
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 – **PhD student**, *Dr. Claude Desplan Lab*, New York University, NY, U.S.A..
Current Molecular logic of neuronal specification in the fly visual system
- August 2015 – **Research Assistant**, *Dr. Jun-An Chen Lab*, Academia Sinica, Taiwan.
August 2018 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 – **Undergraduate Research**, *Dr. Min-Chuan Huang Lab*, Graduate Institute of Anatomy
– August 2010 and Cell Biology, National Taiwan University College of Medicine, Taiwan.

Publication

Yen-Chung Chen* and Nikolaos Konstantinides*, *Integration of Spatial and Temporal Patterning in the Invertebrate and Vertebrate Nervous System*, Front. Neurosci., 2022. DOI: 10.3389/fnins.2022.854422

Ee Shan Liao*, Suoqin Jin*, Yen-Chung Chen, Wei-Szu Liu, Luok Wen Yong, Chang-Tai Tsai, Maëliiss Calon, Jr-Kai Yu, Yi-Hsien Su, Stéphane Nedelec, Qing Nie, Jun-An Chen, *Single-cell transcriptomic analysis unveils spinal motor neuron subtype diversity underpinning the water-to-land transition in vertebrates*, bioRxiv, 2021. DOI: 10.1101/2021.09.29.462340

Nikolaos Konstantinides*, Isabel Holguera*, Anthony M. Rossi*, Aristides Escobar, Liébaud Dudragne, Yen-Chung Chen, Thinh Tran, Azalia Martinez Jaimes, Mehmet Neset Özel, Félix Simon, Zhiping Shao, Nadejda M. Tsankova, John F. Fullard, Uwe Walldorf, Panos Roussos, Claude Desplan, *A comprehensive series of temporal transcription factors in the fly visual system*, bioRxiv, 2021. DOI: 10.1101/2021.06.13.448242

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, 2020. DOI: 10.1038/s41586-020-2879-3

Yen-Chung Chen, Claude Desplan, *Gene regulatory networks during the development of the Drosophila visual system*, Curr Top Dev Biol, 2020. DOI: 10.1016/bs.ctdb.2020.02.010

Kuan-Chih Peng*, Ying-Tsen Tung*, Yen-Chung Chen, Ya-Ping Yen, Ya-Lin Lu, Mien Chang, Sebastian Thams, and Jun-An Chen., *Mir-17~92 Confers Motor Neuron Subtype Differential Resistance to ALS-Associated Degeneration*, Cell Stem Cell, 2019. DOI: 10.1016/j.stem.2019.04.016

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

Membership and Services

- June 2018 – Current **preLighter**, *preLights*, The Company of Biologists.
Share, highlight, and comment on 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 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*.

Teaching and Work

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

Expertise

- 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
- Analysis R, Python, and next-generation sequencing pipeline setup