

Yen-Chung Chen

✉ ycc520@nyu.edu
🌐 yccbio.net

Education

- 2018–Current **Doctoral student**, *Henry M. MacCracken Fellow*.
Desplan Lab, Biology, Graduate School of Arts & Science, New York University, U.S.A.
- 2007–2014 **Doctor of Medicine**.
National Taiwan University College of Medicine, Taiwan

Research Experience

- June 2019 – Current **PhD student**, *Dr. Claude Desplan Lab*, New York University, NY, U.S.A..
The role of spatial and temporal regulators in fate-specification gene regulatory network in the neurogenesis of *Drosophila* visual system
- August 2015 – August 2018 **Research Assistant**, *Dr. Jun-An Chen Lab*, Academia Sinica, Taiwan.
Modeling spinal muscular atrophy with patient-derived iPS cells and CRISPR-based disease modeling and correction
LncRNA-regulation of rostrocaudal identity in spinal motor neuron development
- January 2009 – August 2010 **Undergraduate Research**, *Dr. Min-Chuan Huang Lab*, Graduate Institute of Anatomy and Cell Biology, National Taiwan University College of Medicine, Taiwan.
Screening dysregulated glycosyltransferase expression in hepatic cancer
Producing rabbit polyclonal antibody for glycosyltransferase of interest

Publication

Neuronal diversity and convergence in a visual system developmental atlas, *Nature*, 2020, 10.1038/s41586-020-2879-3.

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

Gene regulatory networks during the development of the *Drosophila* visual system, *Curr Top Dev Biol*, 2020, 10.1016/bs.ctdb.2020.02.010.

Yen-Chung Chen, Claude Desplan

Mir-17~92 Confers Motor Neuron Subtype Differential Resistance to ALS-Associated Degeneration, *Cell Stem Cell*, 2019, 10.1016/j.stem.2019.04.016.

Kuan-Chih Peng, Ying-Tsen Tung, **Yen-Chung Chen**, Ya-Ping Yen, Ya-Lin Lu, Mien Chang, Sebastian Thams, and Jun-An Chen.

Dlk1-Dio3 Locus-Derived LncRNAs Perpetuate Postmitotic Motor Neuron Cell Fate and Subtype Identity, *eLife*, 2018, 10.7554/eLife.38080.

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, and Jun-An Chen

Conference Abstract and Poster Presentation

- September 2017 **Modeling Motor Unit in Spinal Muscular Atrophy with Human iPS-derived Cells**, *International Conference of Developmental Biology, Stem Cells and Regenerative Medicine*. **Yen-Chung Chen**, Tai-Heng Chen, Ho-Chiang Hsu, Ying-Tsen Tung, Yuh-Chih Jong, and Jun-An Chen
- September 2016 **Establishing a Co-culture System of Human iPS-derived Cells to Model Spinal Muscular Atrophy**, *Cell Symposia: 10 Years of iPSCs*. **Yen-Chung Chen**, Tai-Heng Chen, Ying-Tsen Tung, Yuh-Chih Jong, and Jun-An Chen

Membership and Services

- June 2018 – **preLighter**, *preLights*, The Company of Biologists.
Current Share, highlight, and comment preprints and advocate for open discussion between authors, peers, and publishers to make scientific publication better and robust
- June 2019 – **eLife Ambassador**, *eLife Community Ambassadors*, eLife.
June 2020 Advocate for better statistical practices, data reusability and reproducibility, and join the localization efforts of intersectionality guideline

Honors and Awards

- 2017 **Best Paper Award — Poster Section**, *International Conference of Developmental Biology, Stem Cells and Regenerative Medicine*.
- 2016 **Taiwan Government Scholarship for Overseas Study**, Ministry of Education, Taiwan.
Awarded but declined

Work Experience

- August 2019 – **Graduate teaching assistant**, *Principle of Biology I/II*, New York University.
June 2020 Manage recitation sections to help undergrads from a diverse field appreciate various aspects of life sciences
- August 2014 – **Medical Substitute Services**, Ministry of Health and Welfare and Shin Kong Hospital
July 2015 *Medical Assistance Program to Palau*, Taiwan.
Assisting 2014 Global Health Forum in Taiwan
Setup of nutrition consulting clinic in Palau National Hospital, Republic of Palau
Assisting Healthy School Lunch Project in Meyuns Elementary School, Republic of Palau

Technique

- Tissue culture Mammalian cell line and stem cell culture, directed motor neuron differentiation, and mouse embryonic fibroblast preparation
- Animal manipulation Fly husbandry, fly adult and larvae dissection, whole-mount immunostaining
- Molecular biology Molecular cloning, Western blotting, real-time QPCR, and CRISPR-based genome manipulation
- Antibody Peptide design and purification, antigen injection, antibody purification
- Analysis R (Statistical analysis, visualization, and omics data exploration) and next-generation sequencing pipeline setup on Linux