

Yen-Chung Chen

PHD CANDIDATE

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Education

New York University

New York, NY, U.S.A.

DOCTOR OF PHILOSOPHY: BIOLOGY, GPA: 4.0/4.0

Sep. 2018 – Present

- Henry M. MacCracken Fellow
- NYSTEM Predoctoral Fellow

National Taiwan University

Taipei, Taiwan

DOCTOR OF MEDICINE, GPA: 3.45/4.0, GRE: V160/Q170/AW4.5

Sep. 2007 – Jun. 2014

Research 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

Publications

Ee Shan Liao, Suoqin Jin, **Yen-Chung Chen**, Wei-Szu Liu, Maëliss Calon, Stéphane Nedelec, Qing Nie, Jun-An Chen. "Single-Cell Transcriptomic Analysis Reveals Diversity within Mammalian Spinal Motor Neurons" *Nature Communications* **14**(1), 46 (2023)

Yen-Chung Chen, Nikolaos Konstantinides. "Integration of Spatial and Temporal Patterning in the Invertebrate and Vertebrate Nervous System" *Frontiers in Neuroscience* **16**, 854422 (2022)

Brianne A. Kent, Constance Holman, Emmanuella Amoako, ..., **Yen-Chung Chen**, ..., Tracey L. Weissgerber. "Recommendations for Empowering Early Career Researchers to Improve Research Culture and Practice" *PLOS Biology* **20**(7), e3001680 (2022)

Nikolaos Konstantinides, Isabel Holguera, Anthony M. Rossi, Aristides Escobar, Liébaut Dudragne, **Yen-Chung Chen**, Thanh N. Tran, Azalia M. Martínez Jaimes, Mehmet Neset Özel, Félix Simon, Zhiping Shao, Nadejda M. Tsankova, John F. Fullard, Uwe Walldorf, Panos Roussos, Claude Desplan. "A Complete Temporal Transcription Factor Series in the Fly Visual System" *Nature* **604**(7905), 316–322 (2022)

Seungjae Lee, **Yen-Chung Chen**, FCA Consortium, Austin E. Gillen, J. Matthew Taliaferro, Bart Deplancke, Hongjie Li, Eric C. Lai. "Diverse Cell-Specific Patterns of Alternative Polyadenylation in *Drosophila*" *Nature Communications* **13**(1), 5372 (2022)

Mehmet Neset Özel, Félix Simon, Shadi Jafari, Isabel Holguera, **Yen-Chung Chen**, Najate Benhra, Rana Naja El-Danaf, Katarina Kapuralin, Jennifer Amy Malin, Nikolaos Konstantinides, Claude Desplan. "Neuronal Diversity and Convergence in a Visual System Developmental Atlas" *Nature* **589**(7840), 88–95 (2021)

Yen-Chung Chen, Claude Desplan. "Gene Regulatory Networks during the Development of the *Drosophila* Visual System" *Current Topics in Developmental Biology* **139**, 89–125 (2020)

Ying-Tsen Tung, Kuan-Chih Peng, **Yen-Chung Chen**, Ya-Ping Yen, Mien Chang, Sebastian Thams, Jun-An Chen. "Mir-17~92 Confers Motor Neuron Sub-type Differential Resistance to ALS-Associated Degeneration" *Cell Stem Cell* **25**(2), 193–209.e7 (2019)

Ya-Ping Yen, Wen-Fu Hsieh, Ya-Yin Tsai, Ya-Lin Lu, Ee Shan Liao, Ho-Chiang Hsu, **Yen-Chung Chen**, Ting-Chun Liu, Mien Chang, Joye Li, Shau-Ping Lin, Jui-Hung Hung, Jun-An Chen. "Dlk1-Dio3 Locus-Derived lncRNAs Perpetuate Postmitotic Motor Neuron Cell Fate and Subtype Identity" *eLife* **7**, e38080 (2018)

Honors & Awards

2022	Training Program in Stem Cell and Regenerative Biology , NYSTEM	NY, USA
2022	Kopac Teaching Award II , New York University	NY, USA
2022	Chair's Graduate Fellowship , New York University	NY, USA
2022	Taiwanese Government Scholarship to Study Abroad , Ministry of Education	Taiwan
2017	Best Poster , International Conference of Developmental Biology, Stem Cells and Regenerative Medicine	Taipei, Taiwan

Membership and Services

Mentor Program

Project Tyra

MENTOR

2022

Consulting graduate school applicants in biological sciences

preLights

Company of Biologists

PRELIGHTER

Sep. 2018 – Present

Share and highlight preprints to advocate open discussion of scientific publications

eLife Community Ambassadors

eLife

ELIFE COMMUNITY AMBASSADOR

Apr 2019 – Jun 2020

Advocating better statistical practices, data reusability and reproducibility

Teaching and Work

Statistics in Biology

New York University

GRADUATE TEACHING ASSISTANT

Fall 2022

Recitation sessions of R and statistic methods

R Bootcamp for Summer Undergraduate Research Program

New York University

SPEAKER

Summer 2021 and 2022

A 10-session bootcamp for R in biology

Sophomore Scholars Seminar

New York University

GRADUATE TEACHING ASSISTANT

Fall 2021 and Spring 2022

Discussion panels about evo-devo, immunology, gene editing, and art

Applied Genomics

New York University

GRADUATE TEACHING ASSISTANT

Spring 2021

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

Principles of Biology I/II

New York University

GRADUATE TEACHING ASSISTANT

Fall 2019 and Spring 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 dissection and whole-mount immunostaining

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