



## Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)

999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon

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**Name** Sarunya Kitdumrongthum, Ph.D.

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**Current position** Lecturer

### Education

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| 2019 | Doctor of Philosophy (Toxicology), Multi-Disciplinary Unit, Faculty of Science, Mahidol University, Thailand                              |
| 2012 | Bachelor of Science (Biochemistry and Biochemical Technology, Department of Chemistry, Faculty of Science, Chiangmai University, Thailand |

### Research Interest and Expertise

1. Extracellular vesicles
2. Molecular biomarkers of food contaminant exposure
3. Biological activity and anticancer activity of natural compounds
4. Small RNAs (microRNAs and Long Non-coding RNAs) in Non-communicable diseases (NCDs)
5. Gene polymorphisms in cancer

### Research Experiences

1. Expression of small RNAs (miRNAs) in extracellular vesicles derived from cancer cell lines and biological samples
2. Biological functions and signaling pathways of miRNAs related to in malignant phenotypes of cancer cell lines
3. Inhibitory effect of natural compounds and its derivatives on human topoisomerase II $\alpha$  activity
4. Anti-cancer activity and anti-cancer mechanisms of natural compounds and its derivatives in cancer cell lines



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### Training

- 2023 หลักสูตร Human Subjects Research (Course Learner Group: Biomedical Researchers) จาก Collaborative Institutional Training Initiative (CITI Program)
- 2023 หลักสูตร Good Clinical Practice (Course Learner Group: Researcher Biological) จาก Collaborative Institutional Training Initiative (CITI Program)
- 2023 โครงการพัฒนาศักยภาพคณะกรรมการคณะกรรมการจริยธรรมการวิจัยในคน ในหัวข้อ Ethical Issues in Research Involving Biobanking จากมูลนิธิส่งเสริมการศึกษาวิจัยในคนในประเทศไทย
- 2022 หลักสูตรจริยธรรมการวิจัยในคนสำหรับการวิจัยด้านชีวการแพทย์ จากศูนย์ส่งเสริมการวิจัย มหาวิทยาลัยมหิดล
- 2022 หลักการคุ้มครองข้อมูลส่วนบุคคลสำหรับนักศึกษาและบุคลากรมหาวิทยาลัยมหิดล จาก มหาวิทยาลัยมหิดล
- 2022 โครงการอบรมเทคนิคการกรอกแบบฟอร์มเพื่อขอรับรองจริยธรรมการวิจัยในคน จาก สำนักงานจริยธรรมการวิจัย ฝ่ายวิจัย มหาวิทยาลัยรังสิต
- 2021 หลักสูตรจริยธรรมการวิจัย (Research Integrity) (e-Learning) จากสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.)
- 2021 หลักสูตร GPC online training (Computer based) “แนวทางการปฏิบัติการวิจัยทางคลินิกที่ดี (CH-GCP:E6(R2))” จากคณะกรรมการจริยธรรมการทำวิจัยในคน มธ.ชุดที่ 1 และศูนย์วิจัยทางคลินิกคณะแพทยศาสตร์
- 2021 Research Ethics & GCP Course (Human Research Ethics in a New and Challenging Era) from National Research Council of Thailand (NRCT) and Forum for Ethical Review Committees in Thailand (FERCIT)
- 2020 Online Research Ethics Training Course หลักสูตรหลักจริยธรรมการวิจัยในมนุษย์สำหรับคณะกรรมการจริยธรรม จาก National Research Council of Thailand (NRCT) and Forum for Ethical Review Committees in Thailand (FERCIT)

### Honors and Awards

- 2019 First place, Oral presentation: Title “Dysregulated microRNA expression profiles in cholangiocarcinoma cell-derived exosomes”
- 2012 First class Honors, Gold medal of B.Sc., Chiangmai University
- 2014-2020 Training grant: The Royal Golden Jubilee Ph.D. Program, The Thailand Research Fund
- 2012-2013 Training grant: Institutional Strengthening Program, Mahidol University



