

CURRICULUM VITAE - THOMAS BØHN

Nationality: Norwegian.

Born in Oslo the 7th of April 1969. Live in Tromsø.

Present position:

Senior researcher Ph.D
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Research interests

My research interests are focused on invasion biology related to biodiversity/ecological interactions, and on the impact of genetically modified organisms (GMOs) on experimental model systems and on real food-webs. I study the food quality and ecotoxicity of GM plants in a feeding model using *Daphnia magna*. Effects and consequences are evaluated at the level of molecular biology (e.g. uptake, distribution and expression of transgenic DNA and protein), at an ecological level (mortality, growth, fecundity, behaviour), and on a population level using structured population models (population growth rate, sensitivity, dynamics etc.).

Scientific publications in peer review journals: 1998 -

- (1) Bøhn, T. & Amundsen, P.-A. 1998. Effects of invading vendace (*Coregonus albula* L.) on species composition and body size in two zooplankton communities of the Pasvik River System, northern Norway. *Journal of Plankton Research* **20**: 243-256
- (2) Amundsen, P.-A., Staldivik, F. J., Reshetnikov, Y. S., Kashulin, N., Lukin, A., Bøhn, T., Sandlund, O. T. & Popova, O. A. 1999. Invasion of vendace *Coregonus albula* in a subarctic watercourse. *Biological Conservation* **88**, 405-413.
- (3) Bøhn, T. & Amundsen, P.-A. 2001. The competitive edge of an invading specialist. *Ecology* **82** (8): 2150-2163
- (4) Bøhn, T. 2002. Following a fish invasion – ecological interactions transforming a native ecosystem. Dr. scient. thesis in ecology/freshwater biology, University of Tromsø. 111 p.
- (5) Bøhn, T., Amundsen, P.-A., Popova, O., Reshetnikov, Y.S. & Staldivik, F.J. 2002. Predator avoidance of coregonids: Habitat choice explained by size-related prey vulnerability? *Arch. Hydrobiol. Spec. Issues Advanc. Limnol. Ergebnisse der Limnologie* **57**:183-197.

- (6) Amundsen, P.-A., Bøhn, T., Popova, O.A., Staldvik, F. J., Reshetnikov, Y. S., Kashulin, N., Lukin, A. 2003. Ontogenetic niche shifts and resource partitioning in a subarctic piscivore fish guild. *Hydrobiologia* **497**: 109-119.
- (7) Bøhn, T. & Amundsen, P.-A. 2004. Invasion-mediated life history changes in a dimorph whitefish *Coregonus lavaretus* population. *Annales Zoologici Fennici* **41**: 125-136.
- (8) Amundsen, P.-A., Bøhn, T. & Våga, G. 2004. Gill raker morphology and feeding ecology of two sympatric whitefish (*Coregonus lavaretus*) morphs. *Annales Zoologici Fennici*. **41**: 291-300.
- (9) Gjelland, K.Ø., Bøhn, T., Knudsen, F.R. & Amundsen, P.-A. 2004. Influence of light on the swimming speed of coregonids in subarctic lakes. *Annales Zoologici Fennici* **41**: 137-146.
- (10) Jensen, H., Bøhn, T., Amundsen, P.-A. & Aspholm, P.E. 2004. Diet and predator-prey relationship of piscivorous brown trout (*Salmo trutta* L.) in a subarctic watercourse. *Annales Zoologici Fennici* **41**: 319-328.
- (11) Bøhn, T., Sandlund, O.T., Amundsen, P.-A. & Primicerio, R. 2004. Rapidly changing life history during a fish invasion. *Oikos* **106**: 138-150 .
- (12) Bøhn, T. & Amundsen, P.-A. 2004. Ecological interactions and evolution – forgotten parts of biodiversity? Viewpoint *Bioscience* **54** (9): 804-805.
- (13) Pettersen, A.K., Bøhn, T., Primicerio, R., Shorten, P., Soboleva, T. & Nielsen, K.M. 2005. Modeling suggests frequency estimates are not informative for predicting the long-term effect of horizontal gene transfer in bacteria. *Environmental Biosafety Research* **4**: 223-233.
- (14) Falk-Petersen, J., Bøhn, T. & Sandlund, O.T. 2006. On the numerous concepts in invasion biology. *Biological Invasion* **00**: 1-16.
- (15) Jensen, H., Amundsen, P.-A., Elliott, J.M., Bøhn, T. & Aspholm, P.E. 2006. Prey consumption rates and growth of piscivorous brown trout in a subarctic watercourse. *Journal of Fish Biology* **68**: 838-848.
- (16) Bøhn, T., Amundsen, P.-A. & Sparrow, A. 2007. Competitive exclusion after invasion? *Biological Invasions*. Published online 27. july. DOI: 10.1007/s10530-007-9135-8
- (17) Gjelland, K.Ø., Bøhn, T. and Amundsen, P.-A. 2007. Is coexistence mediated by microhabitat segregation? An in-depth exploration of a fish invasion. *Journal of Fish Biology* **71**: (Supplement D), 196-209. DOI: 10.1111/j.1095-8649.2007.01678.x
- (18) Salonen, E., Amundsen, P.-A., Bøhn, T. 2007. Boom and bust development by invading vendace *Coregonus albula* in the subarctic Inari-

Pasvik watershed (Finland, Norway and Russia). *Arch. Hydrobiol. Spec. Issues Advanc. Limnol.* **60**: 331-342.

(19) Bøhn, T., Primicerio, R., Hessen, D.O. and Traavik, T. 2008. Reduced fitness of *Daphnia magna* fed a Bt-transgenic maize variety. *Archives of Environmental toxicology and chemistry*. Published online 18. march.: DOI 10.1007/s00244-008-9150-5

In press:

(20) Jensen, H., Kahilainen, K., Amundsen, P.-A., Gjelland, K.Ø., Toumaala, A., Malinen, T., Bøhn, T. 2007. Predation by brown trout (*Salmo trutta*) along a diversifying prey community gradient. *Canadian Journal of Fish and Aquatic Sciences*

Book Chapters:

Bøhn, T. 2007. Invasion of exotic species. P. 189-204 In: Traavik, T. and Lim, L.C. (eds.) *Biosafety First: Holistic Approaches to Risk and Uncertainty in Genetic Engineering and Genetically Modified Organisms*. Tapir Academic Press, Trondheim.

Lövei, G., Hilbeck, A. & Bøhn, T. 2007. Biodiversity, ecosystem services and genetically modified organisms. P. 169-188 In: Traavik, T. and Lim, L.C. (eds.) *Biosafety First: Holistic Approaches to Risk and Uncertainty in Genetic Engineering and Genetically Modified Organisms*. Tapir Academic Press, Trondheim.

Traavik, T. & Bøhn, T. 2007. Life on Earth. P. 25-40 In: Traavik, T. and Lim, L.C. (eds.) *Biosafety First: Holistic Approaches to Risk and Uncertainty in Genetic Engineering and Genetically Modified Organisms*. Tapir Academic Press, Trondheim.

Referee for the following journals

Ecology, Ecography, Environmental Science and Technology, Hydrobiologia, Oikos, Archive für Hydrobiologie, Annales Zoologici Fennici