Short CV – Alfred Jokumsen

Degrees

- Partly (~ 50 %) BSc (Chemistry), University of Odense, Denmark (1983).
- MSc (Biology and Fish Physiology), University of Aarhus, Denmark (1979).

Positions

- Senior Adviser, Danish Institute for Fisheries Resources (DIFRES)/DTU Aqua, Technical University of Denmark (1999-present). Research Coordinator, Aquaculture since 2015.
- Project Manager, Aquaculture Dept., Danish Institute for Fisheries Technology and Aquaculture (DIFTA) (1994-1999).
- Head of Aquaculture Department, Association of Danish Fish Meal and Fish Oil Manufacturers (1989-1994).
- Acting head of Freshwater Department, Danish Institute for Fisheries and Marine Research (DIFMAR) (1987-1989).
- Researcher, DIFMAR (1983-1989).
- Research Assistant, Dep. of Ecophysiology, University of Odense, Denmark (1980-1983).
- Research Assistant, Dep. of Animal Physiology, University of Bergen, Norway (1979-1980).

Research area

Nutritional requirements and feed composition for farmed fish species including growth and feed utilization as well as environmental aspects of aquaculture. Further linkage to physiological performance including fishwelfare, sustainability issues in fish farming including organic fish farming, EU organic regulations and certification of aquaculture.

Memberships of scientific committees, 2011-present

Chairman of PhD assessment committee.

Peer reviewed publications: 47. **Books and book chapters:** 1. **Reports:** 95. **International conferences:** 5.

Advisory tasks, 2011-present

Member of the Danish Environmental Board of Appeal (Aquaculture). Head of international evaluation of Swedish aquaculture research for the Swedish Environmental Strategic Research Foundation MISTRA. Member of Expert Group for Technical Advice on Organic Production (EGTOP)/European Commission. Coordination of advisory activities for national ministeries and authorities as well as national and international advisory tasks for the aquaculture sector (organic aquaculture, environmental and sustainability aspects, certification etc.).

Grants, 2011-present

- GUDP/Organic RDD 2/International Centre for Research in Organic Food Systems (ICROFS)/Danish Ministry of Food, Agriculture and Fisheries: RobustFish (until end 2017, Coordinator).
- EU FP7: Assessment of organic aquaculture for further development of European regulatory framework (CSA) (OrAqua) (until end 2016, WP Leader).
- European Regional Development Fund (EU/ERDF)/Baltic Sea Region (BSR): Innovative practices and technologies for developing sustainable aquaculture in the Baltic Sea Region (AQUABEST) (until 2014, WPs Coordinator).
- Danish Ministry of Food, EFF. (ASC-Rainbow trout) (until 2014, Coordinator).
- Ministry of Food, Agriculture and Fisheries and Nordic Council of Ministers: Baltic Environmentally Sustainable Aquaculture (BESTAQ) (until 2012, Coordinator, danish part).

Research collaboration with stakeholders, 2011-present

All granted research and advisory activities are carried out/coordinated in collaboration with stakeholders, e.g. the Danish Aquaculture Association, fish farmers, fish feed manufacturers, authorities and NGOs.

Other activities

Workshops/seminars for dissemination of research results to the stakeholders, ministries and other authorities.

Five selected publications

Rasmussen RS, Heinrich MT, Hyldig G, Jacobsen C, Jokumsen A. (2011). Moderate exercise of rainbow trout induces only negligible differences in fatty acid profile, texture, white muscle fibres and proximate chemical composition of fillets. Aquaculture. 314, pp. 159-164.

Lund I, Dalsgaard J, Rasmussen HT, Holm J, Jokumsen, A. (2011). Replacement of fish meal with a matrix of organic plant proteins in organic trout (*Oncorhynchus mykiss*) feed, and the effects on nutrient utilization and fish performance. Aquaculture. 321, pp. 259-266.

McKenzie DJ, Höglund' E, Dupont-Prinet A, Larsen B, Skov PV, Pedersen PB, Jokumsen A. (2012). Effects of stocking density and sustained aerobic exercise on growth, energetics and welfare of rainbow trout. Aquaculture. 338-341, pp. 216-222.

Wulff T, Jokumsen A., Højrup P, Jessen F. (2012). Time-dependent changes in protein expression in rainbow trout muscle following hypoxia. Journ. of Proteomics. 75(8), 2342-2351.

Baron C, Svendsen G, Lund I, Jokumsen A, Nielsen H, Jacobsen, C. (2013). Organic plant ingredients in the diet of Rainbow Trout (*Oncorhynchus mykiss*). Impact on fish muscle composition and oxidative stability. European Journal of Lipid Science and Technology. 115(12), 1367-1377.