

孟紫强简历

孟紫强，男，1939年2月26日出生，山西省临汾人，医学硕士。山西大学环境科学与工程研究中心主任、山西大学环境医学与毒理学研究所所长、教授、博士生导师。享受政府特殊津贴。

学历：1966年6月毕业于山西大学生物系植物生理专业，1980年7月毕业于天津医科大学生物化学专业，获医学硕士学位。1989.2—1990.3，英国牛津大学药学系毒理学研究室高级访问学者；1991.11—1992.10，德国汉堡大学环境与职业毒理学研究室客座研究员；1995—1996，美国德克萨斯大学医学分院环境毒理学研究所高级访问学者。



主要学术兼职：美国纽约科学院院士(member)、美国国家科学技术促进协会会员、国际DNA修复研究学会理事、中国毒理学会理事、中华医学微量元素学会理事等，多种环境医学与毒理学类期刊编委。

学科专业：环境医学与环境毒理学；

科研方向：二氧化硫及金属元素毒理学与生理学、沙尘暴与健康、大骨节病、放射生物学；

课题研究：主持国家自然科学基金重点项目1项、面上项目5项，省自然基金和留学基金7项。

研究成果：发表专著3部、教材2部、科研论文300余篇、被SCI收录论文70余篇；获教育部科技进步奖二、三等奖各1项、山西省科技进步奖一、二、三等奖各1、4、3项；国家发明、实用专利各1项。

近年发表著作、科研论文目录：

主要著作：

孟紫强主编，《环境毒理学》，中国环境科学出版社，2000年。

孟紫强主编，《生态毒理学原理与方法》，科学出版社，2006年。

孟紫强主编，《环境毒理学基础》（“十五”国家级规划大学本科生教材）高等教育出版社，2003年。

孟紫强主编，《生态毒理学》（“十一五”国家级规划大学本科生教材）高等教育出版社，2009年。

孟紫强主编,《生活方式与健康》, 科学技术普及出版社, 2009.

孟紫强编著,《大骨节病》, 山西人民出版社, 1984.

主要科研论文:

- Meng ZQ, Li JL, Zhang QX, Bai WM, Yang ZH, Zhao Y, Wang FQ. 2009. Vasodilator effect of gaseous sulfur dioxide and regulation of its level by ACh in rat vascular tissues, *Inhal Toxicol*, 21(14):1223-1228
- Li JL, Meng ZQ*. 2009. The role of sulfur dioxide as an endogenous gaseous vasoactive factor in synergy with nitric oxide. *Nitric Oxide*, 20:166-174
- Zhang QX, Meng ZQ*. 2009. The vasodilator mechanism of sulfur dioxide on isolated aortic rings of rats: Involvement of the K⁺ and Ca²⁺ channels. *Eur J Pharmacol*, 602: 117-123
- Xie JF, Li RJ, Fan RJ, Meng ZQ*. 2009. Effects of sulfur dioxide on expressions of p53,bax and bcl-2 in lungs of asthmatic rats, *Inhal Toxicol*, 21(11):952-957
- Qin GH, Meng ZQ*. 2009. Effects of sulfur dioxide derivatives on expression of oncogenes and tumor suppressor genes in human bronchial epithelial cells. *Food Chem Toxicol*, 47(4):734-744
- Li RJ, Meng ZQ*, Xie JF, 2008. Effects of sulfur dioxide on the expressions of EGF, EGFR, and COX-2 in airway of asthmatic rats. *Arch Environ Contam Toxicol*, 54:748-757.
- Nie AF, Meng ZQ*, 2007. Sulfur dioxide derivatives modulate Na/Ca exchange currents and cytosolic [Ca₂]_i in rat myocytes. *Biochem Biophys Res Commun*, 358(3):879-84
- Meng ZQ, Zhang HF, 2007. The vasodilator effect and its mechanism of sulfur dioxide-derivatives on isolated aortic rings of rats. *Inhal Toxicol*, 19(11):979-86.
- Meng ZQ, Li Y, Li JL, 2007. Vasodilatation of sulfur dioxide derivatives and signal transduction. *Arch Biochem Biophys*. 467(2):291-6.
- Meng ZQ, Zhang QX, 2007. Damage Effects of dust storm PM2.5 on DNA in alveolar macrophages and lung cells of rats. *Food and Chemical Toxicology*, 45: 1368-1374.
- Meng ZQ, Liu Y X, 2007. Cell morphological ultrastructural changes in various organs from mice exposed by inhalation to sulfur dioxide.. *Inhal Toxicol*. 19(6-7):543-51
- Meng ZQ, Lu B. 2007. Dust events as a risk factor for daily hospitalization for respiratory and cardiovascular diseases in Minqin, China. *Atmospheric*

