

Name: Anne Johanne Tang Dalsgaard

Year of birth: 1971

ORCID

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Degrees

- Ph.D., Faculty of Science, University of Copenhagen, Denmark (2003)
- M.Sc. (RMES), Institute for Resources and Environment, University of British Columbia, Canada (1999)
- B.Sc., Faculty of Science, University of Copenhagen, Denmark (1995)

Employments

- Senior Research Scientist, Section for Aquaculture, DTU Aqua, Denmark (since 2012)
- Research Scientist, Section for Aquaculture, DTU Aqua, Denmark (2008-2012)
- Research Assistant, Danish Institute for Fisheries Research (DIFRES), Denmark (2003-2008)

Main research area

Development of sustainable aquaculture fish feed (alternative ingredients, enzyme supplementation, binders, etc.) with focus on the coupling between fish feed and the excretion of nitrogen, phosphorus, and organic matter in freshwater and saltwater; development of tools for estimating nutrient waste loading and modeling nutrient waste removal from recirculation aquaculture systems (RAS); development of sustainable end-of-pipe technologies for treatment of RAS effluents.

Grants achieved (competitive) and/or project participation

- BØNNEFISK (GUDP; 2025-2028; PL): Development of horse bean protein concentrate for fish feed.
- OPTIFOS (EHFAF; 2024-2027; PL): Optimized enzyme dosing to reduce aquaculture phosphorus discharge.
- Værdikæde – Closing the loop (Erhvervsfremmebestyrelsen; 2024-2026; WPL).
- KVÆLSTOP (EHFAF; 2023-2026; PL): Reducing aquaculture nitrogen discharge by feed optimization.
- MEDUSA (GUDP; 2023-2026; PL): Developing technologies for using jellyfish as a fish feed ingredient.
- FosVind (EHFF; 2021-2023; PL): Reducing aquaculture phosphorus discharge via innovative technologies.
- HAV-TEK (GUDP; 2019 – 2022; WPL): Developing new technological solutions to improve sea cage farming.
- Enorm (MUDP; 2019-2022; PP): Valorization of side streams by insects.
- StArFISH (GUDP; 2016-2020; PL): Resource efficiency in practice: sugar beet waste as fish feed ingredient.
- European Maritime and Fisheries Fund (EMFF, 2016-2019; WPL): Optimering af indretning og drift af plantelaguner på dambrug.
- Exipro (Innovation Fund Denmark; 2014-2018; WPL): New physicochemical and technological approach for high quality and sustainable fish feed production.
- Nordic Council of Ministers (2011-2019, 2023; PL): Nordic network on Recirculating Aquaculture Systems.
- UDTÆNK (EFF; 2012-2015; PL): Development of sustainable technologies and modeling tools in aquaculture aiming at increasing overall production.
- Best available technology applicable to traditional pond farms (EFF; WPL; 2012-2015).
- wiN-wiN; GUDP 2012-2015; WPL): Eco-efficient nitrogen removal via sludge hydrolysis in fish farming.
- Udvikling af teknologier og beregningsværktøjer til understøttelse af produktionsforøgelser og bæredygtig udvikling i akvakultursektoren (EFF; PP; 2012-2014).
- Enzymes in fish feed (Danish Innovation Law; 2008-2010; PL).

Innovation activities

- Dalsgaard, AJT, Pedersen, PB. (2018). Produktionsbidragsmodel for rognfisk ("havbrugsørreder") i saltvand (1-4 kg) (www.aquawaste.dk).
- Dalsgaard, AJT, Pedersen, PB. (2016). Produktionsbidragsmodel for opdræt af portionsørreder i ferskvand (op til 800 g) (www.aquawaste.dk).
- Dalsgaard, AJT, Pedersen, PB. (2015). Dambrugsmode for opdræt af portionsørreder i ferskvand (www.aquawaste.dk).

Collaboration with other stakeholders

Aller Aqua, Aarhus Protein, AquaPri, Aurelins, Binderup Mølle Dambrug, BioMar, Christiansminde Fish Farm, CP Kelco, Danish Aquaculture Organisation (DA), Danish municipal "ERFA" aquaculture meetings, Enorm Biofactory, Huvepharma, Hornum Murer og Entreprenørfirma, Jedsted Mølle Dambrug, Lundby Fish Farm, Nordic Seed, NordInvent, Snaptun Frysehus, Vestjyllands Andel.

