

陳彥樺

Chen, Yen-Hua

國立中山大學醫學院

學士後醫學系 助理教授

College of Medicine, National Sun Yat-sen University

School of Medicine assistant professor

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Office: 國際研究大樓 5 樓 IR5008

TEL:(0)5252000 ext.7308

E-mail:yc2023@mail.nsysu.edu.tw

現職/ Current Position

※國立中山大學學士後醫學系 助理教授

School of Medicine, National Sun Yat-sen University, assistant professor

※國立中山大學精準醫學研究所 (合聘)助理教授

Institute of Precision Medicine, National Sun Yat-sen University, assistant professor

學歷/ Education

※Degree: Ph.D. in Microbiology & Immunology, **Columbia University (New York, USA)**, 2017

※Degree: Master of Science: Microbiology, **National Taiwan University, College of Medicine (Taipei, Taiwan)**, 2010

※Degree: Bachelor of Science: Biological Science and Technology, **National Chiao Tung University, (Hsinchu, Taiwan)**, 2008

博士:微生物學與免疫學，哥倫比亞大學，美國

碩士:微生物學，國立台灣大學醫學院，微生物學研究所 2010

學士:生物科技學系，國立交通大學 2008

專長/ Expertise

※免疫學 immunology

※微生物學 microbiology

※免疫代謝 immunometabolism

※氣喘 asthma

※粒線體 mitochondria

※基因調控 gene regulation

專科執照/ Professional Certifications

經歷/ Professional Experience

※Post-doctoral Research Associate 2017-2023

Department of Microbiology and Immunology and Jill Roberts Institute for Research in Inflammatory Bowel Disease, Weill Cornell Medicine, USA.

Division of Pulmonary and Critical Care Medicine, Joan and Sanford I. Weill

Department of Medicine Cornell University, USA

博士後研究 2017-2023

內科微生物與免疫學部門

肺部與重症照護部門

康乃爾大學威爾醫學院，美國

學術榮譽/ Academic Honors

※2024 芳香烴受體國際研討會 壁報第三名

2024 International Symposium on Aryl Hydrocarbon Receptor (AHR) Poster Award 3rd

※**Senior Research Training Fellowship**, American Lung Association, USA (2018 to 2020)

Research Project: Role of Arginase Metabolism in Innate Lymphoid Cell-mediated Lung Inflammation

教學榮譽/ Teaching Honors

※頒獲校級教學優良課程

111 學年度第 2 學期 醫用微生物學概論(GEAI1931)

112 學年度第 2 學期 醫用微生物學概論(GEAI1931)

※The Fulbright EMI Overseas Professional Teacher Training Program (113 Academic Year) Sponsored by the Academic Exchange Foundation.

Training to be held at the University of California, San Diego, 2025.

主持研究計畫(近三年)

1. 國科會計畫:

第二型先天性淋巴細胞中粒線體與脂滴的交互作用對肺部發炎反應的影響(第一期 2023)，(第二期 2024)

National Science and Technology Council, Taiwan (Phase I:2023 to 2024; Phase II 2024 to 2025)

Project title: Mitochondria and lipid droplets interaction in type II innate lymphocytes affects pulmonary inflammatory response.

2. 中山-高醫計畫 2024

代謝症候群影響腎小管粒腺體 AKT1 及腎病免疫反應的途徑

NSYSU-KMU JOINT RESEARCH PROJECT, Taiwan (2024)

Project title: Metabolic syndrome affects the pathways of renal tubular mitochondria AKT1 and renal disease immune response.

