

CURRICULUM VITAE



Full name: **LE QUOC TUAN**
Date of birth: November 12, 1972.
Place of birth: Hue - Viet Nam
Sex: Male
Place of work: Faculty of Environment and Natural Resources
Nong Lam University, Ho Chi Minh City, Viet Nam
Address in Vietnam: 51/11 St. 24, Cell 7, Linh Dong Ward, Thu Duc Dist.,
Ho Chi Minh City, Vietnam
Phone: 84.8.37220291 Fax: 84.8.38960713
Mobile: 0918 284 010 (in Vietnam)
E-mail: quoctuan@hcmuaf.edu.vn quoctuanenvi@yahoo.com

1. EDUCATION

- ✧ From 1992 to 1996: Student in Faculty of Science – Hue, on Biology.
Received diploma: Bachelor degree in 1996
- ✧ From 1996 to 1999: specialized and deep study in Faculty of Science – Hue,
on Biochemistry.
Received diploma: Master degree in 1999
- ✧ From October 2004 – 2008: PhD candidate in Osaka University, Japan in
English taught program
Graduation, Sept. 2008. Doctor of philosophy in Engineering
Major: Chemical Engineering and Environment

2. PROFESSIONAL ACTIVITY AND EXPERIENCE

- ✧ 1996-1997: Training course in Biotechnology Institute of National Center for
Natural Science and Technology in Hanoi. Study on Application Processes of
wastewater treatment by biological methods. During 1 year.
- ✧ 1997-1999: Work for Lagoon Project between the Faculty of Science - Hue
and The Region Nord Pas de Calais, France. Work for Biodiversity Group of
the Faculty of Science as a researcher.
- ✧ Sept. – Nov., 2000: Training course on wastewater treatment in France.
- ✧ 2001 – 2004: Work for Nong Lam University (University of Agriculture and
Forestry) in Faculty of Environmental Technology.
- ✧ June, 2003: University Network for Wetland Training in the Mekong Region,
Wetland Ecology and Management in the Lower Mekong Basin.
- ✧ 2004 – 2008: PhD candidate at Osaka University, Japan; Specialize in
Chemical Engineering (Dept. of Chemical Science and Engineering)

- ✧ 2005 – 2006: Participate in “21st Center of Excellence” Project of Ecochemistry in Osaka University, Japan as a research assistant
- ✧ 2007 – 2008: Participate in “Global Center of Excellence” Project of Bio-Environmental Chemistry in Osaka University, Japan as a research assistant.
- ✧ 2008 – Now: Work for Nong Lam University, HCMC – VIETNAM as a lecturer.

3. FOREIGN LANGUAGE

- ✧ English: 550 in Toefl test (good in usage)
- ✧ French: C degree (fair in usage)

4. INFORMATION

- ✧ Windows, WinWord, Excel, CorelDraw and Pascal

5. HOBBIES

- ✧ Football, Martial Art

6. WORKABLE FIELDS

- ✧ Environmental Toxicology (Specialized in Arsenic and heavy metals)
- ✧ Biochemical Processes (Oxidative Stress and Response)
- ✧ Wetland and Constructed Wetland in Wastewater Treatment
- ✧ Environmental Microbiology
- ✧ Environmental Biotechnology in Wastewater Treatment

LIST OF PUBLICATIONS

Papers

1. Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, and Ryoichi Kuboi, Liposome can Act like Molecular and Metal Chaperones for Oxidized and Fragmented Superoxide Dismutase. *Enzyme and Microbial Technology*, **44**, 101 - 106 (2009).
2. Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, and Ryoichi Kuboi, Liposome-Recruited Activity of Oxidized and Fragmented Superoxide Dismutase. *Langmuir*, **24**, 350–354 (2008).
3. Le Quoc Tuan, Tran Thi Thanh Huong, Pham Thi Anh Hong, Tomonori Kawakami, Toshinori Shimanouchi, Hiroshi Umakoshi, and Ryoichi Kuboi, Arsenic (V) Induces a Fluidization of Algal Cell and Liposome Membranes. *Toxicology in Vitro*, **22**, 1632–1638 (2008).
4. Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, and Ryoichi Kuboi,

Characterization of Oxidized and Fragmented Superoxide Dismutase Recruited on Liposome Surface. *Membrane*, **33**, 173–179 (2008).

