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<https://scholar.google.fr/citations?user=dPb28LYAAAAAJ&hl=en> (H index: 10, citations: 390)



SUMMARY

- **Computational Biology:** *in silico* drug design, molecular docking, virtual screening, molecular dynamics simulations.
- **Structural biology:** intrinsically disordered proteins, protein folding and unfolding, protein structure and oligomerization.
- **Bioinformatics:** outsourcing science and life science data analysis, antibody sequences and structures, nanobody, antibody database.
- **Data analysis:** systematic review and meta-analysis, Python, R, Xmgrace, VMD, Chimera, Pymol.
- **Achievements:** 30 ISI publications, 10 international conferences, 4 national publications, 'Best Student Award' 2007-2010.
- **Project management:** Planning, organization and presentation of the results, establishment of academic and technical collaborations.
- **Editorial Board:** Vietnam Journal of Science, Technology and Engineering (VJSTE)
- **Reviewer:** Journal of biomolecular structure and dynamics, Journal of chemical information and modeling, Journal of molecular graphics and modelling, Medicinal Chemistry Research, Tropical medicine and health, MedPharmRes.
- **Training:** Big data, Machine Learning, Quantum dynamics in molecular systems, Neuropharmacology.
- **Languages:** English (professional), French (intermediate), Vietnamese (native).

EXPERIENCES

Visiting Lecturer – Faculty of Pharmacy, HUTECH University	HCM City, Vietnam	Present
▪ Teaching “Research design and statistics in biology”		
Researcher – Institute of Fundamental and Applied Sciences, Duy Tan University, Vietnam	HCM City, Vietnam	06/2020-Present
 DAI HOC DUY TAN	▪ Computational drug development targeting Alzheimer’s disease and diabetes	
	▪ Systematic review and meta-analysis	
Postdoctoral researcher – BIOS, PRC, INRA National Institute of Agricultural Research	Nouzilly, France	03/2017-08/2018
 INRA SCIENCE & IMPACT	▪ Searching database, data analysis of antibody sequences and secondary structures	
	▪ Comparative analysis of antibody database in terms of sequences and secondary structures	
	▪ Establish prediction method to determine CDR antibody structures based on amino acid sequences	
PhD – BioCIS, Faculty of Pharmacy, University Paris-Sud, University Paris-Saclay	Paris, France	10/2013-12/2016
 UNIVERSITE PARIS SUD	▪ Amyloidogenic peptides: conformational ensemble, oligomerization and inhibition by peptidomimetics ligands.	
 universite PARIS-SACLAY	▪ Molecular dynamics simulations, replica exchange molecular dynamics.	
	▪ Protein-lipid interactions, protein-drug interactions analysis.	
	▪ Docking methods: protein-protein docking coarse-grained, protein-ligand docking, virtual screening	
	▪ Outcome: 6 ISI publications (Scientific Reports, Current Pharmaceutical Design, Peptide, International Journal of Molecular Sciences, ACS Chemical Neuroscience, European Journal of Medicinal Chemistry), international conferences	
	▪ Supervision of Master student for their internship: docking and identification of binding sites	
Researcher assistant – Saigon Institute for Computational Science and Technology	HCM City, Vietnam	07/2011-09/2013
 ICST	▪ Project: Computational drug development targeting influenza diseases	
	▪ Using docking, pharmacophore modeling, QSAR applied in structure-based and ligand-based drug design	
	▪ Supervision of a Bsc. student for their internship, 2 ISI publications (Medicinal Chemistry Research journal)	
BSc. Internship – School of Pharmaceutical Sciences, Universiti Sains Malaysia	Penang, Malaysia	04-06/2011
 UNIVERSITI SAINS MALAYSIA	▪ Project: Computer-aided drug design of potential M2 channel inhibitors	
	▪ Using virtual screening, molecular docking, data analysis, 1 ISI publication (Molecules journal)	

EDUCATION

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|---|-------------------|-----------|
| ▪ PhD. in Medicinal Chemistry – University Paris-Sud, University Paris-Saclay | Paris, France | 2013-2016 |
| ▪ Engineer of Biotechnology – Ho Chi Minh International University | HCM City, Vietnam | 2007-2011 |

INTERESTS

- Volunteer in social and cultural center Hissez Haut, Nanterre 2019-2020.
- Reading books, Swimming, Practice Mindfulness.

