

Curriculum vitae
(Prof.Somchai Pinlaor)



Principal investigator

1. **Name:** Mr. Somchai Pinlaor
 2. **Affiliation:** Department of Parasitology, Faculty of Medicine,
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3. **Title:** Professor

4. Education:

Year of graduate	Degree	Subject	Faculty	Institute	Country
1989	BSc	Medical technology	Associate Medical Science	Khon Kaen University	Thailand
1996	MSc	Tropical Medicine	Tropical Medicine	Mahidol University	Thailand
2004	PhD	Medical Biochemistry	Medicine	Khon Kaen University	Thailand

5. Training:

- Molecular biology technique, Sept-October, 1999 (Kuala Lumpur, Malaysia)
- Molecular of cholangiocarcinoma, October-December, 2004; Feb-Mar, 2006 (Mie, Japan)

6. **Specialist:** Parasitology, Liver fluke infection and cholangiocarcinoma, Inflammation and cancer, Molecular Carcinogenesis, Oxidative/nitrative stress, Free radical and chemoprevention, Immunopharmacology, Immunopathology caused by parasite infection, Host-parasite interaction, Fibrogenesis / Fibrolysis, Proteomics in parasitic disease

7. List of Publications = 108, H-index = 30; Citation = 3,262

* Correspondence, listed 5 years

1. **Somchai Pinlaor***, Chanakan Jantawong, Kitti Intuyod, Thirawat Sirjindalert, Porntip Pinlaor, Chawalit Pairojkul, Lakhanawan Charoensuk, Chutima Sitthirach, Kulthida Vaeteewoottacharn, Ploenthip Puthongking, Aroonsri Priprem., 2021. Solid dispersion improves release of curcumin from nanoparticles: Potential benefit for intestinal absorption. *Materials Today Communications* 26, 101999.

2. Onsurathum, S., Kailemia, M.J., Intuyod, K., Haonon, O., Pairojkul, C., Thanan, R., Pinlaor, P., Lebrilla, C.B*., **Pinlaor, S***, 2021. N-glycosylation profiling of serum immunoglobulin in opisthorchiasis patients. *J Proteomics* 230, 103980.
3. Intuyod, K., Chomwong, S., Thongpon, P., Vaeteewoottacharn, K., Pairojkul, C., Pinlaor, P., **Pinlaor, S***, 2020. Expression of FOXO4 Inhibits Cholangiocarcinoma Cell Proliferation In Vitro via Induction of G0/G1 Arrest. *Anticancer Res* 40, 6899-6905.
4. Sengthong, C., Yingklang, M., Intuyod, K., Hongsrichan, N., **Pinlaor, S***, 2020. An optimized agar plate culture improves diagnostic efficiency for *Strongyloides stercoralis* infection in an endemic community. *Parasitol Res* 119, 1409-1413.
5. Pongking, T., Haonon, O., Dangtakot, R., Onsurathum, S., Jusakul, A., Intuyod, K., Sangka, A., Anutrakulchai, S., Cha'on, U., **Pinlaor, S.**, Pinlaor, P., 2020. A combination of monosodium glutamate and high-fat and high-fructose diets increases the risk of kidney injury, gut dysbiosis and host-microbial co-metabolism. *PLoS One* 15, e0231237.
6. Thanan, R., Kaewlert, W., Sakonsinsiri, C., Chaiprasert, T., Armarmuntree, N., Muengsaen, D., Techasen, A., Klanrit, P., Lert-Itthiporn, W., **Pinlaor, S.**, Pairojkul, C., 2020. Opposing Roles of FoxA1 and FoxA3 in Intrahepatic Cholangiocarcinoma Progression. *Int J Mol Sci* 21.
7. Yangngam, S., Thongchot, S., Pongpaibul, A., Vaeteewoottacharn, K., **Pinlaor, S.**, Thuwajit, P., Okada, S., Hermoso, M.A., Thuwajit, C., 2020. High level of interleukin-33 in cancer cells and cancer-associated fibroblasts correlates with good prognosis and suppressed migration in cholangiocarcinoma. *J Cancer* 11, 6571-6581.
8. Kaewrat, W., Sengthong, C., Yingklang, M., Intuyod, K., Haonon, O., Onsurathum, S., Dangtakot, R., Saisud, P., Sangka, A., Anutrakulchai, S., **Pinlaor, S.**, Cha'on, U., Pinlaor, P., 2020. Improved agar plate culture conditions for diagnosis of *Strongyloides stercoralis*. *Acta Trop* 203, 105291.
9. Tran, N.T.D., Ton Nu, P.A., Intuyod, K., Dao, L.T.K., Pinlaor, P., Nawa, Y., Choowongkamon, K., Geadkaew-Krenc, A., Kosa, N., Grams, R., **Pinlaor, S***, 2019. Evaluation of a Commercial Enzyme-Linked Immunosorbent Assay Kit and In-House *Fasciola gigantica* Cysteine Proteinases-Based Enzyme-Linked Immunosorbent Assays for Diagnosis of Human Fascioliasis. *Am J Trop Med Hyg* 100, 591-598.
10. Wangboon, C., Worasith, C., Thanan, R., Eamudomkarn, C., Techasen, A., Sithithaworn, J., Loilome, W., Chamadol, N., **Pinlaor, S.**, Jumnainsong, A., Yongvanit, P., Khuntikeo, N., Bethony, J.M., Sithithaworn, P., 2019. Evaluation of a short term effect of praziquantel treatment in opisthorchiasis-induced hepatobiliary inflammation by urinary 8-oxodG. *Acta Trop* 189, 124-128.
11. Chaiprasert, T., Armarmuntree, N., Techasen, A., Sakonsinsiri, C., **Pinlaor, S.**, Ungarreevittaya, P., Khuntikeo, N., Namwat, N., Thanan, R., 2019. Roles of Zinc Finger Protein 423 in Proliferation and Invasion of Cholangiocarcinoma through Oxidative Stress. *Biomolecules* 9.

