Van Tuan Tran

SCIENTIFIC CURRICULUM VITAE

1. Personal details

Full name: Van Tuan Tran

Year of birth: 1978

Institution: VNU University of Science, Vietnam National University Hanoi

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1. Qualifications

No	Years	Academic institutions	Major/ Specialty	Academic degree
1	08/1996-06/2000	VNU University of Science	Microbiology	Bachelor
2	10/2006-04/2011	Georg-August University of Gottingen	Molecular microbiology	PhD
3	2002-2004	VNU University of Science	Microbiology	Master

1. Professional experience

No	Years	Institution	Professional address	Position
1	01/2014-nay	VNU University of Science	334 Nguyen Trai, Thanh Xuan, Hanoi, Vietnam	Lecturer/research group leader
2	05/2011-07/2011	VNU University of Science	334 Nguyen Trai, Thanh Xuan, Hanoi, Vietnam	Lecturer
3	08/2011-12/2013	Georg-August University of Gottingen	Grisebachstr. 8, 37077, Gottingen, Germany	Postdoc

4	09/2000-08/2006	VNU University of Science	334 Nguyen Trai, Thanh Xuan, Hanoi, Vietnam	Lecturer
5	10/2006-04/2011	Georg-August University of Gottingen	Grisebachstr. 8, 37077, Göttingen, Germany	PhD student

1. **Language** (rating: A- Poor/ deficient; B- Fair; C- Sufficient; D- Fluent)

Language	Reading	Writing	Speaking
English	D	D	D
German	B	B	B

5. **Expertise and research interests**

5.1. **Main research orientation.**

Our main research focuses on exploitation of fungal genome databases and development of highly efficient systems for genetic transformation, homologous/heterologous gene expression and genome editing in order to create hyper-producing fungal strains (Aspergillus oryzae, Aspergillus niger, Penicillium chrysogenum, Cordyceps militaris, Myceliophthora thermophila, ...) for production of enzymes/proteins or bioactive substances. In addition, we are also interested in using modern biotechnological techniques to identify target genes as weapon of fungal pathogens (Penicillium digitatum, Fusarium oxysporum, ...) for plant infection and to produce antifungal biofertilizers (Bacillus, Trichoderma) for efficiently controlling these pathogens.

5.2. **List of research projects**

List all the research grants/ projects received the last 5 years.

No	**Project name**	**Funding institution & funded amount**	**Project duration**	**Position/ role in the project**
1	Development and application of novel binary vectors for genetic engineering of filamentours fungi by using Agrobacterium-mediated gene transfer, code: 106-	National Foundation for Science and Technology Development (NAFOSTED)	03/2015-03/2018	Principal Investigator

	NN.04-2014.75			
2	Construction of a vector system for gene expression to improve efficacy of enzyme biosynthesis in the filamentous fungus Aspergillus oryzae, code: KLEPT.14.01	Ministry of Science and Technology, Vietnam National University Hanoi	07/2014-07/2016	Principal Investigator

5.3. **Publications and accomplishments**

No	Authors	Year	Publications	Name of publishers/ No, Vol, Page	ISSN/ISBN	Proof (*)	Notes
1	Article(s) in ISI-covered journals						
1.1	Nguyen KT, Ho QN, Do LTBX, Mai LTD, Pham DN, Tran HTT, Le DH, Nguyen HQ, Tran VT	2017	A new and efficient approach for construction of uridine/uracil auxotrophic mutants in the filamentous fungus Aspergillus oryzae using Agrobacterium tumefaciens-mediated transformation	World Journal of Microbiology and Biotechnology/Springer	0959-3993	Yes	Impact factor: 1.66
1.2	Vu TX, Ngo TT, Mai LTD, Bui TT, Le DH, Bui HTV, Nguyen HQ, Ngo BX, Tran VT	2017	A highly efficient Agrobacterium tumefaciens-mediated transformation system for the postharvest pathogen Penicillium digitatum using DsRed and GFP to visualize citrus host colonization	Journal of Microbiological Methods	0167-7012	Yes	Impact factor: 1.79
1.3	Nguyen KT, Ho QN,	2016	The construction and use of versatile binary vectors	World Journal of Microbiology and	0959-3993	Yes	Impact

