CURRICULUM VITAE

1. BIODATA

Full name: Nguyen Thi Phi Oanh

Position: Senior lecturer, head of the Cellular and Molecular Biology Laboratory, Department of Biology, College of Natural Sciences, Can Tho University, Vietnam

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2. EDUCATIONAL BACKGROUND

- Bachelor of Science in Biology, Can Tho University, Vietnam
- Master of Science in Molecular Biology, KU Leuven, Belgium
- Doctor of Bioscience Engineering, KU Leuven, Belgium (2014)

3. PUBLICATIONS

1. Tran Quoc Tuan, Panji Cahya Mawarda, Norhan Ali, Arne Curias, **Nguyen Thi Phi Oanh**, Nguyen Dac Khoa and Dirk Springael. Niche-specification of microbial aerobic 2,4-dichlorophenoxy acetic acid (2,4-D) biodegradation in the rice paddy system. Appl Environ Microbiol. Submitted 03/2024.
2. Nguyen Van Qui, Le Thi Tuyet Minh, Vo Phat Tai, Pham Anh Tuan, Chau Tu Uyen, Nguyen Manh Khuong, Nguyen Dac Khoa and **Nguyen Thi Phi Oanh** (2024). Selection of suitable carrier for preservation of sodium tripolyphosphate absorbing *Comamonas* sp. PAN1.12. J Can Tho Univ 60(1A): 28-37.
3. Huynh Ngoc Truc Phuong, Nguyen Thanh Trieu, Ly Kim Han, Vo Phat Tai and **Nguyen Thi Phi Oanh** (2024). Isolation of bacteria capable of converting glucose to gluconic acid. J Can Tho Univ 60(1A): 55-62.
4. Pham Anh Tuan, Tran Ngoc Que Linh, Vo Phat Tai, Nguyen Dac Khoa and **Nguyen Thi Phi Oanh** (2024). Isolation of sulfide absorbing bacteria from seafood processing wastewater. J Can Tho Univ 60(1A): 63-70.
5. Truong Vu Luan, Nguyen Thi Khanh Lam, Nguyen Dac Khoa and **Nguyen Thi Phi Oanh** (2024). Isolation of ammonium absorbing bacteria in seafood processing wastewater. J Can Tho Univ 60(1B): 86-96.
6. Chau Tu Uyen, Nguyen Van Qui, Vo Phat Tai, Nguyen Thi Phuong Lien, Huynh Doan Kieu Anh and **Nguyen Thi Phi Oanh** (2023). Isolation of bacteria from seafood processing wastewater capable of absorption and chemotaxis towards sodium tripolyphosphate. J Can Tho Univ 59(6A): 34-43.
7. **Nguyen Thi Phi Oanh**, Vo Phat Tai, Nguyen Ngoc Man, Bui Doan Thanh Truong, Le Thi Thuy Duong and Do Thi Kim Tro (2022). Optimal culture conditions for the degradation of benzene, toluene and xylene (BTX) by *Rhodococcus* sp. XL6.2. J Can Tho Univ 58(4A): 55-61.
8. **Nguyen Thi Phi Oanh**, Vo Phat Tai, Nguyen Ngoc Man, Nguyen Van Qui, Chau Tu Uyen, Nguyen Hoang Khoa and Nguyen Dac Khoa (2022). Selection of carrier material for storing *Rhodococcus* sp. XL6.2 capable of degrading benzene, toluene and xylene. J Can Tho Univ 58(4A): 62-70.
9. **Nguyen Thi Phi Oanh**, Vo Phat Tai and Nguyen Thi Kim Ngan (2021). Isolation of bacterial strains capable of chemotaxis towards and biosorption of lead. Proceedings of Vietnam National Conference on Biotechnology, 988-992.

10. **Thi Phi Oanh Nguyen**, Martin Asser Hansen, Lars Hestbjerg Hansen, Horemans Benjamin, Soren Sorensen, René De Mot and Dirk Springael (2019). Intra- and inter-field diversity of 2,4-dichlorophenoxyacetic acid-degradative plasmids and their *tfd* catabolic genes in rice fields of the Mekong delta in Vietnam. FEMS Microbiol Ecol 95(1), PMID: 30380047.
11. **Nguyen Thi Phi Oanh** and Nguyen Thi Truc Mai (2019). Isolation of nitrite transforming bacteria in shrimp ponds in Bac Lieu. J Can Tho Univ 55(6B): 75-81.
12. Bui Nhi Binh and **Nguyen Thi Phi Oanh** (2019). Isolation and identification of fenobucarb degrading bacteria in rice paddy soils. J Can Tho Univ 55(6A): 9-17.
13. Vo Phat Tai and **Nguyen Thi Phi Oanh** (2019). Isolation and selection of benzene, toluene and xylene degrading bacteria of sediment from wastewater tank of a petroleum refining plant. J Can Tho Univ 55(5): 18-23.
14. **Nguyen Thi Phi Oanh** and Nguyen Vu Bich Trieu (2017). Isolation of xylene-degrading bacteria from a wastewater treatment system. J Can Tho Univ 52a: 99-103.
15. Başak Öztürk, Ghequire Maarten, **Nguyen Thi Phi Oanh**, De Mot René, Wattiez Ruddy and Springael Dirk (2016). Expanded insecticide catabolic activity gained by a single nucleotide substitution in a bacterial carbamate hydrolase gene. Environ Microbiol 18(12): 4878-4887.
16. **Nguyen Thi Phi Oanh**, De Mot René and Springael Dirk (2015). Draft genome sequence of the carbofuran-mineralizing *Novosphingobium* sp. KN65.2. Genome Announcements 3(4): e00764-15.
17. **Thi Phi Oanh Nguyen**, Damian E. Helbling, Karolien Bers, Tekle T. Fida, Ruddy Wattiez, Hans-Peter E. Kohler, Dirk Springael and René De Mot (2014). Genetic and metabolic analysis of the carbofuran catabolic pathway in *Novosphingobium* sp. KN65.2. Appl Microbiol Biotechnol 98(19): 8235-8252.

5. RESEARCH PROJECTS

1. Selection of sodium tripolyphosphate (STPP) accumulating bacteria and production of bioformulations for STPP treatment in waste water from aquacultural product processing plants in Soc Trang, Vietnam (funded by the Department of Science and Technology of Soc Trang Province, Vietnam, 2022-2025, PI).
2. Production of *Rhodococcus* sp. formulation capable of degrading aromatic hydrocarbons in waste water (funded by the Department of Science and Technology of Can Tho City, Vietnam, 2020-2022, PI).
3. Isolation of nitrite transforming bacteria in aquaculture ponds (funded by Can Tho University, 2018-2019, PI).
4. Isolation of bacteria from a laboratory wastewater treatment system capable of degrading aromatic compounds (funded by Can Tho University, 2016-2017, PI).
5. Genetic assessment of pesticide-degrading bacterial communities in the Mekong delta, Vietnam (funded by the IFS, Sweden, 2009-2011, PI).

6. SUPERVISION OF MASTER AND PhD STUDENTS

Promotor of 40 Bachelor and 16 Master students successfully defended. Currently, promotor of 10 Bachelor and 05 Master students; co-promotor of 02 PhD students studying the sandwich program at KU Leuven, Belgium and working for the joint research projects on (i) niche-specification of aerobic pesticide biodegradation in rice paddy ecosystem (2021-2024) and (ii) distribution and genetic cargo of bacterial mobile genetic elements along the Mekong river ecosystem as affected by anthropogenic activities (2022-2025).