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Grad/utdanning

2003 Dr.scient
1993 Cand.scient
1991 Cand.mag

Erfaring/praksis

2008 Nofima
2001-2007 AKVAFORSK
1995-2001 Dr. stipendiat ved Zoologisk Institutt, NTNU
1995-2001 NTNU – undervisning

Nåværende forskningsoppgaver og interesseområder

2008 Velferd, velferdsindikatorer, stress, rømming, økologisk akvakultur

Utvalgte publikasjoner**Rapporter**

2006 Espmark, Å., Barr, Y., Rønneberg, J.E., Tuene, S. Reutsetning av blåskjell under høsting – en eksperimentell studie i felt og i kar med skjell fra Meisingseth (Nord Vest Havbruk AS). AKVAFORSK report nr 17/06.

2005 Espmark, Å. Behavioural and physiological indicators of stress during crowding in Atlantic salmon – and effects on rigor mortis. A collaboration with Nutreco. AKVAFORSK report nr 34/04.

Publikasjoner med referee

2008 Espmark, Å and Baeverfjord G. Effects of hyperoxia on behavioural and physiological

- variables in Atlantic salmon (*Salmo salar*) parr. *Aquaculture International*. DOI 10.1008/s10499-008-9206-6
- 2008 Eriksen, M.S., Espmark, Å., Poppe, T., Braastad, B.O., Salte, R., Bakken, M. Fluctuating asymmetry in farmed Atlantic salmon (*Salmo salar*) juveniles: also a maternal matter? *Environmental Biology of Fishes* 81, 87-99
- 2008 Espmark, Å., Eriksen, M., Salte, R., Braastad, B., Bakken, M. A note on pre-spawning maternal cortisol exposure in farmed Atlantic salmon and its impact on the behaviour of offspring in response to a novel environment, *Applied Animal Behaviour Science* 110, 404-409
- 2007 Eriksen, M.S., Espmark, Å., Braastad, B.O., Salte, R., Bakken, M. Long-term effects of maternal cortisol exposure and mild hyperthermia during embryogeny on survival, growth and morphological anomalies in farmed Atlantic salmon (*Salmo salar*) offspring. *Journal of Fish Biology* 70, 462-473
- 2006 Eriksen, M., Bakken, M., Espmark, Å., Braastad, B., Salte, R. Pre-spawning stress in farmed Atlantic salmon (*Salmo salar*): Maternal cortisol exposure and hyperthermia during embryonic development affect offspring survival, growth and incidence of deformities. *Journal of Fish Biology* 69, 114-129
- 2005 Helland, S., Refstie, S., Espmark, Å., Hjelde, K., Baevefjord, G. Mineral balance and bone formation in fast-growing Atlantic salmon parr (*Salmo salar*) in response to dissolved metabolic carbon dioxide and restricted dietary phosphorus supply. *Aquaculture* 250, 364-376
- 2004 Wibe ÅE, Fjeld E, Rosenqvist G, Jenssen, BM. Post-exposure effects of DDE and Butyl Benzyl phthalate (BBP) on feeding behaviour in threespine stickleback. *Ecotoxicology and Environmental Safety* 57, 213-219
- 2002 Wibe ÅE, Billing A, Rosenqvist G & Jenssen, BM. Butyl Benzyl Phthalate affects Shoaling Behaviour and Bottom Dwelling Behaviour in Threespine Stickleback. *Environmental Research, section A* 89, 180-187
- 2002 Wibe ÅE, Rosenqvist G & Jenssen, BM. Disruption of reproductive behaviour in threespine stickleback as a result of exposure to 17 β -oestradiol *Environmental Research, section A* 90, 136-141
- 2001 Wibe ÅE, Nordtug T & Jenssen BM. Behavioral effects of bis(tributyltin)oxide on antipredator behaviour in threespine stickleback (*Gasterosteus aculeatus* L.) *Chemosphere* 44, 475-481

Utvalgte foredrag

Konferanseartikler/-foredrag

- 2007 Espmark, Å og Olesen, I. Økologisk akvakultur – flaskehalser og muligheter. Abstract Husdyrforsøksmøtet 2007, ISBN 978-82-74-79019-3
- 2006 Åsa Maria Espmark, Grete Baevefjord, Kirsti Hjelde, Ingrid Lein and Ståle Refstie. Fish welfare and the influence of environmental and nutritional factors. *Organic Aquafarming*, Molde
- 2006 Åsa Maria Espmark, Marit Skog Eriksen, Ragnar Salte, Bjarne Braastad, Morten Bakken. Atferdsmessige effekter av prenatal stress og mild hypertermi hos Atlantisk lakseparr. Programkonferanse HAVBRUK 2006.
- Baevefjord, G., Helland, S., Lein, I., Espmark, Å., Refstie, S., Åsgård, T., Gjerde, B.

- 2005 Rearing conditions and skeletal deformities in Atlantic salmon (*salmo salar*). In: Lessons from the past to optimise the future, extended abstracts and short communications. European Aquaculture Society, Special Publication No. 35, pp 121-122
- 2005 Espmark, Å., Hjelde, K., Bæverfjord, G. Development of gas bubble disease in farmed Atlantic salmon under hyperoxic conditions. In: Lessons from the past to optimise the future, extended abstracts and short communications. European Aquaculture Society, Special Publication No. 35, pp 193-194
- 2004 Åsa Espmark Wibe and Grete Bæverfjord. Atferd hos oppdrettslaks kan avsløre dårlig vannkvalitet. Programkonferanse HAVBRUK 2004
- 2003 Bæverfjord G., Wibe Å.E. Short tail deformities in Atlantic salmon – effect of freshwater production temperature. In: Beyond Monoculture, extended abstracts and short communications. European Aquaculture society, special publications No. 3.
- 2003 Wibe Å.E., Bæverfjord G. Behaviour as an early indicator of impaired water quality in farmed Atlantic salmon *Salmo salar*. In: Beyond Monoculture, extended abstracts and short communications. European Aquaculture society, special publications No. 3.
- 2003 Åsa Espmark Wibe. Welfare and stocking density. Do the fish care? Seminar on fish farming, Tolouse (FNAB)
- 2002 Å. E. Wibe, and G Bæverfjord. Kvantitativ analyse av ryggvirvelforandringer og kroppsform. Villaks – Havbrukskonferanse

Populærvitenskapelige artikler/-foredrag

- 2006 Bæverfjord, G., Espmark, Å., Helland, S., Lein, I., Eckhard, P. Deformiteter hos laks: temperatur i smoltproduksjonen er en nøkkelfaktor. Norsk Fiskeoppdrett nr. 10