

Yen-Chung Chen

PHD CANDIDATE

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Education

New York University

DOCTOR OF PHILOSOPHY: BIOLOGY

- Henry M. MacKracken Fellow

New York, NY, U.S.A.

Sep. 2018 – Present

National Taiwan University

DOCTOR OF MEDICINE

Taipei, Taiwan

Sep. 2007 – Jun. 2014

Research Experience

Dr. Claude Desplan Lab, New York University

PHD CANDIDATE

- Molecular logic of neuronal specification in the fly visual system

NY, USA

June 2019 – Current

Dr. Jun-An Chen Lab, Institute of Molecular Biology, Academia Sinica

RESEARCH ASSISTANT

- Studying the roles of non-coding RNAs in diseases and development with patient derived iPS cells

Taipei, Taiwan

August 2015 – August 2018

Dr. Min-Chuan Huang Lab, Graduate Institute of Anatomy and Cell Biology, National Taiwan University College of Medicine

UNDERGRADUATE RESEARCH

- Screening dysregulated glycosyltransferase expression in hepatic cancer

Taipei, Taiwan

January 2009 – August 2010

Publications

ORIGINAL ARTICLE

A complete temporal transcription factor series in the fly visual system

Nikolaos Konstantinides, Isabel Holguera, Anthony M. Rossi, ... Yen-Chung Chen, ... Claude Desplan

Nature (2022)

Neuronal diversity and convergence in a visual system developmental atlas

Mehmet Neset Özel, Félix Simon, ... Yen-Chung Chen, ... Claude Desplan

Nature (2020)

Mir-17~92 Confers Motor Neuron Subtype Differential Resistance to ALS-Associated Degeneration

Ying-Tsen Tung, Kuan-Chih Peng, Yen-Chung Chen, Ya-Ping Yen, Mien Chang, Sebastian Thams, Jun-An Chen

Cell Stem Cell (2019)

Dlk1-Dio3 locus-derived lncRNAs perpetuate postmitotic motor neuron cell fate and subtype identity

Ya-Ping Yen, Wen-Fu Hsieh, ... Yen-Chung Chen, ... Shau-Ping Lin, Jui-Hung Hung, Jun-An Chen

eLife (2018)

UNDER REVIEW

Diverse cell-specific patterns of alternative polyadenylation in *Drosophila*

Seungjae Lee, Yen-Chung Chen, Fly Cell Atlas Consortium, Austin Gillen, J. Matthew Taliaferro, Bart Deplancke, Hongjie Li, Eric Lai

Under revision in Nature Communications (2022)

Single-cell transcriptomic analysis unveils spinal motor neuron subtype diversity underpinning the water-to-land transition in vertebrates

Ee Shan Liao, Suoqin Jin, Yen-Chung Chen, ... Qing Nie, Jun-An Chen

Under revision in Nature Communications (2022)

REVIEW AND PERSPECTIVES

Integration of Spatial and Temporal Patterning in the Invertebrate and Vertebrate Nervous System

Yen-Chung Chen, Nikolaos Konstantinides

Frontiers in Neuroscience 16 (2022)

Empowering Early Career Researchers to Improve Science

Brianne A Kent, Constance Holman, ... Yen-Chung Chen, ... Tracey Weissgerber

Under revision in PLoS Biology (2021)

Gene regulatory networks during the development of the Drosophila visual system

Yen-Chung Chen, Claude Desplan

Current Topics in Developmental Biology (2020)

Honors & Awards

2017 **Best Poster**, International Conference of Developmental Biology, Stem Cells and Regenerative Medicine

Taipei, Taiwan

Membership and Services

preLights

Company of Biologists

PRELIGHTER

Sep. 2018 – Present

Share, highlight, and comment on preprints and advocate for open discussion between authors, peers, and publishers to make scientific publication better and robust

eLife Community Ambassadors

eLife

ELIFE COMMUNITY AMBASSADOR

Sep. 2018 – Present

Advocate for better statistical practices, data reusability and reproducibility, and join the localization efforts of intersectionality guideline

Teaching and Work

R Bootcamp for Summer Undergraduate Research Program

New York University

SPEAKER

July 2021 – August 2021

A 10-session bootcamp for R in biology

Applied Genomics

New York University

GRADUATE TEACHING ASSISTANT

February 2021 – June 2021

Design and host recitation sessions for the use of modern genomic tools for alignment, variant calling, RNA-Seq, and ChIP-seq

Principle of Biology I/II

New York University

GRADUATE TEACHING ASSISTANT

August 2019 – June 2020

Manage recitation sections to help undergrads from a diverse field appreciate various aspects of life sciences

Techniques

Bioinformatics R, Python, and next-generation sequencing pipeline setup on Linux

Tissue culture Stem cell culture and directed differentiation

Animal model Fly adult and larvae dissection and whole-mount immunostaining

Molecular biology Molecular cloning, Western blotting, real-time QPCR, and gene editing