associations of parental occupational exposure to extremely low-frequency magnetic fields with childhood leukemia risk. *Leuk Lymphoma.* 2016 Dec;57(12):2855-2862 (\*Co-corresponding Authors) PMID: 27054704
19. Jing Guo, Liling Su, Xinyuan Zhao, Zhengping Xu, **Guangdi Chen\***. Relationships between urinary antimony levels and both mortalities and prevalence of cancers and heart diseases

- in general US population, NHANES 1999-2010. *Sci Total Environ*. 2016 Nov 15; 571: 452-60. (\*Co-corresponding Authors) PMID: 27396316
20. Chuan Sun, Xiaoxia Wei, Yue Fei, Liling Su, Xinyuan Zhao, **Guangdi Chen\***, Zhengping Xu\*. Mobile phone signal exposure triggers a hormesis-like effect in *Atm<sup>+/+</sup>* and *Atm<sup>-/-</sup>* mouse embryonic fibroblasts. *Sci Rep*. 2016 Nov 18; 6: 37423. PMID: 27857169
21. Dongyu Li, Xinyuan Zhao, Wei Qin, Hequn Zhang, Yue Fei, Liwei Liu, Ken-Tye Yong, **Guangdi Chen\***, Ben Zhong Tang\*, Jun Qian\*. Toxicity assessment and long-term three-photonfluorescence imaging of bright aggregation-inducedemission nanodots in zebrafish. *Nano Research* 2016, 9(7): 1921-1933.
22. Li Jiang, Xinyuan Zhao, Yue Fei, Dongdong Yu, Jun Qian, Jinguang Tong, **Guangdi Chen\***, Sailing He\*. The effects of magnetic fields exposure on relative permittivity of saline solutions measured by a high resolution SPR system. *Sci Rep*. 2016 Apr 28; 6: 25111. PMID: 27121618

## 2015

23. Rongpan Bai, Chunhua Weng, Haojie Dong, Siqi Li, **Guangdi Chen\***, Zhengping Xu\*. MicroRNA-409-3p suppresses colorectal cancer invasion and metastasis partly by targeting GAB1 expression. *Int J Cancer*. 2015 Nov 15; 137(10): 2310-22. (\*Co-corresponding Authors) PMID: 25991585
24. Wen Sun, Liling Su, Yan Sheng, Ye Shen\*, **Guangdi Chen\***. Is there association between Glutathione S Transferases polymorphisms and cataract risk: a meta-analysis? *BMC Ophthalmology*. 2015 Jul 26; 15: 84. (\*Co-corresponding Authors) PMID: 26208492
25. Yongdui Chen, Siqi Li, Liling Su, Jinghao Sheng, Wen Lv, **Guangdi Chen\***, Zhengping Xu\*. Association of progranulin polymorphism rs5848 with neurodegenerative diseases: a meta-analysis. *J Neurol*. 2015 Apr;262(4):814-22. PMID: 25578179

## 2014

26. Rongpan Bai, Yu Weng, Lilin Su, Mingjuan Jin, Zhengping Xu, Liqin Lu\*, **Guangdi Chen\***. Association of a Pre-miR-27a Polymorphism with Cancer Risk: an Updated Meta-analysis.

Asian Pac J Cancer Prev. 2014;15(23):10107-14. (\*Co-corresponding Authors) PMID: 25556434

27. Wen Sun, Yan Sheng, Yu Weng, Chunxiao Xu, Susan EI Williams, Yutao Liu, Michael A Hauser, R. Rand Allingham, Mingjuan Jin, **Guangdi Chen\***. Lack of association between *lysyl oxidase-like 1* polymorphisms and primary open angle glaucoma: a meta-analysis. Int J Ophthalmol. 2014, 7(3): 550-556. PMID: 24967207
28. Jinghao Sheng, Liling Su, Zhengping Xu, **Guangdi Chen\***. *Progranulin* polymorphism rs5848 is associated with increased risk of Alzheimer's disease. Gene. 2014, 542(2):141-5. PMID: 24680777

### 2013

29. Meibian Zhang, Xinglin Fang, Lifang Zhou, Liling Su, Jiajia Zheng, Minjuan Jin, Hua Zou\*, **Guangdi Chen\***. Pesticide poisoning in Zhejiang, China: a retrospective analysis of adult cases registration by occupational disease surveillance and reporting systems from 2006 to 2010. BMJ Open 2013; 3: e003510. (\*Co-corresponding Authors) PMID: 24270833
30. Shanshan Xu, **Guangdi Chen**, Chunjing Chen, Chuan Sun, Dandan Zhang, Manuel Murbach, Niels Kuster, Qunli Zeng\*, Zhengping Xu\*. Cell Type-Dependent Induction of DNA Damage by 1800 MHz Radiofrequency Electromagnetic Fields Does Not Result in Significant Cellular Dysfunctions. PLoS One. 2013; 8 (1): e54906. (\*Co-corresponding Authors). PMID: 23355902
31. Yibo Yu, Yu Weng, Jing Guo, **Guangdi Chen\***, Ke Yao\*. Association of Glutathione S transferases Polymorphisms with Glaucoma: A Meta-Analysis. PLoS One. 2013; 8 (1): e54037. (\*Co-corresponding Authors). PMID: 23342067

