

Curriculum vitae

TRINH PHAN-CANH

PhD Student at Medical University of Vienna

Date of Birth: 09/09/1992

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EDUCATION

- 2021 - Ongoing **PhD in Immunology**
Medical University of Vienna
Project: *Candida auris*: virulence factors, morphogenesis and drug resistance of a sticky human fungal pathogen. Supervisor: Prof. Dr. Karl Kuchler
- 9/2017 - 9/2019 **Master's Degree of Pharmacy (Field: Pharmaceutical technology and Pharmaceutics)**
University of Medicine and Pharmacy at Ho Chi Minh City
GPA: 8.39/10, Thesis: 9.95/10, Ranking: 1/30
- 11/2015 - 2/2018 **Bachelor of Information Technology (Distance education)**
Vietnam National University - Ho Chi Minh City, University of Information Technology (VNU-HCM, UIT)
GPA: 8.14/10, Certificate of Excellent awarded by Dean of VNU-HCM, UIT
- 9/2010 - 9/2015 **University of Medicine and Pharmacy at Ho Chi Minh City**
Degree of Pharmacy, GPA: 7.36/10, Thesis: 10/10

WORKING AND RESEARCH EXPERIENCES

- 3/2016 - 1/2021 **Researcher and Lecturer**
Faculty of Pharmacy, University of Medicine and Pharmacy at Ho Chi Minh City
- **Teaching** Microbiology, Molecular biology, and pharmaceutical biotechnology for pharmacy students. Designing 4 laboratory courses for exchange students from Japan (2019), Korea (2018 and 2019), and Thailand (2019). Participating development of 9 e-learning courses of Microbiology and Parasitology Department. Constructing "Research skill course" (in 3 days) for pharmacy students at UMP from 2016 to 2020 (~70 students every year)
 - **Research:** doing research in **antimicrobial drug screening** from herbs, lichen, Actinobacteria, Myxobacteria, and **epidemiology of Gram-negative bacteria and fungal infection**
 - **Management** of Mycology Laboratory, Department of Microbiology and Parasitology
 - **Supervising** pharmacy students to conduct diploma thesis and undergraduate summer projects in Microbiology and Parasitology Department, which obtained 3 prizes in student research competitions hold by the UMP's Youth Union and the Ho Chi Minh City Youth Union
- 5/2019-12/2020 **Academic Affairs Specialist (Concurrent position)**
Faculty of Pharmacy, University of Medicine and Pharmacy at Ho Chi Minh City

- Administration of E-learning Platform
- Involving in Educational Innovation Team, Course Coordination for Continuing Pharmacy Education, and Quality Assurance Activity of the University

10/2015-1/2017 **thongtinthuoc.com.vn – Vietnamese Drug Interactions Checker**
 Administrated the website, introduced and compiled usage manual of the system for healthcare professional, review drug information related to antibiotics and probiotics

PROFESSIONAL ACTIVITIES

2021-present Founder and coordinator of Seminar series: “PhD Talk”, a scientific seminar for Vietnamese students in Austria. <https://phdtalk.github.io>

2020 Member in Organizing committees of “Pharmacy Students' Science Conference - PHARMASciCo” for pharmacy students in Vietnam

2020 Member in Organizing committees of Continuing Medical Education (CME) “SARS-CoV-2: virological characteristics and mechanism of action of drugs undergoing clinical trials” for 150 pharmacists in Vietnam

2017-2019 Member in Organizing committees of UMP Annual Technical Science Conference (Pharmacy Section)

June 1, 2018 Member in Organizing committees of Youth Science and Technology of Vietnam Universities and Colleges of Medicine and Pharmacy - The XIX

COMMUNITY WORK

Member of executive committee of Vietnamese Youth and Student Federation in Europe (2021-present); co-founder and president of Pharmacy Skill Club (2011-2014); mentor of Pharmacy Academic Club (2017-2021); the secretary of the Youth Union at the Faculty of Pharmacy, UMP; coordinate extracurricular activities of pharmacy students (2500 members; 2019-2021)

HONORS AND AWARDS

11/2019 **Consolation prize in Eureka Scientific Competition 21st**
The most reliable and biggest student scientific competition in Vietnam
 Guided a team to conduct a research in extraction and antimicrobial assay of compounds from tropical lichen. Trained experimental design, scientific reading, writing, and presentation skill

2012 **Champion - Scientific Research Contest - Seeking Elixir 3rd**
 Won the champion in the student scientific research titled “Investigating the situation of antibiotic use and appropriate antibiotic use solutions in Ho Chi Minh City”

GRANTS AND FELLOWSHIPS

2021-2023 **Ernst Mach Grant – ASEA-UNINET for a PhD programme in Austria**

1/2019 **“Damar batu” essential oil: *In vitro* antimicrobial activities and perspectives**
 This seed fund was awarded by Training and Research Academic Collaboration (TRAC) Sweden - Vietnam. The TRAC seed funds 2019 granted all students, clinicians and junior scientists to carry out pilot studies (collect and/or analyse data) in Vietnam

2017-2020 **Research grant from University of Medicine and Pharmacy at Ho Chi Minh City**

Start-up research grant for lecturers to conduct pilot research at the university

- 2015 **Homtamin Scholarship**
Awarded by Korea United Pharm Company for outstanding students in academy and social activities
- 2014 **Daewoong Scholarship**
Awarded by Daewoong Pharmaceutical Company for outstanding students in academy

