# 'en-Chung **Chen**

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## Education

**New York University** 

New York, NY, U.S.A.

Sep. 2018 - Present

DOCTOR OF PHILOSOPHY: BIOLOGY, GPA: 4.0/4.0

- Henry M. MacKracken Fellow
- NYSTEM Predoctoral Fellow

#### **National Taiwan University**

Taipei, Taiwan

Sep. 2007 - Jun. 2014

# Research Experience

#### Dr. Claude Desplan Lab, New York University

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

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**

Tai-Heng Chen, Shih-Hsin Chang, Yu-Fu Wu, Ya-Ping Yen, Fang-Yu Hsu, Yen-Chung Chen, Yang Ming, Ho-Chiang Hsu, Yi-Ching Su, Sheng-Tang Wong, Jui-Hung Hung, Shih-Hwa Chiou, Yuh-Jyh Jong, Jun-An Chen. "MiR34 Contributes to Spinal Muscular Atrophy and AAV9-mediated Delivery of MiR34a Ameliorates the Motor Deficits in SMA Mice" Molecular Therapy - Nucleic Acids. S2162253123000641 (2023)

Ee Shan Liau, 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, Thinh 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 Subtype 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 Liau, 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 IncRNAs Perpetuate Postmitotic Motor Neuron Cell Fate and Subtype Identity" eLife 7, e38080 (2018)

#### Honors & Awards

| 2023 | Dean's Outstanding Graduate Student Teaching Award, New York University                     | NY, USA |
|------|---|---------|
| 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 | Taiwan  |
|      | Medicine  | 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 reproduciblity

# 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

SPEAKER Summer 2021 and 2022

New York University

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, C, 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