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陶莎莎

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2006.09—2011.06 中国医科大学公共卫生学院 硕博连读

2001.09-2006.06 中国医科大学预防医学 本科

2. 工作经历

2009.06-2011.06 美国亚利桑那大学 访问学者

2011.06-2015.09 美国亚利桑那大学 博士后

3. 研究方向

劳动卫生与环境卫生

4. 承担课题情况

特聘副教授启动基金

5. 发表论文

1. [Tao S](#), Tillotson J, Wijeratne EM, Xu YM, Kang M, Wu T, Lau EC, Mesa C, Mason DJ, Brown RV, La Clair JJ, Gunatilaka AA, Zhang DD, Chapman E. [Withaferin A Analogs That Target the AAA+ Chaperone p97](#). ACS Chem Biol. 2015 Jun 3. [Epub ahead of print]
2. [Tao S](#), Wang S, Moghaddam SJ, Ooi A, Chapman E, Wong PK, Zhang DD. [Oncogenic KRAS confers chemoresistance by upregulating NRF2](#). Cancer Res. 2014 Dec 15;74(24):7430-41. doi: 10.1158/0008-5472.CAN-14-1439. Epub 2014 Oct 22.
3. [Tao S](#), Zhu L, Lee P, Lee WM, Knox K, Chen J, Di YP, Chen Y. Negative control of TLR3 signaling by TICAM1 down-regulation. Am J Respir Cell Mol Biol. 2012 May; 46(5):660-7 {impact factor: 4.148}-highlighted
4. [Tao S](#), Zheng Y, Lau A, Jaramillo MC, Chau BT, Lantz RC, Wong PK, Wondrak GT, Zhang DD. Tanshinone I activates the Nrf2-dependent antioxidant response and protects against As(III)-induced lung inflammation in vitro and in vivo. Antioxid RedoxSignal. 2013 Feb 8. [Epub ahead of print] {impact

factor: 7.189}-highlighted

5. [Tao S](#), Donna D. Zhang, and Georg T. Wondrak. The Nrf2-inducers tanshinone I and dihydrotanshinone protect human skin cells and reconstructed human skin against solar simulated UV. *Redox Biology*.
6. Long M, [Tao S](#), Rojo de la Vega M, Jiang T, Wen Q, Park SL, Zhang DD, Wondrak GT. [Nrf2-dependent suppression of azoxymethane/dextran sulfate sodium-induced colon carcinogenesis by the cinnamon-derived dietary factor cinnamaldehyde](#). *Cancer Prev Res (Phila)*. 2015 May;8(5):444-54. doi: 10.1158/1940-6207.CAPR-14-0359. Epub 2015 Feb 23.
7. Chen W, Wang H, [Tao S](#), Zheng Y, Wu W, Lian F, Jaramillo M, Fang D, Zhang DD. Tumor protein translationally controlled 1 is a p53 target gene that promotes cell survival. *Cell Cycle*. 2013 Jul 15;12(14):2321-8. {impact factor:5}
8. Shuxi Qiao, [Tao S](#), Montserrat Rojo de la Vega, sophia L Park, amanda a Vonderfecht, suesan L Jacobs, Donna D Zhang, and Georg T Wondrak. The antimalarial amodiaquine causes autophagic- lysosomal and proliferative blockade sensitizing human melanoma cells to starvation-and chemotherapy-induced cell death. *autophagy* 9:12, 1–16; December 2013. {impact factor: 12}
9. Alexandria Lau, Yi Zheng, [Tao S](#), Huihui Wang, Samantha A. Whitman, Eileen White, and Donna D. Zhang. Arsenic inhibits autophagic flux activating the Nrf2-Keap1 pathway in a p62-dependent manner. *Molecular Cell Biology*. [Accepted] {impact factor: 5}
10. Zheng Y, [Tao S](#), Lian F, Chau BT, Chen J, Sun G, Fang D, Lantz RC, Zhang DD. Sulforaphane prevents pulmonary damage in response to inhaled arsenic by activating the Nrf2-defense response. *Toxicol Appl Pharmacol*. 2012 Dec 15; 265(3):292-9. {impact factor: 4.447}
11. Chen W, Jiang T, Wang H, [Tao S](#), Lau A, Fang D, Zhang DD. Does Nrf2 Contribute to p53-Mediated Control of Cell Survival and Death? *Antioxid Redox Signal*. 2012 Dec 5;17(12):1670-5. {impact factor: 8.45}
12. Zhu L, Lee P, Yu D, [Tao S](#), Chen Y. [Cloning and Characterization of Human MUC19 Gene](#). *Am J Respir Cell Mol Biol*. 2011 Aug;45(2):348-58. {impact factor: 5.13}
13. Liu F, Weng D, Chen Y, Song L, Li C, Dong L, Wang Y, [Tao S](#), Chen J. Depletion of CD4+CD25+Foxp3+ regulatory T cells with anti-CD25 antibody may exacerbate the 1,3-β-glucan-induced lung inflammatory response in mice. *Arch Toxicol*. 2011 Nov;85(11):1383-94.
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15. Chen Y, Wang X, Weng D, Lv L, [Tao S](#), Chen J. A TSP-1 functional fragment inhibits activation of latent transforming growth factor-1 derived from rat alveolar macrophage after bleomycin treatment. *Exp Toxicol Pathol*, 2009, 61(1): 67-73
16. 陈莹, 王欣, 翁东, 陶莎莎, 吕丽娜, 田璐佳, 陈杰. 血小板反应素-1的 I 型重复序列功能肽段对小鼠肺纤维化的抑制作用. *中华劳动卫生职业病杂志*, 2009, 27 (1) : 45-47
17. 陈莹, 王欣, 翁东, 陶莎莎, 吕丽娜, 陈杰. 血小板反应素-1功能片段对非活化形式的转化生长因子-β1的抑制作用. *中华劳动卫生职业病杂志*, 2009 , 27 (2) : 98-100