REFERENCES

- **Tâp Ha-Duong**, Professor, Faculty of Pharmacy, University Paris-Sud, CNRS, Paris Saclay; tap.ha-duong@u-psud.fr
- **Ly Le**, Associate Professor, School of Biotechnology, Ho Chi Minh International University; ly.le@hcmiu.edu.vn
- **Anne Poupon**, Professor, BIOS, PRC, INRA, Centre Val de Loire; anne.poupon@inra.fr
- **Daniel Borgis**, Professor, Research Director, House of Simulation, CEA Saclay; daniel.borgis@ens.fr

LIST OF PUBLICATIONS

ISI publications

1. **L Tran**, SB Choi, BO. Al-Najjar, M Yusuf, HA Wahab, Ly Le. Discovery of potential M2 channel inhibitors based on the Amantadine scaffold via virtual screening and pharmacophore modeling, *Molecules* 2011, 16, 10227-10255.
2. Nhut Tran⁺, **L Tran**⁺, Ly Le. Strategy in structure-based drug design for influenza A viruses targeting M2 channel proteins. *Medicinal Chemistry Research* 2013, doi: 10.1007/s00044-013-0599-z.
3. **L Tran**, Ly Le. Recent progress and challenges in computer-aided design of inhibitors for influenza A M2 channel proteins. *Medicinal Chemistry Research* 2014. doi: 10.1007/s00044-014-0964-6
4. L Gerber, VM Hoang, **L Tran**, HAT Kiet, P Malmberg, J Hanrieder, A Ewing. Using imaging ToF-SIMS data to determine the cell wall thickness of fibres in wood. *Surface and Interface Analysis* 2015, 46 (S1), 225-228.
5. **L Tran**, Tâp Ha-Duong. Exploring the Alzheimer amyloid-peptide conformational ensemble: A review of molecular dynamics approaches. *Peptides* 2015, 69: 86-91.
6. P Daligaux, G Bernadat, **L Tran**, C Cavé, PM. Loiseau, S Pomela, Tâp Ha-Duong. Comparative study of structural models of Leishmania donovani and human GDP-mannose Pyrophosphorylases. *European Journal of Medicinal Chemistry* 2016, 107: 109-118.
7. **L Tran**, Tâp Ha-Duong. Insights into the conformational ensemble of human islet amyloid polypeptide from molecular simulations. *Current Pharmaceutical Design* 2016, 22, 3601-3607.
8. **L Tran**, Nathalie Basdevant, Chantal Prévost, Tâp Ha-Duong. Structure of ring-shaped A β 42 oligomers determined by conformational selection. *Scientific Reports* 2016, 6:21429, doi: 10.1038/srep21429.
9. **L Tran**, Tâp Ha-Duong. Effect of post-translational amidation on islet amyloid polypeptide conformational ensemble: Implications for Its Aggregation Early Steps. *International Journal of Molecular Sciences* 2016, 17, 1896.
10. A Elshafay, NX Tinh, S Salman, YS Shaheen, EB Othman, MT Elhady, AR Kansakar, **L Tran**, L Van, K Hirayama, NT Huy. Ginsenoside Rk1 bioactivity: A systematic review *PeerJ* 2017, 5, e3993.
11. **L Tran**, Ngo ST, Nguyen MT. Propafenone effects on the stable structures of A β ₁₆₋₂₂ system. *Chemical Physics Letters* 2018, 696:55–60.
12. **L Tran**. Understanding the binding mechanism of Amyloid-beta inhibitors from molecular simulations. *Current Pharmaceutical Design* 2018, 24 (28), 3341-3346.
13. **L Tran**, Kaffy J, Onger S, Ha-Duong T. Binding modes of a glycopeptidomimetic molecule on A β protofibrils: Implication in its inhibition mechanism. *ACS Chemical Neuroscience* 2018, 9 (11), 2859-2869.
14. DNH Tam, DH Truong, TTH Nguyen, **L Tran**, HD Nguyen, B Shamandy, TMH Le, DK Tran, D Sayed, S Mizukami, K Hirayama, NT Huy. Ginsenoside Rh1: a systematic review of its pharmacological properties *Planta Medica* 2018, 84 (03), 139-152.
15. **L Tran**, TLB Nghia, A Hendam, NL Vuong, E Alzalal, AM Sayed, MM Hussain, A Sharma, T Tieu, PG Mathenge, K Hirayama, N Alexander, NT Huy. Frequent inappropriate use of unweighted summary statistics in systematic reviews of pathogen genotypes or genogroups. *Journal of Clinical Epidemiology* 2020, 119, 26-35.
16. S Ghozy*, **L Tran***, S Naveed, TTH Quynh, AH Zayan, A Waqas, AKH Sayed, S Karimzadeh, K Hirayama, NT Huy. Association of breastfeeding status with risk of autism spectrum disorder: A systematic review, dose-response analysis and meta-analysis. *Asian Journal of Psychiatry*. 2020, 48, 101916.
