TANG SHIN YI

Education

National University of Singapore — Aug 2014 to May 2018

Doctor of Philosophy (PH.D)

National University of Singapore — Aug 2009 to May 2013

Bachelor of Life Science (Honours), Specialization in Biomedical Science

Co- curricular Activity

PH.D Attachment in Institute of Bioengineering and Nanotechnology (IBN), A*STAR — Aug 2014 to May 2018

- Presenter of IBN Research Symposium 2016 and 2017
- Mentor of Youth Research Program (YRP) students

Member of Stem Cell Society Singapore (SCSS) — 2017-2018

Member of Singapore Society for Immunology (SGSI) — 2017-2018

NUSSU Volunteer Action Committee (NVAC)-NUH Project — Jan 2013 to May 2013

Research Experience

PH.D Project: IPSC-derived Immune Cells for Cancer Immunotherapy (NUS & IBN) — Aug 2014 to July 2018

- Reprogramming blood cells into induced pluripotent stem cells (BC-iPSCs)
- Differentiation BC-iPSCs into immune cells

Research assistant: Knockout of Beta-2-Microglobulin in Human Pluripotent Stem Cells (hPSCs) with a Baculoviral CRISPR/Cas9 Vector System (NUS) — Dec 2013 to July 2014

- Gene editing with novel biotechnology tool CRISPR-Cas9 system
- Generating hypoimmunogenic hPSCs by the viral CRISPR/Cas9 B2M targeting system for allogeneic cell therapy

Honours Project: The Role of Novel and Potential Methyltransferases (NPMTs) in Tumorigenesis (Cancer Science Institute of Singapore, CSI) — May 2012 to May 2013

- Investigating the effect of overexpression and knockdown of NPMTs on MEF and their role in tumorigenesis

Working Experience

Tessa Therapeutics Ltd., Scientist — July 2018- Present

NUS Department of Biological Sciences, Teaching Assistant — Jan 2015 to Dec 2016

NUS Department of Biological Sciences, Research Assistant — Dec 2013 to July 2014

Publications

- Zeng, J., Tang, S. Y., Toh, L. L., & Wang, S. (2017). Generation of "Off-the-Shelf" Natural Killer Cells from Peripheral Blood Cell-Derived Induced Pluripotent Stem Cells. Stem Cell Reports. doi:10.1016/j.stemcr.2017.10.020 (Impact Factor: 7.338)

- Zeng, J., Tang, S. Y., & Wang, S., “De Novo Synthesis of γδ T Cells Endowed with Cancer Recognition Receptors from Induced Pluripotent Stem Cells”, in review, 2018.