6. 参与课题:

1. 国家自然科学基金项目:Th17在实验性矽肺纤维化发生发展中的免疫调控机制(编号:81072274),经费:33万,期限:2011.01-2013.12
2. 国家自然科学基金项目:Th17在矽肺模型中对矽尘诱发自身免疫调控机制的研究(编号:81070007),经费:33万,期限:2011.01-2013.12
3. 国家自然科学基金:Tregs对1→3-β-Glucan所致变态反应性肺炎Th应答及Th极化的调控机制(编号:30771791),经费:31万,期限:2008.01-2010.12
4. 国家自然科学基金项目:Tregs在实验性矽肺发生发展中调控Th应答的效应机制(编号:30800924),经费:20万,期限:2009.01-2011.12
5. "Regulation of MUC19 by Th2 cytokine in airway epithelium"; Principal Investigator: Yin Chen, Ph.D. Agency: NIH/NIAID Type: R01 AI061695-01. Period: 09/13/07-09/12/12. \$1,250,000 (total direct cost). The long-term goal of this project is to determine the molecular mechanism underlying mucous cell development in asthma and asthma exacerbation.
6. The protective role of Nrf2 in arsenic-induced toxicity and carcinogenicity. Principal Investigator: Donna D. Zhang, Ph.D. Agency: NIH/NIAID Type: R01 ES015010-05. Period: 09/1/2006 – 08/31/2012. \$1,625,000 (total direct cost). The major goals of this project are to define the protection of the transcription factor Nrf2 against arsenic-induced toxicity and carcinogenicity.
7. American Cancer Society \$600,000. Regulation of the transcription factor Nrf2 by chemopreventive compounds. Principal Investigator: Donna D. Zhang, Ph.D. Type:RSG-07-154-01-CNE. Period: 07/1/2007-06/31/2012. The major goals of this project are to define the mechanism of Nrf2 regulation in response to the treatment of chemopreventive compounds.
8. Topical Nrf2-activators for skin photoprotection and chemoprevention of skin cancer. Principal Investigator: Donna D. Zhang and George Wondrak. Type: SWEHSC pilot research grant ES06694 2006 \$40,000 (total direct cost).

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