## Publications

### International

1. Worakitchanon, W., Panvongsa, W., Siripoon, T., Kitdumrongthum, S., Wongpan, A., Arsa, L., Trachu, N., Jinawath, N., Chairoungdua, A., & Ngamphaiboon, N. (2023). Six-MicroRNA Prognostic Signature in Patients With Locally Advanced Head and Neck Squamous Cell Carcinoma. *JCO Precision Oncology*(7), e2300003. <https://doi.org/10.1200/po.23.00003>
2. Kitdumrongthum, S., & Trachootham, D. (2023). An Individuality of Response to Cannabinoids: Challenges in Safety and Efficacy of Cannabis Products. *Molecules*, 28(6), 2791. <https://www.mdpi.com/1420-3049/28/6/2791>
3. Hasan, H., Sohal, I. S., Soto-Vargas, Z., Byappanahalli, A. M., Humphrey, S. E., Kubo, H., Kitdumrongthum, S., Copeland, S., Tian, F., Chairoungdua, A., & Kasinski, A. L. (2022, Jan 19). Extracellular vesicles released by non-small cell lung cancer cells drive invasion and permeability in non-tumorigenic lung epithelial cells. *Sci Rep*, 12(1), 972. <https://doi.org/10.1038/s41598-022-04940-6>
4. Chatsirisupachai, K., Kitdumrongthum, S., Panvongsa, W., Janpipatkul, K., Worakitchanon, W., Lertjintanakit, S., Wongtrakoongate, P., & Chairoungdua, A. (2020, Nov). Expression and roles of system L amino acid transporters in human embryonal carcinoma cells. *Andrology*, 8(6), 1844-1858. <https://doi.org/10.1111/andr.12880>
5. Kitdumrongthum, S., Reabroi, S., Suksen, K., Tuchinda, P., Munyoo, B., Mahalapbutr, P., Rungrotmongkol, T., Ounjai, P., & Chairoungdua, A. (2020, Jul). Inhibition of topoisomerase II $\alpha$  and induction of DNA damage in cholangiocarcinoma cells by altholactone and its halogenated benzoate derivatives. *Biomed Pharmacother*, 127, 110149. <https://doi.org/10.1016/j.biopha.2020.110149>
6. Kitdumrongthum, S., Methetrairut, C., Charoensawan, V., Ounjai, P., Janpipatkul, K., Panvongsa, W., Weerachayaphorn, J., Piyachaturawat, P., & Chairoungdua, A. (2018, Oct 1). Dysregulated microRNA expression profiles in cholangiocarcinoma cell-derived exosomes. *Life Sci*, 210, 65-75. <https://doi.org/10.1016/j.lfs.2018.08.058>
7. Dutta, S., Reamtong, O., Panvongsa, W., Kitdumrongthum, S., Janpipatkul, K., Sangvanich, P., Piyachaturawat, P., & Chairoungdua, A. (2015, Sep). Proteomics profiling of cholangiocarcinoma exosomes: A potential role of oncogenic protein transferring in cancer progression. *Biochim Biophys Acta*, 1852(9), 1989-1999. <https://doi.org/10.1016/j.bbadis.2015.06.024>



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### Presentations

1. December 19-21, 2019 Poster presentation: Title “Induction of cholangiocarcinoma cell death through topoisomerase II $\alpha$  inhibition by altholactone and halogenated benzoate derivatives” 47th Physiological society of Thailand annual meeting, Research Innovation and Precision Medicine Challenging Role for Physiologists, Bangkok, Thailand (first author)
2. December 19-21, 2018 Oral presentation: Title “Dysregulated microRNA expression profiles in cholangiocarcinoma cell derived exosomes” 46th Physiological society of Thailand annual meeting, Research and educational innovation in medical sciences, Khao Yai, Thailand (first author)
3. June 7-9, 2018 Poster presentation: Title “Characterization and microRNA profiling of cholangiocarcinoma cells derived exosomes” RGJ-Ph.D. Congress 19, Innovation Challenges toward Thailand 4.0 Research Inspiration, Connectivity and Transformation, Pattaya, Thailand (first author)
4. April 14-18, 2017 Poster presentation: Title “Exosomal RNA mediates transformation of non-tumorigenic human bronchial lung epithelia cells” AACR Annual Meeting 2018, Driving Innovative Cancer Science to Patient Care, American Association for Cancer Research, Chicago, Illinois, USA (first author)