個人資料簡介

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Lab Webpage: https://hdymlab.wixsite.com/website

學歷 EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
National Taiwan University, Taipei, Taiwan 國立台灣大學	B.S.	1999	Zoology
National Yang-Ming University, Taipei, Taiwan 國立陽明大學	M.S.	2001	Microbiology and Immunology
Duke University, Durham, NC, U.S.A.	Ph.D.	2007	Immunology
Genentech, South San Francisco, CA, U.S.A.	Postdoc	2012	Immunology
Center of Therapeutic Invention, Pfizer, San Francisco, CA, U.S.A.	Senior Scientist	2013	Translational Immunology

工作經歷 Positions:

2019-present: Associate Professor

2013-2019: Assistant Professor

Institute of Microbiology and Immunology, National Yang-Ming University, Taipei, Taiwan

2012-2013: Senior Scientist

Center of Therapeutic Innovation, Pfizer, San Francisco, California, U.S.A.

發表著作 Selected peer-reviewed publications (in chronological order):

- Fan HH, Tsai TL, Dzhagalov I, **Hsu CL***. Evaluation of Mitochondria Content and Function in Live Cells by Multi-color Flow Cytometric Analysis. Methods in Molecular Biology, 2021, Vol. 2276: 203-213. doi: 0.1007/978-1-0716-1266-8_15 *corresponding author
- Hsuan-Po Hsu, Yun-Tzu Chen, Yu-Ying Chen, Chih-Yu Lin, Po-Yu Chen, Shio-Yi Liao, Ciara Christianne Y. Lim, Yu Yamaguchi, **Chia-Lin Hsu**, Ivan L. Dzhagalov. Heparan sulfate is essential for thymus growth. *Journal of Biological Chemistry*, Feb, 2021, S0021-9258(21)00192-7, https://doi.org/10.1016/j.jbc.2021.100419
- Feng HK, CF Chu, Sun KH, **Hsu CL**, Dzhagalov I. Examination of Fas-induced apoptosis of murine thymocytes in thymic tissue slices reveals that Fas is dispensable for negative selection. *Cell Dev. Biol., 21 October 2020* | *https://doi.org/10.3389/fcell.2020.586807*
- Hsu KH, Wei CW, Su YR, Chou T, Lin YL, Yang FC, Tsou AP, **Hsu CL**, Tseng PH, Chen NJ, Jeng KS, Leu CM. Upregulation of RelB in the miR-122 knockout mice contributes to increased levels of proinflammatory chemokines/cytokines in the liver and macrophages. *Immunology Letters, July 02, 2020*
- Zhou TA, **Hsu CL**, Dzhagalov IL*. Testing the Efficiency and Kinetics of Negative Selection Using Thymic Slices. Methods Mol Biol. 2020;2111:205-219. doi: 10.1007/978-1-0716-0266-9_17.
- **Hsu CL***, Dzhagalov I. Metabolite Transporters—The Gatekeepers for T cell Metabolism. *Immunometabolism. 2019;1:e190012. doi.org/10.20900/immunometab20190012* *corresponding author
- **Hsu CL*,** Dzhagalov I, Niu DM*. “Response to Chung et al.” *Genetics in Medicine Jan 22, 2019* * co-corresponding author
- Wei, C.W., Zhou, T.A., Dzhagalov, I.L., **Hsu, C.L.*** Multicolor Flow Cytometry-based Quantification of Mitochondria and Lysosomes in T Cells. *J. Vis. Exp.* e58844, doi:10.3791/58844 (2018). *corresponding author

- Wei CW, Lee CY, Lee DJ, Chu CF, Wang JC, Wang TC, Jane WN, Chang ZF, Leu CM, Dzhagalov I, **Hsu CL*.** Equilibrative Nucleoside Transporter 3 regulates T cell homeostasis by coordinating lysosomal function with nucleoside availability. *Cell Reports 23, 2018: 2330-2341. doi:10.1016/j.celrep.2018.04.077* ***corresponding author
- Hsu MJ, Chang FP, Lu YH, Hung SC, Wang YC, Yang AH, Lee HR, Sung SH, Wang YF, Yu WC, Hsu TR, Huang, Chang SK, Dzhagalov I, **Hsu CL***, Niu DM*. Identification of Lysosomal and Extralysosomal Globotriaosylceramide (Gb3) Accumulations Before the Occurrence of Typical Pathological Changes in the Endomyocardial Biopsies of Fabry Disease Patients. *Genetics in Medicine 06 June 2018: 21, 224-232 doi:10.1038/s41436-018-0010-z* * co-corresponding author
- Hsu MJ, Hsiao W, Chang FP, Ding HT, Lu YH, Chang SK, Dzhagalov I, Niu DM, **Hsu CL*.** Pathogenic T cells contribute to the later-onset (IVS4+919G>A) Fabry Disease cardiomyopathy *(submitted)* ***corresponding author
- Chuang TY, Cheng AJ, Lan TY, Huang IH, Shiau CW, **Hsu CL**, Liu YW, Tseng PH, Chang ZF, Kuo JC. Suppression of LPS-induced inflammatory responses by the hydroxyl groups of dexamethasone. *Oncotarget 2017 Jul 25;8(30):49735-49748*
- Hsu TR, Hung SC, Chang FP, Yu WC, Sung SH, **Hsu CL**, Dzhagalov I, Yang CF, Chu TH, Lee HJ, Lu YH, Chang SK, Liao HC, Lin HY, Liao TC, Lee PC, Li HY, Yang AH, Ho HC, Chiang CC, Lin CY, Desnick RJ, Niu DM. Later Onset Fabry Disease, Cardiac Damage Progress in Silence, *Journal of the American College of Cardiology* 68, 2016: 2554-2563.

