

Su Bin Lim, PhD

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RESEARCH INTERESTS

1. Single-cell genomics
2. Big data analytics
3. Gut-brain axis

EDUCATION & TRAINING

Postdoctoral Fellow, Johns Hopkins University School of Medicine, 2020-present

PhD, Biomedical Engineering, National University of Singapore, 2015-2019

BEng, Biomedical Engineering, National University of Singapore, 2011-2015

AWARDS

- 2019 Travel Award, Japanese Society of Medical Oncology (JSMO) Annual Meeting
- 2018 Daewoong Pharmaceutical Research Grant Award, Daewoong Foundation
- 2018 MOGAM Science Scholarship, MOGAM Science Scholarship Foundation
- 2018 Ray Wu Prize, Ray Wu Foundation, USA
- 2018 Best Poster Award (1st Prize), NUS-BIGHEART Symposium
- 2018 Travel Award, Korean Cancer Association (KCA) Annual Meeting
- 2018 Best Poster Award, 10th Annual NGS Symposium, Singapore
- 2017 Best Poster Award, 5th Asia-Korea Conference on Science and Technology, Singapore
- 2017 Best Presentation Award for Young Investigator, WACBE 2017, China
- 2017 International Precision Medicine Center (IPMC) Conference Prize
- 2016 Best Paper Award, Korean Scientists and Engineers Association in Singapore (KSEASG)
- 2015 NUS Graduate School for Integrative Sciences and Engineering PhD Scholarship
- 2014 Provost's Honors, UCSD Bioengineering, spring & winter quarters, USA
- 2013 NASA Exchange Scholarship

PUBLICATIONS

1. **Lim SB**, Venugopal NM, Lim CT (2020) Microfluidic tools for probing micro-culprits: Opportunities and challenges in microfluidic diagnostics. *EMBO Reports* 21:e49749.
2. **Lim SB**, Lim CT, Lim W-T (2019) Single-cell analysis of circulating tumor cells: why heterogeneity matters. *Cancers* 11, 1595.
3. Venugopal NM, **Lim SB**, Lim CT (2019) Microfluidics for personalized drug screening of cancer. *Current Opinion in Pharmacology* 48, 155-161.
4. **Lim SB**, Lim CT, Lim W-T (2019) MO2-6-3Matrisomal abnormality: a predictive biomarker for cancer immunotherapy. *Annals of Oncology* 30 (suppl_6).
5. **Lim SB**, Lee WD, Vasudevan J, Lim W-T, Lim CT (2019) Liquid biopsy: one cell at a time. *NPJ Precision Oncology* 3, 23. *Featured in Nature's Leading Cancer Research collection
6. **Lim SB**, Tan SJ, Lim W-T, Lim CT (2019) Compendiums of cancer transcriptomes for machine learning applications. *Scientific Data*, 6, 194.
7. **Lim SB**, Yeo T, Lee WD, Bhagat AA, Tan SJ, Tan DSW, Lim W-T, Lim CT (2019) Addressing cellular heterogeneity in tumor and circulation for refined prognostication. *PNAS*, 116 (36), 17957-17962. *Highlighted in The Straits Times, NUS News
8. Khoo BL, Greci G, Lim JSY, Lim YP, Fong J, **Lim SB**, Chua SL, Wong SC, Yap YS, Lee SC, Lim CT, Han J (2019) Low-dose anti-inflammatory combinatorial therapy reduced cancer stem cell formation in patient-derived preclinical models for tumour relapse prevention. *British Journal of Cancer* 120, 407-423.
9. **Lim SB**, Chua MLK, Yeong JPS, Tan SJ, Lim W-T, Lim CT (2019) Pan-cancer analysis connects tumor matrisome to immune response. *NPJ Precision Oncology* 3, 15. *F1000Prime Recommended
10. **Lim SB**, Tan SJ, Lim W-T, Lim CT (2018) A merged lung cancer transcriptome dataset for clinical predictive modeling. *Scientific Data* 5, 180136.
11. **Lim SB**, Tan SJ, Lim W-T, Lim CT (2017) An extracellular matrix-related prognostic and predictive indicator for early-stage non-small cell lung cancer. *Nature Communications* 8, 1734. *Highlighted in The Straits Times, NUS News
12. Mun KR, **Lim SB**, Guo Z, Yu H (2017) Biomechanical effects of body weight support with a novel robotic walker for over-ground gait rehabilitation. *Medical & Biological Engineering & Computing* 55, 2.

SEMINARS & PRESENTATIONS

- 2019 BRIC Webinar Series
- 2019 Yonsei University School of Electrical and Electronic Engineering, S. Korea
- 2019 The 17th Annual Meeting of JSMO (JSMO2019), Japan
- 2019 Cell Symposia: Single Cells – Technology to Biology, Singapore
- 2019 The 1st Daewoong Foundation Research Symposium, S. Korea
- 2018 Frontiers in Cancer Science, Singapore
- 2018 The 9TH Ray Wu Symposium, China
- 2018 The 22nd WONCA World Conference, S. Korea
- 2018 RNA Biology Symposium, Singapore
- 2018 National Cancer Centre Singapore (NCCS), Singapore
- 2018 NUS-BIGHEART Symposium, Singapore
- 2018 The 44th Annual Meeting of Korean Cancer Association
- 2018 The 10th Annual NGS Symposium, Singapore
- 2018 Korea Institute of Science and Technology (KIST), S. Korea
- 2017 The 5th Asia-Korea Conference on Science and Technology, Singapore
- 2017 NGSS Seminar Series, Singapore
- 2017 Next Generation Dx Summit, USA
- 2017 The 8th WACBE World Congress on Bioengineering, China
- 2017 International Precision Medicine Center (IPMC) Conference, S. Korea
- 2016 The 2nd Challenges in Computational Biology Meeting, Germany
- 2016 Korea-Singapore International Global Health Forum, Singapore
- 2016 Singapore-MIT Alliance for Research & Technology Annual Workshop, Singapore
- 2016 The 6th Annual Graduate Scientific Congress, NUS, Singapore
- 2014 The 3rd Singapore Rehabilitation Conference, Singapore

TEACHING

NUS Graduate Assistantship Program (312 hours of undergraduate teaching duty), 2015-2019:

Introduction to Biotransport (BN2202), Dept. of Biomedical Engineering

Fundamentals of Biomechanics (BN2204), Dept. of Biomedical Engineering

Biofluid Dynamics (BN4202), Dept. of Biomedical Engineering

Biological Perception in Digital Media (EE4604), Dept. of Electrical Engineering