Quyen V. Vu

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Education

2018-2023	Ph.D. student, Institute of Physics, Polish Academy of Sciences Thesis title: "Influence of the ribosome on protein ejection and folding"
2015-2017	M.S., Vietnam National University-University of Science
2011-2015	B.S., Vietnam National University-University of Science Talented Program of Physics

Honors and Awards

1. The second prize "Student - Scientific Researching" Conference of Faculty of Physics, VNU-US, April 2015.
2. PetroVietnam Scholarship 2015.
3. "Creative Youth" Award of Vietnam Association of Science and Technology in Poland for 2021.

Publications

1. Nissley, D. A.; **Vu, Q. V.;** Trovato, F.; Ahmed, N.; Jiang, Y.; Li, M. S.; O'Brien, E. P. Electrostatic Interactions Govern Extreme Nascent Protein Ejection Times from Ribosomes and Can Delay Ribosome Recycling. *J. Am. Chem. Soc.* 2020, *142* (13), 6103–6110.
2. **Vu, Q. V.;** Jiang, Y.; Li, M. S.; O'Brien, E. P. The Driving Force for Co-Translational Protein Folding Is Weaker in the Ribosome Vestibule Due to Greater Water Ordering. *Chem. Sci.* 2021, *12* (35), 11851–11857.

3. Leininger, S. E.; Rodriguez, J.; **Vu, Q. V.;** Jiang, Y.; Li, M. S.; Deutsch, C.; O'Brien, E. P. Ribosome Elongation Kinetics of Consecutively Charged Residues Are Coupled to Electrostatic Force. *Biochemistry* 2021, *60* (43), 3223–3235.
4. **Vu, Q. V.;** Nissley, D. A.; Jiang, Y.; O'Brien, E. P.; Li, M. S. Is Posttranslational Folding More Efficient Than Refolding from a Denatured State : A Computational Study. *J. Phys. Chem. B* 2023, 127 (21), 4761–4774.
5. Halder, R.; Nissley, D. A.; Sitarik, I.; Jiang, Y.; Rao, Y.; **Vu, Q. V.;** Li, M. S.; Pritchard, J. R.; O'Brien, E. P. How soluble misfolded proteins bypass chaperones at the molecular level. *Nat. Commun.* 2023 (accepted).
6. Dang, L. P.; Nissley, D. A.; Sitarik, I.; **Vu, Q. V.;** Jiang, Y.; Li, M. S.; O'Brien, E. P. Synonymous Mutations Can Alter Protein Dimerization through Localized Interface Misfolding Involving Self-Entanglements. *bioRxiv* **2021**, 2021.10.26.465867. https://doi.org/10.1101/2021.10.26.465867.
7. **Vu, Q. V.;** Sitarik, I.; Jiang, Y.; Yadav, D.; Sharma, P.; Fried, S. D.; Li, M. S.; O'Brien, E. P. A Newly Identified Class of Protein Misfolding in All-Atom Folding Simulations Consistent with Limited Proteolysis Mass Spectrometry. *bioRxiv* **2022**. https://doi.org/10.1101/2022.07.19.500586.