Memberships of scientific committees, 2015-present

Appointed specialist at Miljø- og Fødevareklagenævnet (2017-2024).

NordicRAS network coordinator and main organizer of biennial international NordicRAS workshops since 2011 (www.nordicRAS.net).

Scientific Advisory Board, Centre of Research-based Innovation in Closed-Containment Aquaculture (CtrlAQUA, Nofima, Norway, 2015-2023).

Web of Science publications: 49. **Citations:** 6063. **h-index:** 22. **Book chapters:** 1. **Reports:** 41.

International conferences: Contributions as first author: 6. **Invited:** 1. **Organizing role:** 7.

Evaluation tasks

- Chairman of PhD committee for P.M. Fernandes (2015), P. Rojas-Tirado (2017), R. Golcalves (2021).
- Technical committee member evaluating new BAP Vanguard Standard for RAS developed by GAA.
- External expert, Research Council of Norway (2012, 2018, 2019).
- Aquacultural Engineering Guest Editor (2011-2019).
- Aquacultural Engineering Society Board member (2012-2014).
- Referee for a large number of international journals including e.g., Aquaculture, Aquaculture and Fisheries, Aquaculture International, Aquaculture Nutrition, Aquaculture Reports, Aquaculture Research, Animal Feed Science and Technology, Applied Microbiology and Biotechnology, Ecological Engineering, Fish Physiology and Biochemistry.

Supervision

Postdocs: 3; PhD students: 9 (main supervisor: 4, co-supervisor 5); BSc & MSc students: 5.

Distinctions and awards

Best Young Scientist, ICES Annual Science Conference, Cascais, Portugal (1998).

Unidanmark-fonden (1997).

Københavns Universitets Internationaliserings Stipendium (1996).

Knud Højgaards Fond (1996).

Publication list

ISI journal publications

- von Ahnen, M., **Dalsgaard, J.** (2025). Orthophosphate removal from aquaculture effluents combining crushed concrete and woodchip filters. *Environmental Technology*, *submitted*.
- Eggink, K.M., Aalto, S.L., Pedersen, P.B., Lund, I., **Dalsgaard, J.** (2025). Effects of dietary chitin on nutrient digestibility, cholesterol metabolism, digestive enzyme activity, and gut microbiome in rainbow trout. *Animal Feed Science and Technology*, *submitted*.
- Huang, X., Aalto, S.L., **Dalsgaard, J.**, Pedersen, P.B. (2024). Can dietary C:N ratio influence water quality and microbiology in recirculating aquaculture systems? *Aquaculture International* 32, 7789-7805
- Huang, X., **Dalsgaard, J.**, Aalto, S.L., Lund, I., Pedersen, P.B. (2023). Influence of dietary phosphorus on orthophosphate accumulation in recirculating aquaculture systems with rainbow trout (*Oncorhynchus mykiss*). *Aquacultural Engineering* 103, 102363. <https://doi.org/10.1016/j.aquaeng.2023.102363>
- Verdegem, M., Buschmann, A.H., Latt, U.W., **Dalsgaard, A.J.T.**, Lovatelli, A. 2023. The contribution of aquaculture systems to global aquaculture production. *Journal of the World Aquaculture Society* 54, 206-250. DOI: 10.1111/jwas.12963
- **Dalsgaard, J.**, Ekmann, K.S., Jensen, M.D., Pedersen, P.B. (2023). Reducing phosphorus emissions from net cage fish farming by diet manipulation. *Journal of Environmental Management*. 334, 117445. <https://doi.org/10.1016/j.jenvman.2023.117445>
- Eggink, K.M., **Dalsgaard, J.** Chitin contents in different black soldier fly (*Hermetia illucens*) life stages. *Journal of Insects as Food and Feed*. Accepted

