Yen-Chung **Chen**

PHD CANDIDATE

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Edu**cation**

New York University *New York, NY, U.S.A.*

DOCTOR OF PHILOSOPHY: BIOLOGY *Sep. 2018 – Present*

- Henry M. MacKracken Fellow

National Taiwan University *Taipei, Taiwan*

DOCTOR OF MEDICINE *Sep. 2007 – Jun. 2014*

Res**earch Experience**

Dr. Claude Desplan Lab, New York University *NY, USA*

PHD CANDIDATE *June 2019 – Current*

- Molecular logic of neuronal specification in the fly visual system

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

RESEARCH ASSISTANT *August 2015 – August 2018*

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

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

UNDERGRADUATE RESEARCH *January 2009 – August 2010*

- Screening dysregulated glycosyltransferase expression in hepatic cancer

Pub**lications**

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 Liau, 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 (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 reproduciblity, 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