

SCIENTIFIC CURRICULUM VITAE



I. Personal Information

Name	DUONG NGOC TOAN	
Gender	Female	
Date of birth	September 02, 1983	
Place of birth	Pho Yen Town – Thai Nguyen Province	
Homeland	Thai Nguyen City – Thai Nguyen Province	
Position	Secretary of the Union of Thai Nguyen University of Education, Head of Student Affairs Department.	
Degree	Doctor	Year: 2015 Major: Organic Chemistry
Scientific title		
Teaching subjects	Synthesis Organic Chemistry, Theory base of advanced organic chemistry, Organic Chemistry.	
Research area	Synthesis Organic Chemistry.	
Foreign Language	English	
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II. Qualifications

- 2005: B.Sc in Chemistry in Education, Thai Nguyen University of Education.
- 2008: M.Sc in Inorganic Chemistry, Thai Nguyen University of Education.
- 2015: Ph.D in Organic Chemistry, University of Natural Sciences – Viet Nam National University.

III. Scientific Publications

❖ Articles in international Journals

- [1] Nguyen Huu Dinh, Trinh Thi Huan, **Duong Ngoc Toan**, Peter Mangwala Kimpende, Luc Van Meervelt (2010), “Isolation, structure, and properties of a phenol-nitro

compound related to eugenoxycetic acid”, *Journal of Molecule Structure* (1980), pp.137-142.

[2] Yu. A. Sayapin, Nghia Bang Duong, E. A. Gusakov, I. V. Dorogan, V. V. Tkachev, V. S. Gorkovets, V. N. Komissarov, **Ngoc Toan Duong**, D. D. Nguyen, G. V. Shilov, S. M. Aldoshin, and V. I. Minkin (2016), “Synthesis and structure of 5,7-diisopropyl-2-(quinolin-2-yl)-1,3-tropolone derivatives ”, *Russian Chemical Bulletin, International Edition*, Vol.65, No.10, pp. 1-8.

[3] Yurii A. Sayapin, Alexandra A. Kolodin, Duong Nghia Bang, Evgeny A. Gusakov, Igor V. Dorogan, Vitaly N. Komissarov, Gennadii S. Borodkin, Valery V. Tkachev, **Duong Ngoc Toan**, Vu Dinh Hoang, Tran Dai Lam, Gennadii V. Shilov, Serguei M. Aldoshin, and Vladimir I. Minkin (2018), “Rearrangement of a 5,7-di-tert-butyl-2-(quinolin-2-yl)-1,3-tropolone into a pentalene derivative”, *Arkivoc*, Part V, 2018, pp. 164-173.

[4] Nguyen Dinh Thanh, Do Son Hai, Vu Thi Ngoc Bich, Pham Thi Thu Hien, Nguyen Thi Ky Duyen, Nguyen Thi Mai, Tran Thi Dung, Vu Ngoc Toan, Hoang Thi Kim Van, Le Hai Dang, **Duong Ngoc Toan**, Tran Thi Thanh Van (2019), Efficient click chemistry towards novel 1*H*-1,2,3-triazol-tethered 4*H*-chromene-*D*-glucose conjugates: Design, synthesis and evaluation of in vitro antibacterial, MRSA and antifungal activities, *European Journal of Medicinal Chemistry*, 167, pp. 454-471.

[5] Nguyen Dinh Thanh, Do Son Hai, Nguyen Thi Thu Ha, Do Tien Tung, Cao Thi Le, Hoang Thi Kim Van, Vu Ngoc Toan, **Duong Ngoc Toan**, Le Hai Dang (2019), Synthesis, biological evaluation and molecular docking study of 1,2,3-1*H*-triazoles having 4*H*-pyrano[2,3-*d*]pyrimidine as potential Mycobacterium tuberculosis protein tyrosine phosphatase B inhibitors, *Bioorganic & Medicinal Chemistry Letters*, 29, pp. 164-171.

[6] Nguyen Dinh Thanh, Do Son Hai, Vu Thi Ngoc Bich, Pham Thi Thu Hien, Nguyen Thi Ky Duyen, Nguyen Thi Mai, Tran Thi Dung, Hoang Thi Kim Van, Vu Ngoc Toan, Nguyen Hung Huy, Tran Thi Thanh Van, **Duong Ngoc Toan**, Le Hai Dang (2019)

Synthesis and structure of some substituted 2-amino-4-aryl-7-propargloxy-4H-chromene-3-carbonitriles, *Synthetic Communications*, (Print) 1532-2432.

