

Assistant Professor ANUCHIT PHANUMARTWIWATH, Ph.D.

College of Public Health Sciences, Chulalongkorn University,

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**RESEARCH INTEREST**

Natural Products Chemistry, Protein Modifications, Bioconjugations, Health Sciences Innovation, Public Health related to Infectious Diseases and Inflammation

EDUCATION

2017 Ph.D. in Organic Chemistry, University of Oxford, Oxford, United Kingdom.

2012 M.Sc. in Organic Chemistry, University of Bristol, Bristol, United Kingdom.

2010 B.Sc. in Chemistry (1st Class Honour), Kasetsart University, Bangkok, Thailand.

PROFESSIONAL EXPERIENCES

2019 – Present	Assistant Professor at College of Public Health Sciences, Chulalongkorn University
2023 – Present	Executive Committee of College of Public Health Sciences, Chulalongkorn University
2021 – Present	Associate Editor – Journal of Health Research
2021 – 2023	Executive Committee of The Protein Society of Thailand
2022	Scientific Committee of the 17th International Symposium of the Protein Society of Thailand
2022	Academic Committee of the 13th International Graduate Students Conference on Population and Public Health Sciences
2022	Academic Committee of the 22nd International Conference of Public Health Sciences
2021	Scientific Committee of the 16th International Online Mini-Symposium of the Protein Society of Thailand
2021	Academic Committee of the 12th International Graduate Students Conference on Population and Public Health Sciences
2021	Academic Committee of the 21st International Conference of Public Health Sciences
2019 – 2017	Lecturer at Chulabhorn Graduate Institute, Bangkok, Thailand
2018	Academic Committee of the 13th International Conference on Cutting-Edge Organic Chemistry in Asia

PUBLICATIONS

1. **Phanumartwiwath A.***, Kesornpun C., Chokchaichamnankit D., Khongmanee A., Diskul-Na-Ayudthaya P., Ruangjaroon T., Srisomsap C., Kittakoop P., Svasti J., Ruchirawat S. Protein Modification via Nitrile Oxide—Dehydroalanine Cycloaddition: Formation of Isoxazoline Ring on the Protein Backbone. *ChemBioChem*, **2023**; 24; e202300268 (Highlighted in the Front Cover).
2. Sam-ang P., **Phanumartwiwath A.***, Liana, D., Sureram, S., Hongmanee, P., Kittakoop P. UHPLC-QQQ-MS and RP-HPLC Detection of Bioactive Alizarin and Scopoletin Metabolites from *Morinda citrifolia* Root Extracts and Their Antitubercular, Antibacterial, and Antioxidant Activities. *ACS Omega*, **2023**; 8(32); 29615–29624.
3. Cytotoxicity and molecular docking to DNA topoisomerase II of chalcone flavokawain B isolated from *Kaempferia elegans* rhizomes. Savasapun K., Boonchaisri S., Chaisuriya P., Srisomsap C., Svasti J., Ardkhean R., **Phanumartwiwath A.***, Sam-ang P*. *ScienceAsia*, **2023**; 49; 421–427.
4. Moonsarn S., Kasetjaroen Y., Bettex-Baars A.-M., **Phanumartwiwath A.*** A Communication-Based Intervention Study for Reducing Stigma and Discrimination against Tuberculosis among Thai High-School Students. *Int. J. Environ. Res. Public Health*, **2023**; 20; 4136.
5. **Phanumartwiwath A.**, Boonchaisri S., Savasapun K., Chodnakarin A., Sam-Ang P. Potential alpha-glucosidase inhibitory activity of root extracts from *Morinda citrifolia* L. *Agr. Nat. Resour.*, 2022; 56(4); 815-824.
6. Liana D., **Phanumartwiwath A.*** Leveraging knowledge of Asian herbal medicine and its active compounds as COVID-19 treatment and prevention. *J. Nat. Med.*, 2022; 76(1); 20-37.
7. **Phanumartwiwath A.***, Kesornpun C., Sureram S., Hongmanee P., Pungpo P., Kamsri P., Punkvang A., Eurtivong C., Kittakoop P., Ruchirawat S. Antitubercular and antibacterial activities of isoxazolines derived from natural products: Isoxazolines as inhibitors of *Mycobacterium tuberculosis* InhA. *J. Chem. Res.*, **2021**; 45(11-12); 1003-1015.
8. Aiyarakanchanakun P., Palanuvej C., Ruangrunsi N., **Phanumartwiwath A.*** Pharmacognostic specifications, RP-HPLC analysis of chlorogenic acid content and antioxidant activity of *Morus alba* linn. leaves in Thailand. *Pharmacog. J.*, **2021**; 13(5); 1186-1194.
9. Sam-Ang P., Surangkul D., Savasapun K., **Phanumartwiwath A.** Antioxidant and Acetylcholinesterase Inhibitory Activities of *Morinda citrifolia* L. Extracts. *Agr. Nat. Resour.*, **2020**; 54(2); 173-179.
6. Bhushan B., Lin YYA., Bak M., **Phanumartwiwath A.**, Yang N., Bilyard MK., Tanaka T., Hudson KL., Lercher L., Stegmann M., Mohammed S., Davis BG. Genetic Incorporation of Olefin Cross-Metathesis Reaction Tags for Protein Modification. *J. Am. Chem. Soc.*, **2018**; 140(44); 14599-14603.
7. Molee W., **Phanumartwiwath A.**, Kesornpun C., Sureram S., Ngamrojanavanich N.,