### 2012

32. **Guangdi Chen**, Yabin Cheng, Yun Tang, Magda Martinka, Gang Li\*. Role of Tip60 in Human Melanoma Cell Migration, Metastasis, and Patient Survival. J Invest Dermatol. 2012 Nov; 132 (11): 2632-2641. PMID: 22673729
33. **Guangdi Chen**, Deqiang Lu, Huai Chiang, Dariusz Leszczynski D, Zhengping Xu\*. Using model organism *Saccharomyces cerevisiae* to evaluate the effects of ELF-MF and RF-EMF

exposure on global gene expression. *Bioelectromagnetics*. 2012 Oct; 33 (7): 550-560. PMID: 22487891.

34. Yu Weng, Liqin Lu, Guorong Yuan, Jing Guo, Zhizhong Zhang, Xinyou Xie, **Guangdi Chen\***, Jun Zhang\*. p53 codon 72 polymorphism and Hematological Cancer Risk: An Update Meta-Analysis. *PLoS One*. 2012 Sep; 7 (9): e45820. (\*Co-corresponding Authors). PMID: 23029260.
35. Gang Wang\*, Lingyan Zheng, Zhijian Yu, Guodong Liao, Liqin Lu, Rujun Xu, Zhongsheng Zhao, **Guangdi Chen\***. Increased cyclin-dependent kinase 6 expression in bladder cancer. *Oncology Letters*. 2012 Jul; 4 (1): 43-46. (\*Co-corresponding Authors). PMID: 22807957.
36. Yu Weng, Jun Zhang, Xue Tang, Xinyou Xie\*, **Guangdi Chen\***. Thymidylate synthase polymorphisms and hematological cancer risk: a meta-analysis. *Leuk Lymphoma*. 2012 Jul; 53 (7): 1345-1351. PMID: 22166040 (\*Co-corresponding Authors)

## 2011

37. **Guangdi Chen**, Yabin Cheng, Zhizhong Zhang, Magdalena Martinka, Gang Li\*. Prognostic significance of cytoplasmic p27 expression in human melanoma. *Cancer Epidemiol Biomarkers Prev*. 2011 Oct; 20(10): 2212-2221. PMID: 21828232
38. **Guangdi Chen**, Yabin Cheng, Magdalena Martinka, Gang Li\*. Cytoplasmic Skp2 Expression Is Increased in Human Melanoma and Correlated with Patient Survival. *PLoS One*. 2011 Feb; 6(2): e17578. PMID:21386910

## 2010

39. **Guangdi Chen**, Yabin Cheng, Magdalena Martinka, Gang Li\*. Cul1 expression is increased in early stages of human melanoma. *Pigment Cell Melanoma Res*. 2010 Aug; 23 (4): 572-574. PMID: 20518860
40. **Guangdi Chen**, Gang Li\*. Increased Cul1 expression promotes melanoma cell proliferation through regulating p27 expression. *Int J Oncol*. 2010 Nov; 37(5):1339-1344. PMID: 20878082
41. **Guangdi Chen**<sup>#</sup>, Yemin Wang<sup>#</sup>, Marco Garate, Jianwei Zhou, Gang Li\*. The tumor suppressor ING3 is degraded by SCF (Skp2)-mediated ubiquitin-proteasome system. *Oncogene*. 2010 Mar; 29(10):1498-1508. PMID: 19935701 (<sup>#</sup> Co-first authors)

## 2006-2009

42. Yibo Yu, Ke Yao\*, Wei Wu, K Wang, **Guangdi Chen**, Deqiang Lu. Effects of exposure to 1.8 GHz radiofrequency field on the expression of Hsps and phosphorylation of MAPKs in human lens epithelial cells. *Cell Res.* 2008 Dec; 18(12):1233-1235. PMID: 19015670
43. Qunli Zeng#, **Guangdi Chen**#, Yu Weng, Lingli Wang, Huai Chiang, Deqiang Lu, ZhengpingXu\*. Effects of Global System for Mobile Communications 1800 MHz radiofrequency electromagnetic fields on gene and protein expression in MCF-7 cells. *Proteomics* 2006 Sep; 6 (17): 4732-4738. PMID: 16888767 (# Co-first authors)

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