[7] Nguyen Dinh Thanh, Do Son Hai, Vu Thi Ngoc Bich, Pham Thi Thu Hien, Nguyen Thi Ky Duyen, Nguyen Thi Mai, Tran Thi Dung, Hoang Thi Kim Van, Vu Ngoc Toan, **Duong Ngoc Toan** and Le Hai Dang (2019), Using Sodium Hydride and Potassium Carbonate as Bases in Synthesis of Substituted 2-Amino-4-aryl-7-propargyloxy-4H-chromene-3-carbonitriles, *Current Organic Synthesis*, Vol. 16, pp. 1-8.

[8] **Duong Ngoc Toan**, Nguyen Dinh Thanh, Mai Xuan Truong and Nguyen Minh Thao (2020), Synthesis of some 1H-1,5-benzodiazepine Series Containing Chromene Ring from α,β -Unsaturated Ketones of 6-Acetyl-5-Hydroxy-4-Methylcoumarin, (2020), *Current Organic Synthesis*, Vol. 17, pp. 1-7.

[9] **Duong Ngoc Toan**, Nguyen Dinh Thanh, Mai Xuan Truong, Dinh Thuy Van (2020), Quinoline-pyrimidine hybrid compounds from 3-acetyl-4-hydroxy-1-methylquinolin-2(1H)-one: Study on synthesis, cytotoxicity, ADMET and molecular docking, *Arabian Journal of Chemistry*, Vol. 13, pp. 7860-7874.

[10] **Duong Ngoc Toan**, Nguyen Dinh Thanh, Mai Xuan Truong, Duong Nghia Bang, Mai Thanh Nga, Nguyen Thi Thu Huong, Synthesis, cytotoxic activity, ADMET and molecular docking study of quinoline-based hybrid compounds of 1,5-benzothiazepine, *New Journal Chemistry* (2020), Vol. 44, pp. 20715-20725.

[11] Evgeniy A. Gusakov, Iuliia A. Topchu, Aleksandra M. Mazitova, Igor V. Dorogan, Emil R. Bulatov, Ilya G. Serebriiskii, Zinaida I. Abramova, Inna O. Tupaeva, Oleg P. Demidov, **Duong Ngoc Toan**, Tran Dai Lam, Duong Nghia Bang, Yanis A. Boumber, Yurii A. Sayapin and Vladimir I. Minkin, Design, synthesis and biological evaluation of 2-quinolyl-1,3-tropolone derivatives as new anti-cancer agents, *RSC Advances* (2021), Vol. 11, pp. 4555-4571.

❖ Articles in national Journals

[12] Hoang Thi Tuyet Lan, **Duong Ngoc Toan**, Nguyen Huu Dinh (2009), Synthesis of some hydrazide-hydrazone containing furoxane ring from isoeugenoxycetic acid, *Vietnam Journal of Chemistry*, Vol. 47 , No. 2A, pp. 105-109.

[13] Nguyen Minh Thao, **Duong Ngoc Toan**, Nguyen Van Nam, Nguyen Ngoc Thanh, Nguyen Thi Bao Yen (2011), Research, synthesis and metabolism of some ketones α,β -unsaturated from 3-acetyl-2-methylcromon, *Vietnam Journal of Chemistry*, Vol. 49 , No. 2ABC, pp. 656-664.

[14] Nguyen Minh Thao, Nguyen Ngoc Thanh, Nguyen Van Nam, Vu Thi Thuong, **Duong Ngoc Toan** (2011), Synthesis of some 2-amino-6-aryl-4- (4'-methylcumarin-3'-yl) pyrimidine derivatives from the α,β -unsaturated ketones, *Vietnam Journal of Chemistry*, Vol. 49 , No. 2ABC, pp. 665-669.

[15] **Duong Ngoc Toan**, Le Van Thuan, Nguyen Minh Thao (2012), Synthesis of some α,β -unsaturated ketones from 3-acetyl-2-methylbenzo [f] cromon, *Vietnam Journal of Chemistry*, Vol. 50 , No. 2, pp. 239-244.

[16] **Duong Ngoc Toan**, Nguyen Minh Thao (2012), Synthesis of some 2-aryl-4-(2'-hydroxyphenyl)-2,3-dihydro-1H-1,5-benzodiazepine, *Vietnam Journal of Chemistry*, Vol. 50 , No. 3, pp. 357-361.

