



CURRICULUM VITAE AND PUBLICATION LIST FOR NIELS O. G. JØRGENSEN

Name: Niels Ole Gerslev Jørgensen

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Degrees: MSc at Aarhus University 1978; PhD at Aarhus University 1982

Appointments: Junior Research Fellow 1978-1981 and Senior Research Fellow 1981-1985 at Aarhus University; Associate Professor at Copenhagen University since 1985.

Research areas

My research focuses on aquatic, microbial ecology, including both natural environments and aquaculture systems. In specific projects, the following activities are studied:

- Biology of off-flavour producing microorganisms and their off-taste production in aquacultures and water reservoirs, including production and degradation of geosmin and MIB.
- Microbial production and cycling of cyanobacterial toxins and other organic compounds in aquatic ecosystems.
- Microbiology in ships' ballast water with focus on antimicrobial treatment technologies.
- Production and utilization of organic nitrogen (amino acid isomers, proteins and bacterial cell wall components) by natural populations of microorganisms.

Major research project funding (2012-2021)

DANIDA (Danish 3rd World Aid) **2012**, Bangladesh aquaculture project; The Danish Council for Strategic Research **2012** (Denmark-Brazil collaboration; network funding); Innovation Fund Denmark **2014** (Denmark-São Paulo Food Programme; multidisciplinary aquaculture research); DANIDA **2014**, Aquaculture and green growth development project. EU aquaculture project RAS-ORGMAT **2016** (Danish-Norwegian-Portuguese collaboration). SEQ Water, Brisbane, Australia, **2017** (drinking water microbiology). University-Industry project on microbiology in recirculated aquaculture systems, **2019**. European Training network for PhD education at 8 European universities, **2021**. NordForsk project on fish production using RAS technology, **2021**.

In these projects, I have been responsible principal investigator (PI) or vice PI, and responsible for budgets, economy, planning of research activities, reporting, publishing and teaching of MSc and PhD students.

International collaboration

Ongoing research collaboration with: Griffith University, Queensland, Australia (drinking water microbiology); United States Department of Agriculture (aquaculture microbiology); Patuakhali Science and Technology University, Bangladesh (aquaculture microbiology); Aquaculture Centre of São Paulo State University (CAUNESP), São Paulo Fisheries Institute (IPESCA), São Paulo Fisheries Institute (IPESCA). SINTEF Fisheries and Aquaculture, and Norwegian University of Science and Technology, Norway. University of Porto, Portugal.

Teaching competences and supervision

Has supervised 12 PhD students from Denmark, Bangladesh and Brazil and several MSc and BSc students.

Publications since 2014: 26 articles published in international, peer-reviewed microbiology journals

Recent article on aquaculture production in Bangladesh: Podduturi, R., Petersen, M.A., Mahmud, S., Rahman, Md., Jørgensen, N.O.G (2017). Potential contribution of fish feed and phytoplankton to the content of volatile terpenes in cultured pangasius (*Pangasianodon hypophthalmus*) and tilapia (*Oreochromis niloticus*). J. Agric. Food Chem., 65: 3720-3736.

In 2021, two manuscripts presenting results from PhD project in the Danida-sponsored BangFish project have been submitted to international journals.