- Eggink, K.M., Donoso, I.G., **Dalsgaard, J.**, 2023. Optimal dietary protein to carbohydrate ratio for black soldier fly (*Hermetia illucens*) larvae. Journal of Insects as Food and Feed. <https://doi.org/10.3920/JIFF2022.0102>
- Eggink, K.M., Lund, I., Pedersen, P.B., Hansen, B.W., **Dalsgaard, J.** (2022). Biowaste and by-products as rearing substrates for black soldier fly (*Hermetia illucens*) larvae: Effects on larval body composition and performance. PLoS ONE 17(9): e0275213. <https://doi.org/10.1371/journal.pone.0275213>
- Eggink, K.M., Pedersen, P.B., Lund, I., **Dalsgaard, J.** (2022). Chitin digestibility and intestinal exochitinase activity in Nile tilapia and rainbow trout fed different black soldier fly larvae meal size fractions. Aquaculture Research, 2022;00:1-11, <https://doi.org/10.1111/are.16035>
- Gregersen, K.J.J., Pedersen, L.-F., Pedersen, P.B., Syropoulou, E., **Dalsgaard, J.** (2021). Foam fractionation and ozonation in freshwater recirculation aquaculture systems. Aquacultural Engineering, 95, 102195. <https://doi.org/10.1016/j.aquaeng.2021.102195>
- **Dalsgaard, J.**, von Ahnen, M., Pedersen, P.B. (2021). Nutrient removal in a slow-flowing constructed wetland treating aquaculture effluent. Aquaculture Environment Interactions, 13, 363-376. <https://doi.org/10.3354/aei00411>.
- Mathis von Ahnen; Per Bovbjerg Pedersen; **Johanne Dalsgaard** (2021). Effect of different C/N ratios and hydraulic retention times on denitrification in saline, recirculating aquaculture system effluents. Aquacultural Engineering, 94, 102170.
- Mathis von Ahnen; Per Bovbjerg Pedersen; **Johanne Dalsgaard** (2020). Improving denitrification in an aquaculture wetland using fish waste - a case study. Ecological Engineering, 143, 1-8. DOI: <https://doi.org/10.1016/j.ecoleng.2019.105686>
- Gregersen, K.J.J., Pedersen, P.B., Pedersen, L.-F., **Dalsgaard, J.** (2020). UV and micro filtration effects on micro particle development and microbial water quality in recirculation aquaculture systems. Aquaculture, 518, 734785. DOI: 10.1016/j.aquaculture.2019.734785
- Gregersen, J.J., Pedersen, P.B., Pedersen, L.-F., **Dalsgaard, J.** (2019). Micro particles and microbial activity in Danish recirculating rainbow trout (*Oncorhynchus mykiss*) farms. Aquacultural Engineering 84: 60-66. DOI: <https://doi.org/10.1016/j.aquaeng.2018.12.001>
- von Ahnen, M., Pedersen, P.B., **Dalsgaard, J.** (2018). Performance of full-scale woodchip bioreactors treating effluents from commercial RAS. Aquacultural Engineering, 83, 130-137. DOI: <https://doi.org/10.1016/j.aquaeng.2018.10.004>
- **Dalsgaard, J.**, von Ahnen, M., Naas, C., Pedersen, P.B. (2018). Nutrient removal in a constructed wetland treating aquaculture effluent at short hydraulic retention time. Aquaculture Environment Interactions, 10, 329-343. DOI: <https://doi.org/10.3354/aei00272>
- von Ahnen, M., Pedersen, P.B., **Dalsgaard, J.** (2018). Nitrate removal from aquaculture effluents using woodchip bioreactors improved by adding sulfur granules and crushed seashells. Water Science and Technology, 77(9), 2301-2310.
- Jasour, M.S., Wagner, L., Sundekilde, U.K., Larsen, B.K., Rasmussen, H.T., Hjermitsev, N.H., Hammershøj, M., **Dalsgaard, A.J.T.**, Dalsgaard, T.K. (2018). Fishmeal with different levels of biogenic amines in aquafeed: Comparison of feed protein quality, fish growth performance, and metabolism. Aquaculture, 488, 80-89
- Jasour, M.S., Wagner, L., Sundekilde, U.K., Larsen, B.K., Greco, I., Orlén, V., Olsen, K., Rasmussen, H.T., Hjermitsev, N.H., Hammershøj, M., **Dalsgaard, A.J.T.**, Dalsgaard, T.K. (2017). A comprehensive approach to assess feathermeal as an alternative protein source in Aquafeed. Journal of Agricultural and Food Chemistry 65(48): 10673–10684.
- **Dalsgaard, J.**, Pedersen, L.-F., Pedersen, P.B. (2017). Optimizing RAS operations by new measures, Aquacultural Engineering, Vol. 78 A, 1.
- Letelier-Gordo, C.O., Larsen, BK, **Dalsgaard, J.**, Pedersen, PB. (2017). The composition of readily available carbon sources produced by fermentation of fish faeces is affected by dietary protein:energy ratios. Aquaculture Engineering 77, 27-32. DOI: 10.1016/j.aquaeng.2017.01.006
- Pedersen, P.B., von Ahnen, M., Fernandes, P., Naas, C., Pedersen, L.-F., **Dalsgaard, A.J.T.** (2017). Particle surface area and bacterial activity in recirculating aquaculture systems. Aquacultural Engineering, 78 A, 18-23.
- von Ahnen, M., Pedersen, P.B., Hoffmann, C.C., **Dalsgaard, J.** (2016). Optimizing nitrate removal in woodchip beds treating aquaculture effluents. Aquaculture, Aquaculture, Vol. 458, 47-54.
- **Dalsgaard, J.**, Bach Knudsen, K.E., Verlhac, V., Ekman, K., Pedersen, P.B. (2016). Supplementing enzymes to extruded, soybean based diet improves breakdown of non-starch polysaccharides in rainbow trout (*Oncorhynchus mykiss*). Aquaculture Nutrition, Vol. 22, No. 2, 419–426. DOI: 10.1111/anu.12258.

