Dung T. Do

Contact Information	The Chemistry DepartmentPhone: 843-953The CitadelE-mail: ddo@ciByrd 417Charleston, SC29409	Phone: 843-953-7475 E-mail: ddo@citadel.edu	
Employment	Chemistry Department, The Citadel, SC Assistant Professor (Tenure-Track)	2022-current	
	• Rapid assembly of complex molecules and development of a new C-H activation paradigm		
	Department of Chemistry, Washington College, MD Visiting Assistant Professor	2021-2022	
	• Synthesis of 1,3-oxazolidines via oxidative dearomatization		
	School of Pharmacy, University of Connecticut, CT Postdoctoral Research Associate	2019-2021	
	• Development of a broad-spectrum inhibitor targeting the mo clinically relevant Human Herpesviruses (HHVs)	st	
	Department of Chemistry, Vietnam National University, H Assistant Professor	Ianoi 2016-2019	
	• Total synthesis of tetrahydrofuran-based natural products		
	• Asymmetric synthesis via stereoselective desymmetrization		
	Department of Chemistry, Indiana University, Bloomingto Postdoctoral Research Associate	n, IN 2014-2016	
	• Design and Synthesis of Biological Imaging Agents		
	• Direct Asymmetric α -Allylation of Aryl Acetic Acid Esters		
Education	University of North Carolina at Chapel Hill		
	Ph.D., Chemistry	2009-2014	
	Advisor: Jeffrey S. Johnson		
	• Dissertation: Stereoselective functionalization of Meldrum's and the efforts toward total synthesis of echinosporin	acids	
	Vietnam National University, Hanoi (VNUH)		
	M.S., Chemistry B.S., Chemistry	2004-2006 2000-2004	
Teaching Experience	Washington College, MD CHE 140: Reactions of Organic Molecules (2 sections) CHE 140: Reactions of Organic Molecules (lab)	Spring 2022	
	CHE 120: Chem Prin. of Organic Molecules CHE 120: Chem Prin. of Organic Molecules (lab) CHE 340: Synthesis of Organic Molecules	Fall 2021	
	Vietnam National University, Hanoi Organic Chemistry I, II; Asymmetric Synthesis Organic Chemistry I, II (lab); Medicinal Chemistry (lab)	2017-2019	

	Hanoi International School, HanoiInternational Baccalaureate (IB) Chemistry2016-2019		
Fellowships, Grants, and Awards	John S. Toll Student-Faculty Research Grant, Washington College2022The Pacifichem 2021 Early Career Chemist Grant2021Young Investigator Grant, Hanoi University of Science, VNUH2018-2019Graduate Assistantship, Department of Chemistry, UNC at Chapel Hill2009-2014Vietnam Education Foundation (VEF) Fellowship2009-2014Scholarship for Master's Program in Chemistry2004Scholarship for Outstanding Students, VNUH2001-2003Bronze Medal in National Olympic Chemistry for High School Students2000		
Publications	 Independent Publications (*corresponding author) 1. Dung T. Do*. "A Hidden Catalysis: Metal-, and Organocatalyst-free One-pot Assembly of Chiral Aza-tricyclic Molecules", 2021. ChemRxiv. Preprint. https://doi.org/10.26434/chemrxiv.12757943.v1 		
	 Hoang M. Le, Hung D. Mac, Oh Chang Ho, Dung T. Do[*]. "Total synthesis of lophirone F hexamethyl ether." European Journal of Organic Chemistry 2019, 13, 2362-2367. 		
	 Graduate and Postdoctoral Publications 1. M. Rodrigues, P. Bhattacharjee, A. Brinkmalm, D. T. Do, C. M. Pearson, S. De, A. Ponjavic, J. A. Varela, F. S. Ruggeri, I. Baudrexel, J. E. Lee, A. R. Carr, K. Kulenkampff, T. P. J. Knowles, H. Zetterberg, T. N. Snaddon, S. Gandhi, S. F. Lee, D. Klenerman. "Amyloid precipitation in biofluids using a structure-specific chemical antibody", Nature Chem. 2022, 14, 1045-1053. 		
	 Lisa-Maria Needham, Judith Weber, Colin M Pearson, Dung T Do, Felix Gorka, Guanpeng Lyu, Sarah Elizabeth Bohndiek, Thomas N Snaddon, Steven F Lee. "A Comparative Photophysical Study of Structural Modifications of Thioflavin T-Inspired Fluorophores", J. Phys. Chem. Lett. 2020, 11, 19, 8406-8416. 		
	 Lisa-Maria Needham, Judith Weber, Juan A Varela, James WB Fyfe, Dung T Do, Catherine K Xu, Luke Tutton, Rachel Cliffe, Benjamin Keenlyside, David Klen- erman, Christopher M Dobson, Christopher A Hunter, Karin H Muller, Kevin O'Holleran, Sarah E Bohndiek, Thomas N Snaddon, Steven F Lee. "ThX-a next- generation probe for the early detection of amyloid aggregates" Chem. Sci., 2020, 11, 4578-4583. 		
	 Lisa-Maria Needham, Judith Weber, James, W.B. Fyfe, Omaru M. Kabia, Dung T. Do, Ewa Klimont, Yu Zhang, Margarida Rodrigues, Christopher M. Dobson, Sonia Ghandi, Sarah E. Bohndiek, Thomas N. Snaddon, Steven F. Lee. "Bifunc- tional fluorescent probes for detection of amyloid aggregates and reactive oxygen species." R. Soc. open sci. 2018, 5, 171399-171410. 		
	 James Giarrusso, Dung T. Do, and Jeffrey S. Johnson. "Chemoselective and Di- astereoconvergent Cu(II)-Catalyzed Aerobic Endoperoxidation of Polycarbonyls." Org. Lett. 2017, 19 (12), 3107-3110. 		
	 Kevin J. Schwarz, Jessica L. Amos, J. Cullen Klein, Dung T. Do, and Thomas N. Snaddon. "Uniting C1-Ammonium Enolates and Transition Metal Electrophiles via Cooperative Catalysis: The Direct Asymmetric α-Allylation of Aryl Acetic Acid Esters" J. Am. Chem. Soc. 2016, 138, 5214-5217. 		
	 Goodman, C.G.; Do, D.; Johnson, J.S. "Asymmetric Synthesis of anti-β-Amino- α-Hydroxy Esters via Dynamic Kinetic Resolution of β-Amino-α-Keto Esters." Org. Lett. 2013, 15, 2446-2449. 		

