



NOPNITHI THONGHIN

นพนิธิ ทองหิน

Academic Background:

- 2007-2010 B.Sc. (Biology, 1st Class Honours)
Department of Biology, Faculty of Science
Chiang Mai University, Chiang Mai, Thailand
Individual study: Comparative *Rhipicephalus* spp. 18S rRNA sequences in Muang Chiang Mai
- 2011-2013 M.Sc. (Molecular Genetics and Genetic Engineering)
Institute of Molecular Biosciences
Mahidol University, Nakhon Pathom, Thailand
Thesis title: Crystallisation of aberrant mitochondrial tRNA^{Ser} using modular approaches
- 2014-2018 PhD Biochemistry
School of Biological Sciences
Faculty of Biology, Medicine and Health
The University of Manchester, Manchester, United Kingdom
Thesis title: Structural studies of the multi-drug resistance protein P-glycoprotein (ABCB1)

- **Current academic position:**

Lecturer in Biology at
Srinakharinwirot University
Bangkok, Thailand

- **Contact Address:**

10-402 Building no.10 Department
of Biology, Faculty of Science,
Srinakharinwirot University, 114 Soi
Sukhumvit 23, Wattana, Bangkok,
Thailand

- **e-mail:** nopnithi@gs.wu.ac.th

Scholarship and certification awarded:

- 2004-2018 Development and Promotion of Science and Technology
Talents Project (DPST) Scholarship
- 2011 Certification awarded by Prof. Tab Neelanithi Foundation

Fields of Interest:

Molecular Biology, Genetics, Structural Biology and Biochemistry

Skills and Experiences:

- Experienced user of data analysis software and bioinformatic tools e.g. GraphPad Prism, BLAST, UniProt, PDB and EMDB databases
- Experienced user of software for molecular biology and structural biology research e.g. ClustalX, ApE, PyMol, Chimera, EMAN2, RELION and cisTEM
- Experienced operator of techniques and equipment in molecular biology and structural biology e.g. gene cloning, protein expression and purification, protein-RNA crystallisation and cryo-electron microscopy
- 3-year experience as a teaching assistant at the University of Manchester, UK

Publications:

- Lingam, S., **Thonghin N.** and Ford R. C. (2017). "Investigation of the effects of the CFTR potentiator ivacaftor on human P-glycoprotein (ABCB1)." *Scientific Reports* **7**(1).
- Thonghin, N.**, Kargas V., Clews J. and Ford R. C. (2018). "Cryo-electron microscopy of membrane proteins." *Methods* **147**:176-186.
- Thonghin N.**, Collins R. F., Barbieri A., Shafi T., Siebert A. and Ford R. C. (2018). "Novel features in the structure of P-glycoprotein (ABCB1) in the post-hydrolytic state as determined at 7.9Å resolution." *BMC Structural Biology* **18**(1):17-28.