

**Name: Solveig van Nes**

**Present position** Senior Research Scientist  
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**Degrees**

2006 Dr.Sci (PhD), Developmental and reproductive biology, molecular fish biology, and gender control in aquaculture, Norwegian University of Life Sciences, Norway  
1998 M Sci, Marine Biology and Genetics, University of Groningen, Netherlands

**Experience**

2006 – Researcher, Nofima - Norwegian Institute of Food, Fisheries and Aquaculture Research  
2001 – 2006 Doctoral candidate, Norwegian University of Life Sciences / Nofima  
2003 – 2004 Subject responsibility / Held courses, Marine ecosystems, Norwegian University of Life Sciences  
2002 – 2003 Supervision; master- and bachelor candidates in aquaculture; Norwegian University of Life Sciences  
2001 – Lecturing, master programme in aquaculture, Norwegian University of Life Sciences  
1998 - 2001 Researcher marine ecology and population genetics, University of Gotenburg, Sweden

**Present research activities and fields of interest**

- Production optimisation of farming operations in aquaculture; aquaculture-industry related research
- International networking and knowledge transfer
- Gender control in aquaculture: Reproductive biology and sex determination
- Molecular fish biology
- Marine ecology

## Selected publications

### Peer-reviewed journals

- 2009 Andersen Ø, Dahle SW, van Nes S, Bardal T, Kjørsvik E, Galloway TF. Differential spatio-temporal expression and functional diversification of the myogenic regulatory factors MyoD1 and MyoD2 in Atlantic halibut (*Hippoglossus hippoglossus*) Comp Biochem Physiol. In Press
- 2006 van Nes S, Andersen Ø. Temperature effects on sex determination and ontogenetic gene expression of the aromatases *cyp19a* and *cyp19b*, and the estrogen receptors *esr1* and *esr2* in Atlantic halibut (*Hippoglossus hippoglossus*). Molecular Reproduction and Development 73:1481-1490.
- 2006 Matsuoka M, van Nes S, Andersen Ø, Benfey T, Reith M. Real-time PCR analysis of ovary- and brain-type aromatase gene expression during Atlantic halibut (*Hippoglossus hippoglossus*) development. Comparative Biochemistry and Physiology Part B. Biochemistry and Molecular Biology, 144 (1): 128-135.
- 2006 Andersen, Ø., Aas T-S, Stugor S, Takle H, van Nes S., Helland S, Terjesen B. Purine-induced expression of urate oxidase and enzyme activity in Atlantic salmon (*Salmo salar*). Cloning of urate oxidase liver cDNA from three teleost species and the African lungfish *Protopterus annectens*, FEBS 273:2839-2850.
- 2005 van Nes S, Moe M, and Andersen Ø. Molecular characterization and expression of two *cyp19* (P450 aromatase) genes in embryos, larvae, and adults of Atlantic halibut (*Hippoglossus hippoglossus*). Molecular Reproduction and Development, 72:437-449.

### Other publications

- 2006 van Nes S. Characterization of the aromatase and estrogen receptor genes in Atlantic halibut (*Hippoglossus hippoglossus*): Effects of watertemperature on the development of molecular and phenotypic gender. Doctoral thesis 2005:35. ISBN 82-575-0686-9, ISSN 0802-3220.

## Selected presentations

### Invited speaker / Oral presentations:

- 2008 Research and Development in Norwegian Aquaculture. Seminar on development of Aquaculture in Sweden, Gotenburg University, Sweden.
- 2008 Links between Research and Commerce. Aquaculture Twin Event, Enkhuizen, Netherlands.
- 2007 Feasibility of sustainable aquaculture in the Sultanate of Oman. Ministry of Fisheries, Oman.

- 2007 Optimization of production: Feeding and Pigmentation Strategies & Effects of different raw material qualities on colour of smoked salmon. Pan Fish France, Landiviseau, France.
- 2007 Culture of Atlantic halibut in Norway, Drøbak Rotary Club, Norway.
- 2006 Aquaculture of rainbow trout: Evaluation of potential environmental impacts. The Norwegian Parliament, Oslo, Norway.
- 2006 Effects of water temperature on molecular and phenotypic gender development in Atlantic halibut. VII International Congress on the Biology of Fish, St.John's, Canada
- 2006 Gender control in Aquaculture. University of Gotenburg, Sweden.
- 2006 Applications of research on sex determination in Aquaculture. Trial lecture, Norwegian University of Life Sciences, Ås, Norway.