



Li-Mei Pai, Ph.D./白麗美 博士

Graduate Institute of Biomedical Sciences,
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Education & Professional Experience

1997 PhD Department of Biology, University of North Carolina at Chapel Hill
1997-2000 Postdoctoral Fellow, HHMI, Department of Molecular Biology, Princeton University
2001-2010 Assistant Professor Dept. Biochemistry and Molecular Biology, Chang Gung University
2010-2016 Associate Professor Dept. Biochemistry and Molecular Biology, Chang Gung University
2016-present Professor Dept. Biochemistry and Molecular Biology, Chang Gung University

Research Interests

My research focuses on how post-translational modifications, including ubiquitination and methylation, of CTP synthase filaments modulate the physiological roles of this novel membraneless organelle in cancer formation and during fly development.

Awards and Honors

2016-present The Fly Board, Asia Representative
2017-present American Society of Cell Biology, Chang Gung University Representative
2017-present Board Member of Taiwan Society of Developmental Biology

Selected Publications

1. Wei-Cheng Lin, Archan Chakraborty, Shih-Chia Huang, Pei-Yu Wang, Ya-Ju, Hsieh, Kun-Yi Chien, Yen-Hsien Lee, Chia-Chun Chang, Hsiang-Yu Tang, Yu-Tsun Lin, Chang-Shung Tung, Ji-Dung Luo, Ting-Wen Chen, Tzu-Yang Lin, Mei-Ling Cheng, Yi-Ting Chen, Chau-Ting Yeh; Ji-Long Liu, Li-Ying Sung, Ming-Shi Shiao, Jau-Song Yu, Yu-Sun Chang, **Li-Mei Pai***. (2018) Histidine-dependent protein methylation is required for the compartmentalization of CTPS. *Cell Reports* doi.org/10.1016/j.celrep.2018.08.007.
2. Yu-Hung Lin; Yen-Yi Zhen; I-Ching Lee; Wei-Chi Lin; Mei-Yu Chen; **Li-Mei Pai***. (2017) LIMCH1 regulates nonmuscle myosin-II activity and suppresses cell migration. *Molecular Biology of Cell* 28(8):1054-1065.
3. Pei-Yu Wang, Wei-Cheng Lin, Yi-Cheng Tsai, Mei-Ling Cheng, Yu-Hung Lin, Shu-Heng Tseng, Archan Chakraborty, **Li-Mei Pai***. (2015) Regulation of CTP synthase filament formation during DNA endoreplication in *Drosophila*. *Genetics* 201:1511-1523.
4. Yi-Cheng Tsai, Wei Chiang, Willisa Liou, Wei-Hao Lee, Yu-Wei Chang, Yi-Chen Li, Pei-Yu Wang, Tsubasa Tanaka, Akira Nakamura, and **Li-Mei Pai***. (2014) Endophilin B is required for *Drosophila* oocyte to endocytose yolk downstream of Oskar. *Development* 141 (3):563-573.
5. Wei-Ling Chang, Willisa Liou, Hsiao-Chung Pen, He-Yen Chou, Yu-Wei Chang, Wei-How Li, Wei Chiang, and **Li-Mei Pai***. (2008) The gradient of Gurken, a long range morphogen, is directly regulated by Cbl-mediated endocytosis. *Development* 135:1923-1933.