

PHD STUDENT

The University of Hong Kong, HKSAR

Education __

The University of Hong Kong, LKS Faculty of Medicine

DOCTOR OF PHILOSOPHY IN STEM CELL BIOLOGY

• Supervisor: Dr SUGIMURA Rio, Prof LIU Pentao

The University of Hong Kong, LKS Faculty of Medicine

MASTER OF MEDICAL SCIENCES IN MOLECULAR NEUROSCIENCES

• Supervisor: Dr LIM LW

Chongqing Medical University, School of Laboratory Medicine

BACHELOR OF SCIENCE IN MEDICAL LABORATORY TECHNOLOGY

• Undergrad research Supervisor: Prof BIAN Shan

• GPA: 86.2 & 3.51

Hong Kong

Hong Kong

Sep 2020 - Oct 2021

Oct 2021 - Present

Chongging

Sep 2016 - Jun 2020

Research Experience _____

The University of Hong Kong, School of Biomedical Science

Hong Kong

SUPERVISOR: DR SUGIMURA RIO, DR HUANG YUANHUA, PROF LIU PENTAO

Apr 2021 - Present

- Spatiotemporal analysis of development and hematopoiesis in human embryonic organoids
- Single-cell computational analysis of CRISPR/Cas9-based cellular lineage tracing system

Tongji University, School of Life Science and Technology

Shanghai

SUPERVISOR: PROF BIAN SHAN

Dec 2019 - Aug 2020

Constructed human ESC double reporter lines using CRISPR/Cas9 ('Excellent Undergraduate Thesis')

Publications _

Yiming Chao*, Yang Xiang*, et al. Organoid-based single-cell spatiotemporal gene expression landscape of human embry-onic development and hematopoiesis.bioRxiv 2022.09.02.505700; doi: https://doi.org/10.1101/2022.09.02.505700

Ryohichi Sugimura, **Yiming Chao**. Deciphering innate immune cell-tumor microenvironment crosstalk at a single-cell level. Front. Cell Dev. Biol., vol. 10 803947. 13 May. 2022, doi:10.3389/fcell.2022.803947

Guo Z, Chen M, **Chao Y**, et al.. RGCC balances self-renewal and neuronal differentiation of neural stem cells in the developing mammalian neocortex. EMBO reports vol. 22,9 (2021): e51781. doi:10.15252/embr.202051781

Zhang Y, Liu D, Sheng L, Xiao H, Yao M, **Chao Y**, et al.. Chronotype and sleep duration are associated with stimulant consumption and BMI among Chinese undergraduates. Sleep Biol. Rhythms 16, 211–222 (2018). https://doi.org/10.1007/s41105-017-0142-6

Conference _____

Jun 2022. Hong Kong Inter-University Postgraduate Symposium in Life Science 2022. Poster presentation

Jun 2022. NSFC/RGC Workshop on Single-Cell Data Science 2022. Flash talk

Nov 2021. Human Cell Atlas Asia 2021 Meeting. Poster presentation

Awards 2020 Merit Graduates, CQMU Excellent Undergraduate Thesis, CQMU 2019 Merit Student & Scholarship, CQMU 2018 Excellent League Member, CQMU 2017 Excellent Volunteer, CQMU 2016 Merit Academic Performance, CQMU

Skills_____

Language: Mandarin Chinese (native), English (professional working proficiency), Cantonese (limited)

Programming: R (proficient), Linux (proficient), Python (novice)

Dry Lab: Sequence pre-processing (CellRanger, SpaceRanger, STAR), scRNA-seq (Seurat, Scanpy), spatial transcriptome, bulk RNA-seq, mutational analysis, lineage inference

Wet Lab: Molecular cloning, CRISPR/Cas9 gene-editing, stem cell differentiation, organoid culture