

<b>BIOGRAPHICAL SKETCH</b>			
NAME in English <b>Li-Mei Pai</b>	POSITION TITLE Associate Professor, Graduate Institute of		
NAME in Chinese <b>白麗美</b>	Biomedical Sciences, Department of Biochemistry		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
National Yang-Ming University, Taiwan	B.S.	05/1989	Microbiology and Immunology
University of North Carolina at Chapel Hill	Ph.D.	05/1997	Developmental Biology
Princeton University	Postdoctoral	12/2000	Developmental Biology

## **A. Positions and Honors**

### **Positions and Employment**

2000 Dec-present Assistant professor, Chang-Gung University (Taiwan)

Graduate Institute of Biomedical Science

Department of Biochemistry

### **Other Experience and Professional Memberships**

1997- Member, Genetics Society of America

## **B. Selected Peer-reviewed Publications (2005-2014) (in chronological order)**

Chou HY, Lin YH, Shiu GL, Tang HY, Cheng ML, Shiao MS, **Pai LM\***. (2014. 07) ADI1, amethionine salvage pathway enzyme, is required for. J Biomed Sci. 19;21(1):64. SCI

Tsai YC, Chiang W, Liou W, Lee WH, Chang YW, Wang PY, Li YC, Tanaka T, Nakamura A, **Pai LM\***. (2014. 2) Endophilin B is required for the Drosophila oocyte to endocytose yolk downstream of Oskar. Development. 141(3):563-73. SCI

Chen YL, Chen TT, **Pai LM**, Wesoly J, Bluysen HA, Lee CK\*. (2013. 9) A type I IFN-Flt3 ligand axis augments plasmacytoid dendritic cell development from common lymphoid progenitors. J Exp Med. 18; 210 (12):2515-22. SCI

Wang JC, Wang PY, Chen HI, Wu KL, **Pai LM**, Nee TE\*. (2013.6 ) Lie Group Analysis of the Photo-Induced Fluorescence of Drosophila Oogenesis with the Asymmetrically Localized Gurken Protein. PLoS One. 19;8(6):e65143. SCI

Pi H, Huang YC, Chen IC, Lin CD, Yeh HF, **Pai LM\***. (2011. 6) Identification of 11-amino acid peptides that disrupt Notch-mediated processes in Drosophila. J Biomed Sci. 17;18:42. SCI

Wang JC, Wang PY, Huang RR, Lin WC, Fang CH, **Pai LM**, Nee TE\*. (2011. 4) Lie group study of Raman spectra of the Gurken gradient in Drosophila oogenesis. Anal Bioanal Chem.; 400(2):335-41. SCI

Wang PY, **Pai LM\***. (2011. 2) D-Cbl binding to Drk leads to dose-dependent down-regulation of EGFR signaling and increases receptor-ligand endocytosis. PLoS One. 14;6(2):e17097. SCI

Nian-Kang Sun, Chun-Ling Sun, Chia-Hua Lin, **Li-Mei Pai** and Chuck C.-K. Chao\*. (2010. 04) Damaged DNA-binding protein 2 (DDB2) protects against UV irradiation in human cells and Drosophila. Journal of Biomedical Science,17, 27. SCI

Chen-Hsin Liao, Shih-Chi Yeh, Ya-Hui Huang, Ruey-Nan Chen, Ming-Ming Tsai, Wei-Jan Chen, Hsiang-Cheng Chi, Pei-Ju Tai, Chia-Jung Liao, Sheng-Ming Wu, Wan-Li Cheng, **Li-Mei Pai** and Kwang-Huei Lin.\* (2010.01) Positive regulation of spondin 2 by thyroid hormone is associated with cell migration and invasion. Endocrine-Related Cancer. 17(1):99-111 .SCI

