

## Chung-Der Hsiao

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Assistant Professor, Department of Bioscience

Biotechnology, Developmental Biology, Human Disease Model



### ◆ Research Interests

- ◆ Chung-Der Hsiao is an assistant professor in Department of Bioscience Technology. Courses taught include Developmental Biology, General Biology, Anatomy and Histology and Molecular Biology. His research topics include (1) Modeling human disease in Zebrafish (2) Small molecular drug screening by using zebrafish system (3) Environmental toxicity on aquatic animals.

### ◆ Selected Publications (2011-2012)

- ◆ Chen YC, Chen YC, Lin WD, **Hsiao CD**, Chiu HW, Ho JM. 2012. Bio301: a web-based EST annotation pipeline that facilitates functional comparison studies. ISRN Bioinformatics (In press).
- ◆ Chu CY, Chen CF, Rajendran R. Samuel, Shen CN, Chen TH, Yen CC, Chuang CK, Lin DS, **Hsiao CD**. 2012. Overexpression of Akt1 enhances adipogenesis and leads to lipoma formation in zebrafish. PLoS One (accepted) (IF=4.411, 12/85 in Biology)
- ◆ Huang SH, **Hsiao CD**, Lin DS, Chow CY, Chang CJ, Liao I. 2011. Imaging of Zebrafish In Vivo with Second-Harmonic Generation Reveals Shortened Sarcomeres Associated with Myopathy Induced by Statin. PLoS One. 6:e24764. (IF=4.411, 12/85 in Biology)
- ◆ Lin YS, Tsai SC, Lin HC, **Hsiao CD**, Wu SM. 2011. Changes of glycogen metabolism in the gills and hepatic tissue of tilapia (*Oreochromis mossambicus*) during short-term Cd exposure. Comp Biochem Physiol C Toxicol Pharmacol. (accepted) (IF=2.325, 18/145 in Zoology)
- ◆ Liu DW, Hsu CH, Tsai SM, **Hsiao CD**, Wang WP. 2011. A Variant of Fibroblast Growth Factor Receptor 2 (Fgfr2) Regulates Left-Right Asymmetry in Zebrafish. PLoS One. 6:e21793. (IF=4.411, 12/85 in Biology)
- ◆ Chen CF, Chu CY, Chen TH, Lee SJ, Shen CN, **Hsiao CD**. 2011. Establishment of a transgenic zebrafish line for superficial skin ablation and functional validation of apoptosis modulators in vivo. PLoS One. 6:e20654. (IF=4.411, 12/85 in Biology)

- ◆ Lin DS, **Hsiao CD**, Liao I, Lin SP, Chiang MF, Chuang CK, Wang TJ, Wu TY, Jian YR, Huang SF, Liu HL. 2011. CNS-targeted AAV5 gene transfer results in global dispersal of vector and prevention of morphological and function deterioration in CNS of globoid cell leukodystrophy mouse model. *Mol Genet Metab.* 103:367-377. (IF=3.539, 26/106 in Medicine, Research & Experimental)
- ◆ Yeh CM, Liu YC, Chang CJ, Lai SL, **Hsiao CD**, Lee SJ. 2011. Ptenb mediates gastrulation cell movements via Cdc42/AKT1 in zebrafish. *PLoS One.* 6:e18702. (IF=4.411, 12/85 in Biology)

### ◆ **Recent Research Projects**

- ◆ “Functional assay of AKT signaling on adipogenesis in Zebrafish” sponsored by National Science Council (NSC 99-2320-B-033-001-MY3)
- ◆ “Production and Validation of High Quality Antibodies for Serving Zebrafish Research Community” sponsored by National Science Council (NSC100-2622-B033-001-CC3)