[17] **Duong Ngoc Toan**, Nguyen Minh Thao (2012), Synthesis of some 5-aryl-3-(2'-hydroxyphenyl)-1- (4-nitrophenyl)-2-pirazoline derivatives, *Vietnam Journal of Chemistry*, Vol. 50 , No. 4, pp. 444-448.

[18] **Duong Ngoc Toan**, Ngo Thi Van, Chu Anh Van, Nguyen Thi Minh Thu, Nguyen Minh Thao (2012), Synthesis of some α,β -unsaturated ketones from 3-acetyl-4-methylbenzo[f]cumarin, *Vietnam Journal of Chemistry*, Vol. 50 , No. 4A, pp. 110-114.

[19] **Duong Ngoc Toan**, Nguyen Minh Thao (2012), Synthesis of some 2-aryl-4- (4'-methylcoumarin-3'-yl)-2,3-dihydro-1H-1,5-benzodiazepine, *Vietnam Journal of Chemistry*, Vol. 50 , No. 4A, pp. 100-104.

- [20] **Duong Ngoc Toan**, Nguyen Minh Thao (2012), Dương Ngọc Toàn, Nguyễn Minh Thảo (2012), Synthesis of some 2-amino-6-aryl-4-(5-hydroxy-4-methylcoumarin-6-yl)pyrimidine”, *Vietnam Journal of Chemistry*, Vol. 50 , No. 4A, pp. 105-109.
- [21] **Duong Ngoc Toan**, Nguyen Minh Thao, Nguyen Hong Huan (2012), Research on synthesis and some biological activity of 2-aryl-4- (5'-hydroxy-4'-methylcoumarin-6'-yl) -2,3-dihydro-1*H*-1,5-benzodiazepine, *Vietnam Journal of Chemistry*, Vol. 50 , No. 5A, pp. 131-135.
- [22] **Duong Ngoc Toan**, Nguyen Hong Huan, Nguyen Minh Thao, Nguyen Thi Minh Thu (2013), Synthesis of some 2-aryl-4- (5'-hydroxy-4'-methylcoumarin-6'-yl) -1,5-benzothiazepin, *Vietnam Journal of Chemistry*, Vol. 51 , No. 4, pp. 438-442.
- [23] Duong Ngoc Toan, Nguyen Minh Thao, Nguyen Thi Minh Thu, Nguyen Ngoc Thanh (2013), Synthesis of some 5-aryl-3-(4-methylcoumarin-3-yl)-1-(4-nitrophenyl)-3-pirazoline, *Vietnam Journal of Chemistry* , Vol. 51 , No. 1, pp. 91-95.
- [24] Duong Ngoc Toan, Nguyen Thi Minh Thu, Nguyen Minh Thao, Ta Van Dai (2013), Synthesis of some 2-aryl-4-(2'-hydroxyphenyl) -1,5-benzothiazepine, *Vietnam Journal of Chemistry*, Vol. 51 , No. 2ABC, pp. 292-295.
- [25] Nguyen Thi Minh Thu, Nguyen Minh Thao, Duong Ngoc Toan (2014), “Catalytic studies in the Fries displacement reaction of β -naphthyl acetate and the Claisen-Schmidt condensation reaction of 3-acetyl-4-methylbenzo [f] coumarin”, *VNU Journal of Sciences: Natural sciences and teachnology*, Vol. 30, No. 5S, pp. 393-398.
- [26]. Duong Ngoc Toan (2015), “Study on NMR spectra of some compounds 2-aryl-4-(5'-hydroxy-4'-methylcoumarin-6'-yl)-1,5-benzothiazepin”, *Journal of Analytical Sciences*, Vol. 20, No. 3, pp. 57-62.
- [27] Duong Ngoc Toan (2016), “Study on NMR spectra of some compounds 2-aryl-4-(4'-hydroxy-*N*-methylquinolin-2'-on-3'-yl)-2,3-dihydro-1*H*-1,5-benzodiazepin”, *Journal of Analytical Sciences*, Vol. 21, No. 4, pp. 75-80.