Ju-Chien Cheng, Yung-Ju Yeh, **Li-Mei Pai**, Ming-Ling Chang and Chau-Ting Yeh.\*(2009) 293 Cells Overexpressing Human ADI1 and CD81 are Permissive for Serum-derived Hepatitis C Virus Infection. Journal of Medical Virology, 81, 1560-1568. SCI

Lan-Sun Chen, Pei-Chi Wei, Taming Liu, Chung-Hsuan Kao, **Li-Mei Pai** and Chien-Kuo Lee.\* (2009/02). STAT2 hypomorphic mutant mice display impaired dendritic cell development and antiviral response. Journal of Biomedical Science,16, 22. SCI

Wang, P.Y., Chang, W. L., and **Pai, L.M.\*** (2008) Smiling Gurken gradient. Fly, 2:3, 1-3. SCI

Chang, W. L., Liou, W., Pen, H.C., Chou, H.Y., Chang, Y.W., Li, W.-H., Chiang, W. and **Pai, L.M.\*** (2008) The gradient of Gurken, a long range morphogen, is directly regulated by Cbl-mediated endocytosis. Development, 135, 1923-1933. SCI

**Pai, L.M.\***, Wang, P.Y., Chen, S.R., Barcelo, G., Chang, W.L., Nilson, L., and Schüpbach, T.

(2006) Differential effects of Cbl isoforms on Egfr signaling in *Drosophila*. *Mechanisms of Development*, 123, 450-462. SCI

\*: corresponding author

## **C. Research Support**

### **Ongoing Research Support**

MOST 103-2311-B-182 -004 -MY3

08/01/2014 ~ 07/31/2017

Study of the biological function and regulation of CTP synthase filamentous structure.

The goal of this study is to study the biological function of CTPsyn-composed filamentous structure, and reveal the regulation mechanism.

Role: PI

CMRPD2B0061-3

10/01/2012-09/30/2015

探討 ADII 调控高基氏體活性的分子機制及其生理功能(1/3)

The goal of this study is to investigate the molecular mechanism and physiological functions of ADII in regulation of Golgi activity .

Role: PI

### **Completed Research Support (2006-2014)**

NSC 100-2311-B-182 -001 -MY3

08/01/2011 ~ 07/31/2014

Functional analyses of Endophilin B isoforms in *Drosophila* brain and ovary

The goal of this study is to investigate the molecular mechanism of Endophilin B in brain and ovary.

Role: PI

NSC97-2311-B-182-001-MY3

08/01/2008-07/31/2011

The role of D-Cbl in epithelial cell polarity

The goal of this study is to investigate the molecular mechanism by which D-CblS, a negative regulator of EGFR signaling, affects the polarity of *Drosophila* follicular epithelium.

Role: PI

NSC96-2311-B-182-004

08/01/2007-07/31/2008

Characterization of a novel gene in *Drosophila* dorsal-ventral patterning

The goal of this study was to cloning a new gene involving in body axis determination of *Drosophila*.

Role: PI

NSC96-2311-B-182-005

08/01/2006-07/31/2006

The mechanism by which D-Cbl down-regulates EGFR signaling

The goal of this project was to analyze the mechanism of reducing Egfr signaling by D-Cbl.

Role: PI

CMRPD180111-3

06/01/2009-05/31/2012

研究影響 HCV 感染的細胞蛋白 ADI1 之功能

The goal of this study is to study the function of Adi1 during HCV infection.

Role: PI

CMRPD180111-180113

06/01/2009-05/31/2012

Functional analysis of a novel HCV-associated cellular factor (ADI1) in human hepatocellular carcinoma and in Drosophila

The goal of this study is to study the function of D-ADI1 in Drosophila development and reveal the role of h-ADI1 in HCV infection.

Role: PI

CMRPD140201-3

10/01/2005-09/30/2008

Identification of genes abnormally up-regulated in Hepatocellular Carcinoma controlling metastasis

The goal of this project was to find biological function of highly expressed genes in HCC in cell migration

Role: PI