



KITTIYA ISLAM, Ph.D.

Date of Birth: September 21, 1989
Current Position: Researcher
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Professional Summary

Ph.D.-trained biochemist with expertise in cancer biology and tumor microenvironment research. Experienced in elucidating molecular mechanisms underlying cancer progression, with a focus on cell-matrix interactions and signaling pathways. Proficient in a range of wet-lab techniques, including cell-based functional assays, qPCR, and immunoassays. Familiar with bioinformatics approaches such as RNA-seq data analysis and differential gene expression profiling, with a strong interest in further developing computational capabilities to support biomarker discovery and translational oncology.

Education

- 2022 Ph.D. in Biochemistry (International program)
Faculty of Science, Mahidol University, Thailand
Thesis title: Roles of Laminin and Integrins in Cholangiocarcinoma Progression
Advisor: Prof. Tuangporn Suthiphongchai
- 2011 B.Sc. (Hons) in Biology, 1st Class
Faculty of Science, Mahidol University, Thailand
Senior project: Expression of MMPs and Their Inhibitors in HepG2 Cells Following Dengue Virus Infection
Advisor: Asst. Prof. Dr. Supeecha Kumkate

Research Experiences

- Cancer metabolism and tumor microenvironment dynamics
- Bioinformatics and computational analysis in cancer research
- Cancer biomarker discovery and translational oncology

Publications

- 2025 Islam K. et al. Gut Dysbiosis and Plasma Trimethylamine Oxide Are Associated with Subclinical Coronary Atherosclerosis in Obese Patients with Metabolic Dysfunction-Associated Steatotic Liver Disease. *Nutrients*.
- 2023 Islam K. et al. Upregulated LAMA3 modulates proliferation, adhesion, migration and epithelial-to-mesenchymal transition of cholangiocarcinoma cells. *Sci Rep*.
- 2022 Islam K. et al. Bioinformatics and qPCR analyses of laminins' cognate receptors in cholangiocarcinoma tissues reveal the integrin ITGB4 as a potential biomarker. *Sci Asia*.
- 2021 Islam K. et al. Role of laminin and cognate receptors in cholangiocarcinoma cell migration. *Cell Adh Migr*.
- 2017 Sritananuwat P, Sueangoen N, Thummarati P, Islam K, Suthiphongchai T. Blocking ERK1/2 signaling impairs TGF- β tumor promoting function but enhances its tumor suppressing role in intrahepatic cholangiocarcinoma cells. *Cancer Cell Int*.

Work Experiences

- 2025-present Researcher at Department of Immunology, Faculty of Medicine, Siriraj Hospital, Mahidol University
- 2024 C2F Postdoctoral researcher at Department of Biochemistry, Faculty of Medicine, Chulalongkorn University
- 2023 Assistant Editor of Biology Journal at MDPI Thailand
- 2022 Research assistant at Department of Biochemistry, Faculty of Science, Mahidol University

Technical Experiences

- Animal cell and bacterial culture
- *In vitro* cell migration and invasion analysis
- Immunofluorescence/ Immunohistochemistry
- Flow cytometry
- DNA/RNA/Protein extraction
- Conventional PCR/Real-time PCR
- Western blotting
- Plasmid design and construction
- Gene knockdown and overexpression in mammalian cell lines
- RNA-seq Analysis using R

Academic Activities

- 2026 Poster presentation at the Allergy, Asthma and Immunology Association of Thailand, Bangkok, Thailand
- 2024 Oral presentation at the 83rd Japanese Cancer Association annual meeting, Fukuoka, Japan
- 2018 Poster presentation at the 1st FAQBMB school in infectious disease, Bangkok, Thailand
- 2018 Poster presentation at the RGJ-Ph.D. Congress 19, Pattaya, Thailand
- 2016 Poster presentation at the 5th International Biochemistry and Molecular Biology Conference, Songkhla, Thailand
- 2015 Oral presentation at the 112th TRF Seminar series on MUSCBC Research Symposium, Mahidol University, Bangkok, Thailand
- 2014 Poster presentation at the 73rd Japanese Cancer Association annual meeting, Yokohama, Japan
- 2010 Oral presentation at the 6th Conference on Science and Technology for Youths, Bangkok, Thailand
- 2010 Oral presentation at the 12th Science Project Exhibition, Faculty of Science, Mahidol University, Bangkok, Thailand

Fellowships and Awards

- 2024 Travel fellowship for the 83rd Japanese Cancer Association annual meeting (Fukuoka, Japan)
- 2014 Travel fellowship for the 73rd Japanese Cancer Association annual meeting (Yokohama, Japan)
- 2011 The Royal Golden Jubilee (RGJ) Ph.D. Program Scholarship
- 2010 The Institute Strengthening Program scholarship, Faculty of Science, Mahidol University
- 2010 Outstanding award in oral presentation at the 12th Science Project Exhibition, Faculty of Science, Mahidol University