5. Hiroshi Umakoshi, Le Quoc Tuan, Kengo Morimoto, Yuji Ohama, Toshinori Shimanouchi, and Ryoichi Kuboi, Superoxide Dismutase-like Activity of Liposomes Modified with Dodecanoyl His with Metal Ions. *Membrane*, **33**, 180–187 (2008).
6. Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, and Ryoichi Kuboi, Liposome can Convert Oxidized and Fragmented Superoxide to Catalase Mimics. Submitted (2008).
7. Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, and Ryoichi Kuboi, Recognition and Folding of Oxidized and Fragmented Superoxide Dismutase by Liposome Membrane. Submitted (2008).
8. Tran Thi Thanh Huong, Le Quoc Tuan, Pham Thi Anh Hong, Fluidization of Bio-membrane by Arsenic Toxicity. *J. Ecotechnology Research*, **12**, 227-228 (2006)
9. Le Quoc Tuan, Tran Thi Thanh Huong, Bui Xuan An, and Tomonoki Kawakami, Application of Wastewater Treatment System with Vetiver Grass as a Cost Effective Method in Vietnam. *J. Ecotechnology Research*, **11**, 131-135 (2005).
10. Le Quoc Tuan, Le Thi Lan Thao, Chau Tan Hung, Study on Domestic Wastewater Treatment by Drainage Technique, *J. Agr. Sci. Technol.*, **3**, 97-102 (2004).
11. Pham Hong Duc Phuoc, Duong Thanh Lam, and Le Quoc Tuan, Vetiver Grass: Dynamic and Multipurpose. *J. Agr. Sci. Technol.*, **2**, 138-143 (2003).
12. Le Quoc Tuan and Pham Minh Thinh, Assessing the Water Quality of Several Cultivated Ponds to Propose Some Natural Treatment Methods for Improving Qualifiedly Aquatic Ponds and Protecting Environment. *J. Agr. Sci. Technol.*, **3**, 121-124 (2002).
13. Pham Ngoc Van Anh, Pham Hong Duc Phuoc, and Le Quoc Tuan, Vetiver Grass (*Vetiveria zizanioides* L.): A New Biological Solution in Wastewater Treatment. *J. Agr. Sci. Technol.*, **1**, 1-5 (2002).
14. Le Quoc Tuan, Capability of Two Aquatic Plant Species in Purifying Water in Aquarium System. *J. Agr. Sci. Technol.*, **1**, 119-123 (2002).
15. Ton That Phap, Luong Quang Doc, and Le Quoc Tuan, Distribution of Aquatic Plants in Thua Thien – Hue Lagoons. *J. Sci. Technol. Env.*, **1**, 45-51 (2001).
16. Le Quoc Tuan and Tran Van Nhi, The Removal Capability of NH_4^+ , NO_3^- and PO_4^{3-} by Several Aquatic Plants. *Biotechnol. Bull.*, **2**, 356-365 (2000).

Proceedings

1. Le Quoc Tuan, Nguyen Tran Lien Huong (2003). Accessing water quality conditions in shrimp farming areas to propose some natural methods of wastewater treatment. Proceedings of Conference of Science and Technology in Central and West Highland Areas. **7**, 451 – 457.
2. Le Quoc Tuan, Tran Thi Thanh Huong (2003). Application of the aquatic plants to the aquarium with the purpose of treating wastewater. Proceedings of Conference of Sci. Technology in Central and West Highland Areas. **7**, 351 – 357.
3. Le Quoc Tuan, Bui Xuan An, Makiko Doi (2004). The situation of solidwaste management in Ho Chi Minh City, Vietnam. Proceedings of APLAS Kitakyushu, JAPAN.
4. Le Quoc Tuan, Vu Thi Thanh Giang (2004). Isolating, propagating and checking characteristics of some methane-oxidizing bacterial strains. VJSE2004, Osaka University, JAPAN.

