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Cell Biology, Signal Transduction

◆ Research Interests

- ◆ Impact of teratogen-induced cell apoptosis on embryogenesis
- ◆ The signal transduction cascades of cell apoptosis in embryogenesis
- ◆ The roles of p21-activated protein kinase 2 in cell apoptosis and embryonic development

◆ Selected Publications

- ◆ Chan, W.-H.* (2011), “Embryonic toxicity of sanguinarine through apoptotic processes in mouse blastocysts.”, Toxicol. Lett., Vol.205 , No.0 p.285－292.
- ◆ Wen-Hsiung Chan* (2011), “Photodynamic Treatment Induces an Apoptotic Pathway Involving Calcium, Nitric Oxide, p53, p21-Activated Kinase 2, and c-Jun N-terminal kinase and Inactivates Survival Signal in Human Umbilical Vein Endothelial Cells”, Int. J. Mol. Sci., Vol.12 , No.0 p.1041－1059.
- ◆ Chang, Y.-J., Chan, W.-H.* (2010), “Methylglyoxal has injurious effects on maturation of mouse oocytes, fertilization, and fetal development, via apoptosis”, Toxicol. Lett., Vol.193 , No.3 p.217－223.
- ◆ Li, P.-W., Kuo, T.-H., Chang, J.-H., Yeh, J.-M. *, Chan, W.-H.* (2010), “Induction of cytotoxicity and apoptosis in mouse blastocysts by silver nanoparticles”, Toxicol. Lett., Vol.197 , No.2 p.82－87.
- ◆ Wen-Hsiung Chan* (2009), “Impact of Genistein on Maturation of Mouse Oocytes, Fertilization, and Fetal Development”, Reproductive Toxicology, Vol.28 , No.1 p.52－58.
- ◆ Nion-Heng Shiao and Wen-Hsiung Chan* (2009), “Injury Effects of Ginkgolide B on Maturation of Mouse Oocytes, Fertilization, and Fetal Development in vitro and in vivo”, Toxicology Letters, Vol.188 , No.1 p.63－69.
- ◆ Wen-Hsiung Chan* (2008), “Citrinin Induces Apoptosis in Mouse Embryonic Stem Cells”, IUBMB Life, Vol.60 , No.3 p.171－179.
- ◆ Wen-Hsiung Chan* and Hsin-Jung Wu (2008), “Methylglyoxal and High Glucose Co-treatment Induces Apoptosis or Necrosis in Human Umbilical Vein Endothelial Cells”, Journal of Cellular Biochemistry, Vol.103 , No.4 p.1144－1157.

◆ Recent Research Projects

- ◆ Cytotoxicity and regulatory mechanisms of citrinin on mouse sperm and embryonic development (August 2009~ July 2012)
- ◆ Effect of Extremely Low Frequency and Radiofrequency Electromagnetic Field on Cell Death and Development in Mouse Embryo (August 2006~ July 2009)