- **Hsu CL**, Lin W, Seshasayee D, Chen YH, Ding X, Lin Z, Suto E, Huang Z, Lee WP, Park H, Xu M, Sun M, Rangell L, Lutman JL, Ulufatu S, Stefanich E, Chalouni C, Sagolla M, Diehl L, Fielder P, Dean B, Balazs M and Martin F. Equilibrative Nucleoside Transporter 3 Deficiency Perturbs Macrophage Lysosome Functions and Homeostasis. *Science, 6 January 2012: 89-92.*

- Chung E, **Hsu CL**, and Kondo M. Constitutive MAP kinase activation in hematopoietic stem cells induces myelo-proliferative neoplasm. *PLos One, 2011;6(12):e28350. Epub 2011 Dec 2.*

- **Hsu CL,** and Kondo M.To be or not to be: that is the question—Lineage Commitment in Hematopoiesis. *Current Immunology Reviews,* 2007 Nov:3 (4) pp. 258-268(11)
- **Hsu CL**, Kikuchi K, Kondo M. Activation of MEK/ERK signaling is involved in myeloid lineage commitment during hematopoiesis. *Blood,* 2007 Sep 1;110(5):1420-8. Epub 2007 May 29.
- **Hsu CL**, King-Fleischman AG, Lai AY, Matsumoto Y, Weissman IL, Kondo M. Antagonistic effect of CCAAT enhancer-binding protein-alpha and Pax5 in myeloid or lymphoid lineage choice in common lymphoid progenitors. *Proc Natl Acad Sci U S A.* 2006 Jan 17;103(3):672-7.
- Kikuchi K, Lai AY, **Hsu CL**, Kondo M. IL-7 receptor signaling is necessary for stage transition in adult B cell development through up-regulation of EBF. *J Exp Med.* 2005 Apr 18;201(8):1197-203.

- He YW, Li H, Zhang J, **Hsu CL**, Lin E, Zhang N, Guo J, Forbush KA, Bevan MJ. The extracellular matrix protein mindin is a pattern-recognition molecule for microbial pathogens. *Nat Immunol.* 2004 Jan;5(1):88-97.

獲獎紀錄 **Awards**

- 2021-2023 特殊優秀教研人員獎勵 -- 傑出教研人員
- 2019-2021 Outstanding research award 教師研究卓越獎勵
- 2019 Ta-You Wu Memorial Award 吳大猷先生紀念獎
- 2019 VGH-UST outstanding research award 榮台聯大合作研究優良論文獎
- 2018 Li-Yang Shen memorial award 沈力揚先生紀念獎
- 2018 Shui-Te Shen memorial award for excellent immunology research 沈水德優秀論文獎
- 2018 VGH-UST research symposium poster award 榮台聯大合作研究優良壁報獎
- 2016 Teaching excellence award, School of life science, NYMU 陽明大學生命科學院優良教師獎

教授課程 **Courses offered**

- Basic Immunology: Full semester course (Undergraduate level) in Chinese
- Microbiology and Immunology: Multiple sessions (Graduate level) in Chinese
- Methodology: Flow cytometry and applications (Graduate level) in Chinese
- Advanced immunology: Hematopoiesis, Immunometabolism (Graduate level) in Chinese
- Molecular Cell Biology: Immune system, Stem cells (Graduate level) in English
- Current techniques in molecular biology: Flow cytometry and applications (Graduate level) in English
- Current Topics in Immunology: Full semester course (Graduate level) in English
- Seminars: Full semester course (Graduate level) in English

參與學術活動 **Committee and Administrative activity**

- Review Editor in Molecular Innate Immunity, Frontiers. 2020-present
- Ad hoc Journal reviewer: Scientific Reports, Frontiers in immunology, Journal of Microbiology, Immunology and Infection, eLife
- Ad hoc Funding reviewer: Ministry of Science and Technology, Taiwan

  科技部生科司醫學生化及分子生物組複審委員：2019- 2020

  科技部生科司寄生蟲學、醫事技術及實驗診斷學科複審委員: 2021-resent

- NYMU IACUC committee: 2016-2020
- Taiwan International Graduate Program (TIGP) steering committee: 2015- 2021