	Pham TH, Phan TN, Tran VT		carrying pyrG auxotrophic marker and fluorescent reporter genes for Agrobacterium-mediated transformation of Aspergillus oryzae	Biotechnology/Springer			factor: 1.66
1.4	Lin CJ, Sasse C, Gerke J, Valerius O, Irmer H, Frauendorf H, Heinekamp T, Strassburger M, Tran VT, Herzog B, Braus-Stromeyer SA, Braus GH	2015	Transcription Factor SomA Is Required for Adhesion, Development and Virulence of the Human Pathogen Aspergillus fumigatus	PLOS Pathogens	1553-7366	Yes	Impact factor: 6.61
1.5	Tran VT, Braus-Stromeyer SA, Kusch H, Reusche M, Kaever A, Kühn A, Valerius O, Landesfeind M, Aßhauer K, Tech M, Hoff H, Pena-Centeno T, Stanke M, Lipka V and Braus GH	2014	Verticillium transcription activator of adhesion Vta2 suppresses microsclerotia formation and is required for systemic infection of plant roots	New Phytologist	1469-8137	Yes	Impact factor: 7.33
1.6	Reusche M,	201	Infections with the	Environmental	0098-	Yes	Impa

	Truskina J, Thole K, Nagel L, Rindfleisch S, Tran VT, Braus-Stromeyer SA, Braus GH, Teichmann T, Lipka V	4	vascular pathogens Verticillium longisporum and Verticillium dahliae induce distinct disease symptoms and differentially affect drought stress tolerance of Arabidopsis thaliana	and Experimental Botany	8472		ct factor: 4.37
1.7	Hoppenau CE, Tran VT, Kusch H, Aßhauer K, Landesfeind M, Meinicke P, Popova B, Braus-Stromeyer SA, and Braus GH	2014	Verticillium dahliae VdTHI4, involved in thiazole biosynthesis, stress response and DNA repair functions, is required for vascular disease induction in tomato	Environmental and Experimental Botany	0098-8472	Yes	Impact factor: 4.37
1.8	Tran VT, Braus-Stromeyer SA, Timpner C, Braus GH	2013	Molecular diagnosis to discriminate pathogen and apathogen species of the hybrid Verticillium longisporum on the oilseed crop Brassica napus	Applied Microbiology and Biotechnology	0175-7598	Yes	Impact factor: 3.42
1.9	Timpner C, Braus-Stromeyer SA, Tran VT, Braus GH	2013	The Cpc1 regulator of the cross-pathway control of amino acid biosynthesis is required for pathogenicity of the vascular pathogen Verticillium longisporum	Molecular Plant-Microbe Interactions	0894-0282	Yes	Impact factor: 4.33
1.10	Singh S, Braus-Stromeyer SA, Timpner C,	2010	Silencing of Vlaro2 for chorismate synthase revealed that the phytopathogen Verticillium longisporum	Applied Microbiology and Biotechnology	0175-7598	Yes	Impact factor: 3.42

