



Prof. Sung-Jong HONG

Professor

Chung-Ang University, Korea

ACADEMIC QUALIFICATIONS

1975 - 1979: College of Veterinary Medicine, Seoul National University, DVM.

1982 - 1988: Dept of Medicine, Graduate School, Seoul National University, Ph.D.

1990 - 1992: Post-doctoral fellow, State University of NY at Buffalo, NY, USA

2002 - 2006: Research associate prof, State University of NY at Buffalo, NY, USA

MAIN RESEARCH INTEREST

- Functional genomics and immunodiagnostics of clonorchiasis
- Chemotactic behaviors of *Clonorchis sinensis*

AWARDS

- Academic Award, 2000, Korean Society for Parasitology.
- Distinguished Research Award in Health Sciences, 2007, Chung-Ang University, Korea.

KEY PUBLICATIONS (2011-2017)

1. Yoo WG, Kim DW, Ju JW, Cho PY, Kim TI, Cho SH, Choi SH, Park HS, Kim TS, **Hong SJ** (2011) Developmental transcriptomic features of the carcinogenic liver fluke, *Clonorchis sinensis*. PLoS Neg Trop Dis 5(6): e1208.
2. Kim TI, Yoo WG, Kwak BS, Seok JW, **Hong SJ** (2011) Tracing of the bile-chemotactic migration of juvenile *Clonorchis sinensis* in rabbits by PET-CT. PLoS Neg Trop Dis 5(12): e1414.
3. Xiao JY, Lee JY, Tokuhiko S, Nagatagi M, Jarilla BR, Nomura H, Kim TI, **Hong SJ**, Agatsuma T (2013) Molecular cloning and characterization of taurocyamine kinase from *Clonorchis sinensis*. A candidate chemotherapeutic target. PLoS Neg Trop Dis 7(11): e2548.
4. Bai X, Lee JY, Kim TI, Dai F, Lee TJ, **Hong SJ** (2014) Molecular cloning and characterization of growth factor receptor bound-protein in *Clonorchis sinensis*. PLoS ONE 9(1): e85577.
5. Dai F, Yoo WG, Lee JY, Lu YY, Pak JH, Sohn WM, Hong SJ (2017) Multidrug resistance-associated protein 4 is a bile transporter of *Clonorchis sinensis* simulated by in silico docking. Parasites & Vectors 10: 578.
6. Lu Y, Yoo WG, Dai F, Lee JY, Pak JH, Sohn WM, **Hong SJ** (2018) Characterization of a novel organic solute transporter homologue from *Clonorchis sinensis*. PLoS Neg Trop Dis 12(4): e0006459.

Major publications (2009-2010)

1. **Hong SJ**, Seong KY, Sohn WM, Song KY. (2000) Molecular cloning and immunological characterization of phosphoglycerate kinase from *Clonorchis sinensis*. Mol Biochem Parasitol 108: 207-216.
2. **Hong SJ**, Lee JY, Lee DH, Sohn WM, Cho SY. (2001) Molecular cloning and characterization of a mu-class glutathione S-transferase from *Clonorchis sinensis*. Mol Biochem Parasitol. 115: 69-75.
3. Kim TY, Joo IJ, Kang SY, Cho SY, Kong Y, Sukontason K, Sukontason K, **Hong SJ**. (2002) Recombinant *Paragonimus westermani* yolk ferritin is a useful serodiagnostic antigen. J Inf Dis 185: 1373-1375.
4. Lee JY, Cho PY, Kim TY, Kang SY, Song KY, **Hong SJ** (2002) Hemolytic activity and developmental expression of pore-forming peptide, clonorin. Bioch Biophys Res Comm 296: 1238-1244.
5. Park JB, Son JS, Lee GS, Cho PY, Song KS, Ryu PD, Kang SY, **Hong SJ** (2005) Molecular and electrophysiological characterization of nucleotide sensitive chloride current-inducing protein of *Fasciola hepatica*. Mol Biochem Parasitol 140:197-203.
6. Cho PY, Lee MJ, Kim TI, Kang SY, **Hong SJ** (2006) Expressed sequence tag analysis of adult *Clonorchis sinensis*, the Chinese liver fluke. Parasitol Res 99: 602-608.
7. Tang Y, Cho PY, Kim TI, **Hong SJ** (2006) Molecular cloning, enzymatic activity and localization of *Clonorchis sinensis* yolk ferritin. J Parasitol 92: 1275-1280.
8. Kim TI, Cho PY, Li Shunyu, Hong S-T, Choi M-H, **Hong SJ** (2007) Partner proteins that interact with *Clonorchis sinensis* WD-40-repeat protein. Parasitol Res 101: 1601-6.
9. Li S, Kim TI, Yoo WG, Cho PY, Kim TS, **Hong SJ** (2008) Bile components and amino acids affect survival of the newly excysted juvenile *Clonorchis sinensis* in maintaining media. Parasitolo Res 103: 1019-1024.
10. Yoo WG, Kim TI, Cho PY, Li S, Kwon OS, Cho PY, Kim TS, Kim K, **Hong SJ** (2009) Reference genes for quantitative analysis on *Clonorchis sinensis* gene expression by real-time PCR. Parasitolo Res 104: 321-328.



