Dr. Eldar Åsgard Bendiksen

born 17.03.1967

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KEY COMPETENCE

Fish Physiology and Nutrition, Nutritional requirements cold water species, Feed and Feeding Strategies, Feed price & value evaluations, Feed Quality Surveillance Programs, Flesh quality management, Environmental aspects of fish farming, Project Management within Research, Methodology for fish biology, Data processing and analysis, Product and Concept Development, Dissemination of Knowledge, Scientific publication, Knowledge management

WORK EXPERIENCE

Managing Director AquaNutrition AS	2016 – to date
Nutrition Manager SalMar Farming AS	2015 – 2016
Technical Manager feed, feeding and growth SalMar ASA	2011 – 2015
Group Manager Nutrition Biomar – Global	2007 – 2011
Principal Product Developer Biomar – Global	2007 – 2011
Product Developer Biomar AS	2003 – 2007
PhD Fellow Biomar/Norwegian University of Science and Technology (NTNU)	1999 – 2003
Research Trial manager Nutreco ARC	1997 – 1999
Project Assistant Norwegian Institute for Nature Research (NINA/NIKU)	1996 – 1996
Norwegian University of Science and Technology (NTNU)	
Fish farmer Borgannfisk AS	1991 – 1993
Military service	1988 – 1989
EDUCATION	
Master's degree in knowledge management Nord University	2019
Doctor scientiarium (Dr. scient) in biology <i>NTNU</i>	2003
Candidatus scientiarum (MSc) in fish physiology NTNU	1996
University exams and courses after Dr. scient. dissemination NTNU/ University of Tromsø/Nord University	2004 – 2014

Course in R&D strategy and management in fisheries and aquaculture

Course in Process and change management Course in Practical project management

LANGUAGES

Norwegian (mother tongue), English (fluently orally/written).

OTHER ASSIGNMENTS

Member of scientific committee at Gildeskål Research Station (GIFAS)

