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Academic History:

1998	Department of Biomedical Sciences,	PhD in Biomedical Sciences University of California San Francisco, USA

Professional/Scientific Career:

2001- 2003	Assistant Professor	Institute of Zoology, National Taiwan University, Taiwan, ROC
2003- 2005	Assistant Professor	Department of Life Science, National Taiwan University, Taiwan, ROC
2005- 2009	Associate Professor	Department of Life Science, National Taiwan University, Taiwan, ROC
2009- Now	Professor	Department of Life Science National Taiwan University, Taiwan, ROC
2014- Now	Director	Center for Biotechnology, National Taiwan University, Taiwan, ROC

Awards/Professional Societies:

2012	NTU Excellence Teaching Award	
2000-	American Physiological Society	Member
2006-	Angiogenesis Research Society of Taiwan	Member
2011-	American Society of Cell Biology	Member
2013-	The Chinese Society of Cell and Molecular Biology	Member

Research Area/ Interests:

In our laboratory, we use human endothelial cell as model system to investigate the molecular and physiological functions of lysophospholipids, LPA and S1P. Results published by our laboratory and

also by others suggested that LPLs might be important regulators of blood vessel formation. In our recent observations, we found that LPLs are potent stimulators for the expression of cell adhesion molecules and chemotatic factors of endothelial cells. Our results suggest that LPL might play important roles in regulating endothelial cell functions.

In addition, we also generated cell lines that are sensitive to dioxin-like compounds. We attempted to use the generated cell lines to setup a biological detection system to sensitively determine the concentrations of these toxic compounds in different sample sources.

Publications * corresponding author

Selected publications (Original article, ; Review,)

1. Hsia K, Yang MJ, Chen WM, Yao CL, Lin CH, Loong CC, Huang YL, Lin YT, Lander AD, **H Lee*** and J Lu***.** S1P improves endothelialization with reduction of thrombosis in re-cellularized human umbilical vein graft by inhibiting syndecan-1 shedding in vitro. *Acta Biomaterialia*. (51):341-350. 2017.
2. KH Lin, YS Ho, JC Chiang, MW Li, SH Lin, WM Chen, CL Chiang, YN Lin, YJ Yang, CN Chen, J Lu, CJ Huang, G Tigyi. CL Yao* and **H Lee*.** Pharmacological activation of LPA receptors regulates erythropoiesis. *Scientific Reports*. 6:27050. 2016.
3. YH Ho, CL Yao, KH Lin, FH Hou, WM Chen, CL Chiang, YN Lin, MW Li, SH Lin, YJ Yang, CC Lin, J Lu*****, G Tigyi***** and **H Lee***. Opposing regulation of megakaryopoiesis by LPA receptor 2 and 3 in K562 human erythroleukemia cells. *BBA Molecular and Cell Biology of Lipid*. 1851(2): 172-83, 2015.
4. WC Weng, KH Lin, PY Wu, YF Liao, WM Hsu, WT Lee and **H Lee***. Calreticulin regulates VEGF-A in neuroblastoma cells. *Molecular Neurobiology*. 52(1): 758-70. (5.137, 36/252, 2014)
5. YC Lu, CN Chen, CY Chu, JH Lu, BJ Wang, CH Chen, M Chuang, TH Lin, CC Pan, SS Chen, WM Hsu, YF Liao, PY Wu, HY Hsia, CC Chang***** and **H Lee***. Calreticulin activates beta1 integrin through fucosylation modification by fucosyltransferase-1 in J82 human bladder cancer cells. *Biochemical Journal.* 460(1): 69-78. (Schwartz M: F1000Prime Recommendation of [Lu YC et al., *Biochem J* 2014, 460 (1): 69-78]. In F1000Prime, 17 Jun 2014; F1000Prime.com/718300946#eval793496276)