

Thiyaphat Laohawetwanit, MD



Personal details:

Date of birth May 26th, 1993
Nationality Thai
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Education:

Jan – Jun 2024 Giordano fellowship (Liver pathology), Anatomic Pathology Unit, Humanitas Research University Hospital, Milan, Italy
2021 Digital Pathology Certificate, National Society for Histotechnology (USA)
2019 Diplomateship of the Royal College of Pathologists (UK)
May 2019 Visiting scholar in pulmonary pathology, digital pathology and artificial intelligence at Department of Pathology, Nagasaki University Hospital, Nagasaki, Japan
Sep 2018 Visiting scholar in hepatobiliary pathology at Department of Pathology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore
2016 – 2019 Higher Graduate Diploma of Clinical Sciences Program in Anatomic Pathology, Department of Pathology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
2010 – 2016 Doctor of Medicine (M.D.) (First Class Honor), Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

Work experience:

May 2023 – present Associate professor in pathology, Chulabhorn International College of Medicine, Thammasat University, Pathumthani, Thailand
Apr 2021 – May 2023 Assistant professor in pathology, Chulabhorn International College of Medicine, Thammasat University, Pathumthani, Thailand
Jan 2020 – present Member of the executive committee, Doctor of Medicine (English Program) and Doctor of Dental Surgery (Bilingual Program), Chulabhorn International College of Medicine, Thammasat University, Pathumthani, Thailand
Jan 2020 – present Consultant pathologist, National Healthcare Systems Company Limited (N Health)
Nov 2019 – present Member of the executive committee, International Academy of Pathology, Thailand Division (IAP-Thailand)
Aug 2019 – present Consultant pathologist, Division of Pathology, Thammasat University Hospital
Aug 2019 – Apr 2021 Lecturer, Chulabhorn International College of Medicine, Thammasat University, Pathumthani, Thailand

Language: Thai (Native), English (Fluent)

Areas of interest: Hepatobiliary pathology, gastrointestinal pathology, digital pathology, generative artificial intelligence, pathology education

Publications:

1. **Laohawetwanit T**, Boonkasem W, Thongsawang B, Chankate P, Kaileaw W, Shuangshoti S, Teerapakpinyo C. Increasing demand for MSI testing and prevalence of MSI-H cancers in Thai patients: Experience at Chulalongkorn GenePro Center. *BKK Med J* 2018; 14(2): 1-5. <http://doi.org/10.31524/bkkmedj.2018.09.001>
2. **Laohawetwanit T**, Chantranuwatana P, Ongcharit P. Heart transplant for multiple recurrences of familial cardiac myxomas in an adolescent patient: A case report and literature review. *Asian Arch Path* 2019; 2: 34-44.
3. **Laohawetwanit T**, Tanaka K, Zaizen Y, Tabata K, Ando K, Ishimoto H, Mukae H, Miyazaki Y, Bychkov A, Fukuoka J. A case report of pulmonary amyloidosis recognized by detection of AA amyloid exclusively in alveolar macrophages. *Respir Med Case Rep* 2020; 30: 101046. <https://doi.org/10.1016/j.rmcr.2020.101046>
4. **Laohawetwanit T**. The use of virtual pathology in teaching medical students: First experience of a medical school in Thailand. *MedEdPublish* 2020; 9(1): 116. <https://doi.org/10.15694/mep.2020.000116.1>
5. **Laohawetwanit T**, Klaikaew N. Pathological aspects of mucinous cholangiocarcinoma: A single-center experience and systematic review. *Pathol Int.* 2020 Sep; 70(9): 661-70. <https://doi.org/10.1111/pin.12983>
6. **Laohawetwanit T**. Preclinical medical student perspectives on nonforensic autopsy presentations as instruments for understanding basic medical sciences: A small-scale study at an international college of medicine in Thailand. *J Med Assoc Thai* 2021; 104(3): 453-9. <http://doi.org/10.35755/jmedassocthai.2021.03.11907>
7. **Laohawetwanit T**, Lerttanatum N, Wanpiyarat N, Manasilp N, Chaiparnich S. Combined hepatocellular-cholangiocarcinoma and its mimickers: Diagnostic pitfalls in surgical pathology. *Ann Diagn Pathol.* 2021; 53: 151770. <https://doi.org/10.1016/j.anndiagpath.2021.151770>
8. Kantasiripitak C, **Laohawetwanit T**. Embracing online virtual microscopy and web conferencing for pathology residents in Thailand: A paradigm shift in pathology education in the midst of COVID-19 pandemic. *AMJAM.* 2021 Aug; 21(2): 145–50.
9. **Laohawetwanit T**, Hareerak T, Thamwongskul C, Boon-Ing N. Extramucosal anal canal adenocarcinoma, non-anal gland type, and non-fistula-associated with mucinous appearance: A recently described diagnostic entity. *Pathol Int.* 2021;71(10):715-8. <https://doi.org/10.1111/pin.13146>
10. **Laohawetwanit T**. Online pathology education for medical students: Lessons learned during COVID-19 lockdown in central Thailand. *AMJAM.* 2022 Jan; 22(1): 64-9.
11. Surapatpichai M, Taedomkul S, Jiragawasan C, **Laohawetwanit T**. Cytomegalovirus colitis in an immunocompromised patient presenting with massive lower gastrointestinal bleeding. *IDCases.* 2022;28:e01500. <https://doi.org/10.1016/j.idcr.2022.e01500>
12. **Laohawetwanit T**, Apornvirat S, Wanpiyarat N, Lerttanatum N. Interpretation pitfalls in immunohistochemistry of primary liver carcinoma: A retrospective analysis of liver biopsy specimens. *J Med Assoc Thai* 2022; 105(5): 450-6. <http://doi.org/10.35755/jmedassocthai.2022.05.12421>
13. **Laohawetwanit T**, Wanpiyarat N, Lerttanatum N. Useful histopathologic features for diagnosing focal liver lesions with spindle cell morphology: A clinicopathologic study. *Ann Diagn Pathol.* 2022;59:151975. <https://doi.org/10.1016/j.anndiagpath.2022.151975>
14. Kantasiripitak C, **Laohawetwanit T**, Apornvirat S, Niemnapa K. Validation of whole slide imaging for frozen section diagnosis of lymph node metastasis: A retrospective study from a tertiary care hospital in Thailand. *Ann Diagn Pathol.* 2022;60:151987. <https://doi.org/10.1016/j.anndiagpath.2022.151987>
15. Swatesutipun V, Tangpaitoon T, Tangkaew N, Chawong S, **Laohawetwanit T**. IgG4-related ureteral stricture. *Urology.* 2022;168:e18-e20. <https://doi.org/10.1016/j.urology.2022.07.026>