	Tran VT, Lohaus G, Reusche M, Knüfer J, Teichmann T, von Tiedemann A, Braus GH		induces the cross-pathway control in the xylem				
2	Article(s) in other international journals						
3	National/International Conference(s)						
3.1	Tran Van Tuan	2016	A new approach for construction of the auxotrophic mutants in the filamentous fungus Aspergillus oryzae by using Agrobacterium-mediated transformation	The 1st International Conference on Applied Microbiology (ICAM-VN 2016, http://icam-vn.com/)		Yes	
3.2	Tran VT, Braus-Stromeyer SA, Kusch H, Reusche M, Kaever A, Kühn A, Valerius O, Landesfeind M, Aßhauer K, Tech M, Hoff H, Pena-Centeno T, Stanke M, Lipka V and Braus GH	2014	Verticillium transcription activator of adhesion Vta2 suppresses microsclerotia formation and is required for systemic infection of plant roots	BioFung Seminar "Advances in Verticillium Research" in Göttingen February 11th 2014		Yes	
3.3	Tran VT, Braus-Stromeyer SA, Timpner C,	2013	Molecular diagnosis based on the VTA2 barcode marker to discriminate the hybrid lineages of Verticillium longisporum on the oilseed crop	11th International Verticillium Symposium, Göttingen, Germany		No	

	Braus GH		Brassica napus				
3.4	Braus-Stromeyer SA, Tran VT, Timpner C, Braus GH	2012	The interaction of the plant-pathogen Verticillium longisporum and its host Brassica napus and insights into the evolutionary origin of the fungal hybrid	11th European Conference on Fungal Genetics, Marburg, Germany		No	
3.5	Tran VT, Braus-Stromeyer SA, Braus GH	2009	Fungal adhesion to plants – the first step of early infection and systemic colonization of Brassica napus by Verticillium longisporum	10th International Verticillium Symposium, Corfu Island, Hellas, Greece		No	
4	Article(s) in national scientific journals						
4.1	Ho Ngoc Quynh, Nguyen Thi Khuyen, Tran Thi Phuong, Tran Van Tuan	2017	Expression of the fluorescent reporter genes GFP and DsRed in Aspergillus oryzae VS1 strain using Agrobacterium tumefaciens-mediated transformation.	Tap chi Sinh hoc	0866-7160	Yes	
4.2	Van Tuan Tran, Thi Binh Xuan Loc Do, Thi Khuyen Nguyen, Xuan Tao Vu, Bich Ngoc Dao, Hoai Ha Nguyen	2017	A simple, efficient and universal method for the extraction of genomic DNA from bacteria, yeasts, molds and microalgae suitable for PCR-based applications	Vietnam Journal of Science, Technology and Engineering	2525-2461	Yes	
4.3	Đỗ Thị Bình Xuân Lộc, Trần Văn Tuấn	2017	Xác định đặc điểm sinh học và bước đầu nghiên cứu chuyển gen vào chủng nấm mốc Aspergillus niger TL8 phân lập được tại Việt Nam	Tạp chí Khoa học ĐHQGHN: Khoa học Tự nhiên và Công nghệ	2588-1140	Yes	
4.4	Vũ Xuân Tạo, Trần	2017	Xác định đặc điểm sinh học và bước đầu nghiên	Tạp chí Khoa học ĐHQGHN: Khoa	2588-1140	Yes	

	Văn Tuấn		cứu chuyển gen vào nấm sợi Penicillium chrysogenum có nguồn gốc Việt Nam	học Tự nhiên và Công nghệ			
4.5	Nguyen Thi Thanh Mai, Mai Thi Dam Linh, Nguyen Phuong Thu, Tran Van Tuan	2016	Identification of a new Candida tropicalis yeast strain possessing antagonistic activity against the spoilage bacteria isolated from the fermented vegetable products	VNU Journal of Science: Natural Sciences and Technology	0866-8612	Yes	
4.6	Nguyễn Thị Khuyến, Võ Thị Hạnh, Phạm Thị Hiển, Mai Thị Đàm Linh, Trần Đức Long, Trần Thị Thùy Anh, Trịnh Tất Cường, Trần Văn Tuấn	2015	Cải tiến phương pháp tách chiết ADN từ nấm sợi phục vụ chẩn đoán phân tử phân biệt Aspergillus oryzae với Aspergillus flavus	Tạp chí Khoa học ĐHQGHN: Khoa học Tự nhiên và Công nghệ	0866-8612	Yes	
5	Others (monographs, patents, scientific awards…)						

Hanoi, 21/12/2017