

Chau-Duy-Tam VO

(Post-doctoral Research Fellow)



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RESEARCH ACTIVITIES

Biochemical and structural studies of multi-protein complex involved in the ubiquinone biosynthesis under aerobic and anaerobic conditions

EDUCATIONAL BACKGROUND

- 2020 – current : **Post-doctoral Research Program**
Collège de France (Paris, France)
- 2016 – 2019 : **Biochemistry PhD Program**
Sorbonne University and Collège de France (Paris, France)
- 2016: **Master's degree in Pharmaceutical Chemistry**
Faculty of Pharmacy – University of Paris–Sud (Paris, France)
- 2015: **First year of Master's degree in Molecular and Cellular Biology**
University Pierre and Marie Curie (Paris, France)
- 2013: **Bachelor's degree in Biochemistry and Molecular Biology**
University of Burgundy (Dijon, France)

PREVIOUS RESEARCH ACTIVITIES

- 2016: Laboratory of pharmacognosy - **Faculty of Pharmacy – University of Paris–Sud, France**
Isolation and characterization of natural compounds from Mentha × piperita (Lamiaceae)
- 2015: Cytokine Signaling Lab, **Pasteur Institute**, Paris, France
-Study of USP18 and ISG15, negative regulators of type I Interferon JAK/STAT signaling
-Functional study of TYK2 variants associated with autoimmune diseases
- 2014: Singapore Immunology Network, **A*STAR**, Singapore
Characterization of bi-specific antibodies using for Interleukin-2 receptors stimulation
- 2014: **National Museum of Natural History**, Paris, France
Purification from human cells of the “Bloom-Topoisomerase III α -RMI” dissolvasome, a complex involved in DNA replication and repair

PUBLICATIONS

- Faivre B, Lombard M, Fakroun S, Vo CD, et al. Dihydrouridine synthesis in tRNAs is under reductive evolution in Mollicutes. RNA Biol. 2021 Mar 22:1-12.
- Vo CD, Michaud J, Elsen S, et al. The O₂-independent pathway of ubiquinone biosynthesis is essential for denitrification in *Pseudomonas aeruginosa*. J Biol Chem. 2020;295(27):9021-9032
- Pelosi L, Vo CD, Abby SS, et al. Ubiquinone Biosynthesis over the Entire O₂ Range: Characterization of a Conserved O₂-Independent Pathway. mBio. 2019;10(4):e01319-19
- Hajj Chehade M, Pelosi L, Fyfe CD, Loiseau L, Rascalou B, Brugière S, Kazemzadeh K, Vo CD, et al. A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. Cell Chem Biol. 2019;26(4):482-492.e7