12. Chaidee, A., Onsurathum, S., Intuyod, K., Haonon, O., Pannangpetch, P., Pongchaiyakul, C., Pinlaor, P., Pairojkul, C., Welbat, J.U., Ittiprasert, W., Cochran, C.J., Mann, V.H., Brindley, P.J., **Pinlaor, S***, 2019. Opisthorchis viverrini Infection Augments the Severity of Nonalcoholic Fatty Liver Disease in High-Fat/High-Fructose Diet-Fed Hamsters. *Am J Trop Med Hyg* 101, 1161-1169.
13. Intuyod, K., Armartmuntree, N., Jusakul, A., Sakonsinsiri, C., Thanan, R., **Pinlaor, S***, 2019a. Current omics-based biomarkers for cholangiocarcinoma. *Expert Rev Mol Diagn* 19, 997-1005.
14. Intuyod, K., Hahnvajanawong, C., Pinlaor, P., **Pinlaor, S***, 2019b. Anti-parasitic Drug Ivermectin Exhibits Potent Anticancer Activity Against Gemcitabine-resistant Cholangiocarcinoma In Vitro. *Anticancer Res* 39, 4837-4843.
15. Charoensuk, L., Subrungruang, I., Mungthin, M., **Pinlaor, S.**, Suwannahitatorn, P., 2019. Comparison of stool examination techniques to detect Opisthorchis viverrini in low intensity infection. *Acta Trop* 191, 13-16.
16. Intuyod, K., Priprem, A., Pairojkul, C., Hahnvajanawong, C., Vaeteewoottacharn, K., Pinlaor, P., **Pinlaor, S***, 2018a. Anthocyanin complex exerts anti-cholangiocarcinoma activities and improves the efficacy of drug treatment in a gemcitabine-resistant cell line. *Int J Oncol* 52, 1715-1726.
17. Armartmuntree, N., Murata, M., Techasen, A., Yongvanit, P., Loilome, W., Namwat, N., Pairojkul, C., Sakonsinsiri, C., **Pinlaor, S.**, Thanan, R., 2018. Prolonged oxidative stress down-regulates Early B cell factor 1 with inhibition of its tumor suppressive function against cholangiocarcinoma genesis. *Redox Biol* 14, 637-644.
18. Chaidee, A., Onsurathum, S., Intuyod, K., Pannangpetch, P., Pongchaiyakul, C., Pinlaor, P., Pairojkul, C., Ittiprasert, W., Cochran, C.J., Mann, V.H., Brindley, P.J., **Pinlaor, S***, 2018. Co-occurrence of opisthorchiasis and diabetes exacerbates morbidity of the hepatobiliary tract disease. *PLoS Negl Trop Dis* 12, e0006611.
19. Suwannakul, N., Ma, N., Thanan, R., **Pinlaor, S.**, Ungarreevittaya, P., Midorikawa, K., Hiraku, Y., Oikawa, S., Kawanishi, S., Murata, M., 2018. Overexpression of CD44 Variant 9: A Novel Cancer Stem Cell Marker in Human Cholangiocarcinoma in Relation to Inflammation. *Mediators Inflamm* 2018, 4867234.
20. Intuyod, K., Saavedra-Garcia, P., Zona, S., Lai, C.F., Jiramongkol, Y., Vaeteewoottacharn, K., Pairojkul, C., Yao, S., Yong, J.S., Trakansuebkul, S., Warasawapati, S., Luvira, V., Wongkham, S., **Pinlaor, S.***, Lam, E.W*, 2018b. FOXM1 modulates 5-fluorouracil sensitivity in cholangiocarcinoma through thymidylate synthase (TYMS): implications of FOXM1-TYMS axis uncoupling in 5-FU resistance. *Cell Death Dis* 9, 1185.
21. Wongsena, W., Charoensuk, L., Dangtakot, R., Pinlaor, P., Intuyod, K., **Pinlaor, S***, 2018. Melatonin suppresses eosinophils and Th17 cells in hamsters treated with a combination of human liver fluke infection and a chemical carcinogen. *Pharmacol Rep* 70, 98-105.
22. Yingklang, M., Sengthong, C., Haonon, O., Dangtakot, R., Pinlaor, P., Sota, C., **Pinlaor, S***, 2018. Effect of a health education program on reduction of pediculosis in school girls at Amphoe Muang, Khon Kaen Province, Thailand. *PLoS One* 13, e0198599.

