

姓名	蔡淑娟			
學歷： (擇其重要者逐一填寫)	學校名稱	學位	起迄年月	科技專長
	國立台灣大學	博士	80年9月—89年6月	分子生物學、蛋白質表現與純化
	國立台灣大學	碩士	77年9月—79年6月	內分泌學
	國立海洋大學	學士	73年9月—77年6月	水產養殖
經歷： (依服務時間先後順序填寫與計畫相關之經歷)	現職	中臺科技大學 生科所		
		助理教授		
	經歷	中臺科技大學 醫生所 助理教授		
		行政院農委會水產試驗所 生物技術組 博士後研究員		
		中央研究院 生化所 博士後研究員		
		台富製藥 研發人員		

歷年論文與研究計畫

期刊論文

- Kang CK, Lin CS, Hu YC, Tsai SC(蔡淑娟), Lee TH.(2017)The expression of VILL protein is hypoosmotic-dependent in the lamellar gill ionocytes of Otocephala teleost fish, *Chanos chanos*. *Comp. Biochemistry and Physiol., Part A*(203) :59-68 (SCI)
- Chao-Kai Kang, Yi-Chi Chen, Chia-Hao Chang, Shu-Chuan Tsai(蔡淑娟), Tsung-Han Lee (2015) Seawater-acclimation abates cold effects on Na⁺, K⁺-ATPase activity in gills of the juvenile milkfish, *Chanos chanos*. *Aquaculture* 446:667-673. (SCI)
- Hsu CW, Tsai SC(蔡淑娟), Shen SC, Wu SM. (2014) Profiles of thyrotropin, thyroid hormones, follicular cells and type I deiodinase gene expression during ontogenetic development of tilapia larvae and juveniles. *Fish Physiol Biochem.* 40(5):1587-1599.
- Tang CH, Leu MY, Yang WK, Tsai SC(蔡淑娟).(2014)Exploration of the mechanisms of protein quality control and osmoregulation in gills of *Chromis viridis* in response to reduced salinity. *Fish Physiol Biochem.* 40(5):1533-1546. (SCI)
- Lin YS, Tsai SC(蔡淑娟), 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.* 154(4):296-304. (SCI)
- Tang, C.H., W.Y. Wu, S.C. Tsai (蔡淑娟), T. Yoshinaga, and T.H. Lee* 2010 Elevated Na⁺/K⁺-ATPase responses and its potential role in triggering ion-reabsorption in kidneys for homeostasis of marine euryhaline milkfish (*Chanos chanos*) when acclimated to hypotonic fresh water. *J. Comp. Physiol. (Pt. B)* 180:813-824 (SCI)
- Tang, C.H., Y.H. Chiu, S.C. Tsai (蔡淑娟), and T.H. Lee* 2009 Relative changes in the abundance of branchial Na⁺/K⁺-ATPase alpha-isoform-like proteins in marine euryhaline milkfish (*Chanos chanos*) acclimated to environments of different salinities. *J. Exp. Zool.* 311A: 522-530. (SCI)
- Kang, C.K., S.C. Tsai (蔡淑娟), T.H. Lee*, P.P. Hwang (2008) Differential expression of branchial Na⁺/K⁺-ATPase of two medaka species, *Oryzias latipes* and *Oryzias dancena*, with

different salinity tolerances acclimated to fresh water, brackish water and seawater. *Comp. Biochem. Physiol. (Pt. A)* 151:566-575. (SCI)

Lin, Y.M., C.N. Chen, T. Yoshinaga, S.C. Tsai (蔡淑娟), I.D. Shen, and T.H. Lee* (2006) Short-term effects of hyposmotic shock on Na⁺/K⁺-ATPase expression in gills of the euryhaline milkfish, *Chanos chanos*. *Comp. Biochem. Physiol. (Pt. A)* 143:406-415. (SCI)

Lin CC, Chou CM, Hsu YL, Lien JC, Wang YM, Chen ST, Tsai SC(蔡淑娟), Hsiao PW, Huang CJ*(2004) Characterization of two mosquito STATs, AaSTAT and CtSTAT. Differential regulation of tyrosine phosphorylation and DNA binding activity by lipopolysaccharide treatment and by Japanese encephalitis virus infection. *J Biol Chem.* 279(5):3308-17(SCI)

