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學歷

國立台灣大學(醫學院) 生化學研究所	博士
國立台灣師範大學生物研究所	碩士
國立彰化師範大學生物系	大學

專長

中草藥萃取物及其有效成分抑制癌瘤細胞位移/侵入(migration/invasion)活性之研究

經歷

服務單位	系所	職稱	起訖時間
中臺科技大學	食品科技系	教授	2005~迄今
中臺科技大學	食品科技系	教授兼教學發展中心主任	2011~2014
中臺科技大學	食品科技系(所)	教授兼系主任暨所長	2005~2010
中臺醫護技術學院	食品科學系	副教授	2002~2005
中臺醫護技術學院	食品科學系	副教授兼系主任	1996~2002
中臺醫事技術專科學校	食品衛生科	副教授	1992~1996
國立台灣大學(醫學院)	生化學研究所	博士後研究員	1990~1992

服務

1. 勞動部勞動力發展署技能檢定中心中餐烹調乙、丙級技術士技能檢定術科測試監評委員
2. 勞動部勞動力發展署技能檢定中心技能競賽裁判
3. 台中地區農會辦理104年度強化農村農家生產及生活經營能力暨高齡者生活改善計劃-農村飲食大小事-農村特派員培訓營計畫 講師
4. 台中市衛生局「餐飲業、學校團膳及餐盒食品工廠食品衛生工作評鑑」評鑑委員
5. 台中市衛生局「餐飲業分級管理評鑑」評鑑委員
6. 專業期刊論文審查委員(1)Clinical Biochemistry (2)BioMed Research International

證照

1. 勞動部勞動力發展署技能檢定中心術科測試監評人員證書(中餐烹調乙、丙級)
2. 勞動部勞動力發展署技能檢定中心即測即評學科測試監評人員證書

榮譽

1. 中臺科技大學105年度學術龍騰獎
2. 科技部99年度~105年度特殊優秀人才獎勵
3. 中臺科技大學103年度彈性薪資研究傑出獎勵

計畫

計 畫 名 稱	計畫內擔任之工作	補助機關	起迄年月
評估蛇果草及表兒茶素沒食子酸酯抑制子宮頸癌及肺癌細胞之癌化,上皮-間質轉換,侵襲轉移及輔助化學療法之機制	主持人	科技部	2015/08/01~2018/07/31
102年度~104年度獎勵科技大學及技術學院教學卓越計畫-主軸三、聚合創新師資、樂活多元輔導	主持人	教育部	2013/01/01~2014/12/31
探討台灣欒木與蛇莓和其純化物質在抑制癌細胞增生、轉移擴散與誘導細胞程序性死亡之能力	主持人	國科會	2013/08/01~2014/07/31
102 ~103年度中區技職校院區域教學資源中心【主軸三】香辛料產業結合食品餐飲產業鏈帶動計畫	主持人	教育部	2013/08/01~2014/07/31
七層塔與南五味子萃取物抑制 LDL氧化、防止血管內皮細胞受傷害及巨噬細胞發炎反應在動脈粥硬化應用及研究	主持人	國科會	2009/08/01~2012/07/31

著作(2011~2017)