Prof. Paiboon Sithithaworn

Professor

Khon Kaen University, Thailand

A. Personal Statement

Having worked in Khon Kaen University in northeast Thailand which is the epicenter of opisthorchiasis and

cholangiocarcinoma for more than 25 years, my research field covers a range of topics from population genetics of the liver fluke,

molecular diagnosis of opisthorchiasis and epidemiology of the hepatobiliary disease and cholangiocarcinoma (CCA). My research

in this neglected parasitic disease and associated cancer being conducted is done through domestic and international collaboration.

In addition to research, my duty is teaching in Parasitology and related subjects for undergraduate and post graduate courses in the

Medical and various Faculties in Khon Kaen Univerisy.

B. Positions and honors

Honors and awards

1995 Visiting Research Fellows at Institute of Tropical Medicine, Nagasaki University, Japan

1999-2012 Technical advisor for FAO on Food borne Trematode

1990-present Reviewed manuscripts for Parasitology, Acta Tropica, Korean Journal of Parasitology, Transaction, PlosNTD etc

1985-present Member of Parasitology and Tropical Medicine Association of Thailand

2005-present Member of Haematological Society of Thailand

2012 Diamond Research Scholar, Khon Kaen University

D. Book Chapter

1. Paiboon Sithithaworn, Puangrat Yongvanit, Smarn Tesana and Chawalit Pairojkul (2007). Liver Flukes in Fish- and Invertebrate-Borne

Parasites Murrell KD & Fried B (ed) Springer Verlag, p3-52.

2. Paiboon Sithithaworn, Banchob Sripa, Sasithorn Keawkes, Melissa Haswell-Elkins (2008) Chapter 83 : Food borne Trematodes In MANSON'S

TROPICAL DISEASES, TWENTY-SECOND EDITION edited by Professor Gordon Cook and Pro

fessor Alimuddin Zumla, SAUNDERS,

Elsevier p1461-1476.

3. Paiboon Sithithaworn, Thewarach Laha and Ross H Andrews (2009) opisthorchiasis in

MOELCUALR DETECTION OF FOODBORNE

PATHOGENS Edited by Dongyou Liu, Taylor & Francis Group p813-826

E. Peer-reviewed publications (from a total of 186 in PubMed)

1. Petney TN, Sithithaworn P, Andrews RH, Webster JP. Foodborne trematodes: a diverse and challenging group of neglected parasites. *Trans*

R Soc Trop Med Hyg. 2016;110(1):1-3. Epub 2016/01/08.

2. Kopolrat K, Sithithaworn P, Kiatsopit N, Pitaksakulrat O, Tesana S, Andrews RH, Petney TN.

Comparison of infectivity, metacercarial burden

and host mortality induced by *Opisthorchis viverrini* sensu lato cercariae from Lao PDR compared with Thailand in cyprinid fish, *Barbonymus*

gonionotus. *Trans R Soc Trop Med Hyg.* 2016;110(1):46-54. Epub 2016/01/08.

3. Worasith C, Kamamia C, Yakovleva A, Duengngai K, Wangboon C, Sithithaworn J, Watwiengkam N, Namwat N, Techasen A, Loilome W,

Yongvanit P, Loukas A, Sithithaworn P, Bethony JM. Advances in the Diagnosis of Human

Opisthorchiasis: Development of *Opisthorchis viverrini*

Antigen Detection in Urine. *PLoS Negl Trop Dis.* 2015;9(10):e0004157. Epub 2015/10/21.

4. Wang YC, Ho RC, Feng CC, Namsanor J, Sithithaworn P. An ecological study of *Bithynia* snails, the first intermediate host of *Opisthorchis*

viverrini in northeast Thailand. *Acta Trop.* 2015;141(Pt B):244-52. Epub 2014/02/25.

5. Sithithaworn P, Petney TN, Andrews RH. What significance do helminths species-complexes have for the prevention, diagnosis and treatment

of human infections? *Trans R Soc Trop Med Hyg.* 2015;109(5):289-90. Epub 2015/04/19.