研究成果目錄/ List of Research Outputs

- 英文期刊論文/ English Journal Articles
- Wen-Hsuan W. Lin, William C. Adams, Simone A. Nish, **Yen-Hua Chen**, Bonnie Yen, Nyanza J. Rothman, Radomir Kratchmarov, Takaharu Okada, Ulf Klein, Steven L. Reiner. (2015)
Asymmetric PI3K signaling driving developmental and regenerative cell fate bifurcation.
Cell Reports. 13: 2203-2218. PMID: 26628372.
- Olga Pikovskaya, Julie Chaix, Nyanza J. Rothman, Amélie Collins, **Yen-Hua Chen**, Anna M. Scipioni, Eric Vivier and Steven L. Reiner. (2016)
Eomesodermin Is Sufficient To Direct Type 1 Innate Lymphocyte Development into the Conventional NK Lineage.
The Journal of Immunology. 196(4):1449-54. PMID: 26792802.
- William C. Adams, **Yen-Hua Chen***, Radomir Kratchmarov, Bonnie Yen, Simone A. Nish, Wen-Hsuan W. Lin, Nyanza J. Rothman, Larry L. Luchsinger, Ulf Klein, Jeffrey C. Rathmell, Hans-Willem Snoeck, Steven L. Reiner. (2016)
Anabolism-Associated Mitochondrial Stasis Driving Lymphocyte Differentiation over Self-Renewal. Cell Reports 17(12):3142-3152.
PMID: 28009285. [Co-first author]
- Wen-Hsuan W. Lin, Simone A. Nish, Bonnie Yen, **Yen-Hua Chen**, William C. Adams, Radomir Kratchmarov, Nyanza J. Rothman, Avinash Bhandoola, Hai-Hui Xue, Steven L. Reiner. (2016) CD8⁺ T Lymphocyte Self-Renewal during Effector Cell Determination. Cell Reports 17(7):1773-1782. PMID: 27829149
- Simone A. Nish, Kyra D. Zens, Radomir Kratchmarov, Wen-Hsuan W. Lin, William C. Adams, **Yen-Hua Chen**, Bonnie Yen, Nyanza J. Rothman, Avinash Bhandoola, Hai-Hui Xue, Donna L. Farber, Steven L. Reiner. (2017) CD4⁺ T cell effector commitment coupled to self-renewal by

- asymmetric cell divisions. *J Exp Med*. 214(1):39-47. PMID: 27923906
- Radomir Kratchmarov, Simone A Nish, Wen-Hsuan W Lin, William C Adams, **Yen-Hua Chen**, Bonnie Yen, Nyanza J Rothman , Ulf Klein, Steven L Reiner. (2017) IRF4 Couples Anabolic Metabolism to Th1 Cell Fate Determination. *Immunohorizons*. 2017 Sep 1;1(7):156-161. PMID: 28944344 PMCID: PMC5608100
 - **Yen-Hua Chen***, Radomir Kratchmarov, Wen-Hsuan W. Lin, Nyanza J. Rothman, Bonnie Yen, William C. Adams, Simone A. Nish, Jeffrey C. Rathmell, Steven L. Reiner. (2018) Asymmetric PI3K Activity in Lymphocytes Organized by a PI3K-Mediated Polarity Pathway. *Cell Reports* 22(4):860-868. PMID: 29420173 [Co-first author]
 - Chi-Dung Yang, Hsi-Yuan Huang, Sirjana Shrestha, **Yen-Hua Chen**, Hsien-Da Huang, Ching-Ping Tseng. (2018) Large-Scale Functional Analysis of CRP-Mediated Feed-Forward Loops. *International Journal of Molecular Sciences* 19(8):2335 PMID: 30096859
 - Yang-Chi-Dung Lin, Hsi-Yuan Huang, Sirjana Shrestha, Chih-Hung Chou, **Yen-Hua Chen**, Chi-Ru Chen, Hsiao-Chin Hong, Jing Li, Yi-An Chang, Men-Yee Chiew, Ya-Rong Huang, Siang-Jyun Tu, Ting-Hsuan Sun, Shun-Long Weng, Ching-Ping Tseng, Hsien-Da Huang. (2020) Multi-omics profiling reveals microRNA-mediated insulin signaling networks. *BMC Bioinformatics*. 21(suppl 13): 389 PMID: 32938376
 - Hugo Y.-H. Lin, Chan-Jung Liang, Ming-Yu Yang, Phang-Lang Chen, Tzu-Ming Wang, **Yen-Hua Chen**, Yao-Hsiang Shih, Wangta Liu, Chien-Chih Chiu, Chih-Kang Chiang, Chang-Shen Lin, Han-Chen Lin. (2024) Critical Roles of Tubular Mitochondrial ATP Synthase Dysfunction in Maleic Acid-induced Acute Kidney Injury. *Apoptosis*. 2024 Jan 28. Online ahead of print. PMID: 38281282 DOI: 10.1007/s10495-023-01897-3