

Curriculum Vitae

Yiling Hong, Ph. D.

Professional Experience:

- 2005- Present: 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, Department of Biology, Xiamen University, Xiamen, Fujian, P. R. China

Education/Training:

- 1998-2001 Postdoctoral Fellow, Department of Biochemistry, Chandler Medical Center, University of Kentucky, Lexington, K. Y.
- 1992-1997 Ph. D., Molecular 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.

Publications:

- Rani-Beeram, Meyer, K., McCrate, A., **Hong, Y. L.**, Nielsen M., and Swavey S. Fluorinated ruthenium porphyrin as a potential photodynamic therapy agent: synthesis, characterization, DNA Binding and melanoma cell studies. Manuscript submitted
- Ahamed, M., Karns, M., Goodson, M., Rowe, J., Hussain, S., Schlager, J., and **Hong, Y. L.** (2008) DNA damage response to different surface chemistry of silver nanoparticles in mammalian cells. *Toxicology and Applied Pharmacology* 233:404-410.
- Murphy L. A, Wilkerson D. C, **Hong, Y. L.** and Sarge K. D. (2008) PRC1 associates with the hsp70i promoter and interacts with HSF2 during mitosis. *Exp Cell Res.*, 314 (11-12):2224-30
- Zhang J, Goodson M. L., **Hong, Y. L.** and Sarge K. D. (2008). MEL-18 interacts with HSF2 and the SUMO E2 UBC9 to inhibit HSF2 sumoylation. *J Biol Chem.* 283(12):7464-9.
- Davia, K., King, D. **Hong, Y. L.** and Swavey, S. (2008) A porphyrin-ruthenium photosensitizer as a potential photodynamic therapy agent: 11, 584-586 *Inorganic Chemistry Communications* 11:584-586.
- Zhu, L., Dai, L. and **Hong, Y. L.** (2007) DNA Damage Induced by Multiwalled Carbon Nanotubes in Mouse Embryonic Stem Cells. *NanoLetters*, 7(12): 3592-3579.

Xing H., **Hong, Y. L.** and Sarge K.D (2007) Identification of the pp2a-interacting region of heat shock transcription factor 2. *Cell Stress Chaperones*. 12 (2):192-7.

Hong, Y. L., Cervantes, R. B., Tichy E. Tischfield J. A. Stambrook P. J (2007) Protecting genomic integrity in somatic cell and embryonic stem cells. *Mutat Res*. 614: 48-55. Review

Hong, Y. L., Cervantes, R. B. and Stambrook, P. J. (2006) DNA damage response and mutagenesis in mouse embryonic stem cells. *Methods Mol Biol*. 329:313-26

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Hong, Y.L.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.

Hilgarth, R. S., **Hong, Y. L.**, Park-Sarge O. K. and Sarge, K. D. (2003) Insights into the regulation of heat shock transcription factor 1 Sumo-1 modification. *Biochem. Biophys. Res. Commun*. 303: 196-200.

Hong, Y. L., 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. Biol. Chem*. 276:40263-40267.

Lubert, E. J., **Hong, Y. L.**, 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. Biol. Chem*. 276: 38582-38587.

Goodson, M. L., **Hong, Y. L.**, Rogers, R., Matunis, M. J., Park-Sarge, O. K. and Sarge, K. D. (2001) SUMO-1 modification regulates the DNA-binding activity of heat shock transcription factor 2 (HSF2), a promyelocytic leukemia nuclear body associated transcription factor. *J. Biol. Chem*. 276: 18513-18518.

Hong, Y. L., 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. *Biochem. Biophys. Res. Commun*. 272: 84-89.

Maiti, I. B., Von Lanken, C., **Hong, Y.L.**, and Hunt, A. G. (1999) Introduction of multiple virus-derived resistance determinants into transgenic plants does not result in additive resistance properties. *J. Plant Biochem. Biotech*. 8: 67-73.

Hong, Y. L. and Sarge, K. D. (1999) Regulation of protein phosphatase 2A activity by heat shock transcription factors 2. *J. Biol. Chem*. 274: 12967-12970.

Fellers, J., Wang, J. R., **Hong, Y.L.**, Shaw, J. and Hunt, A. G. (1998) *In vitro* interactions between a potyvirus-encoded, genome-linked protein and RNA-dependent RNA polymerase. *J. Gen. Virology* 79: 2043-2049.

Hong, Y. L.and Hunt, A. G. (1996) RNA polymerase activity catalyzed by a potyvirus-encoded RNA-dependent RNA polymerase. *Virology* 225:146-151.

Hong, Y. L., 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.

Hong, Y. L. (1990) Isolation and regeneration of Cyanobacteria *Phormidium luridum* protoplast. *Journal 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 genotoxicity of carbon nanomaterials. Chapter 8, Springer Science+ Business Media, LLC.

Hong, Y. L., Cervantes, R. B. and Stambrook, P. J. (2004) DNA damage response and mutagenesis in mouse embryonic stem cells. In: *Embryonic Stem Cells-II: Methods and Protocols*. Humana Press Inc.

Course Taught: Human Physiology
Cancer Biology