**Curriculum Vitae**

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**Professional Experience:**

2012-Present: Associate Professor, College of Veterinary Medicine, Western University of Heath Sciences, Pomona, California.

2005-2012: Assistant Professor, Department of Biology, University of Dayton, Dayton, OH.

2001-2005: Research Scientist, Department of Cell Biology, Neurobiology, and Anatomy, University of Cincinnati, Cincinnati, OH.

1987-1992: Assistant Professor / Lecturer, Department of Biology, Xiamen University, Xiamen, Fujian, P. R. China.

**Education/Training:**

2009 : Visiting scientist in Whitehead Institute of Massachusetts Institute of Technology, Dr. Rudolf Jaenisch’s lab.

1998-2001: Postdoctoral Fellow, Department of Biochemistry, Chandler Medical Center, University of Kentucky, Lexington, K. Y.

1992-1997: Ph. D., Molecular and Cell Biology, University of Kentucky, Lexington, KY.

1984-1987: M. Sci., Molecular Biology and Genetics, Xiamen University, Fujian, P. R. China.

1980-1984: B. Sci., Biology, Xiamen University, Xiamen, Fujian, P. R. China.

**Honors and Awards:**

2007 -2009: Merck-AAA Undergraduate Research Awards.

2003: The National Institute Environmental Health Sciences Travel Award.

1999- 2001: Ruth L. Kirschstein National Research Service Award, NIH.

1999: American Society of Biochemistry and Molecular Biology Graduate/Postdoctoral Travel Award.

1997-1999: Postdoctoral Fellowship of University of Kentucky Women in Underrepresented Areas.

**Patents and Publications:**

**Patent applications:**

**Hong, Y.** (2008)“Methods of producing pluripotent stem cells”. US Patent Application #12/228,205.

**Hong, Y.** (2010)“Enhanced methods for producing stem-like cells from somatic cells” US Patent Application #12/703,205.

