



Jimmy Lee Chee Keong

Senior Consultant Psychiatrist, IMH

Chief, Central Region, IMH

Chief, North Region, IMH

Associate Professor, Lee Kong Chian School of Medicine, NTU

Research Interests:

- Schizophrenia & Psychosis
- Digital Phenotyping and Therapeutics in Mental Health

Email: Jimmy_Lee@imh.com.sg

Biography

Dr. Jimmy Lee is a senior consultant psychiatrist and clinician-scientist at the Institute of Mental Health and an Associate Professor at the Lee Kong Chian School of Medicine, Nanyang Technological University (LKCMedicine). He obtained his basic medical degree from the National University of Singapore (NUS) in 2000, completed his specialty training in psychiatry in 2009 and received his Master of Clinical Investigation in 2010. Dr. Lee was awarded the NRF – MOH Healthcare Research Scholarship in 2008, the NMRC Transition Award in 2012 and the NMRC Clinician Scientist Award in 2018. He furthered his research and clinical training as a Fellow in the Complex Mental Illness Program at the University of Toronto and at the Centre for Addiction and Mental Health, Toronto. Dr. Lee's clinical and research interests are in treatment resistance and outcomes in schizophrenia. He adopts a phenomics approach to deepen the understanding of complex mental illnesses and its treatments. Additionally, Dr. Lee is interested in the development and application of digital technologies in mental health care. Dr. Lee is a member in several international consortia researching into various aspects of psychiatric disorders, e.g. genetics, neuroanatomy, clinical phenotypes and treatment response in schizophrenia. Dr. Lee holds several competitive research grants and has ongoing local and international research collaborations.

Selected Publications

- Schizophrenia Working Group of the Psychiatric Genomics Consortium. Biological insights from 108 schizophrenia-associated genetic loci. *Nature*. 2014; 511(7510):421-7. <https://doi.org/10.1038/nature13595>.
- Lee J, Takeuchi H, Fervaha G, Sin GL, Foussias G, Agid O, Farooq S, Remington G. Subtyping schizophrenia by treatment response: antipsychotic development and the central role of positive symptoms. *Can J Psychiatry*. 2015; 60(11):515-22. <https://doi.org/10.1177%2F070674371506001107>.
- Lee J, Takeuchi H, Fervaha G, Powell V, Bhaloo A, Bies R, Remington G. The effect of clozapine on haematological indices: a 1-year follow-up study. *J Clin Psychopharmacol*. 2015; 35(5):510-516. <https://doi.org/10.1097/jcp.0000000000000387>.
- Lee J, Bies R, Takeuchi H, Fervaha G, Bhaloo A, Powell V, Remington G. Quantifying intraindividual variations in plasma clozapine levels: A population pharmacokinetic approach. *J Clin Psychiatry*. 2016; 77(5):681-7. <https://doi.org/10.4088/JCP.14m09714>.

- Lim J, Lee SA, Lam M, Rapisarda A, Kraus M, Keefe RSE, Lee J. The relationship between negative symptom subdomains and cognition. *Psychol Med*. 2016; 46(10):2169-77. <https://doi.org/10.1017/s0033291716000726>.
- Ho NF, Holt JE, Goh A, Wang M, Lim JKW, de Souza J, Poh J, See YM, Adcock AR, Wood SJ, Chee MWL, Lee J*, Zhou J*. Progressive decline in hippocampal CA1 volume in individuals at ultra-high-risk for psychosis who do not remit: Findings from the Longitudinal Youth at Risk Study. *Neuropsychopharmacology*. 2017; 42:1361–1370 [*Joint Senior Authors]. <https://doi.org/10.1038/npp.2017.5>.
- Yee JY, Nurjono M, Ng WY, Teo SR, Lee TS, Lee J. Peripheral blood gene expression of acute phase proteins in people with first episode psychosis. *Brain Behav Immun*. 2017; 65:337-341. <https://doi.org/10.1016/j.bbi.2017.06.006>.
- Lam M, Lee J, Rapisarda A, et al. Longitudinal Cognitive Changes in Young Individuals at Ultrahigh Risk for Psychosis. *JAMA Psychiatry*. 2018; 75(9):929–939. <https://dx.doi.org/10.1001%2Fjamapsychiatry.2018.1668>.
- Lam M, Chen C, Li Z, Martin AR, Bryois J, Ma X, Gaspar H, Ikeda M, Benyamin B, Brown BC, Liu R, Zhou W, Guan L, Kamatani Y, Kim S, Kubo M, Kusumawardhani A, Liu C, Ma H, Periyasamy S, Takahashi A, Xu Z, Yu H, Zhu F, Schizophrenia Working Group of the Psychiatric Genomics Consortium, Indonesia Schizophrenia Consortium, Genetic REsearch on schizophreniA neTwork-China and Netherland (GREAT-CN), Chen WJ, Faraone S, Glatt SJ, He L, Hyman SE, Hwu H, McCarroll SA, Neale BM, Sklar P, Wildenauer DB, Yu X, Zhang D, Mowry BJ, Lee J, Holmans P, Xu S, Sullivan PF, Ripke S, O'Donovan MC, Daly MJ, Qin S, Sham P, Iwata N, Hong KS, Schwab SG, Yue W, Tsuang M, Liu J, Ma X, Kahn RS, Shi Y* & Huang H. Comparative genetic architectures of schizophrenia in East Asian and European populations. *Nature Genetics*. 2019; 51:1670-1678. doi: 10.1038/s41588-019-0512-x.
- Tahir Y, Yang Z, Chakraborty D, Thalmann D, Maniam Y, Abdul Rashid NA, Tan BL, Lee J, Dauwels J. Non-verbal speech cues as objective measures for negative symptoms in patients with schizophrenia. *PLoS One*. 2019; 14(4):e0214314. <https://doi.org/10.1371/journal.pone.0214314>.

Notable Research Awards & Grants From Past 5 Years

Name of Awards & Grants	Year Obtained
NHG Clinician Scientist Career Scheme (CSCS)	2016
RRIS Rehabilitation Research Grant 2 (RRG2)	2017
National Medical Research Council (NMRC) Clinician Scientist Award (CSA)	2018
MOH Office for Healthcare Transformation Fund	2019
2020 Catalyst Strategic - New Zealand-Singapore Data Science Research Programme	2020