Methichit

WATTANAPANITCH Ph.D.





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EDUCATION

- 2010: Ph.D. Psychiatry (Stem cell biology), University of New South Wales, Sydney, Australia
- 2005: B.Sc. (Biotechnology), First Class Honors, University of New South Wales, Sydney, Australia

EXPERTISE

- Generation of patient-specific induced pluripotent stem cells (iPSCs)
- · Differentiation of PSCs to blood cells
- Genome editing

OTHERS

- Committee, Molecular Genetics Network, Genetics Society of Thailand
- Member, Genetics Society of Thailand
- Committee, Thai Society for Stem Cell Research
- Associate Member, International Society for Stem Cell Research

ACADEMIC APPOINTMENTS

diseases, infectious diseases as well as cancers.

 2022 - present: Associate Professor, Research Department, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand

therapeutic approaches to treat degenerative diseases, genetic

Dr. Methichit is an Associate Professor at Siriraj Center for Regenerative Medicine (SiCRM), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand. She is interested in developing cell-based therapy for regenerative medicine and studying disease pathogenesis using patient-specific stem cells. She is also use genome engineering strategy to correct genetic mutations or enhance the functions of the cells to develop new

- 2018 2022: Assistant Professor, Research Department, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
- 2017 present: Principal investigator, Siriraj Center of Regenerative Medicine, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
- 2015 2018: Lecturer, Research Department, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
- 2010 2015: Senior Researcher, Siriraj Center of Excellence for Stem Cell Research (SiSCR), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand

AWARDS AND HONORS

- 2022: Siriraj Award of Honor 2022, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
- 2021: Research Excellence Award for Preclinical Research 2021, Faculty of Medicine Siriraj Hospital, Mahidol University
- 2019: Research Excellence Award for Young Investigator 2019, Faculty
 of Medicine Siriraj Hospital, Mahidol University, Thailand

SELECTED PUBLICATIONS

- 1.cWattanapanitch, M., Chailangkarn, T., Miranda, H.C., Muotri, A.R. 2023. Editorial: Advances in iPSC technology for disease modeling and therapeutic applications. *Frontiers in Cell and Developmental Biology*. 11: 1261279.
- 2. Thongsin, N., Suwanpitak, S., Wattanapanitch, M. 2023. CRISPR-Cas9-mediated disruption of B2M and CIITA genes eliminates.

 Maclass I and II expression in human induced pluripotent stem cells (MUSIi001-A-2). **Stem Cell Research. 71: 103138.
- 3 Kaewboonlert, N., Wattanapanitch, M., Praditsap, O., Deejai, N., Chanprasert, C., Sawasdee, N., Nettuwakul, C., Wanachiwanawin, W., Sritippayawan, S., Thamtarana, P.J., Yenchitsomanus, P.T., Rungroj, N. 2023. An induced pluripotent stem cell line (MUSIi019-A) generated from a patient with distal renal tubular acidosis carrying a compound heterozygous mutation in solute carrier family 4 member 1 (SLC4A1) gene. Stem Cell Research. 67: 103043.