

簡歷

林頌然 (Sung-Jan Lin)

現職：

特聘教授

台灣大學 醫學工程系/皮膚科/基因體與系統生物學學程/臨床醫學研究所

台灣大學 醫學院研發分處副主任/ 發育與再生醫學研究中心主任

台大醫院 尖端醫療發展中心主任/醫學研究部副主任/皮膚部主治醫師

清華大學合聘教授

台灣幹細胞學會理事長/台灣研究皮膚科醫學會理事長



經歷：

1999-2003 台大醫院皮膚部住院醫師

2004-2006 台大醫院雲林分院皮膚科主治醫師

2007-2012 台灣大學醫學工程研究所暨台灣大學醫學院皮膚科助理教授

2010-2012 美國加州南加州大學醫學院訪問助理教授

2012-2016 台灣大學醫學工程研究所暨台灣大學醫學院皮膚科副教授

2016- 台灣大學醫學工程研究所暨台灣大學醫學院皮膚科教授

主要學歷：

台灣大學醫學系畢業 (1998)/ 台灣大學醫學工程研究所博士(2006)

榮譽及獲獎：

2009 中央研究院年輕學者研究著作獎

2010 國科會吳大猷紀念獎/台灣大學教學優良獎/國家衛生研究院醫師研究獎 (2010-2015)

2012 Basic Research Award, Asia-Pacific La Roche-Posay Foundation/青杏醫學獎

2013 台灣大學教學優良獎

2014 台灣生技醫藥發展基金會生技講座 (2014-2024)/科技部傑出研究獎/台大醫院傑出研究獎/
李鎮源院長紀念醫學獎

2017 徐有庠先生紀念基金會傑出教授獎

2018 Basic Research Award, Asia-Pacific La Roche-Posay Foundation

2020 國立清華大學伍焜玉院士學術講座 (Kenneth K. Wu Chair Professor)

2021 科技部傑出研究獎

研究領域：

1. Regenerative biology and stem cell 2. Tissue engineering 3. Hair follicle 4. Biomedical optics

代表著作：

A. 期刊原著論文 (* 通訊作者) Selected Publication

1. Shwartz Y#, Gonzalez-Celeiro M#, Chen CL#, Pasolli HA, Sheu SH, Fan SMY, Shamsi F, Assad S, Lin ETY, Zhang B, Tsai PC, He M, Tseng YH, Lin SJ*, Hsu YC*. Cell types promoting goosebumps form a niche to regulate hair follicle stem cells. *Cell* 182: 578-593, 2020. (# equal contribution)
2. Fan SMY, Chang YT, Chen CL, Wang WH, Pan MK, Chen WP, Huang WY, Xu Z, Huang HE, Chen T, Plikus MV, Chen SK*, Lin SJ*. External light activates hair follicle stem cells through eyes via an ipRGC-SCN-sympathetic neural pathway. *Proceedings of the National Academy of Sciences of USA*

115:E6880-E6889, 2018.

3. Fan SMY, Tsai CF, Yen CM, Lin MH, Wang WH, Chan CC, Chen CL, Phua KKL, Pan SH, Plikus MV, Yu SL, Chen YJ*, Lin SJ*. Inducing hair follicle neogenesis with secreted proteins enriched in embryonic skin. *Biomaterials* 167:121-131, 2018.
4. Huang WY, Lai SF, Chiu HY, Chang M, Plikus MV, Chan CC, Chen YT, Tsao PN, Yang TL, Lee HS, Chi P, Lin SJ*. Mobilizing transit-amplifying cell-derived ectopic progenitors prevents hair loss from chemotherapy or radiation therapy. *Cancer Research* 77:6083-6096, 2017
5. Li YC, Lin MW, Yen MH, Fan SMY, Wu JT, Young TH, Cheng JY, Lin SJ*. Programmable laser-assisted surface microfabrication on a polyvinyl alcohol-coated glass chip with self-changing cell adhesivity for heterotypic cell patterning. *ACS Applied Materials & Interfaces* 7:22322-32, 2015.
6. Sheen YS, Fan SMY, Chan CC, Wu YF, Jee SH, Lin SJ*. Visible red light enhances physiological anagen entry in vivo and has direct and indirect stimulative effects in vitro. *Lasers in Surgery and Medicine* 47: 50-9, 2015.
7. Lin SJ, Foley J, Jiang TX, Yeh CY, Wu P, Foley A, Yen CM, Huang YC, Cheng HC, Chen CF, Reeder B, Jee SH, Widelitz RB, Chuong CM. Topology of feather melanocyte progenitor niche allows complex pigment patterns to emerge. *Science* 340:1442-5, 2013.
8. Huang YC, Chan CC, Lin WT, Chiu HY, Tsai RY, Tsai TH, Chan JY, Lin SJ*. Scalable production of controllable dermal papilla spheroids on PVA surfaces and the effects of spheroid size on hair follicle regeneration. *Biomaterials* 34:442-451, 2013.
9. Yen CM, Chan CC, Lin SJ*. High-throughput reconstitution of epithelial-mesenchymal interaction in folliculoid microtissues by biomaterial-facilitated self-assembly of dissociated heterotypic adult cells. *Biomaterials* 31:4341-4352, 2010.
10. Young TH, Tu HR, Chan CC, Huang YC, Yen MH, Cheng NC, Chiu HC, Lin SJ*. The enhancement of dermal papilla cell aggregation by extracellular matrix proteins through effects on cell-substratum adhesivity and cell motility. *Biomaterials* 30:5031-40, 2009.
11. Young TH, Lee CY, Chiu HC, Hsu CJ, Lin SJ*. Self-assembly of dermal papilla cells into inductive spheroidal microtissues on poly (ethylene-co-vinyl alcohol) membranes for hair follicle regeneration. *Biomaterials* 29:3521-30, 2008.
12. Lin SJ, Hsiao WC, Jee SH, Tsai TF, Yu HS, Lai JY, Young TH. Study on the effect of nylon-chitosan blended membranes on the spheroid forming activity of human melanocytes. *Biomaterials* 27:5079-88, 2006.
13. Lin SJ, Jee SH, Hsiao WC, Yu HS, Tsai TF, Chen JS, Hsu CJ, Young TH. Enhanced cell survival of melanocyte spheroids in serum starvation condition. *Biomaterials* 27: 1462-1469, 2006.
14. Lin SJ, Jee SH, Hsiao WC, Lee SJ, Young TH. Formation of melanocyte spheroids on the chitosan-coated surface. *Biomaterials* 26:1413-1422, 2005.
15. Lin SJ, Jee SH, Kuo CJ, Wu RJ, Lin WC, Chen JS, Liao YH, Hsu CJ, Tsai TF, Chen YF, Dong CY. Discrimination of basal cell carcinoma from normal dermal stroma by quantitative multiphoton imaging. *Optics Letters* 31: 2756-2758, 2006.
16. Lin SJ, Wu RJ, Tan HY, Lo W, Lin WC, Young TH, Hsu CJ, Chen JS, Jee SH, Dong CY. Evaluating cutaneous photoaging by use of multiphoton fluorescence and second harmonic generation microscopy. *Optics Letters* 30: 2275-7, 2005.
17. Lin SJ, Hsiao CY, Sun Y, Lo W, WC Lin, Jan GJ, Jee SH, Dong CY. Monitoring the thermally induced structural transitions of collagen using second harmonic generation microscopy. *Optics Letters* 30:622-4, 2005.