



## Fan Bingwen Eugene

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### Research Interests:

- Medical Innovation (Medical Devices, Diagnostics Artificial Intelligence)
- Thrombosis and Haemostasis
- Sustainability in Healthcare
- Art and Medicine

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## Biography

Dr Eugene Fan is a Clinician Innovator and Consultant Haematologist with the Department of Haematology, Tan Tock Seng Hospital. He graduated from the National University of Singapore, and received his MRCP in 2012. His research interests include Medical Innovation (Medical Devices, Laboratory Diagnostics, Artificial Intelligence), Thrombosis and Haemostasis, Sustainability in Healthcare, and Art and Medicine. He serves as an Associate Editor for Seminars in Thrombosis and Hemostasis, Annals of Hematology and is an Editorial Advisory Board member for the American Journal of Hematology. He is a Singapore Biodesign Fellow (2024).

## Selected Publications

- Fan BE, Yong BSJ, Li R, et al. From microscope to micropixels: A rapid review of artificial intelligence for the peripheral blood film. *Blood Rev.* 2024;64:101144. doi:10.1016/j.blre.2023.101144
- Fan, B.E., Tan, J.G. and Favaloro, E.J. (2023), Reducing our carbon footprint in the haematology laboratory: A shared responsibility. *Int J Lab Hematol*, 45: 778-780. <https://doi.org/10.1111/ijlh.14060>
- Fan BE, Favaloro EJ. Counting the carbon cost of heparin: an evolving tragedy of the commons?. *Lancet Haematol.* 2022;9(7):e469-e471. doi:10.1016/S2352-3026(22)00171-5
- Fan BE, Soh CKD, Heng HCD, et al. Development of a real time ultrasound guided lumbar puncture device. *BMJ Innovations* 2022;8:307-311.

- Fan BE, Wong SW, Sum CLL, et al. Hypercoagulability, endotheliopathy, and inflammation approximating 1 year after recovery: Assessing the long-term outcomes in COVID-19 patients. Am J Hematol. 2022; 97(7): 915-923. doi:10.1002/ajh.26575
- Fan BE, Togawa M. Acquired haemophilia in an Edo period Japanese surgical casebook. Lancet Haematol. 2022;9(12):e876-e877. doi:10.1016/S2352-3026(22)00357-X
- Fan BE. A probable case of aggressive extranodal natural killer T-cell lymphoma in a 19th century Qing Dynasty painting. Lancet Haematol. 2021;8(5):e321-e322. doi:10.1016/S2352-3026(21)00109-5
- Fan BE, Chong VCL, Chan SSW, et al. Hematologic parameters in patients with COVID-19 infection. Am J Hematol. 2020;95(6):E131-E134. doi:10.1002/ajh.25774

### Notable Research Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
National Medical Research Council (NMRC) Clinician Innovator Development Award	2020
Young Investigator Award at the International Society for Laboratory Haematology	2021
National Research Foundation (NRF) Grant	2024
Singapore Biodesign Fellowship	2024
National Health and Innovation Centre (NHIC) Innovation to Industry (I2I) grant	2024

### Translating Research/Innovation Into Healthcare

- <https://www.straitstimes.com/singapore/health/ai-tool-being-tested-for-faster-more-accurate-diagnosis-of-diseases>