16. **Laohawetwanit T**, Kunjantarachot A, Apornvirat S. The role of online virtual microscopy in improving medical students' performance and preference in pathology: Experience from a medical school in Thailand. *AMJAM*. 2023;23(1):69-74.
17. Taudomkul S, Surapatpichai M, Kantasiripitak C, **Laohawetwanit T**. Unusual morphologic features of small duct intrahepatic cholangiocarcinoma with ductal plate malformation. *AMJAM*. 2023;23(1):81-5.
18. **Laohawetwanit T**, Gonzalez RS, Bychkov A. Learning at a distance: Results of an international survey on the adoption of virtual conferences and whole slide imaging by pathologists. *J Clin Pathol*. 2023. <https://doi.org/10.1136/jcp-2023-208912>
19. **Laohawetwanit T**, Lerttanatum N, Wanpiyarat N. Prognostic value of tumor budding in hepatocellular carcinoma patients: A clinicopathologic study. *J Med Assoc Thai* 2024;107:39-46. <http://doi.org/10.35755/jmedassocthai.2024.1.13934>
20. **Laohawetwanit T**, Namboonlue C, Apornvirat S. Accuracy of GPT-4 in histopathological image detection and classification of colorectal adenomas. *J Clin Pathol*. 2024. <http://doi.org/10.1136/jcp-2023-209304>
21. **Laohawetwanit T**, Wanpiyarat N, Lerttanatum N, Apornvirat S, Kantasiripitak C, Atiroj N, et al. Histopathologic evaluation of gastric intestinal metaplasia in non-neoplastic biopsy specimens: Accuracy and interobserver reliability among general pathologists and pathology residents. *Ann Diagn Pathol*. 2024;70:152284. <http://doi.org/10.1016/j.anndiagpath.2024.152284>
22. Apornvirat S, Namboonlue C, **Laohawetwanit T**. Comparative analysis of ChatGPT and Bard in answering pathology examination questions requiring image interpretation. *Am J Clin Pathol*. 2024. <https://doi.org/10.1093/ajcp/aqae036>
23. **Laohawetwanit T**, Apornvirat S, Kantasiripitak C. ChatGPT as a teaching tool: Preparing pathology residents for board examination with AI-generated digestive system pathology tests. *Am J Clin Pathol*. 2024. <https://doi.org/10.1093/ajcp/aqae062>

Abstracts:

1. **Laohawetwanit T**, Klaikaew N. Undifferentiated embryonal sarcoma of the liver in an adult patient: A case report and literature review. *J Gastroenterol Hepatol*. 2019; 34 (Suppl 3): 100. <https://doi.org/10.1111/jgh.14879>
2. Bychkov A, **Laohawetwanit T**, Soontornsit S, Aphivatanasiri C, Koonmee S, Keelawat S. Global hypomethylation and histone deacetylation in aggressive types of thyroid carcinoma detected by immunohistochemistry and image analysis. *Mod Pathol*. 2020; 3 (Suppl 2): 568-9. <https://doi.org/10.1038/s41374-020-0385-8>
3. Lami K, Zaizen Y, Tabata K, Yoon HS, Hlaing AM, Pwint ZO, **Laohawetwanit T**, Uegami W, Otani K, Fukuoka J. Inter-observer variability of subtypes of lung adenocarcinomas: A pilot study. *Proc Jpn Soc Pathol*. 2020; 109(1): 298.
4. **Laohawetwanit T**. The efficacy of virtual microscopy in teaching practical pathology to medical students at an international college of medicine in Thailand: A comparison of pre-test and post-test scores with student satisfaction. *Virchows Archiv*. 2020; 477 (Suppl 1): S202. <https://doi.org/10.1007/s00428-020-02938-x>
5. **Laohawetwanit T**, Wanpiyarat N, Lerttanatum N. Hepatic space-occupying lesions masquerading as hepatobiliary tumours: A clinicopathologic study. *Virchows Archiv*. 2021; 479 (Suppl 1): S158. <https://doi.org/10.1007/s00428-021-03157-8>
6. **Laohawetwanit T**, Hareerak T, Thamwongskul C, Boon-Ing N. Extramucosal anal canal adenocarcinoma, non-anal gland type, and non-fistula-associated with mucinous appearance: A recently described diagnostic entity. *Virchows Archiv*. 2021; 479 (Suppl 1): S215. <https://doi.org/10.1007/s00428-021-03157-8>
7. **Laohawetwanit T**, Kunjantarachot A, Apornvirat S. The role of online virtual microscopy in improving medical students' understanding and performance in pathology: Experience from a medical school in Thailand. In: *Proceedings of the 19th meeting of the Japanese Society of Digital Pathology [conference proceedings on the Internet]; 2021 Aug 20-22; Online. Nagasaki:*

JSDP; 2021 [cited 2021 Aug 25]. p. 31. Available from: https://www.jsdp.ai/wp-content/uploads/2021/08/19th_JSDP_Abstract0816.pdf

8. **Laohawetwanit T**, Lerttanatum N, Wanpiyarat N. Prognostic value of tumour budding in hepatocellular carcinoma patients: A clinicopathologic study from a tertiary hospital in Thailand. *Histopathology*. 2022; 81 (Suppl 1): 130. <https://doi.org/10.1111/his.14750>
9. **Laohawetwanit T**, Bychkov A, Gonzalez R. Embracing virtual conferences and digital slides in pathology education: A global survey of pathologists. *Lab Invest*. 2023; 103(3, Suppl): S458-9. <https://doi.org/10.1016/j.labinv.2023.100086>

Textbook:

1. **Laohawetwanit T**, Apornvirat S, Kunjantarachot A. Atlas of digital pathology for health science students. Pathum Thani (Thailand): Thammasat University Press; 2022.

Presentations:

1. Combined hepatocellular-cholangiocarcinoma (9 November 2018). The 58th International Academy of Pathology (Thailand) Annual Meeting 2018. S31 Hotel, Bangkok, Thailand.
2. Interesting cases in hepatobiliary pathology (16 November 2019). Hepatobiliary pathology workshop and review. NHealth Academy of Pathology, Bangkok, Thailand.

Awards:

1. The most outstanding instructor award 2020 (voted by undergraduate students). Chulabhorn International College of Medicine, Thammasat University, Pathumthani, Thailand.
2. The outstanding young researcher award 2020. Thammasat University, Pathumthani, Thailand.
3. Second runner-up, excellence in research award 2020. Chulabhorn International College of Medicine, Thammasat University, Pathumthani, Thailand.
4. Runner-up, resident research competition award 2022 (senior author). Faculty of Medicine, Thammasat University, Pathumthani, Thailand.

Travel bursaries:

1. The 64th Autumn Annual Meeting of the Japanese Society of Pathology, 22nd-23rd November 2018, Kure, Hiroshima, Japan.
2. The Spring Scientific Meeting 2019, The International Academy of Pathology, Hong Kong Division, 27th-28th April 2019, Hong Kong.
3. The 11th Asia Pacific International Academy of Pathology Congress, 11th-14th November 2019. Hefei, China.
4. The Asia Pacific Digestive Week 2019, 12th-15th December 2019, Kolkata, India.
5. The 34th International Congress of the International Academy of Pathology, 11th-15th October 2022, Sydney, Australia.