

## Short CV – Maria Krüger-Johnsen

### Degrees

- MSc (Biology), Dept. of Biological Sciences, University of Copenhagen, Denmark (2002).
- BSc (Biological sciences with French), Biological Sciences Dept., University of Wales, Swansea, UK (1997).

### Positions

- Research Assistant, DTU Aqua, Technical University of Denmark (2010-present).
- Research Assistant, Ecology and Aquaculture, DHI group, Denmark (2009).
- Research Assistant, Institute for Marine Research (IMR), Bergen, Norway (2004-2007).

### Research area

Experimental and field work within fish reproductive biology, nutrition and aquaculture. Significant field experience from fish research survey activity from Norwegian, German, Polish and Danish research surveys, including coordination of international sampling for monitoring purposes related to ICES stock assesment, as well as dedicated sampling for specific research project purposes. Experimental aquaculture experience includes fish culture, rearing and handling, sampling and all aspects of fish welfare and documentation (FELASA B certificate). Laboratory competences includes reproductive histology, fecundity estimation, image analysis and training in molecular tools (PCR and western blotting) is ongoing. In relation to research tasks, reporting of results is implicit as well as organising and compiling data and information from international partners e.g. in relation to ICES surveys, workshops and working groups.

### Memberships of scientific committees, 2011-present

- ICES Workshop on Survey Design and Mackerel and Horse Mackerel Spawning Strategy (WKMSPA) (2012).
- ICES Working Group on Mackerel and Horse Mackerel Egg Surveys (2006-present).
- ICES Workshop on Sexual Maturity Staging of Herring and Sprat (2011).
- ICES Workshop on Sexual Maturity Staging of Cod, Whiting, Haddock and Saithe (2013).

**Peer reviewed publications: 5. Reports: 3.**

### Advisory tasks, 2011-present

- ICES Workshop on Sexual Maturity Staging of Herring and Sprat (2011; Member of organising team).
- ICES Workshop on Sexual Maturity Staging of Cod, Whiting, Haddock and Saithe (2013; Danish Representative).

### Grants, 2011-present

- EU FP7 Collaborative Research Project: Reproduction of European Eel: Towards a Self-sustained Aquaculture (PRO-EEL) (2010-2014, Task Leader).
- InnovationFund Denmark: Eel Hatchery Technology for a Sustainable Aquaculture (2014-2017, Task Leader).

### Research collaboration with stakeholders, 2011-present

Close collaboration with consultants and assistance from industrial project partners in the EU research project PRO-EEL and the national innovation project EEL-HATCH. This collaboration includes collaboration with eel producers, aquaculture consultants and technical assistants, as well as authorities related to animal husbandry and food production.

## Five selected publications

Butts I, Baeza R, Støttrup JG, Krüger-Johnsen M, Jacobsen C, Pérez L, Asturiano J, Tomkiewicz J. (2015). Impact of dietary fatty acids on muscle composition, liver lipids, milt composition and sperm performance in European eel. *Comparative Biochemistry and Physiology. Part A: Molecular & Integrative Physiology*, 183, 87-96.

Støttrup JG, Tomkiewicz J, Jacobsen C, Butts I, Holst LK, Krüger-Johnsen M, Graver C, Lauesen P, Fontagné-Dicharry S, Heinsbroek LTN, Corraze G, Kaushik S. (2015). Development of a broodstock diet to improve developmental competence of embryos in European eel, *Anguilla anguilla*. *Aquaculture Nutrition* (ISSN: 1353-5773) (DOI: <http://dx.doi.org/10.1111/anu.12299>).

Kjesbu OS, Righton D, Krüger-Johnsen M, Thorsen A, Michalsen K, Fonn M, Witthames PR. (2010). Thermal dynamics of ovarian maturation in Atlantic cod (*Gadus morhua*). *Canadian Journal of Fisheries and Aquatic Sciences*, 67(4), 605-625.

Ndjaula HON, Hansen T, Krüger-Johnsen M, Kjesbu OS. (2009). Oocyte development in captive Atlantic horse mackerel *Trachurus trachurus*. *ICES Journal of Marine Science*, 66(4), 623-630.

Bergstad, OA, Hoinés ÅS, Krüger-Johnsen M. (2001) Spawning time, age and size at maturity, and fecundity of sandeel, *Ammodytes marinus*, in the north-eastern North Sea and in unfished coastal waters off Norway. *Aquatic Living Resources*, 14(5), 293-301.