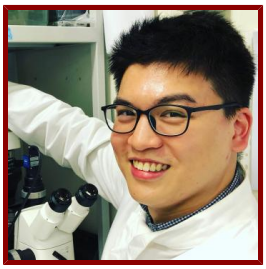
Stanford



Aaron Tze Kai Tan

Postdoctoral Scholar, Stem Cell Transplantation

NIH Biosketch available Online

Bio

HONORS AND AWARDS

- Stanford TRAM (Translational Research and Applied Medicine) Grant - Postdoctoral Fellow, Stanford University (September 2025)
- Stanford TRAM (Translational Research and Applied Medicine) Pilot Grant - Ph.D. Candidate, Stanford University (September 2024)
- A*STAR National Science Scholarship (Ph.D.), Agency for Science, Technology & Research (A*STAR) (June 2019)
- EMBO/SCSS Conference Travel Award, European Molecular Biology Organization, Singapore Stem Cell Society Singapore (September 2018)
- Development, Regeneration and Stem Cell Biology Honours Class Prize, The University of Edinburgh (November 2017)
- Duke of Edinburgh's International Award, National Youth Achievement Award Council (October 2014)
- A*STAR National Science Scholarship (BS), Agency for Science, Technology & Research (A*STAR) (July 2013)
- Academic Award for Outstanding Performance Academic Year 2012/2013, Singapore Polytechnic (April 2013)
- A*STAR Science Award (Polytechnic), Agency for Science, Technology & Research (A*STAR) (November 2012)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , STMRM-PHD (2025)
- Bachelor of Science, University Of Edinburgh (2018)
- Diploma, Singapore Polytechnic (2013)

STANFORD ADVISORS

- Agnieszka Czechowicz, Postdoctoral Faculty Sponsor

PATENTS

- Tan, A.T.K., Nakauchi, H.. "United States Methods for ex vivo Human Hematopoietic Stem Cell Expansion", Leland Stanford Junior University, Aug 13, 2025

LINKS

- LinkedIn: https://www.linkedin.com/in/aaron-tze-kai-tan-8a2b65102/
- X: https://x.com/AaronTzeKai

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **HYPDXIC/SCF-SUPPLEMENTED CULTURE IN POLYMER-BASED MEDIUM ENABLES STABLE EX VIVO HUMAN HEMATOPOIETIC STEM CELL EXPANSION**
  Miyauchi, M., Mack, P., Bhadury, J., Tan, A., Suchy, F., Zhang, J., Charlesworth, C., Homma, S., Karigane, D., Nakauchi, H.
  ELSEVIER SCIENCE INC.2024

- **Secreted Particle Information Transfer (SPIT) - A Cellular Platform forIn VivoGenetic Engineering.** *bioRxiv : the preprint server for biology*
  Charlesworth, C. T., Homma, S., Suchy, F., Wang, S., Bhadhury, J., Amaya, A. K., Camarena, J., Zhang, J., Tan, T. K., Igarishi, K., Nakauchi, H.
  2024

- **Physioxia improves the selectivity of hematopoietic stem cell expansion cultures.** *Blood advances*
  Igarashi, K. J., Kucinski, I., Chan, Y. Y., Tan, T., Khoo, H. M., Kealy, D., Bhadury, J., Hsu, I., Ho, P. Y., Niizuma, K., Hickey, J. W., Nolan, G., Bridge, et al
  2023

- **Large-Scale Production of Wholly-Cellular Bioinks via the Optimization of Human Induced Pluripotent Stem Cell Aggregate Culture in Automated Bioreactors.** *Advanced healthcare materials*
  Ho, D. L., Lee, S., Du, J., Weiss, J. D., Tam, T., Sinha, S., Klinger, D., Devine, S., Hamfeldt, A., Leng, H. T., Herrmann, J. E., He, M., Fradkin, et al
  2022: e2201138

- **METABOLIC PROFILING OF MOUSE HEMATOPOIETIC STEM CELL SELF-RENEWAL AT SINGLE-CELL RESOLUTION**
  Tan, A., Hartmann, F., Wilkinson, A., Nakauchi, H., Nolan, G.
  ELSEVIER SCIENCE INC.2022: S145

- **Human Finger-Prick Induced Pluripotent Stem Cells Facilitate the Development of Stem Cell Banking** *STEM CELLS TRANSLATIONAL MEDICINE*
  Tan, H., Toh, C., Ma, D., Yang, B., Liu, T., Lu, J., Wong, C., Tan, T., Li, H., Syn, C., Tan, E., Lim, B., Lim, et al
  2014; 3 (5): 586–98