

Curriculum Vitae

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Education

2009	B.Sc. in Medical Science, Mahidol University, Bangkok, THAILAND
2017	M.D., Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, THAILAND
2018	Ph.D. in Molecular Medicine, Mahidol University, Bangkok, THAILAND

Academic appointment

2016-present	Member of The Genetics Society of Thailand
2017-present	Member of Medical Association of Thailand
2018-present	Lecturer in Department of Biochemistry, Faculty of Medicine, Khon Kaen University, THAILAND
2020-present	Member of The Science Society of Thailand Under the Patronage of His Majesty the King
2022-present	Lecturer in the Data Science and Health Informatics Program, Faculty of Medicine, Khon Kaen University, THAILAND
2024-present	Assistant to the Dean (AI and Data Sciences), Faculty of Medicine, Khon Kaen University, THAILAND

International Publication

1. Hesperidin Reverses Oxidative Stress-Induced Damage in Kidney Cells by Modulating Antioxidant, Longevity, and Senescence-Related Genes. Buakaew S., Sakonsinsiri C., **Lert-itthiporn W.**, Cha'on U., Rudtanatip T., Kraiklang R., Kaewlert W., Rattanaseth P., Pakdeechote P., Thanan R.. Biomedicines. 2025;13(12).
2. Detection of Serum Tumor-Associated Glycobiomarker for Meningioma Using Dolichos biflorus Agglutinin. Moonsan N., Putthisen S., Panawan O., Luang S., Mahalapbutr P., Kitkhuandee A., Duangthongphon P., Jingjit K., Piyawattanametha N., Phankhongsab A., Waraasawapati S., Aphivatanasiri C., Vaeteewoottacharn K., Sawanyawisuth K., Seubwai W., **Lert-itthiporn W.**, Saengboonmee C., Prongvitaya S., Talabnin K., Talabnin C., Kuno A., Araki N., Silsirivanit A. J Proteome Res. 2025;24(12):6285-94. doi: 10.1021/acs.jproteome.5c00904.
3. Bioinformatics analysis identified TCP1 and NOTCH1 as potential target molecules to overcome 5-fluorouracil resistance in cholangiocarcinoma. Kidoikhammouan S., Kanchanangkul N., **Lert-itthiporn W.**, Deenonpoe R., Saengboonmee C., Obchoei S., Wongkham S., Seubwai W. Adv Clin Exp Med. 2025. doi: 10.17219/acem/203446.
4. Discrimination of urine infrared spectral biomarkers for early-stage chronic kidney disease patients using attenuated total reflectance fourier transform infrared spectrometry. Rachawangmuang P., Chatchawal P., Tippayawat P., Jusakul A., Kraiklang R., **Lert-itthiporn W.**, Najermpoy A., and Wongwattanakul M.. Clin Chim Acta. 2025;579:120665.
5. Cholangiocarcinoma-derived secreted products and growth arrest-specific 2-like 3 enhance migratory and invasive abilities of fibroblasts. Paungpan N., Vaeteewoottacharn K., Dana P., Saisomboon S., Roytrakul S., Hipkaeo W., Polsan Y., Sawanyawisuth K., Luang S., **Lert-itthiporn W.**, Luvira V., Pairojkul C., Chamgramol Y., Wongkham S. & Okada S. Eur J Cell Biol. 2025;104, 151507.
6. Exploring kidney injury molecule-1 and HAVCR1 polymorphisms as predictive biomarkers in chronic kidney disease. Chaiyagot N, Silsirivanit A, Cha'on U, Jusakul A, Techasen A, Nahok K, Chamdam A, Anutrakulchai S, **Lert-itthiporn W.** Kidney Dis (Basel). 2025;11, 342-355.
7. Alleles of CYP3A5 and their association with renal function in chronic kidney disease. Kongphan O, **Lert-itthiporn W**, Cha'on U, Anutrakulchai S, Nahok K, Artkaew N, et al. PeerJ. 2025;13:e19424.
8. Silencing of O-GlcNAc Transferase Attenuated O-GlcNAcylation and Metastatic Potentials of Melanoma Cells Through Suppression of Akt-NFkappaB Signaling Pathway. Kanchanangkul N, Panawan O, Teeravirote K, Ma-In P, Mahalapbutr P, Luang S, Seubwai W, **Lert-itthiporn W**, Kaewkong W, Vaeteewoottacharn K, Wongkham S, Roytrakul S and Silsirivanit A. Chembiochem. 2025:e202400896.
9. Targeting EGFR Activation to Overcome Gemcitabine Resistance in Cholangiocarcinoma. Kidoikhammouan S, **Lert-itthiporn W**, Deenonpoe R, Saengboonmee C, Obchoei S, Wongkham S, Seubwai W. Anticancer Res. 2024;44(12):5393-404.
10. CDKN3 acts as a tumor promoter enhancing proliferation of cholangiocarcinoma cells. Waenphimai O, Thamrongwarangoon U, Kidoikhammouan S, Sorin S, Klinhom-on N, Seubwai W, Saengboonmee C, Detarya M, Sungwan P, Wongkham S, **Lert-itthiporn W.** ScienceAsia 2024;50:1-9
11. Buparlisib and ponatinib inhibit aggressiveness of cholangiocarcinoma cells via suppression of IRS1-related pathway by targeting oxidative stress resistance. Kaewlert W, Sakonsinsiri C, **Lert-itthiporn W**, Mahalapbutr P, Ali S, Rungrotmongkol T, et al. Biomed Pharmacother. 2024;180:117569.
12. Urinary metabolic profile and its predictive indexes after MSG consumption in rat. Sukmak M, Kyaw TS, Nahok K, Sharma A, Silsirivanit A, **Lert-itthiporn W**, et al. xPLoS One. 2024;19(9):e0309728.