8. Krabbe, S. W.; Do, D.; Johnson, J. S. "Cu(II)-Catalyzed Aerobic Hydroperoxidation of Meldrum's Acid Derivatives and Application in Intramolecular Oxidation: A Conceptual Blueprint for O2/H2 Dihydroxylation. Org. Lett. 2012, 14, 5932-5935. 9. Dung T. Do, Vinh V. Nguyen, Ha T. Nguyen, Thuan V. Nguyen, Huong T. Tran, Thao M. Nguyen. "The Synthesis and Transformation of some Derivatives of 3acetylcoumarin" Vietnamese Journal of Chemistry 2007, Vol 45 (3), 284-288. PRESENTATION 1. Vietnam Organic Synthesis Network (Virtual), "A metal-, and organocatalyst-free one-pot assembly of chiral azatricyclic fused-cyclohexenones", January 2022. 2. The Pacichem 2021 Congress (Virtual), "hidden catalysis: metal-, and organocatalyst- free one-pot assembly of chiral aza-tricyclic molecules" (Poster presentation), December 2021. 3. ACS Fall 2020 National Meeting (Virtual), "Metal- and Organocatalyst-free Onepot Assembly of Chiral Aza-tricuclic Molecules: Creating Six Contiguous Stereocenters from 2-D-flat Structures and an Amino Acid" (oral presentation), August 2020. 4. ACS Spring 2020 National Meeting (Virtual), "Oxidative Dearomatization: Onepot Synthesis of Chiral Sprioimidazolidinone Cylohexadienones from Amino Acid Chirons." (oral presentation), March 2020. 5. Hanyang University, South Korea, "Chiral Pool Synthesis: Building molecular complexity and Total synthesis of tetrahydrofuran-based natural products.", July **2018**. 6. Ibaraki University, Japan, "Amino Acids as a Chiral Pool: Synthesis of novel chiral spiroimidazolidinones.", Asian workshop of experiment and theory in quantum beam molecular sciences, June 2018. 7. Ibaraki University, Japan, "Bifunctional fluorescent probes for detection of amyloid aggregates and reactive oxygen species.", 3rd international symposium of quantum beam sciences, May 2018 (poster presentation). 8. Hanoi University of Science, VNUH, "Stereoselective functionalization of meldrum's acid derivatives"., December 2016. 9. Vanderbilt University Medical Center, "Hydroperoxidation of Meldrum's Acid Derivatives and Application in Stereoselective Access Fully Substituted Building Blocks.", May 2014. Mentorship • Washington College: mentored Senior Capstone research • *VNUH*: Advised undergraduate students' research • Indiana University: Trained and supervised PhD and undergraduate students in aldol reactions, phase transfer catalysis, and amide coupling. • UNC at Chapel Hill: Trained and supervised undergraduate students in Aldol reactions; synthesis of α -keto acids