

Short CV – Jonna Tomkiewicz

Degrees

- PhD (Zoology), Population dynamics, University of Copenhagen, Denmark (1993).
- MSc (Biology), Population dynamics, University of Copenhagen, Denmark (1988).

Positions

- Research Coordinator, Fish Biology, DTU Aqua, Technical University of Denmark (2014-present).
- Senior Researcher, Danish Institute for Fisheries Research (DIFRES)/DTU Aqua (2005-present).
- Visiting Scientist, Institute for Marine Sciences at Kiel University, Kiel (3-year leave DIFRES) (2000-2003).
- Research Scientist, DIFRES (1993-1999).

Research area

Fish reproduction strategies and reproductive potential as drivers of marine population dynamics and aquaculture production. Research includes functional anatomy, reproductive and nutritional physiology, and reproductive requirements for application in field studies of marine populations and ecosystems as well as experimental work for aquaculture production.

Distinctions and awards

- Danish International Development Assistance (DANIDA), PhD grant (1989-1993).
- Corrit Fund, Corrit Fund's Academic Travel Grant (April 2013).
- Harvard Business School & InnovationFund Denmark, Pasteur Program (2015).

Memberships of scientific committees, 2011-present

- COST Food and Agriculture, COST Action FA0601: Fish Reproduction and Fisheries (FRESH) (Vice-Chair and Danish Committee Member, 2007-2011).
- COST Food and Agriculture, COST Action FA 1205: Assessing and improving the quality of aquatic animal gametes to enhance aquatic resources (Danish Committee Member, 2012-2016, PI).

Review, 2011-present

- International reviewer New Zealand Ministry of Business, Innovation and Employment (MBI), Science Investment Round, 2013.
- Member of the International Evaluation Committee, French National Research Agency (ANR) 2015 and 2016.
- Reviewer international peer-reviewed journals incl.: PlosOne, MEPS, JMBA, JFB, MB; J Sea Res; ICES JMS.

Peer reviewed publications: 53. Books and book chapters: 2. Reports: 13. International conferences: 25.

Advisory tasks, 2011-present

ICES Workshop on sexual maturity staging of herring and sprat (2011, Chair). ICES Workshop on sexual maturity staging of cod, whiting, haddock, saithe and hake (WKMSGAD) (Co-organizer, 2012-present), ICES Workshop for maturity staging chairs (WKMATCH) (2012-present, Member).

Educational tasks, 2011-present

DTU course: 25801 Aquatic Science and Living Resources - Research communication (Course Leader).

Supervision, 2011-present

PhD students: 5 (Main Supervisor); 1 (Co-Supervisor). **Master students:** 1 (Main Supervisor).

Postdocs: 1 (Main Supervisor).

Grants, 2011-present

- EU FP7 Collaborative Research Project: Reproduction of European Eel: Towards a Self-sustained Aquaculture (PRO-EEL) (2010-2014, Coordinator).
- BONUS BIO-C3: Biodiversity changes – causes, consequences and management implications (2014-2017, PI).
- InnovationFund Denmark: Eel Hatchery Technology for a Sustainable Aquaculture (2014-2017, Coordinator).

Research collaboration with stakeholders, 2011-present

Close collaboration with industrial partners and stakeholders related to the innovation projects PRO-EEL and EEL-HATCH including primarily aquaculture industry but also bioengineering.

Five selected publications

Lafont A-G, Rousseau K, Tomkiewicz J, Dufou S. (2015). Three nuclear and two membrane estrogen receptors in basal teleosts, *Anguilla sp.*: identification, evolutionary history and differential expression regulation. *General and Comparative Endocrinology*. In press. doi:10.1016/j.ygcen.2015.11.021.

Politis SN, Butts IAE, Tomkiewicz J. (2014). Light impacts embryonic and early larval development of the European eel. *Journal of Experimental Marine Biology and Ecology*. 461, 407-415.

Tomkiewicz J, Kofoed TMN, Pedersen JS. (2011). Assessment of testes development during induced spermatogenesis in European eel *Anguilla anguilla*. *Marine and Coastal Fisheries: Dynamics, Management and Ecosystem Science* 3, 106-118.

Bucholtz RH, Tomkiewicz J, Nyengaard JR, Andersen JB. (2013). Oogenesis, fecundity and condition of Baltic herring (*Clupea harengus* L.): A stereological study. *Fisheries Research*, 145, 100-113.

Røjbek M, Tomkiewicz J, Jacobsen C, Støttrup JG. (2014). Forage fish quality: seasonal lipid dynamics of herring (*Clupea harengus* L.) and sprat (*Sprattus sprattus* L.) in the Baltic Sea. *ICES Journal of Marine Science* 71, 56-71.