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Education:

1987-1994 School of Medicine, National Defense Medical College, Taiwan
1999-2002 PhD, Institute of Clinical Medicine, National Yang-Ming University, Taiwan

Key Experience:

1994-1999 Resident/Fellow training, Ophthalmology, Taipei Veterans General Hospital
2000-2002 Attending physician, Department of Ophthalmology, TVGH
2002 Post-Doc, City of Hope, Bone Marrow Transplant/Stem Cell Lab, CA, USA
2003-2004 Chief, the section of Ophthalmology, Taoyuan Veterans Hospital
2002-2006 Assistant professor, Medical School, National Yang-Ming University
2005 - Attending physician, Department of Medical Research & Education, TVGH
2006 - Associate professor, Medical School, National Yang-Ming University
2007 Visiting Researcher, Molecular Biochemistry, The Scripps Research Institute (TSRI), USA
2011 - Professor, Institute of Pharmacology/Medical School, National Yang-Ming University

Five-year Publication:

1. Chiou GY, Chien CS, Wang ML, Chen MT, Yang YP, Chien Y, Chang YC, Shen CC, Chio CC, Lu KH, Ma HS, Yu YL, Chen KH, Liu DM, Miller SA, Chen YW, Huang PI, Shih YH, Hung MC*, **Chiou SH***. Epigenetic Regulation of the MiR142-3p/ Interleukin-6 Circuit in Glioblastoma. *Molecular Cell* (In press; **SCI: 15.2**)
2. Chen W, Tsai PH, Hung Y, **Chiou SH***, Mou CY*. A Non-Viral Cell Labeling and Differentiation Agent for Induced Pluripotent Stem Cells Based on Mesoporous Silica Nanoparticles. *ACS Nano*. 2013 Sep 24. [Epub ahead of print] (**SCI: 12.062**)
3. **Chiou SH***, Jiang BH, Yu YL, Chou SJ, Tsai PH, Chang WC, Chen LK, Chen LH, Chien Y, Chiou GY. Poly (ADP-ribose) polymerase 1 regulates nuclear reprogramming and promotes iPSC generation without c-Myc. *J Exp Med*. 2013 Jan. 14;210(1):85-98. (SCI:13.853; Medicine, Research & Experimental 2/112).
4. Wang ML, Pan CM, **Chiou SH**, Chen WH, Chang HY, Lee OK, Hsu HS, Wu CW. Oncostatin m modulates the mesenchymal-epithelial transition of lung adenocarcinoma cells by a mesenchymal stem cell-mediated paracrine effect. *Cancer Res*. 2012 Nov 15;72(22):6051-64. (IF=7.856)