1	Horng CT, Wu YJ, Chen PN, **Chu SC**, Tsai CM, Hsieh YS.(2017) Koelreuteria Formosana Extract Induces Growth Inhibition and Cell Death in Human Colon Carcinoma Cells via G2/M Arrest and LC3-II Activation-Dependent Autophagy. Nutr Cancer. 2017 Jan;69(1):44-55.
2	Yu CH, **Chu SC**, Chen PN, Hsieh YS, Kuo DY.(2016) Mediation of oxidative stress in hypothalamic ghrelin-associated appetite control in rats treated with phenylpropanolamine. Genes Brain Behav. **2016** Nov 8.
3	Lu KH, Chen PN, Hsieh YH, Lin CY, Cheng FY, Chiu PC, **Chu SC**, Hsieh YS. (2016) 3-Hydroxyflavone inhibits human osteosarcoma U2OS and 143B cells metastasis by affecting EMT and repressing u-PA/MMP-2 via FAK-Src to MEK/ERK and RhoA/MLC2 pathways and reduces 143B tumor growth in vivo. Food Chem Toxicol. 97:177-186.
4	**Chu SC**, Yu CH, Chen PN, Hsieh YS, Kuo DY. (2016) Role of oxidative stress in disrupting the function of negative glucocorticoid response element in daily amphetamine-treated rats. Psychoneuroendocrinology. **2016** Sep;71:1-11.
5	Huang SF, Horng CT, Hsieh YS, Hsieh YH, **Chu SC**, Chen PN. (2016) Epicatechin-3-gallate reverses TGF-β1-induced epithelial-to-mesenchymal transition and inhibits cell invasion and protease activities in human lung cancer cells. Food Chem Toxicol. 94:1-10.
6	Hsieh YS, Yang SF, Hsieh YH, Hung CH, **Chu SC**, Yang SH, Chen PN.(2015) The Inhibitory Effect of Abietic Acid on Melanoma Cancer Metastasis and Invasiveness In Vitro and In Vivo. Am J Chin Med.43(8):1697-714 (IF=2.755;R/C=4/24=16.67%,SCI)
7	Chen KS, Chen PN, Hsieh YS, Lin CY, Lee YH, **Chu SC***.(2015)Capsaicin protects endothelial cells and macrophage against oxidized low-density lipoprotein- induced injury by direct antioxidant action. Chem Biol Interact.; 25;228: 35-45. (IF=2.577;R/C=110/255=43.14%,SCI)
8	**Chu SC**, Chen PN, Ho YJ, Yu CH, Hsieh YS, Kuo DY. (2015) Both neuro- peptide Y knockdown and Y1 receptor inhibition modulate CART-mediated appetite control.Horm Behav .**2015;** 67:38-47.(IF=4.632;R/C=5/51=9.8%,SCI)
9	Lin CY, Chen PN, Hsu LS, Kuo DY, **Chu SC***, Hsieh YS*.(2014)

	Inhibition of the invasion and migration of renal carcinoma 786osi3 cells in vitro and in vivo by Koelreuteria formosana extract. Mol Med Rep. 10(6): 3334-42.(IF=1.554;R/C=83/123=70.73%,SCI)
10	**Chu SC**, Yu CC, Hsu LS, Chen KS, Su MY, Chen PN. **(2014)** Berberine reverses epithelial-to-mesenchymal transition and inhibits metastasis and tumor-induced angiogenesis in human cervical cancer cells. Mol Pharmacol. 86(6):609-23. (IF=4.128;R/C=38/255=**14.9%**,SCI)
11	**Chu SC**, Hsieh YS, Yu CC, Lai YY, Chen PN. (2014) Thymoquinone induces cell death in human squamous carcinoma cells via caspase activation- dependent apoptosis and LC3-II activation-dependent autophagy. PLoS One. **2**;9(7):e101579. (IF=3.234;R/C=9/57=15.79%5,SCI)
12	Lu KH, Chen PN, Lue KH, Lai MT, Lin MS, Hsieh YS, **Chu SC**.(2014) 2'-Hydroxyflavanone Induces Apoptosis of Human Osteosarcoma 143 B Cells by Activating the Extrinsic TRAIL- and Intrinsic Mitochondria-Mediated Pathways. Nutr Cancer. **2014** 15:1-11. (IF=2.322;R/C=41/77=53.25%,**SCI**)
13	**Chu SC**, Chen PN, Hsieh YS, Yu CH, Meng-Hsuan L, Yan-Han L, Kuo DY. (2014) Involvement of hypothalamic PI3K-STAT3 signalling in regulating amphetamine-mediated appetite suppression.Br J Pharmacol. (IF=4.842;R/C=24/255=9.41%,**SCI**)
14	Lin CY, Chen PN, Hsieh YS, **Chu SC** ***.**(2014) Koelreuteria formosana extract impedes in vitro human LDL and prevents oxidised LDL-induced apoptosis in human umbilical vein endothelial cells.Food Chem. 146:299-307 (IF=3.391;R/C=8/123=6.5%,**SCI**)
15	**Chu SC**, Hsieh YS, Hsu LS, Chen KS, Chiang CC, Chen PN. (2013) Rubus idaeus L Inhibits Invasion Potential of Human A549 Lung Cancer Cells by Suppression Epithelial-to-Mesenchymal Transition and Akt Pathway In Vitro and Reduces Tumor Growth In Vivo. Integr Cancer Ther. (IF=2.361;R/C=5/24=20.83%,**SCI**)
16	Hsieh YS, **Chu SC**, Hsu LS, Chen KS, Lai MT, Yeh CH, Chen PN. (2013) Rubus idaeus L. reverses epithelial-to-mesenchymal transition and suppresses cell invasion and protease activities by targeting ERK1/2 and FAK pathways in human lung cancer cells.Food Chem Toxicol. 62:908-18. (IF=2.895;R/C=14/124=11.38%,**SCI**)
17	Lin, HL, Ueng,KC, Chiou, HL, Chen, TP, Yang, SF, **Chu SC***and Hsieh, YS*. (2013) The impact of IGF-1 gene polymorphisms on coronary artery disease susceptibility. J Clin Lab Anal. 17:162-169.