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- 2022-present Member of European Society of Clinical Microbiology and Infectious Diseases
- 2019-present Member of American Society for Microbiology
- 2021-present Member of Austrian Association of Molecular Life Sciences and Biotechnology
- 2017-2020 Member of Ho Chi Minh City Pharmaceutical Association: Ho Chi Minh, Vietnam

PUBLICATIONS

1. Sabrina Jenull, Raju Shivarathri, Irina Tsymala, Philipp Penninger, **Phan-Canh Trinh**, Filomena Nogueira, Manju Chauhan et al. "Transcriptomics and Phenotyping Define Genetic Signatures Associated with Echinocandin Resistance in *Candida auris*." *mBio* (2022): e00799-22.
2. Raju Shivarathri, Manju Chauhan, Rounik Mazumdar, **Phan-Canh Trinh**, Wolfgang Reiter, Markus Hartl, Karl Kuchler & Neeraj Chauhan. (2022). A Proteomic Approach for the Quantification of Posttranslational Protein Lysine Acetylation in *Candida albicans*. In: Calderone, R. (eds) *Candida Species. Methods in Molecular Biology*, vol 2542. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-2549-1_3
1. **Phan-Canh Trinh**^{*}, et al. 2020. "DPPH-scavenging and antimicrobial activities of Asteraceae medicinal plants on uropathogenic bacteria." *Evidence-Based Complementary and Alternative Medicine* 2020: 7807026. Citation: 16. (*Corresponding author).
2. **Phan-Canh Trinh**, et al. 2020. "Identification of *Acinetobacter baumannii* and detection of β - lactam antibiotic resistance genes in clinical samples by multiplex PCR." *bioRxiv*.
3. **Phan Canh Trinh** and Duong Thi Thanh Mai. 2019. "Damar Batu essential oil: *In vitro* antimicrobial activities and perspectives." *Research Report to The Training and Research Academic Collaboration (TRAC) – Sweden-Vietnam*. <https://tinyurl.com/y3qjo3ar>.
4. **Phan Canh Trinh**, et al. 2019. "*Dirinaria applanata*: morphology, chemical composition and antimicrobial activity." *Ho Chi Minh City Journal of Medicine* 23 (2): 47–54. <https://tinyurl.com/y99zn9l7>.
5. Nguyen Xuan Loc, et al. and **Phan Canh Trinh** ^{*}. 2019. "Isolation and screening antimicrobial activity of soil Actinobacteria." *Pharmaceutical Journal* 59 (524): 45–49. <https://tinyurl.com/ya66pr4z>. (*Corresponding author).
6. Nguyen Thi Ngoc Yen, **Phan Canh Trinh**, et al. 2019. "*In vitro* susceptibility testing of Dermatophytes isolated from Hospital of Dermatology in Ho Chi Minh City to ketoconazole and terbinafine." *Ho Chi Minh City Journal of Medicine* 23 (3): 55–60. <http://tinyurl.com/rqxz9m>. (PCT and NTNY designed research experiments and wrote the manuscript; PCT analysed data and gave discussion).
7. Vu Thanh Thao, **Phan Canh Trinh**, et al. 2018. "Study on fermentation conditions for *Bacillus subtilis* KP3 spores production." *Ho Chi Minh City*

- Journal of Medicine* 22 (1): 453–59. <https://tinyurl.com/y8uebyma>. (PCT and VTT designed research experiments and analysed data; PCT performed experiments).
8. Nguyen Huu Dai, Ly Nguyen Hai Du, **Phan Canh Trinh**, et al. 2020. "Synthesis and Evaluation of Antibacterial and Antifungal Activities of Some Hydrazone Derivatives of Chalcones." *Ho Chi Minh City Journal of Medicine* 24 (2): 207–11. <https://tinyurl.com/yctbfjuc>. (PCT designed and performed antimicrobial assay).
 9. Tran Ngoc Chau, Phung Bich Tuyen, **Phan Canh Trinh**, et al. 2021. Synthesis and Anti-Staphylococcus aureus activity of 2-pyrazoline and 2-isoxazoline derivatives *Ho Chi Minh City Journal of Medicine* 25 (2): 48 – 55. <https://tinyurl.com/4dmhcs48>. (PCT designed and performed antimicrobial assay).

CONFERENCES

August 2022	The 1st Scientific Seminar of Young Vietnamese Intellectuals (Oral)
June 2022	17th YSA PhD Symposium 2022, Medical University of Vienna (Poster)
May 2022	FEBS Advanced Lecture Course HFP2022: Molecular mechanisms of host-pathogen interactions and virulence in human fungal pathogens (Poster)

PROFESSIONAL SKILLS

Molecular microbiology techniques, cloning, cell culture, flow cytometry, mouse handling, PCR, RNA-seq, proteomics, bioinformatic analysis (WGS, RNA seq, proteomics, differentially expression analysis).

Data analysis and visualization with R; Basic skill in bash and Python; experimental visualization with Adobe Photoshop and Adobe Illustrator; GraphPad Prism; excellent in Microsoft Office, Endnote.

Highly skilled with different operating systems: Unix (Ubuntu and MacOS), Window.

REFERENCES

Karl Kuchler, PhD, Professor in Molecular Biology,
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