Yen-Chung Chen

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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 Liau, Ho-Chiang Hsu, **Yen-Chung Chen**, Ting-Chun Liu, Mien Chang, Joye Li, Shau-Ping Lin, Jui-Hung Hung, and Jun-An Chen

Membership and Services

June 2018 – Current
preLighter, *preLights*, The Company of Biologists.
Share, highlight, and comment preprints and advocate for open discussion between authors, peers, and publishers to make scientific publication better and robust

June 2019 – June 2020
eLife Ambassador, *eLife Community Ambassadors*, eLife.
Advocate for better statistical practices, data reusability and reproduciblity, 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

July 2021 – August 2021
Organizer & Speaker, *R Bootcamp for Summer Undergraduate Research Program*, New York University.
A 10-session bootcamp for R in biology research

February 2021 – June 2021
Graduate teaching assistant, *Applied genomics*, New York University.
Design and host recitation sessions for the use of modern genomic tools for alignment, variant calling, RNA-Seq, and ChIP-seq

August 2019 – June 2020
Graduate teaching assistant, *Principle of Biology I/II*, New York University.
Manage recitation sections to help undergrads from a diverse field appreciate various aspects of life sciences

August 2014 – July 2015
Medical Substitute Services, *Ministry of Health and Welfare and Shin Kong Hospital 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 inmmunostaining

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