

ANNUAL DECLARATION OF INTERESTS (ADoI)

(Please note that high quality of scientific expertise is by nature based on prior experience and that therefore having an interest does not necessarily mean having a conflict of interest)

Name: BROWMAN, Howard

Title: Dr.

Profession: Research Scientist

Current EFSA involvements: Member-AHAW Panel 2012-2015 (AHAW), Chair-Stunning of LAMBS (AHAW), Chair-Stunning of RABBITS (AHAW)

Nature of Activities	Period	Organisation	Subject matter
I. Economic interest			NO INTEREST
II. Member of a management body or equivalent structure			NO INTEREST
III. Member of a scientific advisory body	05/2011 - 05/2011	-Name: EFSA, European Food Safety Authority, Italy, Parma	Hearing Expert - AHAW Network (AHAW)

IV. Employment	03/1998 - now	-Name: Institute of Marine Research	My employer is the primary science/knowledge-based advisory agency in Norway for fisheries, aquaculture and marine and coastal zone management. Aquatic animal welfare is included in our research profile, although I do not work in that research field. I am employed as a permanent (tenured) 100%-time researcher at the State Institute sector equivalent of Full Professor level. My own research concerns the behaviour and physiology of zooplankton and ichthyoplankton in both ecological and aquacultural contexts. I also conduct research aimed at reducing the load of the extoparasitic salmon lice on Atlantic salmon farms. Funding for my reseach comes from the Norwegian government, either directly from the Ministry of Fisheries and Coastal Affairs or from the Research Council of Norway.
V. Ad hoc or occasional consultancy			NO INTEREST

VI. Research funding	01/2011 - now	-Name: Institute of Marine Research	<p>Current funding</p> <p>01/2011 – 12/2014 Institute of Marine Research. “Fine-scale interactions in the plankton – empirical observations to parameterize trophodynamic models”. (Principal Investigators: Howard Browman, Anne Berit Skiftesvik, David Fields & Caroline Durif). NOK 6 400 000</p> <p>01/2012 – 12/2012 The Research Council of Norway (Industrial Design Award). Designing an inexpensive salmon lice trap. (Principal Investigators = Howard I. Browman, Anne Berit Skiftesvik, David Fields). NOK 250 000</p> <p>01/2010 - 12/2014 The Research Council of Norway (Strategic Institute Program). “Effects of climate change on the Calanus complex (ECCO)” (Principal Investigators = Webjørn Melle, Espen Bagøien, Howard Browman & Geir Huse). NOK 37 084 000</p> <p>01/2010 - 12/2013 The Research Council of Norway. “36th Annual Larval Fish Conference” (Principal Investigators = Howard Browman & Anne Berit Skiftesvik). NOK 100 000</p> <p>01/2010 – 12/2012 The Research Council of Norway (Industry-sponsored Research Project Support). “Utvikling av oppdrett-og bruk av berggylte i lakseoppdrett til kontinuerlig kontroll med lakselus – forlengelse av prosjekt 180028”, translation = ”Development of aquaculture and use of the ballan wrasse in salmon farming for the continuous control of sea lice - an extension of project # 180,028” (Principal Investigators = Per Gunnar Kvenseth, Anne Berit Skiftesvik, Ingegjerd Opstad, Howard Browman). NOK 8 100 000</p> <p>01/2010 – 12/2011 Institute of Marine Research. “Effect of ocean acidification on Calanus finmarchicus , krill, and the early life stages of fish”. (Principal Investigators: Howard Browman, Anne Berit Skiftesvik, David Fields, Caroline Durif, V. Thiagarajan, Richard Cloutier). NOK 1 300 000</p> <p>01/2008 – 12/2011 The Research Council of Norway. “Cascading effects of climate change and UV envirottoxins on the nutritional quality of the food base in marine ecosystems” (Principal Investigators = Howard Browman, Michael Arts, Ruben Sommaruga, & Caroline Durif). NOK 4 736 000</p> <p>01/2009 – 12/2011 The Research Council of Norway + Bergen Teknologioverføring AS + Institute of Marine Research. “Developing a trap for the control of salmon lice.” (Principal Investigators = Howard Browman, Anne Berit Skiftesvik & David Fields). NOK 1 050 000</p> <p>2011 Fram – High North Research Centre for Climate and the Environment. “Workshop on acidification in aquatic environments: What can marine science learn from limnological studies of acid rain” (Principal Investigators = Howard Browman, Kari Sorensen, JoLynne Carroll, Helge Tveiten, Clara Manno). NOK 900 000</p> <p>Pending funding</p> <p>Submitted 06/2011 The Research Council of Norway (Centre of Excellence Program). “Marine Ecosystem Acoustics” (Principal</p>
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	01/2011 - 12/2011	-Name: Institute of Marine Research	The research (co-)funding I received from the private sector in the latest full budget year, and for the areas covered by the Panels, does not exceeds 25% of the total annual research budget that is managed by me
VII. Intellectual property rights			NO INTEREST
VIII. Other membership or affiliation			NO INTEREST
IX. Other relevant interest			NO INTEREST
X. Interests of close family members			NO INTEREST

I hereby declare that I have read both the Guidance Document on Declarations of Interests and the Procedure for identifying and handling potential conflict of interests and that the above Declaration of Interests is complete.

Date: 06/03/2013 Signature: **SIGNED**