23. Saentaweek, W., Silsirivanit, A., Vaeteewoottacharn, K., Sawanyawisuth, K., Pairojku, C., Cha'on, U., Indramanee, S., **Pinlaor, S.**, Boonmars, T., Araki, N., Wongkham, C., 2018. Clinical significance of GalNAcylated glycans in cholangiocarcinoma: Values for diagnosis and prognosis. *Clin Chim Acta* 477, 66-71.
24. Onsurathum, S., Haonon, O., Pinlaor, P., Pairojku, C., Khuntikeo, N., Thanan, R., Roytrakul, S., **Pinlaor, S***, 2018. Proteomics detection of S100A6 in tumor tissue interstitial fluid and evaluation of its potential as a biomarker of cholangiocarcinoma. *Tumour Biol* 40, 1010428318767195.
25. Khoontawad, J., Intuyod, K., Rucksaken, R., Hongsrichan, N., Pairojku, C., Pinlaor, P., Boonmars, T., Wongkham, C., Jones, A., Plieskatt, J., Potriquet, J., Bethony, J.M., Mulvenna, J., **Pinlaor, S***, 2018. Discovering proteins for chemoprevention and chemotherapy by curcumin in liver fluke infection-induced bile duct cancer. *PLoS One* 13, e0207405.
26. Khoontawad, J., Pairojku, C., Rucksaken, R., Pinlaor, P., Wongkham, C., Yongvanit, P., Pugkhem, A., Jones, A., Plieskatt, J., Potriquet, J., Bethony, J., **Pinlaor, S***, Mulvenna, J.*, 2017. Differential Protein Expression Marks the Transition From Infection With *Opisthorchis viverrini* to Cholangiocarcinoma. *Mol Cell Proteomics* 16, 911-923.
27. Rucksaken, R., Charoensuk, L., Pinlaor, P., Pairojku, C., Khuntikeo, N., **Pinlaor, S***, 2017. Plasma orosomucoid 2 as a potential risk marker of cholangiocarcinoma. *Cancer Biomark* 18, 27-34.
28. Dangtakot, R., **Pinlaor, S.**, Itthitaetrakool, U., Chaidee, A., Chomvarin, C., Sangka, A., Wilailuckana, C., Pinlaor, P., 2017. Coinfection with *Helicobacter pylori* and *Opisthorchis viverrini* Enhances the Severity of Hepatobiliary Abnormalities in Hamsters. *Infect Immun* 85.
29. Charoensuk, L., Pinlaor, P., Wanichwecharungruang, S., Intuyod, K., Vaeteewoottacharn, K., Chaidee, A., Yongvanit, P., Pairojku, C., Suwannateep, N., **Pinlaor, S***, 2016. Nanoencapsulated curcumin and praziquantel treatment reduces periductal fibrosis and attenuates bile canalicular abnormalities in *Opisthorchis viverrini*-infected hamsters. *Nanomedicine* 12, 21-32.
30. Haonon, O., Rucksaken, R., Pinlaor, P., Pairojku, C., Chamgramol, Y., Intuyod, K., Onsurathum, S., Khuntikeo, N., **Pinlaor, S***, 2016. Upregulation of 14-3-3 eta in chronic liver fluke infection is a potential diagnostic marker of cholangiocarcinoma. *Proteomics Clin Appl* 10, 248-256.
31. Itthitaetrakool, U., Pinlaor, P., **Pinlaor, S.**, Chomvarin, C., Dangtakot, R., Chaidee, A., Wilailuckana, C., Sangka, A., Lulitanond, A., Yongvanit, P., 2016. Chronic *Opisthorchis viverrini* Infection Changes the Liver Microbiome and Promotes *Helicobacter* Growth. *PLoS One* 11, e0165798.
32. Onsurathum, S., Pinlaor, P., Haonon, O., Chaidee, A., Charoensuk, L., Intuyod, K., Boonmars, T., Laummaunwai, P., **Pinlaor, S***, 2016. Effects of fermentation time and low temperature during the production process of Thai pickled fish (pla-som) on the viability and infectivity of *Opisthorchis viverrini* metacercariae. *Int J Food Microbiol* 218, 1-5.