5. Le Thi Lan Thao, Chau Tan Hung, Nguyen Thi Bich Phuong, Nguyen Thien Di, Le Quoc Tuan (2004). Experimental study on domestic wastewater treatment by drainage technique. Proceedings of Youth Conference of Science, Nong Lam University, VIETNAM. 4, 189 – 193.
6. Le Quoc Tuan, Tran Thi Thanh Huong, Bui Xuan An (2005). Drainage Application for Treatment of Domestic Wastewater. Proceedings of the 12th Asian Symposium on Ecotechnology, Northeastern Univ., CHINA.
7. Le Quoc Tuan, Hiroshi Umakoshi, Ryoichi Kuboi (2005). Using Solid Phase Extraction (SPE) and High Performance Liquid Chromatography (HPLC) to separate and determine lipids from aquatic plants. BINDEC2005.
8. Le Quoc Tuan, Hiroshi Umakoshi, Ryoichi Kuboi (2005). Detecting lipid composition extracted from aquatic plant cell by solid phase extraction (SPE) and high performance liquid chromatography (HPLC) methods. COEIEC7, Hawaii, USA.
9. Le Quoc Tuan, Kien Xuan Ngo, Hiroshi Umakoshi, Toshinori Shimanouchi, and Ryoichi Kuboi (2005). Preparation and Characterization of Intracellular Organelle Mimetic Membrane. PACIFICHEM2005, Hawaii, USA.
10. Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, and Ryoichi Kuboi (2006). LIPOzyme: Liposome-Recruited Activity of SOD at High Concentration of Hydrogen Peroxide. Membrane Stress Biotechnology Symposium, JAPAN.
11. Le Quoc Tuan, Hiroshi Umakoshi, Ryoichi Kuboi (2006). Effect of light on removal ability of arsenic by cell membrane. The 6th International Symposium on Advanced Environmental Monitoring. Heidelberg, GERMANY.
12. Le Quoc Tuan, Tran Thi Thanh Huong, Hiroshi Umakoshi, Ryoichi Kuboi (2006). Toxic effect of arsenic (As) on Biomembrane. The International Workshop on Biotechnology and Environment. Ho Chi Minh City, VIETNAM.
13. Le Quoc Tuan, Hiroshi Umakoshi, Ryoichi Kuboi (2006). Design and development of oxidative stress responsive liposome membrane with the enzymatic activity (LIPOzyme) and its application to chemical biosensor. The 6th General Seminar of the Core University Program, Kumamoto, JAPAN.
14. Le Quoc Tuan, Hideto Nagami, Hiroshi Umakoshi, Ryoichi Kuboi (2006). Liposome-assembled Activity of SOD under Strong Oxidative Stress. VJSE2006 Kobe University, JAPAN.
15. Hiroshi Umakoshi, Le Quoc Tuan, Toshinori Shimanouchi and Ryoichi Kuboi (2007). Antioxidative LIPOzyme: Liposome Can Recruit Re-Activity of Oxidized and Fragmented SOD. AACHEN2007, Osaka, JAPAN.
16. Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, Ryoichi Kuboi (2007). Membrane can refold oxidized and fragmented superoxide dismutase. TJSE2007, Osaka Univ., JAPAN
17. Le Quoc Tuan, Hideto Nagami, Hiroshi Umakoshi, Toshinori Shimanouchi, Ryoichi Kuboi (2007). LIPOzyme: Liposome-Recruited Activity of SOD at High Concentration of Hydrogen Peroxide. The 5th Membrane Stress Biotechnology Symposium, Osaka, JAPAN.
18. Le Quoc Tuan, Tran Thi Thanh Huong, Pham Thi Anh Hong, Tomonori Kawakami, Hiroshi Umakoshi, Toshinori Shimanouchi, Ryoichi Kuboi. Partitioning of Arsenic (V) on Biomembrane. Solvent Extraction Symposium in Kitakyushu, JAPAN (2007)
19. Le Quoc Tuan, Hiroshi Umakoshi, Tomonori Shimanouchi, Ryoichi Kuboi (2008). Membrane refolds and reactivates oxidized and fragmented superoxide dismutase.

The 1st International Global COE Symposium on Bio-Environmental Chemistry, Osaka, JAPAN.

20. Le Quoc Tuan, Hiroshi Umakoshi, Tomonori Shimanouchi, Ryoichi Kuboi (2008). Arsenic and membrane toxicity. Seminar on arsenic contamination in Mekong Delta. Miyazaki University, JAPAN
21. Le Quoc Tuan, Hiroshi Umakoshi, Tomonori Shimanouchi, Ryoichi Kuboi (2008). Preparation and characterization of antioxidative LIPOzyme. JSPS-SNSF International Seminar on Membranomics. Osaka University, JAPAN.
22. Le Quoc Tuan, Tran Thi Thanh Huong, Pham Thi Anh Hong, Toshinori Shimanouchi, Hiroshi Umakoshi, Ryoichi Kuboi (2008). Study on the adsorptive ability of arsenic by cell membrane. The 6th Scientific Conference of University of Natural Sciences, VNU-HCMC, VIETNAM.

Ho Chi Minh City, 22 August 2009

Le Quoc Tuan