	(IF=1.038; R/C= 23/30=76.67%,**SCI**)
18	Kuo, DY, Chen, PN, Yu, CH, Kuo, MH, Hsieh, YS and **Chu SC** *(2012) Involvement of neuropeptide Y Y1 receptor in the regulation of amphetamine-mediated appetite suppression.Neuropharmacology 63:842 -850. (IF=5.106;R/C=20/255==7.84%,**SCI**)
20	Lin, HL, Ueng, KC, Hsieh, YS, Chiang, WL, Yang, SF, and **Chu SC** * (2012) Impact of MCP-1 and CCR-2 gene polymorphisms on coronary artery disease susceptibility.Mol Biol Rep. 39:9023-9030. (IF=2.024;R/C=202/290=69.66%,SCI)
21	Tseng HH, Chen PN, Kuo WH, Wang JW, **Chu SC**, Hsieh YS*. (2012) Antimetastatic Potentials of Phyllanthusurinaria L on A549 and Lewis Lung Carcinoma Cells via Repression of Matrix-Degrading Proteases. Integr Cancer Ther. 11: 267-278. (IF=2.361;R/C=5/24=20.83%,SCI)
22	Chang, YC, Chen, PN, **Chu SC,** Lin, CY, Kuo. WH and Hsieh, YS*(2012) Black tea polyphenols reverse epithelial-to-mesenchymal transition and suppress cancer invasion and proteases in human oral cancer cells. J Agric Food Chem (IF=2.912;R/C=2/56=3.57%,**SCI**)
23	Kuo DY, Chen PN, Kuo MH, Chen CH, Hsieh YS, **Chu SC** *. (2012) NF-κB knockdown can modulate amphetamine-mediated feeding response. Neuropharmacology. 62(4):1684-94. (IF=5.106;R/C=20/255==7.84%,**SCI**)
24	Kuo DY, Chen PN, **Chu SC**, Hsieh YS*. (2012) Knocking down the transcript of NF-kappaB modulates the reciprocal regulation of endogenous antioxidants and feeding behavior in phenylpropanolamine-treated rats. Arch Toxicol. 86(3):453-63. (IF=5.98;R/C=6/88=6.81%,**SCI**)
25	Chang, H.R., Chen, P.N., Yang, S.F., Sun, Y.S., Wu, S.W., Hung, T.W., Lian, J.D., **Chu SC**. and Hsieh, Y.S.* (2011) Silibinin inhibits the invasion and migration of renal carcinoma 786-O cells *in vitro*, inhibits the growth of xenografts *in vivo* and enhances chemosensitivity to 5-fluorouracil and paclitaxel. Mol Carcinog. 50:811-823. (IF=4.808;R/C=36/211=17.06%,**SCI**)
26	Kuo DY, Chen PN, Yang SF, **Chu SC**, Chen CH, Kuo MH, Yu CH, Hsieh YS. (2011) Role of reactive oxygen species-related enzymes in neuropeptide y and proopiomelanocortin-mediated appetite control: a study using atypical protein kinase C knockdown. Antioxid Redox Signal. 15(8):2147-59. (IF=7.407;R/C=10/128=7.81%,**SCI**)
27	Hsieh YS, Yang SF, Chen PN, **Chu SC,** Chen CH, Kuo DY*. (2011)

	Knocking down the transcript of protein kinase C-lambda modulates hypothalamic glutathione peroxidase, melanocortin receptor and neuropeptide Y gene expression in amphetamine-treated rats. J Psychopharmacol. 25:982-994. (IF=3.898;R/C=45/255=17.64%,**SCI**)
28	Chen PN, **Chu SC**, Kuo WH, Chou MY, Lin JK, Hsieh Y.S*. (2011) Epigallocatechin-3 gallate inhibits invasion, epithelial-mesenchymal transition, and tumor growth in oral cancer cells. J Agric Food Chem. 59(8):3836-44 (IF=2.912;R/C=2/56=3.57%,**SCI**)