

Short CV – Sune Riis Sørensen

Degrees

- PhD, DTU Aqua, Technical University of Denmark (2014).
- MSc, Faculty of Science, University of Copenhagen, Denmark (2005).

Positions

- Postdoc, DTU Aqua, Technical University of Denmark (2014-2016)
- PhD Position, DTU Aqua (2010-2014; incl. 1 year of EU-project related work).
- Scientific Research Assistant, Danish Institute of Fisheries Research (DIFRES)/DTU Aqua (2005-2010).

Research area

Early life history of marine fishes including gamete ecophysiology and environmental influences on embryonic and larval development and survival; combining ecological understanding with applications in marine fish egg and larvae incubation and rearing. Ecological field experience comprise fish early life history surveys and fisheries cooperation in the Baltic Seas, Norths Sea and expedition to the Sargasso Sea. Experimental experience involves participation in an array of national and international collaborative research projects related to marine fish hatchery and technology development. These include the EMFF project: Production of Baltic cod larvae for restocking in the eastern Baltic (RESTOCK, 2005-2007) on Atlantic cod aquaculture and different experimental projects on European eel breeding and larviculture, RUFF project: Reproduction of European eel (REEL, 2008-2010), and FP7 EU project: Reproduction of European Eel: Towards a Self-sustained Aquaculture, PRO-EEL, which funded the PhD project, and the present enrolment in Postdoc Fellowship in the InnovationFund Denmark project: Eel hatchery technology for a sustainable aquaculture (EEL-HATCH, 2014-2017).

Particular interests include optimization of larviculture through efficient use of aquaculture recirculation technology (RAS). Central in this context is early life history stages with respect to microbial interaction with the aquatic environment and microbial management of RAS systems. These are key topics of my postdoc on microbial management and larval culture of captive-breed European eel, framed by a basic and growing experience in fish broodstock management and aquaculture hatchery practices.

Distinctions and awards

Elizabeth og Knud Petersens Fond: (2014-2015).

Review, 2011-present

Referee for six international aquatic and aquaculture related journals: Journal of Comparative Physiology - B; The Science of Nature; Aquaculture Research; Aquatic Living Resources; Journal of Fish Biology; Aquaculture.

Peer reviewed publications: 8. Reports: 7. International conferences: 4.

Grants, 2011-present

- FP7 EU: Reproduction of European Eel: Towards a Self-sustained Aquaculture (PRO-EEL) (2010-2014, Task Leader, Web Master)
- InnovationFund Denmark: Eel hatchery technology for a sustainable aquaculture (EEL-HATCH) (2014-2017, Task Leader).

Research collaboration with stakeholders, 2011-present

Close collaboration with the aquaculture industry and fisheries through the national and international projects including: RESTOCK, REEL, PRO-EEL and EEL-HATCH.

Five selected publications

Sørensen SR, Tomkiewicz J, Munk P, Butts IA, Nielsen A, Lauesen P, Graver C. (2016). Ontogeny and growth of early life stages of captive-bred European eel. *Aquaculture*, 456, 50-61.

Sørensen SR, Butts IAE, Munk P, Tomkiewicz J. (2016). Effects of salinity and sea salt type on egg activation, fertilization, buoyancy and early embryology of European eel, *Anguilla anguilla*. *Zygote*, 24(01), 121-138.

Sørensen SR, Tomkiewicz J, Skovgaard A. (2014). Ichthyodinium identified in the eggs of European eel (*Anguilla anguilla*) spawned in captivity. *Aquaculture*, 426, 197-203.

Sørensen SR, Skov PV, Lauesen P, Tomkiewicz J, Bossier P, De Schryver P. (2014). Microbial interference and potential control in culture of European eel (*Anguilla anguilla*) embryos and larvae. *Aquaculture*, 426, 1-8.

Butts IA, Sørensen SR, Politis SN, Pitcher TE, Tomkiewicz J. (2014). Standardization of fertilization protocols for the European eel, *Anguilla anguilla*. *Aquaculture*, 426, 9-13.