2019 - to date

SCIENTIFIC PUBLICATIONS

- Røsæg, M.V., Rimstad, E., Guttvik, A., Skjelstad, B., Bendiksen, E.Å., Garseth, Å.H., 2018. Effect of pancreas disease caused by SAV 2 on protein and fat digestion in Atlantic salmon. J. Fish Dis. 41, 1-12.
- 2. Broch, O.J., Daae, R.L., Ellingsen, I.H., Nepstad, R., Bendiksen, E.Å., Reed, J.L., Senneset, G., 2017. Spatiotemporal dispersal and deposition of fish farm wastes: A model study from Central Norway. Front. Mar. Sci. 4, 1-15.
- Lerfall, J., Bendiksen, E.Å., Olsen, J.-V., Morrice, D., Østerlie, M., 2016. A comparative study of organic-versus conventional farmed Atlantic salmon. I.
 Pigment and lipid content and composition, and carotenoid stability in ice-stored fillets. Aquaculture 451, 170-177.
- Lerfall, J., Bendiksen, E.Å., Olsen, J.-V., Østerlie, M., 2016. A comparative study of organic- versus conventional Atlantic salmon. II. Fillet color, carotenoid- and fatty acid composition as affected by dry salting, cold smoking and storage. Aquaculture 452, 369-376.
- Krontvedt, R., Bendiksen, E.Å., Aunsmo, A., 2014. Field monitoring of feed digestibility in Atlantic salmon farming using crude fiber as an inert marker. Aquaculture 426-427, 249-255.
- 6. Johnsen, C.A., Hagen, Ø., Solberg, C., Björnsson, B.Th., Jönsson, E., Johansen, S.J.S., Bendiksen, E.Å., 2013. Seasonal changes in muscle structure and flesh quality of 0+ and 1+ Atlantic salmon (Salmo salar L.): Impact of feeding regime and possible roles of ghrelin. Aquaculture Nutrition 19, 15-34.
- Johnsen, C.A., Hagen, Ø., Adler, M., Jönsson, E., Kling, P., Bickerdike, R., Solberg, C., Björnsson, B.Th., Bendiksen, E.Å., 2011. Effects of feed, feeding regime and growth rate on flesh quality, connective tissue and plasma hormones in farmed Atlantic salmon (Salmo salar L.). Aquaculture, 318, 343-354.
- 8. Pratoomyot, J., Bendiksen, E.Å., Campbell, P.J., Jauncey, K.J., Bell, J.G., Tocher, D.R., 2011. Effects of different blends of protein sources as alternatives to dietary fishmeal on growth performance and body lipid composition of Atlantic salmon (Salmo salar L.). Aquaculture, 316, 44-52.
- 9. Bendiksen, E.Å., Johnsen, C.A., Olsen, H.J., Jobling, M., 2011. Sustainable aquafeeds: Progress towards reduced reliance upon marine ingredients in diets for farmed Atlantic salmon (Salmo salar L.). Aquaculture 314, 132-139.
- 10. Karalazos, V., Bendiksen, E.Å., Dick, J.R., Tocher, D.R., Bell, J.G., 2011. Influence of the dietary protein/lipid ratio and fish oil substitution on fatty acid composition and metabolism of Atlantic salmon (Salmo salar L.) reared at high water temperatures. British Journal of Nutrition, 105, 1012–1025.
- Johnsen, C.A., Hagen, Ø., Bendiksen, E.Å., 2011. Long-term effects of high-energy, low-fishmeal feeds on growth and flesh characteristics of Atlantic salmon (Salmo salar L.). Aquaculture 312, 109-116.
- 12. Karalazos, V., Bendiksen, E.Å., Bell, J.G., 2011. Interactive effects of dietary protein/lipid level and oil source on growth, feed utilisation and nutrient and fatty acid digestibility of Atlantic salmon. Aquaculture, 311, 193-200.
- 13. Penn, M.H., Bendiksen, E.Å., Campbell, P., Krogdahl, Å., 2011. High level of dietary pea protein concentrate induces enteropathy in Atlantic salmon (Salmo salar L.). Aquaculture 310, 267-273.
- 14. Pratoomyot, J., Bendiksen, E.Å., Bell, J.G., Tocher, D.R., 2010. Effects of increasing replacement of dietary fishmeal with plant protein sources on growth performance and body lipid composition of Atlantic salmon (Salmo salar L.). Aquaculture 305 124-132.
- 15. Bell, J.G., Sprague, M., Bendiksen, E.Å., Dick, J.R., Strachan, F., Pratoomyot, J., Berntssen, M.H.G., Tocher, D.R., 2010. Using decontaminated fish oil or a vegetable/fish oil blend to reduce organic contaminant concentrations in diets and flesh of farmed Atlantic salmon (Salmo salar). British Journal of Nutrition 103, 1442-1451.
- Jobling, M., Leknes, O., Sæther, B.-S., Bendiksen, E.Å., 2008. Lipid and fatty acid dynamics in Atlantic cod, Gadus morhua, tissues: Influence of dietary lipid concentrations and sources. Aquaculture 281, 87-94.
- Tocher, D.R., Bendiksen, E.Å., Campbell, P.J., Bell, J.G., 2008. The role of phospholipids in nutrition and metabolism of teleost fish. Aquaculture 280, 21-34.
- 18. Pratoomyot, J., Bendiksen, E.Å., Bell, J.G., Tocher, D.R., 2008. Comparison of effects of vegetable oils blended with southern hemisphere fish oil and decontaminated northern hemisphere fish oil on growth performance, composition and gene expression in Atlantic salmon (Salmo salar L.). Aquaculture 280, 170-178.
- Karalazos, V., Bendiksen, E.Å., Dick, J.R., Bell, J.G., 2007. Effects of dietary fat and protein level and rapeseed oil on growth and tissue fatty acid composition and metabolism in Atlantic salmon Salmo salar L. reared at low water temperatures. Aquaculture Nutrition 13, 256-265.
- 20. Bendiksen, E.Å., Jobling, M., 2004. Effects of rearing temperature and feed composition on partitioning and retention of n-3 HUFA fatty acids in Atlantic salmon (Salmo salar L.) parr. Fish Physiology and Biochemistry 29, 133-140.
- 21. Bendiksen, E.Å., Arnesen, A.M., Jobling, M., 2003. Effects of fatty acids and fat content on smolting and seawater performance in Atlantic salmon (Salmo salar L.). Aquaculture 225, 149-163.
- Bendiksen, E.Å., Berg, O.K., Jobling, M., Arnesen, A.M., Måsøval, K.A., 2003. Digestibility, growth and nutrient utilisation of Atlantic salmon parr Salmo salar L. in relation to temperature, feed fat content and oil source. Aquaculture 224, 283-299.

- 23. Jobling, M., Bendiksen, E.Å., 2003. Dietary lipids and temperature interact to influence tissue fatty acid compositions of Atlantic salmon, Salmo salar L., parr. Aquaculture Research 34, 1423-1441.
- 24. Bendiksen, E.Å., Jobling, M., Arnesen, A.M., 2002. Feed intake of Atlantic salmon parr Salmo salar L. in relation to temperature and feed composition. Aquaculture Research 33, 525-532.

DISSERTATIONS

- Bendiksen, E.Å., Bergem, K.V., 2019. From barge-based feeding to centralized remote feeding of farmed salmon. People, environment and technology in the feeding process. Master's thesis in knowledge management, Nord University, Levanger, Norway [in Norwegian]
- Bendiksen, E.Å., 2003. Environmental effects on lipid nutrition of farmed Atlantic salmon (Salmo salar L.) parr and smolt. Dr. scient. thesis in biology, Norwegian University of Science and Technology (NTNU), Trondheim, Norway,
- Bendiksen, E.Å., 1996. Effect of photoperiod and colored light on circulating level of melatonin in Arctic char. Cand. scient. thesis in aquaculture, Norwegian University of Science and Technology (NTNU), Trondheim, Norway [in Norwegian]