

CURRICULUM VITAE

Personal Information

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Education Background

2018 – 2025

Doctor of Philosophy (Ph.D.) in Pharmacology (International Program)

Focusing on Systems Pharmacology and New Drug Development,
Department of Pharmacology, Faculty of Medicine Siriraj Hospital,
Mahidol University, Bangkok, Thailand. **CGPA 4.00/4.00**

Thesis defense date: January 27, 2025.

Thesis title: Study of Cholangiocarcinoma Stem Cells-Mediated Drug Resistance

2011- 2016

First-class honors in Doctor of Pharmacy (Pharm.D.)

School of Pharmacy, Walailak University,
Nakhon Si Thammarat, Thailand. **GPAX 3.59/4.00**

Graduation date: March 30, 2017.

Thesis title: Construction of Genomic Library of *Streptomyces* sp. KB1

Scholarships:

- Ph.D. scholarships: **The Royal Golden Jubilee Ph.D. Program (RGJ-Ph.D. Program)** and **the Royal Scholarship from Professor Dr. Her Royal Highness Princess Chulabhorn Krom Phra Srisavangavadhana**, the Chulabhorn Foundation.
- Pharm.D. scholarship: **The Royal Scholarship from Professor Dr. Her Royal Highness Princess Chulabhorn**, the Chulabhorn Foundation.

Awards, Honours, and Grants:

2026

Awarded a full fee waiver for EMBO | EMBL Symposium: AI and biology by EMBL Corporate Partnership Programme and EMBO

2025

Awarded a full fee waiver for Microscopy data analysis: machine learning and the BioImage Archive 2025 Course by the European Bioinformatics Institute (EMBL-EBI)

2024

Awarded a full fee waiver for the Fundamentals of AI/ML in Precision Medicine Course and

Fundamentals of Data Science in Precision Medicine and Cloud Computing Course by Stanford Data Ocean, Department of Genetics, Stanford Medicine, Stanford University.

2021

The Best Poster Presentation Award presented on the topic "Differentiation potential of cholangiocarcinoma stem cells evaluated by live-biosensor" at The 42nd Pharmacological and Therapeutic Society of Thailand Meeting "Precision Medicine from Research to Clinical Implementations" May 19-21, 2021

Work Experience:

2026 - now

Head of Bioinformatics *Genfosis Co., Ltd.*

- Direct genetic analysis workflows for personalized health initiatives, processing genomic data via Whole Exome Sequencing (WES) and SNP arrays.
- Develop and execute epigenetic analysis pipelines to evaluate epigenetic clock profiles.
- Design pre-clinical and translational experimental frameworks for Contract Research Organization (CRO) services, leveraging dual expertise in clinical pharmacy and systems pharmacology to guide project strategy.

2025 - now

Postdoctoral Researcher Department of Pharmacology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand, under the direction of Assoc. Prof. Dr. Siwanon Jirawatnotai.

- Elucidating the role of HDAC inhibitors in rare cancers: Investigating novel therapeutic vulnerabilities in under-researched malignancies.
- Epigenetic changes driven by ARID1A loss of function: Exploring how chromatin remodeling deficiencies contribute to cancer progression and drug resistance.
- Role of cholangiocarcinoma stem cell in cancer drug resistance.

2018 - 2025

Doctoral Researcher in Project "Study of Cholangiocarcinoma Stem Cells-Mediated Drug Resistance", at Department of Pharmacology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand, under the direction of Assoc. Prof. Dr. Siwanon Jirawatnotai.

2017 Pharmacist at eXta Plus Drugstore (qualified pharmacy accreditation) under C.P. ALL PUBLIC COMPANY LIMITED, Thailand.

2016

- Thai Nakorn Patana Company Limited, Nonthaburi, Thailand.
- Queen Saovabha Memorial Institute, Bangkok, Thailand.
- Thai Herbal research and development center, Huai Yot Hospital, Trang, Thailand.
- Thasala Hospital, Nakhon Si Thammarat, Thailand.
- Office of The Consumer Protection, Nakhon Si Thammarat Health Provincial Office, Nakhon Si Thammarat, Thailand.

2015

- Research Assistant in Project "Construction of genome library of *Streptomyces* sp. KB1", at School of Pharmacy, Walailak University, Nakhon Si Thammarat, Thailand, under the direction of Assoc. Prof. Dr. Apichart Atipairin.