17. DNH Tam, EM Mostafa, VL Tu, AI Rashidy, E Matenoglou, M Kassem, DT Soa, A Bayumi, HES Emam, **L Tran**, TV Dat, NT Huy. Efficacy of chalcone and xanthine derivatives on lipase inhibition: A systematic review. *Chemical Biology & Drug Design* 2020, 95 (2), 205-214.
18. S Ghozy, NM Dung, ME Morra, S Morsy, GG Elsayed, **L Tran**, AS Abbas. Efficacy of kinesio taping in treatment of shoulder pain and disability: a systematic review and meta-analysis of randomised controlled trials. *Physiotherapy* 2020, 107, 176-188.
19. A Mohammed, DNH Tam, TLH Vu, TM Tieu, MK Elfaituri, NN Trinh, EA Sagheir, **L Tran**, TTH Loc, SK Low, S Mizukami, K Hirayama, NT Huy. Morinda morindoides: A systematic review of its therapeutic activities *South African Journal of Botany* 2020, 131, 93-103.
20. TT Tran, F Pan, **L Tran**, C Roland, C Sagui. The F19W mutation reduces the binding affinity of the transmembrane A β 11–40 trimer to the membrane bilayer. *RSC Advances* 2021, 11 (5), 2664-2676.
21. DNH Tam, NH Nam, MT Elhady, **L Tran**, OG Hassan, M Sadik, PTM Tien, GA Elshafei, NT Huy. Effects of Mulberry on The Central Nervous System: A Literature Review. *Current Neuropharmacology*, 2021; 19, 2, 193-219.
22. **L Tran**, I Radwan, SK Low, MR Hashan, MD Gomaa, M Abdelmongy, AI Abdelaziz, A Mohamed, GM Tawfik, S Mizukami, K Hirayama, NT Huy. Role of Th2 and Th17 cells-mediators in pathogenesis of dengue infection: a systematic review and meta-analysis. *Acta Tropica* 2021, 216, 105823.
23. DNH Tam, AT Qarawi, MN Luu, M Turnage, **L Tran**, GM Tawfik, NT Huy. Favipiravir and its potentials in COVID-19 pandemic: An update. *Asian Pacific Journal of Tropical Medicine* 2021, 14 (10), 433.
24. **L Tran**, AM Makram, OM Makram, MK Elfaituri, S Morsy, S Ghozy, AH Zayan, NH Nam, MMM Zaki, EL Allison, TH Hieu, LL Quang, DT Hung, NT Huy. Efficacy of Kinesio Taping Compared to Other Treatment Modalities in Musculoskeletal Disorders: A Systematic Review and Meta-Analysis. *Research in Sports Medicine*, 2021, 1-24.
25. **L Tran**, DNH Tam, A Elshafay, T Dang, K Hirayama, NT Huy. Quality assessment tools used in systematic reviews of in vitro studies: A systematic review. *BMC Medical Research Methodology*, 2021, 21 (1), 1-13.
26. **L Tran**, DNH Tam, H Elhadad, NM Hien, NT Huy. Evaluation of COVID-19 protease and HIV inhibitors interactions. *Acta Pharmaceutica* 2022, 72 (1), 1-8.
27. **L Tran**, et al. A systematic review of antimalarial activities of Morinda species. *South African Journal of Botany* 2022, 148, 396-406.
28. **L Tran**, NM Tuan, DNH Tam, A Alshareef, E Emad, AM Khalifa, TH Hieu, Z AliKhan, LW Jun, K Hirayama, NT Huy. The timing setting in kinetic dengue studies: a systematic review. *Acta Tropica*, October 2022, 234, 106584.
29. NPH Tao, D Nguyen, SM Sediqi, **L Tran**, NT Huy. Healthcare collapse in Afghanistan due to political crises, natural catastrophes, and dearth of international aid post-COVID. *Journal of Global Health* 2023;13:03003.
30. Tam DNH, Nam NH, Cuong, NTK, DT Hung, DT Soa, A Altom, **L Tran**, H Elhadad, NT Huy. Compound K: A systematic review of its anticancer properties and probable mechanisms. *Fundamental & Clinical Pharmacology* 2023. <https://doi.org/10.1111/fcp.12874>

Vietnamese journals:

1. GM Tawfik, PS Eid, **L Tran**, LHN Minh, MR Hashan, MK Elfaituri, AM Ahmed. Aspiring experience journey towards research: importance and essential skills. *MedPharmRes* 2018(2):35-38.
2. TP Huynh#, **L Tran**#, QH Nguyen, TC Bui, S Ghozy, S Morsy, TM Tieu, NT Huy, HTQ Vu. Complete genome sequences and phylogenetic analysis of dengue virus in Southern Vietnam during 2014-2015. *MedPharmRes* 6 (3) 2022.
3. LC Cong#, **L Tran**#, LTP Lan, GJ Nguyen, ME Elrggal, NH Nam, NT Huy, ND Truong. Transplant Tourism: A Narrative Review on Progression, Ethical and Legal Issues. *MedPharmRes* 7 (1) 2023.
4. Investigation of ZINC85862539_679 to inhibit SARS-CoV-2 main protease: DFT calculation and molecular docking. *Vietnam Journal of Chemistry* 2023. In production.