

CONTACT

Firum
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SKILLS:

- Molecular biology (*qPCR, gene expression, NGS sequencing*)
- Cell culture (*immunological assays, primary culture and cell lines*)
- Gelatinous zooplankton sampling and ID (*current skill building*)

EDUCATION

University of Connecticut Health Center, Farmington, CT, USA.

2006 – 2010 **PhD, Biomedical Sciences**

Thesis title: The role of PDE8 and cAMP effector molecules in the selective regulation of Teff cell functions

Supervised by: Dr. Stefan Brocke

2004 – 2006 **Master of Science, Pharmacology**

WORK EXPERIENCE

2020 – **Head of Department, Biotechnology, Firum**

2017 – 2020 **Assistant Professor, Department of Health Sciences – University of the Faroe Islands**

2012 – 2017 **Researcher and Consultant, Diagnostic laboratory, National Hospital of the Faroe Islands**

2010 - 2012 **Researcher, Department of Immunology, University of Connecticut Health Center**

SUPERVISION

2 Masters Roskilde University (DK), Aarhus University (DK)

1 PhD Co-supervisor, University of Gothenberg (SE)

4 Fellows Sustainable aquaculture line, UNESCO GRÓ-FTP (IS)

RECENT RESEARCH PROJECTS:

2024 – 2026 GLOBECC: Gelatinous Lifeforms in Faroese waters, *Granskingarráðið, Primary Investigator*

2022 – 2026 Arteriosclerosis and heart pathology of farmed Atlantic salmon in the Faroe Islands, *Granskingarráðið and Innovation Fund Denmark, PhD Co-supervisor*

2022 – 2023 UNIFLED: Unifying Nordic Initiatives and Fostering Involvement on eDNA, *Nordisk Ministerråd, Steering group leader*

2019 – 2022 Identifying the contribution of intestinal dysbiosis to Faroese IBD risk, *Granskingarráðið, Primary Investigator*

SELECTED PUBLICATIONS

PEER REVIEWED RESEARCH PAPERS

Balaka Y, Mataba C, **Vang A** Assessment of Biosecurity Compliance and Adoption Rates of Fish Farms in Malawi: A Case Study of Rumphi and Zomba Districts. *Journal of Aquaculture*. 2025 (Accepted)

Mwainge V, **Vang A**, Ogwai C, Obuya J, Benhaïm. An Assessment of the Knowledge Attitude and Practices (KAP) on Biosecurity and Best Management Practices in Nile Tilapia (*Oreochromis niloticus*) Cage Aquaculture in Lake Victoria, Kenya. *Lakes & Reservoirs: Science, Policy and Management for Sustainable Use*. 2024. <https://doi.org/10.1111/lre.12464>

Nielsen KR, Modin FA, Midjord J, **Vang A**, Berbisá MÁF, Johannesen HL, Dahlerup JF, Andersen V, Neumann A, Kjeldsen J, Pedersen N, Langholz E, Munkholm P, Hammer T, Burisch J. Comparing Environmental Risk Factors at Diagnosis in Faroese and Danish Patients with Inflammatory Bowel Disease. *Dig Dis Sci*. 2024. [DOI: 10.1007/s10620-024-08721-1](https://doi.org/10.1007/s10620-024-08721-1)

Mortensen HS, Jacobsen E, Kolarevic J, **Vang A**. Exposing Atlantic salmon post-smolts to fluctuating sublethal nitrite concentrations in a commercial recirculating aquaculture system can cause hyperkalemia. *Frontiers in Animal Science*. 2022. [DOI: 10.3389/fanim.2022.886071](https://doi.org/10.3389/fanim.2022.886071)

Berbisá M á F, Nielsen RK, Ingham AC, Midjord J, Hammer T, Patursson P, Vest NMO, Gregersen N, Burisch J, **Vang A**. Similar gut bacterial composition between patients with ulcerative colitis and healthy controls in a high incidence population: a cross-sectional study of the Faroe Islands IBD cohort. *Inflammatory Bowel Diseases*. 2022. [DOI: 10.1093/ibd/izab355](https://doi.org/10.1093/ibd/izab355)

Vang AG, Basole C, Dong H, Nguyen R, Basole C, Housley W, Guersey L, Thrall R, Clark R, Epstein P, Brocke S. Differential expression and function of PDE8 and PDE4 in effector T cells: Implications for PDE8 as a drug target in inflammation. *Frontiers in Pharmacology*. 2016. [DOI: 10.3389/fphar.2016.00259](https://doi.org/10.3389/fphar.2016.00259)

Housley WJ, Adams CO, **Vang AG**, Brocke S, Nichols FC, LaCombe M, Rajan TV, Clark R. Peroxisome Proliferator-Activated Receptor γ Is Required for CD4 + T Cell-Mediated Lymphopenia-Associated Autoimmunity. *The Journal of Immunology*. 2011. [DOI:10.4049/jimmunol.1101731](https://doi.org/10.4049/jimmunol.1101731)

Vang AG, Ben-Sasson SZ, Dong H, Kream B, DeNinno MP, Claffey MM, Housley W, Clark R, Epstein P, Brocke S. PDE8 regulates rapid teff cell adhesion and proliferation independent of ICER. *PLoS ONE*. 2010. [DOI:10.1371/journal.pone.0012011](https://doi.org/10.1371/journal.pone.0012011)

TECHNICAL REPORTS

Jacobsen Á, **Vang A**, Salter I, Juul-Pedersen T, Sveinsson, Pampoulie C, Wangenstein Perspectives on implementation of eDNA methods in Northeast Atlantic marine monitoring. Tema Nord (Nordisk Ministry reports) 2023 <https://pub.norden.org/temanord2023-517/index.html>