- Research Assistant in Project “Analytical Method Validation for Determination of quinine sulfate in extemporaneous oral suspension”, at School of Pharmacy, Walailak University, Nakhon Si Thammarat, Thailand, under the direction of Assoc. Prof. Dr. Apichart Atipairin.
- Research Assistant in Project “Stability of extemporaneous quinine sulfate oral suspension”, at School of Pharmacy, Walailak University, Nakhon Si Thammarat, Thailand, under the direction of Assoc. Prof. Dr. Apichart Atipairin.
- Pharmacy Internship at Kedsinee Drugstore, Nakhon Si Thammarat, Thailand.
- Pharmacy Internship at Maharaj Nakhon Si Thammarat Hospital, Nakhon Si Thammarat, Thailand.

2014

- Research Assistant in Project “Enhanced Sildenafil solubility by solid dispersion”, at School of Pharmacy, Walailak University, Nakhon Si Thammarat, Thailand, under the direction of Assoc. Prof. Dr. Apichart Atipairin.
- Research Assistant at the Center of Excellence in Molecular Genetics of Cancer and Human Diseases at the Faculty of Medicine, Chulalongkorn University, Thailand under the direction of Prof. Dr. Apiwat Mutirangura.

2013 Visitor at the Laboratory of Biochemistry at Chulabhorn Research Institute, Bangkok, Thailand, under the direction of Prof. Dr. M.R. Jisnuson Svasti and Dr. Kriengsak Lirdprapamongkol.

2012 – 2014

- Research Assistant at the Utilization of Natural Products Research Unit at Walailak University, Nakhon Si Thammarat, Thailand, under the direction of Assoc. Prof. Dr. Worrarong Phupong.

Relevant Courses and Conferences

2025 Cancer Genetics: History & Consequences by Cold Spring Harbor Laboratory; 2025 March 26-29; New York, USA.

2024 The 45th International Meeting of the Pharmacological and Therapeutic Society of Thailand “Innovations and Translations in Pharmacology”; 2024 May 15-17; Bangkok, Thailand.

2022 The Cholangiocarcinoma Foundation's Annual Conference 2022; 2022 February 23-25; Utah, USA (Online).

2021

- The 42nd Pharmacological and Therapeutic Society of Thailand Meeting "Precision Medicine from Research to Clinical Implementations"; 2021 May 19-21; Faculty of Medicine, Khon Khan University (Online).
- The 2021 National RGJ and RRI Conference; 2021 June 14; Online.

2017 The 1st Cancer Precision Medicine Academic Conference 2017 by Precision Medicine for Cancer Project under the health cluster, Research University Network (RUN) Thailand at Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand.

2014

- Trained in Good Clinical Practice (GCP) at Walailak University, Thasala, Nakhon Si Thammarat, Thailand.
- Trained “X-ray diffraction analysis of protein crystals training” by Synchrotron Light Research Institute (public organization) at the Faculty of Pharmaceutical Sciences, Prince of Songkla University, Hat Yai, Songkhla, Thailand.
- The 6th Walailak Research National Conference at Technology and Innovation Building, Walailak University, Thasala, Nakhon Si Thammarat, Thailand.

- The 7th AOHUPO (Asia Oceania Human Proteome Organization) Congress and the 9th International Symposium of the Protein Society of Thailand, Bangkok, Thailand.

Educations

Computational Biology

- [Galaxy Training Network](#)
 - Reference-based RNA-seq data analysis
 - Epigenetics (ATAC-seq)
 - Single-cell RNA-seq data analysis
- Master Real-World Bioinformatics Analysis in R by [Ming "Tommy" Tang](#)
- Fundamentals of Data Science in Precision Medicine and Cloud Computing by [Stanford Data Ocean](#), Department of Genetics, Stanford Medicine, Stanford University
- [Single-cell RNA-seq analysis](#) by [University of Cambridge](#)
- [Microscopy data analysis: machine learning and the BiImage Archive 2025](#) by [EMBL's European Bioinformatics Institute \(EMBL-EBI\)](#)

Artificial Intelligence

- Foundation AI (Theory) in [Super AI Engineer](#) season 5 by the Artificial Intelligence Association of Thailand.
- Fundamentals of AI/ML in Precision Medicine by the [Stanford Data Ocean](#), Department of Genetics, Stanford Medicine, Stanford University
- [Google Certified Gemini Educator](#) by Google for Education

Product Design, with a focus on Data Visualization

- UI Fundamental by [Skooldio](#)
- Dashboard Design Principles by [Skooldio](#)
- Introduction to User Experience (UX) Design by [Skooldio](#)

Intellectual Property

- General Course on Intellectual Property (DL-101) by [World Intellectual Property \(WIPO\)](#)

Other Experience/Voluntary Work

Social Activities:

- Initiator and administrator of "[Exercise Mania Patients](#)", an online group of Thai patients on Facebook since 2018 who are interested in physical activities. Now the group has around 800 members.
- Initiator and administrator of "[NO CANCER THAILAND: cz cancer research is sophisticated](#)", a Facebook page that provides scientific information about cancer for the layperson. Our aim is to help Thai people understand the biology of cancer and cancer precision medicine in the simplest way and reduce misconceptions.
- Initiator and administrator of "[Miss Asthma Thailand](#)": a Facebook page helping asthmatic friends for fostering a supportive environment and promoting asthma awareness.
- Co-founded "[The Next-Gen Seq Squad](#)", an international computational biology community to facilitate global networking, open science, and collaborative knowledge sharing among bioinformatics professionals.

