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EDUCATION

Jul 2019 – Aug 2022 **Mahidol University, THAILAND**
Master's in medical Biochemistry and Molecular Biology (International Program)
Thesis title: *Derivation of Induced Pluripotent Stem Cells-derived Dermal Papilla Cells for Developing Cell-based Therapy*
Thesis supervisor: Assist. Prof. Chinnavuth VATANASHEVANOPAKORN

Aug 2015 – May 2019 **Kasetsart University, THAILAND**
B.S. (Biology) with Second Class Honours
Thesis title: *The Effect of Extracellular Matrices on the Osteogenic Differentiation of Mesenchymal Stem Cells*
Thesis supervisor: Assist. Prof. Chomdao SINTHEVANICHS and Dr.Mesayamas KONGSEMA

RESEARCH INTEREST

Cell Biology, Developmental Biology, Stem Cells, Cell Fate and Specification, and Cell-based Therapy

EMPLOYMENT HISTORY

Aug 2022- Aug 2023 Assistant researcher at ReLIFe Co., Ltd. (NSTDA Startup), Faculty of Engineering, Chulalongkorn University, Thailand
Research project: *Construction of in vitro hair follicles from hair-derived cells.*

LIST OF PUBLICATIONS

1. Vatanashevanopakorn, C., & **Sartyoungkul, T.** (2023). iPSC-based approach for human hair follicle regeneration. *Frontiers in cell and developmental biology*, 11, 1149050. <https://doi.org/10.3389/fcell.2023.1149050>
2. Khan A, Dobre O, Wang Y, **Sartyoungkul T**, Salmeron-Sanchez M, Harnett M. H., Pineda M. A. (2022) Inflammatory Synovial Fibroblast Culture in 3D Systems: A Comparative Transcriptomic and Functional Study. *BioRxiv*, 521283. <https://doi.org/10.1101/2022.12.21.521283>
3. **Sartyoungkul T**, Tantarungsee N, Thongsin N, Wattanapanitch M, Petcharat K, Soi-ampornkul R, Triwongwanat D, Thuangtong R, Vatanashevanopakorn C. (2022) Derivation of induced pluripotent stem cell-derived dermal papilla cells for developing cell-based therapy. Graduate Research Forum, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand.

GRANT AND FELLOWSHIP

2017- The Development and Promotion of Science and Technology Talents Project
Present (2023) (DPST) Royal Government of Thailand scholarship

PRESENTATION AND CONFERENCE

2022 **Short oral presentation** in Graduate Research Forum 2022

2019 **Poster and Oral presentation**, DPST student conference on Science and Technology

RESEARCH EXPERIENCE

Jun-Aug 2018 **Summer Internship** and Short-term Research with **Dr. Miguel Pineda and Prof. Margaret Harnett** at Institute of Infection, Immunity and Inflammation, University of Glasgow, **Scotland**
Research Project: *Developing 3D models for synovial fibroblasts culture*

RESEARCH SKILLS

- Cell culture (iPSCs, mesenchymal stem cells, fibroblasts, and cancer cell lines) and cellular differentiation
- Experience in induce stem cells into specific types of cells and characterize the abilities of the cells generated cells.
- Isolation, preparation, and cultivation biological samples (dermal papilla, liver, and blood)
- Molecular techniques
 - Quantitative Polymerase Chain Reaction (qPCR)
 - Gel electrophoresis
- Immunological techniques

- ELISA
- Immunofluorescent
- Flow cytometry
- Macromolecule blotting and probing (western blot)
- The use of animal in biomedical research

UNIVERSITY ACTIVITIES

2019-2020 Member of graduate student council, Mahidol university

2017-2018 Head of academic affairs in the student union of science, Kasetsart University

SOFT SKILLS

- Fast learner, reliable and responsible.
- Good interpersonal communication skill.
- Enthusiastic and self-motivate.
- Well time management.
- Eager for new knowledge.

LANGUAGES

- Thai (Native)
- English (IELST 6)
- Chinese (HSK2)
- French (Basic)

REFERENCE PERSON

1) Assist. Prof. Chinnavuth VATANASHEVANOPAKORN

Department of Biochemistry, Faculty of Medicine, Siriraj Hospital, Mahidol University, THAILAND

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2) Assist. Prof. Kongtana TRAKARNSANGA

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