- Enviornment, 41: 7048-7058.
- Li RJ, Meng ZQ*. 2007. Effects of SO₂ derivatives on expressions of MUC5AC and IL-13 in human bronchial epithelial cells. Arch Toxicol. 81(12):867-874
- Li RJ, Meng ZQ*, Xie JF. 2007. Effects of sulfur dioxide derivatives on four asthma-related gene expressions in human bronchial epithelial cells. Toxicol Lett. 175(1-3):71-81.
- Li RJ, Meng ZQ*, Xie JF. 2007. Effects of sulfur dioxide on the expressions of MUC5AC and ICAM-1 in airway of asthmatic rats. Regul Toxicol Pharmacol. 48(3):284-291
- Xie JF, Fan RJ, Meng ZQ*. 2007. Protein oxidation and DNA-protein crosslink induced by sulfur dioxide in lungs, livers, and hearts from mice. Inhal Toxicol, 19: 759-765
- Nie AF, Meng ZQ*. 2006. Modulation of L-type calcium current in rat cardiac myocytes by sulfur diokicte derivatives. Food and Chem Toxicol, 44: 355-363.
- Geng H, Meng ZQ*. 2006. Inhibition of superoxide dismutase, vitamin C and glutathione on chemiluminescence produced by luminol and the mixture of sulfite and bisulfite. Spectrochemica Acta Part A, 64: 87-92.
- Qin GH, Meng ZQ*. 2006. The expressions of protooncogenes and CYP1A in lungs of rats exposed to sulfur dioxide and benzo(α)pyrene. Regulatory Toxicol and Pharmacol, 45: 36-43.
- Geng H, Meng ZQ*, Zhang QX. 2006. In vitro responses of rat alveolar macrophages to particle suspensions and water-soluble components of dust storm PM2.5. Toxicology In Vitro, 20: 575-584
- Meng ZQ*, Zhang QX. 2006. Oxidative damage of dust storm fine particles on lungs, hearts and livers of rats. Environ Toxicol Pharmacol. 22: 277-282
- Wei AL, Meng ZQ*. 2006. Evaluation of micronucleus induction of sand dust storm fine particles (PM2.5) in human blood lymphocytes. Environ Toxicol Pharmacol. 22: 292-297
- Ziqiang Meng, Xin Zhang, Ruirjin Li, Levels of sulfite in three organs from mice exposed to sulfur dioxide , Inhal Toxicol,2005, 17(6):309-13
- Meng ZQ, Liu YX, WU DM, 2005. Effect of sulfur dioxide inhalation on cytokine levels in lungs and serum of mice , Inhal Toxicol, 17(6):303-7
- Meng ZQ, Nie AF, 2005. Enhancement of sodium metabisulfile on sodium

concents in acutely isolated rat hippocampal CA1 neurons, Environ Toxicol Pharmacol, 20(1):35-41

Geng H, Meng ZQ*, Zhang QX. 2005. Effects of blowing sand fine particles on plasma membrane permeability and fluidity and intracellular calcium levels of rat alveolar macrophages , Toxicol Let, 157:129-137

Meng ZQ, Qin GH, Zhang B, 2005. DNA damage in mice treated with sulfur dioxide by inhalation. Environ Mol Mutagen, 46:150-155

Meng ZQ, Nie AF. 2005. Effects of sodium metabisulfite on potassium currents in acutely isolated CA1 pyramidal neurons of rat hippocampus, Food Chem Toxicol, 43(2):225-232

Du ZQ, Meng ZQ*. 2004. Modulation of sodium current in rat dorsal root ganglion neurons by sulfur dioxide derivatives. Brain Res.1010: 127-133.