Languages:

Thai (Native language)
English (Proficient)

Leisure and Interests

- Music:** Flute, Cello
- Chairperson of Walailak University Ensemble Committee in the academic year 2015
 - Flutist and conductor in Walailak University Ensemble
- Sports:** Basketball, badminton, running, climbing, and riding a bicycle
- Two times Audax 200 Brevets Randonneurs Mondiaux by achieving 200 km riding at Trang and Ayutthaya, organized by Audax Randonneurs Thailand, certified by Audax Club Parisien.

Publications**Poster Presentations:****2024**

- **Kongtanawanich K**, Jamnongsong S, Sampattavanich S, Wattanapanitch M, Jirawatnotai S. Analyzing Anchorage-Independent Tumorigenesis of the Live Cholangiocarcinoma Stem Cell Biosensor Using High-Throughput Imaging and Computational Pipelines. The 45th International Meeting of the Pharmacological and Therapeutic Society of Thailand "Innovations and Translations in Pharmacology"; 2024 May 15-17; Bangkok, Thailand.

2022

- **Kongtanawanich K**, Wattanapanitch M, Jirawatnotai S. Live-biosensor identified subpopulations of cholangiocarcinoma cell lines that contain cancer stem cell properties. The Cholangiocarcinoma Foundation's Annual Conference 2022; 2022 February 23-25; Utah, USA (online).

2016

- Songnaka N, **Kongtanawanich K**, Lertcanawanichakul M, Atipairin A. Construction of genomic library of *Streptomyces* sp. KB1. The 4th Current Drug Development (CDD) International Conference; 2016 June 1-3; Phuket, Thailand.
- Mitchuayrod A, Puthhai M, Bannakit K, Ruksritong W, Pongthai P, **Kongtanawanich K**, Anakarnjana S, Atipairin A. Analytical Method Validation for Determination of quinine sulfate in extemporaneous oral suspension. The 4th Current Drug Development (CDD) International Conference; 2016 June 1-3; Phuket, Thailand.

Oral Presentations:**2021**

- **Kongtanawanich K**, Wattanapanitch M, Jirawatnotai S. Differentiation potential of cholangiocarcinoma stem cells evaluated by live-biosensor. The 42nd Pharmacological and Therapeutic Society of Thailand Meeting "Precision Medicine from Research to Clinical Implementations"; 2021 May 19-21; Faculty of Medicine, Khon Khan University (Online).

2016

- Atipairin A, Mitchuayrod A, Puthhai M, Bannakit K, Ruksritong W, Pongthai P, **Kongtanawanich K**, Anakarnjana S. Stability of extemporaneous quinine sulfate oral suspension. The 8th Walailak Research National Conference; 2016 July 7-8; Nakhon Si Thammarat, Thailand.

Editorial Contributions:

2026

- Technical Editor. Starmer J. The StatQuest illustrated guide to statistics: With hands-on examples in Python and R!!!. StatQuest Publications; 2026.

Publications:

2025

- **Kongtanawanich K**, Jamnongsong S, Hokland M, Wattanapanitch M, Jirawatnotai S. High-content confocal analysis of tumorigenesis, cancer stem cells, and drug response in 3D cholangiocarcinoma cultures. *Sci Rep.* 2025;15(1):31387.
- **Kongtanawanich K**, Likasitwanakul P, Wattanapanitch M, Jirawatnotai S. Optimization of *in vitro* cell culture conditions suitable for the cholangiocarcinoma stem cell study. *Sci Asia.* 2025;51(4):1-8.

2024

- **Kongtanawanich K**, Prasopporn S, Jamnongsong S, Thongsin N, Payungwong T, Okada S, et al. A live single-cell reporter system reveals drug-induced plasticity of a cancer stem cell-like population in cholangiocarcinoma. *Sci Rep.* 2024;14(1):22619.

2015

- **Kongtanawanich K**. Pharmacy Student's Dream. in: Muangchana C, editor. *Ideal Vaccine. 7th Thailand Vaccine Conference*; 2015 July 7-9; Bangkok, Thailand. Nonthaburi: National Vaccine Institute; 2015. p. 20.

For more information,
please visit my website.
(<https://kuchikinamthip.github.io/>)

