

**Noushin Arfatahery**

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**Education**

**Freie Universität Berlin, Germany**

*Doctor of Biology*

March 2020 – September 2024

Thesis: Antibacterial Activity of Marine Sea Cucumber and Oyster against *Staphylococcus aureus* and *Vibrio*

Supervisor: Prof. Jens Rolff

**Vancouver Island University, British Columbia, Canada**

*Fellowship in Fisheries and Oceans*

August 2023

Project: Exploring Genotype and Phenotype of the Symbiotic Relationship Between Sea Cucumbers and Oysters

Supervisor: Dr. Chris Pearce

**Tehran University of Medical Sciences, Tehran, Iran**

*PhD in Microbiology*

September 2016 – July 2018

Thesis: Study of Antibacterial Activity of Sea Cucumber *Holothuria*

Supervisor: Prof. Ali Karimi

**Tehran University of Medical Sciences, Tehran, Iran**

*Master in Food Microbiology*

September 2012 – July 2015

Thesis: Characterization of Toxin Genes and Antimicrobial Susceptibility of *Staphylococcus aureus* Isolates from Fishery Products in Iran

Supervisor: Prof. Sassan Rezaie

**Iran Medical University, Tehran, Iran**

*Bachelor in Medical Laboratory Science*

September 2004 – July 2008

**Tehran University, Tehran, Iran**

*Environmental Science*

September 2009 – July 2011

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## Professional Experience

### Freie Universität Berlin, Germany

*Research Fellow*

May 2024 – Present

- Conducted a comprehensive review on the potential of probiotics in managing PMS and PMDD.

### Rolff Group, Freie Universität Berlin, Germany

*Research Fellow*

May – October 2023

- Investigated the effects of insect and probiotic feeding on aquaculture species.
- Supervisors: Prof. Jens Rolff, Dr. Charlotte Rafaluk-Mohr

### Tehran University of Medical Sciences and Environment Organization, Iran

*Researcher*

2017 – 2018

- Studied concurrent growth of *Holothuria* sea cucumber and shrimp to control bacterial and viral pathogens.

### Tehran University of Medical Sciences, Iran

*Research Assistant*

2015 – 2016

- Investigated the effects of gonadotropin hormone and female serum on prolificacy in sheep.
- Aeroponic culture of saffron compared to soil culture.

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## Honors and Awards

- Travel award for attendance at the International Association for Food Protection (IAFP) in the USA, 2024
- Research Fellowship - Vancouver Island University, 2023
- ASM Future Leaders Mentoring Fellowship (FLMF), 2023-2024
- Aquaculture Award, UK, 2022
- Scholar at Risk (SAR) 2020 – 2022
- Nomination for the John Maddox Prize, 2017-2019
- Excellence in Research Award - Tehran University of Medical Sciences, 2016.
- 1st Class Honors in Master Degree, Tehran University of Medical Sciences, 2012
- Member of the Talent Organization at Tehran University of Medical Sciences, 2012-Present

## Professional Memberships

- Research gate:
  - <https://www.researchgate.net/profile/Noushin-Arfatahery>
  - Young Affiliate, The World Academy of Sciences (UNESCO-TWAS), 2021-2026: [https://twas.org/directory?members\\_type=young-affiliates&page=1](https://twas.org/directory?members_type=young-affiliates&page=1)
  - Women in STEM, 2022 – Present: <https://stemwomen.global/profile/noushin-arfatahery>
  - American Society for Microbiology (ASM), 2015 – Present
  - Federation of European Microbiological Societies (FEMS), 2022 – Present
  - International Association for Food Protection (IAFP), 2020 – Present
  - European Clinical Microbiology & Infectious Diseases (ECCMID), 2016 – Present
  - World Aquaculture Society (WAS), 2021 – Present
  - European Aquaculture Society (EAS), 2020 – Present
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## Publications

- Arfatahery N., Rafaluk-Mohr C., Rolff J., Wegner M. K. "Evidence for immune priming specificity and cross-protection against sympatric and allopatric *Vibrio splendidus* strains in the oyster *Magalana (Crassostrea) gigas*.(2024)" <https://doi.org/10.1016/j.dci.2024.105221>
  - Arfatahery N. et al. "Characterization of Toxin Genes and Antimicrobial Susceptibility of *Staphylococcus aureus* Isolates in Fishery Products in Iran." *Scientific Reports* 6, Article number: 34216 (2016). <https://www.nature.com/articles/srep34216>
  - Arfatahery N. et al. "Study of the prevalence of *Staphylococcus aureus* in marine and farmed shrimps in Iran aiming the future development of a prophylactic vaccine." *Procedia in Vaccinology* 9 (2015): 44–49. [www.sciencedirect.com](http://www.sciencedirect.com) DOI:[10.1016/j.provac.2015.05.008](https://doi.org/10.1016/j.provac.2015.05.008)
  - Arfatahery N. et al. "Antibacterial activity of the sea cucumber *Holothuria leucospilota* whole-body extract against *Staphylococcus aureus* strains MRSA SEA and SEB." *Research Square*. <https://www.researchsquare.com/article/rs-301584/v1> DOI:[10.21203/rs.3.rs-301584/v1](https://doi.org/10.21203/rs.3.rs-301584/v1)
  - Arfatahery N. et al. "The evaluation of the *Staphylococcus aureus* in shrimps and fishes supplied in Iran fishery center." *Biology*, 20 November 2015. DOI:[10.1016/j.provac.2015.05.008](https://doi.org/10.1016/j.provac.2015.05.008)
  - Arfatahery N. "Women in Aquaculture." *North American Aquaculture Magazine*, July 27, 2022. <https://www.aquaculturenorthamerica.com/share-her-story-contributing-to-food-sustainability>
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## **Conferences**

- International Association for Food Protection (IAFP) USA ,2024
  - American Society for Microbiology (ASM) USA, 2024
  - World Forum Women in Science 2024, Rome, Italy - Promoting Sustainable Aquaculture Through Symbiotic Interactions Between Marine animal ,2024
  - Robert Koch Doctoral Students Symposium, Berlin, Germany, 2022
  - Aquaculture Canada and WAS North America St. John's, Newfoundland, Canada ,2022
  - Aquaculture Congress, Madeira, Portugal, 2021
  - ESCMID Conference, Vienna, Austria, 2017
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## **Skills**

- Data collection and on-site analysis
  - Laboratory techniques
  - Statistical analysis
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