**Pham Trung Hieu**

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**About me**

I am interested in aquaculture and how to keep aquatic animals healthy under cultural conditions. During the last five years, I have been focused on fish immunology, what happened in fish after vaccination and how vaccines can protect fish from infectious diseases. I am passionate about applying novel technology platforms to develop a new generation of vaccines (RNA/DNA vaccine, recombinant vaccine) for fish.

**Qualifications**

2016 - 2021: PhD in Fish vaccination, National Pingtung University of Science and Technology, Taiwan

2008 - 2012: Master of Science, Nha Trang University, Vietnam and Burapha University, Thailand

2003 - 2008: Bachelor’s Degree in the field of Aquaculture, Nha Trang University, Vietnam

**Employment**

June 2015 - present: Senior Researcher at the Department of Biotechnology, Institute of Veterinary Research and Development of Central Vietnam

Feb 2011 - May 2015: Researcher at the Department of Bacteriology, Institute of Veterinary Research and Development of Central Vietnam

**Research expertise**

Aquatic animal health, Disease diagnosis, Fish immunology and vaccine development, Bacteriology, Virus isolation.

**Languages**

* Vietnamese (native)
* English (fluent)

**Projects**

During my time working at in Institute of Veterinary Research and Development of Central Vietnam, I have been involved in several projects, including:

1. Developing inactivated vaccine against *Vibrio harveyi*, *V. vulnificus* *and Streptococcus iniae* for barramundi (*Lates calcarifer*) (**Senior researcher**, 2021 – present)
2. Diseases caused by Lates Calcarifer Herpes Virus (LCHV) in barramundi (*Lates calcarifer*) cultured in Khanh Hoa, (**Senior researcher**, 2021 – present)
3. Isolation of Infectious Spleen and Kidney Necrosis Virus (ISKNV) in barramundi (*Lates calcarifer*), (**Senior researcher**, 2021 – present)
4. Characterizations of granulomatous disease caused by *Nocardia seriolae* in cultured snubnose pompano *Trachinotus blochii* in Vietnam, (**Researcher**, 2013 – 2016)
5. The prevalence of Salmonella Serovars from Poultry and Swine Farms in Central Vietnam, (**Researcher** and **Project Administrative Assistant**, 2012-2015)
6. The prevalence of Leptospira Serovars in Pig in Central Vietnam, (**Researcher** and **Project Administrative Assistant**, 2011-2015)

**Publications**

**Journal articles**

1. Lettini AA, Vo Than T, Marafin E, Longo A, Antonello K, Zavagnin P, Barco L, Mancin M, Cibin V, Morini M, Dang Thi Sao M, Nguyen Thi T, **Pham Trung H**, Le L, Nguyen Duc T, Ricci A. (2016). Distribution of Salmonella Serovars and Antimicrobial Susceptibility from Poultry and Swine Farms in Central Vietnam. Zoonoses and Public Health, 63(7), 569–576. <https://doi.org/10.1111/zph.12265>
2. **Pham, T. H.,** Cheng, T.-C., Wang, P.-C., & Chen, S.-C. (2021). Protective efficacy of four heat-shock proteins as recombinant vaccines against photobacteriosis in Asian seabass (*Lates calcarifer*). Fish & Shellfish Immunology, 111, 179–188. <https://doi.org/10.1016/j.fsi.2021.02.002>
3. **Pham, T. H**., Cheng, T., Wang, P.-C., & Chen, S. (2020). Genotypic diversity, and molecular and pathogenic characterization of *Photobacterium damselae* subsp. *piscicida* isolated from different fish species in Taiwan. Journal of Fish Diseases, 43(7), 757–774. <https://doi.org/10.1111/jfd.13173>
4. **Pham, T. H**., Rao, S., Cheng, T. C., Wang, P. C., & Chen, S. C. (2021). The moonlighting protein fructose 1,6-bisphosphate aldolase as a potential vaccine candidate against *Photobacterium damselae* subsp. *piscicida* in Asian sea bass (*Lates calcarifer*). Developmental and Comparative Immunology, 124(June), 104187. <https://doi.org/10.1016/j.dci.2021.104187>
5. Rao, S., **Pham, T. H**., Poudyal, S., Cheng, L.-W., Nazareth, S. C., Wang, P.-C., & Chen, S.-C. (2021). First report on genetic characterization, cell-surface properties and pathogenicity of *Lactococcus garvieae*, emerging pathogen isolated from cage-cultured cobia (*Rachycentron canadum*). Transboundary and Emerging Diseases, 2022; 69: 1197– 1211. <https://doi.org/10.1111/tbed.14083>.
6. Vu-Khac, H., Duong, V. Q. B., Chen, S. C., **Pham, T. H.,** Nguyen, T. T. G., & Trinh, T. T. H. (2016). Isolation and genetic characterization of *Nocardia seriolae* from snubnose pompano *Trachinotus blochii* in Vietnam. Diseases of Aquatic Organisms, 120(2), 173–177. <https://doi.org/10.3354/dao03023>

**Conferences**

1. Developing recombinant vaccine against *Photobacterium damselae* subsp. *piscicida* in cobia, *Rachycentron canadum*. Poster presentation at Industry Forum: immunology and Vaccine Development (2018, Taiwan).
2. Investigating the genetic variants of *Photobacterium damselae* subsp. *piscicida* isolated in Taiwan. Oral presentation at Conference of Chinese Society of Veterinary Sciences (2019, Taiwan).
3. Developing recombinant vaccine against *Photobacterium damselae* subsp. *piscicida* in Cobia, *Rachycentron canadum*. Oral presentation at Conference of Chinese Society of Veterinary Sciences (2019, Taiwan).
4. Phenotypic characterisation and phylogenetic analysis of *Photobacterium damselae* subsp. *piscicida* isolated from different fish species in Taiwan. Poster presentation at Achievement Exhibition of National Pingtung University of Science and Technology (2020, Taiwan).
5. Evaluating the protective efficacy of four heat-shock proteins as recombinant vaccines against Photobacteriosis in Asian seabass (*Lates calcarifer*). Oral presentation at Conference of Chinese Society of Veterinary Sciences (2021, Taiwan).

**Supervision**

* Co-supervisor for 3 Bachelor students

**Awards and Grants**

* Best Poster at 2018 Industry Forum: immunology and Vaccine Development (2018/09/18)
* Best oral presentation at the Conference of Chinese Society of Veterinary Sciences, 2019.
* Award of National Pingtung University of Science and Technology for Graduate student with Outstanding Research Performance in 2021