33. Onsurathum S, Pinlaor P, Charoensuk L, Haonon O, Chaidee A, Intuyod K, Laummaunwai P, Boonmars T, Kaewkes W, **Pinlaor, S***, 2016. Contamination of *Opisthorchis viverrini* and *Haplorchis taichui* metacercariae in fermented fish products in northeastern Thailand markets. *Food Control* 59,493–8.

Awards

2020 Alumni Graduate School Award (In Research), Khon Kaen, University Thailand
2019 Alumni Faculty of Medical Technology Award (In Research), Khon Kaen, University Thailand
2017 The Researcher Awards (diamond prize), Khon Kaen University, Thailand
2015 The Researcher Awards (gold prize), Khon Kaen University, Thailand
2011 The Outstanding Researcher Award in Pre-clinic of Faculty Medicine, Khon Kaen University, Thailand
2010 The National Research Council Award of Thailand Research Award in Biomedicine
2010 TRF-CHE-Scopus Young Researcher Award from TRF-CHE-Elsevier

Members:

2014 Member Biochemical Society, UK
2010 Member American Society for Microbiology, USA
2008 Member The Royal Society of Chemistry, UK
2007 Member Protein Society Thailand
2000 Member Parasitology and Tropical Medicine, Thailand

International peer reviewed Journals: more than 53 International Journals, i.e., PLOS Medicine, PLOS NTD, PLOS ONE, International Journal for Parasitology, Parasitology, Am J Trop Med & Hygiene, Parasites & Vectors, Parasitology International, Experimental Parasitology, Acta Tropica, Cancer Prevention Research, European Journal of Pharmacology, Journal of Pharmacy and Pharmacology, Journal of Functional Foods, Cell Death & Disease, Oncotarget, Expert Review of Anticancer Therapy.,

Editor/editorial board members of international journals

Editor board member of International Immunology Research

Editorial board member of World Journal of Hepatology (World J Hepatol, WJH, eISSN 1948-5182, DOI: 10.4254) 2009 - 2015

Editorial board member of World Journal of translational Medicine 2011-

Editorial board member of World Journal of Gastroenterology, 2014-2017

Editorial board member of the journal ISRN Hepatology, 2013-

Academic board member of the journal International Molecular Oncology

Expertise: Parasitology, Liver fluke infection and cholangiocarcinoma, Inflammation and cancer, Molecular carcinogenesis, Oxidative/nitrative stress, Phytomedicine, Proteomics of parasitic diseases, Parasite infection and kidney diseases

Patent/prettly patent

สิทธิบัตร/อนุสิทธิบัตร	ชื่อที่แสดงถึงการประดิษฐ์	ชื่อผู้ประดิษฐ์	ผู้ขอจดสิทธิบัตร/ประเทศ
เลขที่คำขอ 1503001167 เลขที่อนุสิทธิบัตร 11150	ผลิตภัณฑ์อนุภาคนาโนเคอร์คูมิน	ศ. ดร. สมชาย ปิ่นละออ และคณะ	ไทย (มหาวิทยาลัยขอนแก่น)
เลขที่คำขอ : 1401006570	ผลิตภัณฑ์เสริมสุขภาพเพื่อป้องกันระบบท่อน้ำดีอักเสบจากพยาธิใบไม้ตับที่มีสารสกัดซึ่งข้าวโพดม่วงเป็นส่วนประกอบ	รองศาสตราจารย์อรุณศรี ปรีเปรม, รองศาสตราจารย์สมชาย ปิ่นละออ, รองศาสตราจารย์กมล เลิศรัตน์, นางสาวสุชาร์ตน์ ลิมสิทธิชัยกุล	มหาวิทยาลัยขอนแก่น , สำนักงานพัฒนาการวิจัย การเกษตร (องค์การมหาชน)