**Publications:**

1. Rajanahalli, P., Meyer, M., Zhu, L., Wagner, B. D., Robinson, M. L., King, D. A. and **Hong, Y.,** (2011) Conversion of mouse fibroblasts to sphere cells induced by AlbuMAXI-containing medium. *Frontiers in Bioscience* 4: 1813-1822.
2. Meyer, K. Rajanahalli, P., Ahamed, M., Rowe, J. and **Hong, Y.** (2011) ZnO nanoparticles induce apoptosis in human dermal fibroblast cells via P53 and p38 pathway. *Toxicology in Vitro* 25: 1721-1726.
3. Xing, H. Y. **Hong, Y.** and Sarge, K. D. (2010) PEST sequences mediate heat shock factor 2 turnover by interacting with the Cul3 subunit of the Cul3-RING ubiquitin ligase, *Cell Stress Chaperones* 15:301-308.
4. Ahamed, M., Karns, M., Goodson, M., Rowe, J., Hussain, S., Schlager, J.,and **Hong, Y.** (2008) DNA damage responses to different surface chemistry of silver nanoparticles in mammalian cells. *Toxicology and Applied Pharmacology* 233:404-410.
5. Davia,K., King, D. **Hong, Y.** and Swavey, S.(2008) A porphyrin-ruthenium photosensitizer as a potential photodynamic therapy agent. *Inorganic Chemistry Communications* 11: 584-586.
6. Rani-Beeram, S., Meyer, K., McCrate A. **Hong, Y.** Nielsen, M and Swavey, S.(2008) A Fluorinated ruthenium porphyrin as a potential photodynamic therapy agent: synthesis, characterization DNA binding, and Melanoma cell studies. *Inorganic Chemistry* 47: 11278-11283.
7. Murphy L. A, Wilkerson D. C, **Hong, Y.** and Sarge K. D. (2008) PRC1 associates with the hsp70i promoter and interacts with HSF2 during mitosis. *Experimental Cell Research,* 314 (11-12):2224-2230.
8. Zhang J, Goodson M. L., **Hong, Y.** and Sarge K. D. (2008) MEL-18 interacts with HSF2 and the SUMO E2 UBC9 to inhibit HSF2 sumoylation. *J Biological Chemistry* 283(12):7464-9.
9. Zhu, L., Wook C., Dai, L. and **Hong, Y.** (2007) DNA damage induced by multiwalled carbon nanotubes in mouse embryonic stem cells. ***Nano Letters****,* 7(12): 3592-3579 (SCI Journal Impact Factor 12.5).
10. Skaggs, H. S., Xing, H. Y., Wilkerson, D. C., Murphy L. A., **Hong, Y.,** Mayhew, C. N. and Sarge, K. D. (2007). HSF1-TPR interaction facilitates export of stress-induced HSP 70 mRNA. *J. Biological Chemistry* 282:33902-33907.
11. Xing, H. Y.,**Hong, Y.** and Sarge, K. D. (2007) Identification of the PP2A-interacting region of heat shock transcript factor 2. *Cell Stress Chaperones* 12:192-197.
12. Xing, H. Y., Wilkerson, D. C., Mayhew, C. N., Lubert E. J., Skaggs H. S., Goodson M. L., **Hong, Y.** Park-Sarge O. K. and Sarge, K. D. (2005) Mechanisms of hsp70i gene bookmarking. ***Science***307: 421-423.
13. **Hong, Y.** and Stambrook, P.J. (2004) Restoration of an absent G1 arrest and protection from apoptosis in embryonic stem cells after ionizing radiation. ***Proc. Nat. Acad. Sci****., USA.* 101 (40): 14443-8. PMID: 15452351.
14. **Hong, Y.,** Rogers, R., Matunis, M. J., Mayhew C.N., Goodson, M. L., Park-Sarge, O. K. and Sarge, K. D. (2001). Regulation of HSF1 by stress-induced SUMO-1 modification. *J. Biological Chemistry* 276:40263-40267.
15. Lubert, E. J., **Hong, Y.** and Sarge, K. D. (2001) Interaction between protein phosphatase 5 and the subunit of protein phosphatase 2A: evidence for a heterotrimeric form of protein phosphatase 5. *J. Biological Chemistry* 276: 38582-38587.
16. **Hong, Y.,** Lubert, E. J., Rodgers, D.W., and Sarge, K. D. (2000) Molecular basis of competition between HSF2 and catalytic subunit for binding to the PR65/A subunit of PP2A. *Biochemical Biophysical Research Communications* 272: 84-89.
17. **Hong, Y.** and Sarge, K. D. (1999) Regulation of protein phosphatase 2A activity by heat shock transcription factors 2. *J. Biological Chemistry* 274: 12967-12970.
18. Maiti, I. B., Von Lanken, C., **Hong, Y.** and Hunt, A. G. (1999) Introduction of multiple virus-derived resistance determinants into transgenic plants does not result in additive resistance properties. *J. Plant Biochemistry and Biotechnology 8, 67-73.*
19. Fellers, J., Wang, J. R., **Hong, Y.,** Shaw, J. and Hunt, A. G. (1998) *In vitro* interactions between a potyvirus-encoded, genome-linked protein and RNA-dependent RNA polymerase. *J. General Virology* 79: 2043-2049.
20. **Hong, Y.** and Hunt, A. G. (1996) RNA polymerase activity catalyzed by a potyvirus-encoded RNA-dependent RNA polymerase. *Virology* 225:146-151.
21. **Hong, Y.,** Levay, K., Murphy, J. F., Klein, P. G., Shaw, J. G. and Hunt, A. G. (1995) A potyvirus polymerase interacts with the viral coat protein and Vpg in yeast cells. *Virology* 214: 159-166.
22. **Hong, Y.** (1990) Isolation and regeneration of Cyanobacteria *Phormidium luridum* protoplast. *J. of Xiamen University* (Natural Sciences) 29: 668-671.

**Book Chapters:**

Schrand, A. M., Johnson, J., Dai, L., Hussain S. M., Schlager, J. J., Zhu L. **Hong, Y. L.** and Osawa, E. (2008) Cytotoxicity and genetoxicity of carbon nanomaterials. Chapter 8, Springer Science+ Business Media, LLC.

**Hong, Y. L.,** Cervantes, R. B. and Stambrook, P. J. (2005) DNA damage response and mutagenesis in mouse embryonic stem cells. In: *Embryonic Stem Cells-II: Methods and Protocols*. Humana Press Inc.