- [28] Duong Ngoc Toan, Tran Phuong Anh, Nguyen Minh Thao, (2017), Synthesis of some 2-amino-6-aryl-4-(4'-hydroxy-N-methylquinolin-2'-on-3'-yl)pyrimidine, *Vietnam Journal of Chemistry*, Vol. 56 (3), pp. 290-293.
- [29] Duong Ngoc Toan, Tran Phuong Anh (2017), Synthesis of some 2-aryl-4-(4'-hydroxy-N-methylquinolin-2'-on-3'-yl)-2,3- dihydro-1*H*-1,5-benzodiazepin, *The University of Da Nang Journal of Science and Technology* , Vol. 3 (112), pp. 30-33.
- [30] Duong Ngoc Toan, Nguyen Minh Thao, Nguyen Huu Quan (2017), The cytotoxic activity of a number of heterocyclic series of 2-pyrazolin, pyrimidine, benzodiazepine and synthetic benzothiazepine from o-hydroxyacetophenone and resoxinol, *Vietnam Journal of Chemistry*, Vol. 55 (4E23), pp. 202-206.
- [31] Duong Ngoc Toan, Nguyen Minh Thao, Nguyen Thi Hai Yen, (2017), Synthesis of some 2-aryl-4-(4'-hydroxy-N-methyl-2'-(1*H*)-quinolone-3'-yl)-1,5-benzothiazepine and 5-aryl-3-(4'-hydroxy-N-methyl-2'-(1*H*)-quinolone-3'-yl)-1-(4''-nitrophenyl)-2-pyrazoline, *Vietnam Journal of Chemistry*, Vol. 55 (5E34), pp. 339-344.
- [32] Duong Ngoc Toan, Lam Thi Thu (2018), Synthesis, cytotoxic activity of epithelial cancer of some α,β -unsaturated ketones from *p*-cresol, *TNU Journal of Scien and Technology*, Vol. 190, No. 14, pp. 55-59.
- [33] Dương Ngọc Toàn, Nguyễn Minh Thảo (2019), Synthesis of some α,β -unsaturated ketones from 6-acetyl-5-hydroxy-4-methylcoumarin, *TNU Journal of Scien and Technology*, Vol. 200, No. 07, pp. 215-221.
- [34] Duong Ngoc Toan, Asa Keoamphone (2019), Synthesis, cytotoxic activity of epithelial cancer of some benzothiazepine and 2-pyrazoline from *p*-resol, *Vietnam Journal of Chemistry*, Vol. 57 (4e3,4), pp. 150-154.
- [35] Nguyen Dinh Thanh, Tran Thij Thanh Van, Do Son Hai, Hoang Thi Kim Van, Vu Ngoc Toan, Duong Ngoc Toan (2019), Analysis of NMR spectra of 7-propargyloxy-2-amino-4*H*-chromene-3-carbonitriles, *Journal of Analytical Sciences*, Vol. 24, No. 4, pp. 96-101.

[36] Duong Ngoc Toan (2020), Synthesis of some α,β -unsaturated ketones from 3-acetyl-4-hydroxy-1-methylquinolin-2(1H)-on, *TNU Journal of Scien and Technology*, Vol. 225, No. 06, pp. 25-29.

[37] Duong Ngoc Toan, Le Minh Quy (2020), Synthesis of some 2-aryl-4-(4'-hydroxy-N-methyl-2'-(1H)-1-quinolone-3'-yl)-1,5,benzothiazepine from N-methylanilin, *TNU Journal of Scien and Technology*, 225(14), pp. 10-14.

IV. Research Grants/ Projects

❖ Ministry level

1. Project name: "Synthesis and test the biological activity of some new quinoline derivatives", Funding institution: MOET, B2019-TN-247. Processing.

2. Project name: "Study, synthesis, metabolism and biological activity of α, β -unsaturated ketones derived from acetylcumarin derivatives ", Funding institution: Thai Nguyen University, ĐH2012-TN04-09. Accepted in 2014 – good grade.

3. Project name: "Synthesis and study of the structure and biological activity of some nitrogen-containing heterocyclic compounds derived from aniline derivatives", Funding institution: Thai Nguyen University, ĐH2016-TN04-04. Accepted in 2020 – good grade.

V. Published Books

1. Organic Synthesis (2019), Thai Nguyen University Publishing House, Viet Nam.

VI. Supervisor (Master)

No	Name	Degree	Training organization	Guidance year	Graduation year
1	Tran Thi Phuong Anh	Master	Thai Nguyen University	2016	2017
2	Nguyen Thi Hai Yen	Master	Thai Nguyen University	2017	2018
3	Lam Thi Thu	Master	Thai Nguyen University	2018	2019
4	Asa Keoamphone	Master	Thai Nguyen University	2018	2019

5	Le Minh Quy	Master	Thai Nguyen University	2019	2020
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VII. Honors and Awards

+ 01 awarded the ministerial-level emulation soldier, 2018 (Decision No. 4832/QĐ-BGDĐT, November 09, 2018, of the Minister of Education and Training).

Thai Nguyen, September 10, 2020

Duong Ngoc Toan