13. Iron-induced kidney cell damage: insights into molecular mechanisms and potential diagnostic significance of urinary FTL. Puchai S, Chaiyagot N, Artkaew N, Jusakul A, Cha'on U, Thanan R, Vaeteewoottacharn K, **Lert-itthiporn W.**, Front. Mol. Biosci., 2024, 11:1352032
14. Overexpression of microRNA-205-5p promotes cholangiocarcinoma growth by reducing expression of homeodomain-interacting protein kinase 3. Aye Myat M, Intuyod K, Klungsaeng S, Jusakul A, Pongking T, **Lert-itthiporn W**, Luvira V, Pairojkul C, Plengsuriyakarn T, Na-Bangchang K, Pinlaor S, Pinlaor P, Sci Rep. 2023 Dec 17;13(1):22444.
15. Overexpression of Insulin Receptor Substrate 1 (IRS1) Relates to Poor Prognosis and Promotes Proliferation, Stemness, Migration, and Oxidative Stress Resistance in Cholangiocarcinoma. Kaewlert W, Sakonsinsiri C, **Lert-itthiporn W** , Ungarreevittaya P, Pairojkul C, Pinlaor S, Murata M and Thanan R. Int. J. Mol. Sci. 2023, 24, 2428.
16. Emerging roles of GALNT5 on promoting EGFR activation in cholangiocarcinoma: a mechanistic insight. Detarya M, **Lert-itthiporn W**, Mahalapbutr P, Klaewkla M, Sorin S, Sawanyawisuth K, Silsirivanit A, Seubwai W, Wongkham C, Araki N and Wongkham S. Am J Cancer Res. 2022; 12(9): 4140–4159.
17. Monosodium glutamate consumption reduces the renal excretion of trimethylamine N-oxide and the abundance of Akkermansia muciniphila in the gut. Thin Su K, Sukmak M, Nahok K, Sharma A, Silsirivanit A, **Lert-itthiporn W**, Sansurin N, Senthong V, Anutrakulchai S, Sangkhamanon S, Pinlaor S, Selmi C, Hammock B D, Cha'on U. Biochem Biophys Res Commun. 2022 Nov 19;630:158-166.
18. Serum Angiopoietin-Like Protein 4: A Potential Prognostic Biomarker for Prediction of Vascular Invasion and Lymph Node Metastasis in Cholangiocarcinoma Patients. May Aung T, Ngaih Ciin M, Silsirivanit A, Jusakul A, **Lert-itthiporn W**, Proungvitaya T, Roytrakul S and Proungvitaya S. Frontiers in Public Health, 2022, 10,836985
19. Homophilic interaction of cd147 promotes il-6-mediated cholangiocarcinoma invasion via the nf- κ B-dependent pathway. Dana P, Kariya R, **Lert-itthiporn W**, Seubwai W, Saisomboon S, Wongkham C, Okada S, Wongkham S, Vaeteewoottacharn K, Int. J. Mol. Sci. 2021, 22(24), 13496.
20. Diagnostic and prognostic value of circulating cell-free DNA for cholangiocarcinoma. Wintachai P, Quan Lim J, Techasen A, **Lert-itthiporn W**, Kongpetch S, Loilome W, Chindaprasirt J, Titapun A, Namwat N, Khuntikeo N, Jusakul A, Diagnostics (Basel). 2021 May 30;11(6):999.
21. FOXM1c is the predominant FOXM1 isoform expressed in cholangiocarcinoma that associated with metastatic potential and poor prognosis of patients. Klinhom-on N, Seubwai W, Sawanyawisuth K, **Lert-itthiporn W**, Warasawapati S, Detarya M, Wongkham S. Heliyon. 2021 Apr 22;7(4):e06846.
22. Bioinformatics analysis identified CDC20 as a potential drug target for cholangiocarcinoma. Sungwan P, **Lert-itthiporn W**, Silsirivanit A, Klinhom-on N, Seiji Okada S, Wongkham S, Seubwai W, PeerJ. 2021 Mar 17;9:e11067.
23. High Monopolar Spindle 1 Is Associated with Short Survival of Cholangiocarcinoma Patients and Enhances the Progression Via AKT and STAT3 Signaling Pathways. Prajumwongs, P. Phumphu, R. Waenphimai, O. **Lert-itthiporn, W.** Vaeteewoottacharn, K. Wongkham, S. Chamgramol, Y. Pairojkul, C. Sawanyawisuth, K. Biomedicines 2021, 9(1):68.
24. Association of Diabetes Mellitus and Cholangiocarcinoma: Update of Evidence and the Effects of Antidiabetic Medication. Saengboonmee, C., Seubwai, W., **Lert-itthiporn, W.**, Sanlung, T., Wongkham, S., Can J Diabetes. 2020 Sep 17;S1499-2671(20)30376-2.