Zhang B, Nie AF, Bai W, Meng ZQ*. 2004. Effects of aluminum chloride on sodium current, ransient outward potassium current and delayed rectifier potassium current in acutely isolated rat hippocampal CA1 neurons. Food Chem Toxicol, 42: 1453-62

Meng ZQ, Qin GH, Zhang B, 2004. DNA damaging effects of sulfur dioxide derivatives in cells from various organs of mice. Mutagenesis, 119(6):465-8

Meng ZQ, Geng H, Bai JL,Yan GH. 2003. Blood pressure of rats lowered by sulfur dioxide and its derivatives, Inhal Toxicol, 15:951

Meng Z. 2003. Oxidative damage of sulfur dioxide on various organs of mice: sulfur dioxide is a systemic oxidative damage agent. Inhal Toxicol. 15: 181-195.

Meng ZQ, Qin GH, Zhang B. 2003. Oxidative damage of sulfur dioxide inhalation on lungs and hearts of mice. Environ Res, 93: 285-292

- Meng ZQ, Zhang B, Qin GH, 2003. Sulfur dioxide is a systemic oxidative damage agent. *Toxicology*. 191 (1) : 28.
- Meng ZQ, Zhang B, Ruan AD, Sang N, Zhang JB. 2002. Micromuclei induced by sulfur dioxide inhalation in mouse bone-marrow cells in vivo. *Inhal Toxicol*, 14:303-309.
- Meng Z, Sang N, Zhang B. 2002. Effects of derivatives of sulfur dioxide on micronuclei formation in mouse bone marrow cells in vivo. *Bull. Environ. Contam. Toxicol.*, 69(2):257-264
- Meng ZQ, Meng NY. 2000. Effects of arsenic on blast transformation and DNA synthesis of human blood lymphocytes. *Chemosphere*, 41:115-119.
- Meng ZQ, Zhang B. 1999, Polymerases chain reaction based deletion screening of bisulfite (sulfur dioxide)-enhanced gpt mutants in CHO-AS52 cells. *Mutat Res*, 425:81-85.
- Meng ZQ. 1998. Age and sex related differences in zinc and lead levels in human hair. *Biol Trace Elem Res.*, 61:79-87.
- Meng ZQ, Shie AW. 1996. Polymorase chain reaction- based deletion analysis of spontaneous and arsenite-enhanced gpt mutants in CHO-AS52 cells. *Mutat Res.*, 1996,356(2): 255- 259.
- Meng ZQ. 1994. Effects of arsenic on DNA synthesis in human lymphocytes. *Arch Environ Contam Toxicol*, 25(4): 525-528.
- Meng ZQ, Meng NY. 1994. Effects of inorganic arsenicals on DNA synthesis in unsensitized human blood lymphocytes in vitro. *Biol Trace Elem Res*. 1994, 42: 201-208.
- Meng ZQ. 1993. Effects of arsenic on DNA synthesis in human lymphocytes stimulated by phytoheaggglutinin, *Biol Tr Element Res*, 39(1):73-75.
- Meng ZQ, Zhang LZ. 1992. Cytogenetic damage induced in human lymphocytes by sodium bisulfite. *Mutat Res*, 298: 63-69.
- Meng ZQ. 1991. Effects of four chemicals on N-acetyltransferase activities in human U937 cell line. *Acta Pharmacologica Sinica*, 12(1):24-27.

Meng ZQ, Zhang LZ. 1990. Chromosomal aberrations and sister-chromatid exchanges of lymphocytes of workers exposed to sulphur dioxide. Mutat Res, 241(1): 15-20.

Meng ZQ, Zhang LZ. 1990. Observation of frequencies of lymphocytes with micronuclei in human peripheral blood cultures from workers in a sulphuric acid factory. Environ Mol Mutagen, 15(4):218-220.

Meng ZQ. 1987. Complexity of hybridization change of nuclear RNA synthesized after Gamma-irradiation in mouse splenocytes.“ Third China-Japan bilateral Symposium on Radiation Chemistry”, P360-367.