



Minh Khoa NGO

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Gender: Male

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RESEARCH INTERESTS

1. Molecular mechanism of RNA-interacting enzymes and proteins
2. Structural studies into RNA-protein complexes

EDUCATION

Sep 2024 – Now	Hong Kong University of Science and Technology (HKUST) Doctor of Philosophy in Life Science
Feb 2022 – August 2024	Hong Kong University of Science and Technology (HKUST) Master of Philosophy in Life Science GPA: 4.3/4.3
Sep 2015 – July 2020	Hanoi University of Pharmacy (HUP) Bachelor of Pharmacist GPA: 3.91/4.0 - 9.01/10 (University ranking: Top 1 in university)

RESEARCH EXPERIENCE

Feb 2022 - Now	RNA-interacting proteins and enzymes - RIPE lab – HKUST MPhil post-graduate student in Life Science PI: Assoc. Prof. NGUYEN Tuan Anh - Investigating the molecular interactions between RNase III enzymes and RNAs using biochemical and single particle cryo-EM structural studies - Analysis of NGS data
Sep 2020 - Dec 2021	Vietnam - Korea Institute of Science and Technology (VKIST) Researcher at Biotechnology Division PI: Assoc. Prof. PHUONG Thien Thuong - Phytochemical studies and developing extraction procedures
Oct 2017 - July 2020	Hanoi University of Pharmacy Research assistant student at Department of Pharmacognosy PI: Assoc. Prof. NGUYEN Thu Hang - Optimizing extraction procedure using RSM

- Investigating xanthine oxidase inhibitory and anti-hyperuricemia properties of herbal extracts. Virtual screening for potential natural compounds using QSAR/docking

PUBLICATIONS

- Nguyen, Thuy Linh*, Trung Duc Nguyen*, **Minh Khoa Ngo***, Thi Nhu-Y. Le, and Tuan Anh Nguyen. "Noncanonical processing by animal Microprocessor." *Molecular Cell* 83, no. 11 (2023): 1810-1826.
- Nguyen, Thuy Linh*, Nguyen, Trung Duc*, **Ngo Minh Khoa**, & Nguyen, Tuan Anh (2023). Dissection of the *Caenorhabditis elegans* Microprocessor. *Nucleic acids research*, 51(4), 1512–1527.
- Hang Nguyen Thu, Phuong Nguyen Van, Hoang Le Viet, **Khoa Ngo Minh**, Trang Le Thi, "Prediction of the xanthine oxidase inhibitory activity of celery seed extract from ultraviolet–visible spectrum using machine learning algorithms", *SN Applied Sciences*, 2020
- Hang Nguyen Thu, Phuong Nguyen Van, **Khoa Ngo Minh**, Trang Le Thi, "Optimization of extraction conditions of flavonoids from celery seed using response surface methodology", *Journal of Food Measurement and Characterization*, 2020
- Hang Nguyen Thu, **Khoa Ngo Minh**, Trang Le Thi & Phuong Nguyen Van, "Optimization of extraction of flavonoids from shallot skin using response surface methodology based on multiple linear regression and artificial neural network and evaluation of its xanthine oxidase inhibitory activity", *Journal of Food Measurement and Characterization*, 2021
- Nguyen Van Phuong, **Ngo Minh Khoa**, Le Thi Trang, Nguyen Thu Hang, "Optimization of the extraction process for flavonoids from celery (*Apium graveolens* L.) seeds", *Journal of Medicinal Materials - Hanoi*, vol 24, 2019
- Nguyen Van Phuong, Nguyen Thu Hang, Pham The Hai, Ho Dang Phuc, **Ngo Minh Khoa**, Nguyen Van Tuan, "In silico screening for potential flavonoids as UDP-Galactopyranose mutase (UGM) inhibitors", *Journal of Pharmaceutical research and Drug information*, vol 9, 2018

HONORS & AWARDS

2024 - 2025	Hong Kong PhD Fellowship HKPFS
2022 - 2024	Postgraduate scholarship from HKUST
2021	Second prize at the 20th Conference of Science and Technology for Youth of Health Ministry with the project: "Applications of modern statistical methods to optimization of extraction of flavonoids from shallot skin"
2020	Award for graduate valedictorian in graduation ceremony for 70th generation of Hanoi University of Pharmacy.
2020	Third Prize at the 20th Conference of Science and Technology for Youth of Hanoi University of Pharmacy

- 2019 Award of "Student with 5 Merits" by the Executive Committee of Vietnam Student Association of Hanoi. This award is presented for students who have excellent achievement in 5 aspects: Morality, Study, Fitness, Volunteer, and international integration
- 2017-2019 CKD Scholarship from the Chong Kun Dang Kochon Foundation- Korea. This is the most honorary scholarship for students in Hanoi University of Pharmacy. It is awarded for students who have overcome the difficulties in life to achieve successful study results
- 2016-2020 Awards for student with outstanding achievements in study and activity in throughout the course by Hanoi University of Pharmacy
- 2015
- First Prize in Provincial excellent student competition in Chemistry, Hai Phong
 - First Prize in National excellent student competition in applying calculator for Chemistry
 - Awarded as top-class students in national university entrance exam of Hai Phong

SKILLS

Language proficiency	English: IELTS score of 7.5 (10/2021) TOEIC score of 925 (8/2020)
Technical skills	HPLC, NGC operation experiences Overexpress and purify proteins from human cell, bacterial, and insect cell system Biochemical assays NGS data analysis using HPC platform and Python

REFERENCES

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1. Assoc. Prof. NGUYEN Tuan Anh
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 2. Assoc. Prof. NGUYEN Thu Hang
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Email: hangnt@hup.edu.vn
 3. Assoc. Prof. PHUONG Thien Thuong
Principle Investigator of Biotechnology Division, Vietnam-Korea Institute of Science and Technology
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