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- Pongskul C, Panaput T, Chalermwat C, **Lert-itthiporn W**, Sharma A, Anutrakulchai S; CKDNET group. BMC Public Health. 2020 Aug 27;20(1):1299.
26. Functional and genetic characterization of three cell lines derived from a single tumor of an *Opisthorchis viverrini*-associated cholangiocarcinoma patient. Sripa B, Seubwai W, Vaeteewoottacharn K, Sawanyawisuth K, Silsirivanit A, Kaewkong W, Muisuk K, Dana P, Phoomak C, **Lert-itthiporn W**, Luvira V, Pairojkul C, Teh BT, Wongkham S, Okada S, Chamgramol Y. Hum Cell. 2020 Jul;33(3):695-708.
 27. Metastasis of cholangiocarcinoma is promoted by extended high-mannose glycans. Park DD, Phoomak C, Xu G, Olney LP, Tran KA, Park SS, Haigh NE, Luxardi G, **Lert-itthiporn W**, Shimoda M, Li Q, Matoba N, Fierro F, Wongkham S, Maverakis E, Lebrilla CB. Proc Natl Acad Sci U S A. 2020 Apr 7;117(14):7633-7644.
 28. Opposing roles of FoxA1 and FoxA3 in intrahepatic cholangiocarcinoma progression. Thanan R, Kaewlert W, Sakonsinsiri C, Chaiprasert T, Armartmuntree N, Muengsaen D, Techasen A, Klanrit P, **Lert-itthiporn W**, Pinlaor S, Pairojkul C. Int J Mol Sci. 2020 Mar 5;21(5):1796.
 29. Joint ancestry and association test indicate two distinct pathogenic pathways involved in classical dengue fever and dengue shock syndrome. Oliveira M, **Lert-itthiporn W**, Cavadas B, Fernandes V, Chuansumrit A, Anunciação O, Casademont I, Koeth F, Penova M, Tangnaratchakit K, Khor CC, Paul R, Malasit P, Matsuda F, Simon-Lorière E, Suriyaphol P, Pereira L, Sakuntabhai A. PLoS Negl Trop Dis. 2018 Feb 15;12(2):e0006202.
 30. Validation of genotype imputation in Southeast Asian populations and the effect of single nucleotide polymorphism annotation on imputation outcome. **Lert-itthiporn W**, Suktipat B, Grove H, Sakuntabhai A, Malasit P, Tangthawornchaikul N, Matsuda F, Suriyaphol P. BMC Med Genet. 2018 Feb 13;19(1):23.
 31. Characterising private and shared signatures of positive selection in 37 Asian populations. Liu X, Lu D, Saw WY, Shaw PJ, Wangkumhang P, Ngamphiw C, Fucharoen S, **Lert-itthiporn W**, Chin-Inmanu K, Chau TN, Anders K, Kasturiratne A, de Silva HJ, Katsuya T, Kimura R, Nabika T, Ohkubo T, Tabara Y, Takeuchi F, Yamamoto K, Yokota M, Mamatyusupu D, Yang W, Chung YJ, Jin L, Hoh BP, Wickremasinghe AR, Ong RH, Khor CC, Dunstan SJ, Simmons C, Tongsimma S, Suriyaphol P, Kato N, Xu S, Teo YY. Eur J Hum Genet. 2017 Apr;25(4):499-508.
 32. High anti-dengue virus activity of the OAS gene family is associated with increased severity of dengue. Simon-Lorière E, Lin RJ, Kalayanaroj SM, Chuansumrit A, Casademont I, Lin SY, Yu HP, **Lert-itthiporn W**, Chaiyaratana W, Tangthawornchaikul N, Tangnaratchakit K, Vasanawathana S, Chang BL, Suriyaphol P, Yoksan S, Malasit P, Despres P, Paul R, Lin YL, Sakuntabhai A. J Infect Dis. 2015 Dec 15;212(12):2011-20.

National publication

1. Plasma amino acid profiles by using ion-exchange chromatography in neonates from northeastern Thailand. Traitipudomchai A., Tangrassameeprasert R., Jandaeng A., Vaeteewoottacharn K., Wichajarn K., Rianpairoj T., Saengnipanthkul S., Imtawil K., Rattanathongkom A., Sornkayasit K., and **Lert-itthiporn W**. J Pediatr Assoc Thai. 2025;64(1):1–15.

Book chapter

1. Multiomics Approaches for the Identification of Biomarkers and Therapeutic Targets in Cholangiocarcinoma. **Lert-itthiporn W**. Bile Duct Cancer Treatment and Research - Latest Developments. IntechOpen; 2025. p. 1-32.