5. Chien Y, Liao YW, Liu DM, Lin HL, Chen SJ, Chen HL, Peng CH, Liang CM, Mou CY, **Chiou SH***. Corneal repair by human corneal keratocyte- reprogrammed iPSCs and amphiphatic carboxymethyl-hexanoyl chitosan hydrogel. *Biomaterials*. 2012 Nov;33(32):8003-16.(IF=7.404)
6. Chou YT, Hsieh CH, **Chiou SH(Co-Fist author)**, Hsu CF, Kao YR, Lee CC, Chung CH, Wang YH, Hsu HS, Pang ST, Shieh YS, Wu CW. CITED2 functions as a molecular switch of cytokine-induced proliferation and quiescence. *Cell Death Differ*. 2012 Jul 20. (IF=8.849)
7. Li LF, Liu YY, Yang CT, Chien Y, Wang ML, Twu NF, Wang CY, Chung-Chi Huang CC, Kao KC, Hsu HS, **Chiou SH***. Improvement of ventilator-induced lung injury by iPSCs-derived Conditioned Medium via Inhibiting PI3K/Akt Pathway and an IP-10-related Mechanism. *Biomaterials*. 2012 Oct (IF=7.404)
8. Lo WL, Chien Y, Chiou GY, Tseng LM, Hsu HS, Chang YL, Lu KH, Chien CS, Wang ML, Chen YW, Huang PI, Hu FW, Yu CC, Chu PY, **Chiou SH***. Nuclear localization signal-enhanced RNA interference of EZH2 and Oct4 in the eradication of head and neck squamous cell carcinoma-derived cancer stem cells. *Biomaterials*. 2012;33:3693-709. (IF=7.404)
9. Chiou GY, Cherng JY, Hsu HS, Wang ML, Tsai CM, Lu KH, Chien Y, Hung SC, Chen YW, Wong CI, Tseng LM, Huang PI, Yu CC, Hsu WH, **Chiou SH***. Cationic polyurethanes-short branch PEI-mediated delivery of Mir145 inhibited epithelial-mesenchymal transdifferentiation and cancer stem-like properties and in lung adenocarcinoma. *J Control Release*. 2012;159(2):240-50.(IF=6.499)
10. Chu PM, Ma HI, Chen LH, Chen MT, Huang PI, Lin SZ, **Chiou SH***. Deregulated microRNAs identified in isolated glioblastoma stem cells - An overview. *Cell Transplant*. 2012 Nov 1.
11. Chang YL, Chen SJ, Kao CL, Hung SC, Ding DC, Yu CC, Chen YJ, Ku HH, Lin CP, Lee KH, Chen YC, Wang JJ, Hsu CC, Chen LK, Li HY, **Chiou SH***. Docosahexaenoic acid promotes dopaminergic differentiation in induced pluripotent stem cells and inhibits teratoma formation in rats with Parkinson-like pathology. *Cell Transplant*. 2012;21(1):313-32.
12. Yang YP, Chien Y, Chiou GY, Cherng JY, Wang ML, Lo WL, Chang YL, Huang PI, Chen YW, Shih YH, Chen MT, **Chiou SH***. Inhibition of cancer stem cell-like properties and reduced chemoradioresistance of glioblastoma using microRNA145 with cationic polyurethane-short branch PEI. *Biomaterials*. 2012 Feb;33(5):1462-76.(IF=7.404)
13. Yang KY, Shih HC, How CK, Chen CY, Hsu HS, Yang CW, Lee YC, Perng RP, Peng CH, Li HY, Chang CM, Mou CY, **Chiou SH***. IV delivery of induced pluripotent stem cells attenuates endotoxin-induced acute lung injury in mice. *Chest*. 2011;140:1243-53.(IF=5.250)
14. Tsai KS, Yang SH, Lei YP, Tsai CC, Chen HW, Hsu CY, Chen LL, Wang HW, Miller SA, **Chiou SH**, Hung MC, Hung SC. Mesenchymal stem cells promote formation of colorectal tumors in mice. *Gastroenterology*. 2011 Sep;141(3):1046-56. (IF=11.675)
15. Hwang WL, Yang MH, Tsai ML, Lan HY, Su SH, Chang SC, Teng HW, Yang SH, Lan YT, **Chiou SH***, Wang HW*. SNAIL regulates interleukin-8 expression, stem cell-like activity, and tumorigenicity of human colorectal carcinoma cells. *Gastroenterology*. 2011 Jul;141(1):279-91, 291.e1-5. Epub 2011 Apr 16. (IF=11.675)

16. Peng CH, Cherng JY, Chiou GY, Chen YC, Chien CH, Kao CL, Chang YL, Chien Y, Chen LK, Liu JH, Chen SJ, **Chiou SH***. Delivery of Oct4 and SirT1 with cationic polyurethanes-short branch PEI to aged retinal pigment epithelium. *Biomaterials*. 2011;32(34):9077-88. (IF=7.404)
17. Li HY, Chien Y, Chen YJ, Chen SF, Chang YL, Chiang CH, Jeng SY, Wang ML, Hung SI, Huo TI, Lee SD, **Chiou SH***. Reprogramming induced pluripotent stem cells in the absence of c-Myc for differentiation into hepatocyte-like cells. *Biomaterials*. 2011;32:5994-6005. (IF=7.404)
18. Lo WL, Yu CC, Chiou GY, Chen YW, Huang PI, Tseng LM, Chu PY, Lu KH, Chang KW, Kao SY, **Chiou SH***. MicroRNA-200c attenuates tumour growth and metastasis of presumptive head and neck squamous cell carcinoma stem cells. *J Pathol*. 2011;223:482-95. (IF=6.318)
19. Yang MH, Wu MZ, **Chiou SH**, Chen PM, Chang SY, Liu CJ, Teng SC, Wu KJ. Direct regulation of TWIST by HIF-1alpha promotes metastasis. *Nat Cell Biol*. 2008 Mar;10(3):295-305.(IF=19.488)
20. **Chiou SH***, Yu CC, Huang CY, Lin SC, Liu CJ, Tsai TH, Chou SH, Chien CS, Ku HH, Lo JF. Positive correlations of Oct-4 and Nanog in oral cancer stem-like cells and high-grade oral squamous cell carcinoma. *Clin Cancer Res*. 2008 Jul 1;14(13):4085-95.(IF=7.742)