Jimmy Lee Chee Keong

Senior Consultant Psychiatrist
North Region & Department of Psychosis, IMH
Associate Professor,
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Research Interests:

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

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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, the NHG Clinician Scientist Career Scheme in 2015, and the NMRC Clinician Scientist Awards in 2018 and 2023. 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.

Selected Publications

- Mina T, Yew YW, Ng HK, Sadhu N, Wansaicheong G, Dalan R, Low DYW, Lam BCC, Riboli E, Lee ES, Ngeow J, Elliott P, Griva K, Loh M, **Lee J**, Chambers J. Adiposity impacts Cognitive Function in Asian populations: an Epidemiological and Mendelian Randomization study. *Lancet Reg Health West Pac*. 2023. [IF:8.559] https://doi.org/10.1016/j.lanwpc.2023.100710

- Law C, See YM, Yee JY, Ng BT, Tang C, **Lee J**. The impact of clozapine delay on clinical outcomes in schizophrenia. *J Clin Psychiatry* 2023. In press [IF:5.906] https://doi.org/10.4088/jcp.22m14588

- Luykx JJ, Gonzalez JM, Guu T, van der Horst MZ, van Dellen E, Boks M, Guloksuz S, DeLisi LE, Sommer IE, Cummin R, **Lee J**, Every-Palmer S, Mhalla S, Chadly Z, Chan S, Cotes R, Takahashi S, Benros ME, Wagner E, Correll S, Hasan A, Siskind D, Endres D, MacCabe J, Tiihonen J. An International Research Agenda For Clozapine-Resistant Schizophrenia. *Lancet Psychiatry* 2023. In press [IF:77.056] https://doi.org/10.1016/S2215-0366(23)00109-8

- Xu S, Yang Z, Chakraborty D, Chua YHV, Tolomeo S, Winkler S, ...**Lee J** & Dauwels, J. Identifying psychiatric manifestations in schizophrenia and depression from audio-visual behavioural indicators through a machine-learning approach. NPJ *Schizophr.* 2022 Nov 07; 8(1), 1-13 [IF:4.966] https://doi.org/10.1038/s41537-022-00287-z

- Quek YF, See YM, Yee, JY, Gurpreet R, Ng BT, Tang C & **Lee J**. Metabolic syndrome and cardiovascular risk between clozapine and non-clozapine antipsychotic users with schizophrenia. *Asian Journal of Psychiatry* 2022 August. 74. 103192. 10.1016/j.ajp.2022.103192. [IF:3.543] https://doi.org/10.1016/j.ajp.2022.103192

- Trubetskoy, V, ... **Schizophrenia Working Group of the Psychiatric Genomics Consortium.** Mapping genomic loci implicates genes and synaptic biology in schizophrenia. *Nature* 2022 Apr; 604 (7906);502-508. [IF: 49.96] https://doi.org/10.1038/s41586-022-04434-5

- Rashid NA, Martanto W, Yang Z, Wang X, Heaukulani C, Vouk N, Buddhika T, Wei Y, Verma S, Tang C, Morris RJT, **Lee J**. Evaluating the utility of digital phenotyping to predict health outcomes in schizophrenia: protocol for the HOPE-S observational study. *BMJ Open*. 2021 Oct 20;11(10):e046552. [IF:2.496] https://doi.org/10.1136/bmjopen-2020-046552

- Lim K, Lam M, Zai C, Tay J, Karlsson N, Deshpande SN, Thelma BK, Ozaki N, Inada T, Sim K, Chong SA, Lencz T, Liu J, **Lee J**. Genome wide study of tardive dyskinesia in schizophrenia. *Transl Psychiatry*. 2021 Jun 8;11(1):351. [IF: 5.28] https://doi.org/10.1038%2Fs41398-021-01471-y

- Wang X, Vouk N, Heaukulani C, Buddhika T, Martanto W, **Lee J**, Morris RJ. HOPES: An integrative digital phenotyping platform for data collection, monitoring, and machine learning. *J Med Internet Res*. Mar 2021 15;23(3): e23984. [IF:7.52] https://doi.org/10.2196/23984

- 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. [IF: 16.6] https://doi.org/10.1001/jamapsychiatry.2018.1668

- **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 Oct;35(5):510-516. [IF 3.76] https://doi.org/10.1097/jcp.0000000000000387

Notable Research Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
Catalyst Strategic - New Zealand-Singapore Data Science Research Programme	2020
LKCMed-NUSMed-NHG Collaborative Mental Health Research Pilot Grant Call	2020
MOH Office for Healthcare Transformation Fund	2019 & 2022
National Medical Research Council (NMRC) Clinician Scientist Award (CSA)	2018 & 2023