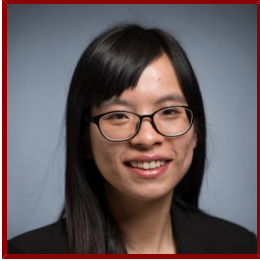


# Stanford

---



## Yuqi Tan

Postdoctoral Scholar, Microbiology and Immunology

### Bio

---

#### BIO

Dr. Tan is a computational biologist who develops computational tools to quantitatively assess cell identity, improve stem cell engineering, and understand cancer heterogeneity. As a Ph.D. student, Dr. Tan routinely performs computational and quantitative analysis on scRNA-seq data, which has resulted in several publications. Currently, at her postdoctoral position, Dr. Tan integrated single-cell omics with multiplexed image data to understand high dimensional tissue architecture in cancer. Dr. Tan's long-term aims are to integrate multi-omics to understand how different cell types and their interactions contribute to development and disease.

#### PROFESSIONAL EDUCATION

- Bachelor of Science, Chinese University of Hong Kong (2014)
- Doctor of Philosophy, Johns Hopkins University (2021)
- BSc(Hon), The Chinese University of Hong Kong, Cell and Molecular Biology (2014)
- PhD, Johns Hopkins University, Computational Biology (2021)

#### STANFORD ADVISORS

- Garry Nolan, Postdoctoral Faculty Sponsor

### Research & Scholarship

---

#### LAB AFFILIATIONS

- Garry Nolan, Nolan lab (4/1/2021)

### Publications

---

#### PUBLICATIONS

- **Gene Regulatory Network Analysis and Engineering Directs Development and Vascularization of Multilineage Human Liver Organoids** *CELL SYSTEMS*  
Velazquez, J. J., LeGraw, R., Moghadam, F., Tan, Y., Kilbourne, J., Maggiore, J. C., Hislop, J., Liu, S., Cats, D., Lopes, S., Plaisier, C., Cahan, P., Kiani, et al  
2021; 12 (1): 41-+
- **Strategies for Accurate Cell Type Identification in CODEX Multiplexed Imaging Data.** *Frontiers in immunology*  
Hickey, J. W., Tan, Y., Nolan, G. P., Goltsev, Y.  
2021; 12: 727626
- **Transcriptome Dynamics of Hematopoietic Stem Cell Formation Revealed Using a Combinatorial Runx1 and Ly6a Reporter System** *STEM CELL REPORTS*  
Chen, M. J., da Rocha, E., Cahan, P., Kubaczka, C., Hunter, P., Sousa, P., Mullin, N. K., Fujiwara, Y., Minh Nguyen, Tan, Y., Zhou, Y., North, T. E., Zon, L., et al  
2020; 14 (5): 956-971

- **SingleCellNet: A Computational Tool to Classify Single Cell RNA-Seq Data Across Platforms and Across Species** *CELL SYSTEMS*  
Tan, Y., Cahan, P.  
2019; 9 (2): 207-+
- **SCD1 and SCD2 Form a Complex That Functions with the Exocyst and RabE1 in Exocytosis and Cytokinesis** *PLANT CELL*  
Mayers, J., Hu, T., Wang, C., Cardenas, J. J., Tan, Y., Pan, J., Bednarek, S. Y.  
2017; 29 (10): 2610-2625
- **Assessment of engineered cells using CellNet and RNA-seq** *NATURE PROTOCOLS*  
Radley, A. H., Schwab, R. M., Tan, Y., Kim, J., Lo, E. W., Cahan, P.  
2017; 12 (5): 1089-1102
- **Understanding development and stem cells using single cell-based analyses of gene expression** *DEVELOPMENT*  
Kumar, P., Tan, Y., Cahan, P.  
2017; 144 (1): 17-32
- **MON1/CCZ1-mediated Rab7 activation regulates tapetal PCD and pollen development in Arabidopsis** *Plant Physiology*  
Cui, Y.  
2017
- **Valproate-Induced Neurodevelopmental Deficits in *Xenopus laevis* Tadpoles** *JOURNAL OF NEUROSCIENCE*  
James, E. J., Gu, J., Ramirez-Vizcarrondo, C. M., Hasan, M., Truskowski, T. S., Tan, Y., Oupravanh, P. M., Khakhalin, A. S., Aizenman, C. D.  
2015; 35 (7): 3218-3229