研討會論文

Tsai, Shu-Chuan* and Xiao, Ru Yin (2016) Toxic effects of DEHP and DINP on zebrafish different developmental stages. 2016 ASI annual meeting

Shu-Chuan Tsai (2014) Zebrafish is also a sensitive animal model to assess the sewage discharge and other potential water pollution. International Congress on the Biology of Fish. 1-ICBF2014 Programme booklet P232-233

Shu-Chuan Tsai, Yu-Siang Lin, Hui-Chen, Lin, Su Mei Wu (2012) Glycogen metabolism in the gills and hepatic tissue of tilapia (*Oreochromis mossambicus*) during short-term cadmium exposure. SEB Annual Main Meeting 2012

Tsai, S.C., Kang, C.K., and Tang, C.H., and T.H. Lee (2010) Cloning and expression of Na⁺/K⁺-ATPase alpha subunit isoforms of euryhaline milkfish *Chanos chanos*. 9th International Congress on the Biology of Fish, Jul. 5-9, 2010, Barcelona, .

Da-Sheng Guo*, Ming-Huang Chang and Shu-Chuan Tsai*(蔡淑娟)(2010) Characterization of zebrafish zfp598 by morpholino antisense oligonucleotides. 2010 年動物行為、生態暨生物教育研討會—中國生物學會暨中華民國魚類學會聯合年會, Changhua, 2010

Chao-Kai Kang, Shu-chuan Tsai(蔡淑娟), Tsung-Han Lee*(2008) Differential expression of branchial Na⁺/K⁺-ATPase of two medaka species, *Oryzias latipes* and *Oryzias dancena*, acclimated to fresh water, brackish water, and seawater. WFC2008 5th world fisheries congress, YOKOHAMA, 2008

Da-Sheng Guo, Ming-Huang Chang, Shu-Chuan Tsai*(蔡淑娟)(2008) Characterization of zebrafish zfp598 by morpholino antisense oligonucleotides. 2008 生理生態聯合研討會, Taichung, 2008

姜智璽, 蔡淑娟*(2007) 天然雙黃酮及化學合成單黃酮類藥物對斑馬魚稚魚之急毒性. 生理生態聯合研討會, Taichung, 2007.

姜智璽, 蔡淑娟* 類黃酮對斑馬魚稚魚之急毒性. (2007) 魚類學會論文發表會, Taipei, 2007.

歷年計畫

塑化劑 DEP 對斑馬魚生理性狀之影響. 校內產學 104/08/01-105/07/31

塑化劑 DINP 及 DEHP 對斑馬魚生理性狀之影響 校內產學 103/08/01-104/07/31

精索靜脈曲張血管之蛋白質體分析及基因表現情形 101/01/01-101/12/31 國軍臺中總醫院合作計畫

虱目魚之鈉鉀幫浦beta次單位三種分型基因選殖與表現探討校內產學99/08/01-100/07/31

99-101 年度教育部補助技專校院建立特色典範計畫 子計畫六 斑馬魚應用於污水排放之監測,2009-2011 共同主持人

Cloning and expression of Na⁺/K⁺ -ATPase -2 and -3 subtypes in gills and kidneys of euryhaline milkfish, *Chanos chanos*2008/01/01- 2008/ 03/31 中興大學獎勵國內學人短期來校訪問研究

14種單黃酮合成藥物對斑馬魚稚魚之急毒性, CTU97-PC-007, 2008

雙黃酮藥物對斑馬魚之急毒性, CTU96-PC-014, 2007

Cloning and expression of Na⁺/K⁺ -ATPase in gills and kidneys of euryhaline milkfish, *Chanos chanos* 2006/ 07/01-2006/12/31中興大學獎勵國內學人短期來校訪問研究

斑馬魚鋅指蛋白ZFP598功能性研究, CTU95-個-37,2006

利用斑馬魚模式探討人類癌化組織基因之功能 2004/08/01-2005/07/31 93-2311-B-166-003-