- Ingkaninan K., Mahidol C., Ruchirawat S., Kittakoop P. Naphthalene Derivatives and Quinones from *Ventilago denticulata* and Their Nitric Oxide Radical Scavenging, Antioxidant, Cytotoxic, Antibacterial, and Phosphodiesterase Inhibitory Activities. *Chem. Biodivers.*, **2018**; 15(3); 1700537.
8. Wright TH., Bower BJ., Chalker JM., Bernardes GJL., Wiewiora R., Ng WL., Raj, R., Faulkner S., Vallée MRJ., **Phanumartwiwath A.**, Coleman OD., Thézénas ML., Khan M., Galan SRG., Lercher L., Schombs MW., Gerstberger S. Palm-Espling ME., Baldwin AJ., Kessler, BM., Claridge TDW., Mohammed S., Davis BG. Posttranslational mutagenesis: A chemical strategy for exploring protein side-chain diversity. *Science*, **2016**; 354(6312); 597.
9. **Phanumartwiwath A.**, Hornsby TW., Jamalis J., Bailey CD., Willis CL. Silyl Migrations in D-Xylose Derivatives: Total Synthesis of a Marine Quinoline Alkaloid. *Org. Lett.*, **2013**; 15(22); 5734-5737.

RESEARCH GRANTS and AWARDS

1. Grant for Research Platform for Teaching, Ratchadaphiseksomphot Endowment Fund, Chulalongkorn University, Thailand, 2023 – 2024.
2. Research Grant for New Scholar, Office of the Permanent Secretary, Minister of Higher Education, Science, Research and Innovation, Thailand, 2021 – 2023.
3. Grant for Development of New Faculty Staff, Ratchadaphiseksomphot Endowment Fund, Chulalongkorn University, Thailand, 2022 – 2023.
4. Grant for Development of New Faculty Staff, Ratchadaphiseksomphot Endowment Fund, Chulalongkorn University, Thailand, 2021 – 2022.
5. Grant for Development of New Faculty Staff, Ratchadaphiseksomphot Endowment Fund, Chulalongkorn University, Thailand, 2020 – 2019.
6. Winner of the 2016 International Symposium on Chemical Biology (NCCR) Travel/Fee Waiver Grant Award, Switzerland, 2016
7. Royal Society of Chemistry (RSC) Travel Grant Award for PhD Students and Post-doctoral Researchers, United Kingdom, 2016
8. Graduate Studies Funding for DPhil Students, Department of Chemistry, University of Oxford, United Kingdom, 2016
9. Winner of the ECBS (European Chemical Biology Society) & ICBS (International Chemical Biology Society) Joint Meeting Poster Prize Award, Germany, 2015
10. Royal Thai Government Scholarship (DPST Scholarship), Thailand, 2003-2016
11. Excellent Study Award, Kasetsart University, Thailand, 2006-2010