- Rolland, M., Skov, P. V., Larsen, B. K., Holm, J., Gómez-Requeni, P., **Dalsgaard, A. J. T.** (2016). Increasing levels of dietary crystalline methionine affect plasma methionine profiles, ammonia excretion, and the expression of genes related to the hepatic intermediary metabolism in rainbow trout (*Oncorhynchus mykiss*). *Comparative Biochemistry and Physiology. Part B: Biochemistry & Molecular Biology* 198, 91-99.
- Rolland, M., Feekings, J.P., **Dalsgaard, J.**, Holm, J., Skov, P.V. (2016). Modelling effects of dietary methionine levels and form on postprandial plasma essential amino acid profiles in rainbow trout (*Oncorhynchus mykiss*). *Aquaculture Nutrition*, Vol. 22, No. 6, 1185–1201. DOI: 10.1111/anu.12325.
- von Ahnen, M., Pedersen, P.B., **Dalsgaard, A.J.T.** (2016). Start-up performance of a woodchip bioreactor operated end-of-pipe at a commercial fish farm - A case study. *Aquacultural Engineering*, Vol. 74, 96-104.
- **Dalsgaard, J.**, Pedersen, L.F., Pedersen, P.B. (2015). Preface: Recirculation technology getting mature. *Aquacultural Engineering* 65, 1.
- **Dalsgaard, J.**, Larsen, B.K., Pedersen, P.B. (2015). Nitrogen waste from rainbow trout (*Oncorhynchus mykiss*) with particular focus on urea. *Aquaculture Engineering*, 65, 2-9.
- Larsen, B.K., **Dalsgaard, J.**, Pedersen, P.B. (2015). An optimised and simplified method for analysing urea and ammonia in freshwater aquaculture systems. *Aquaculture Research* 46, 1608-1618.
- Letelier-Gordo, C.O., **Dalsgaard, J.**, Suhr, K.I., Ekmann, K.W., Pedersen, P.B. (2015). Reducing the dietary protein:energy (P:E) ratio changes solubilization and fermentation of rainbow trout (*Oncorhynchus mykiss*) faeces. *Aquacultural Engineering* 66, 22-29.
- Rolland, M., **Dalsgaard, J.**, Holm, J., Gómez-Requeni, P., Skov, P.V. (2015). Dietary methionine level affects growth performance and hepatic gene expression of GH-IGF system and protein turnover regulators in rainbow trout (*Oncorhynchus mykiss*) fed plant protein-based diets. *Comparative Biochemistry and Physiology, Part B*, 181: 33-41.
- Rolland, M., Larsen, B.K., Holm, J., **Dalsgaard, J.**, Skov, P.V. (2015). Effect of plant protein and crystalline amino acid supplementation on postprandial plasma amino acid profiles and metabolic response in rainbow trout (*Oncorhynchus mykiss*). *Aquaculture International* 23, 1071-1087. DOI:10.1007/s10499-014-9865-4.
- von Ahnen, M., Pedersen, L.-F., Pedersen, P.B., **Dalsgaard, J.** (2015). Degradation of urea, ammonia and nitrite in moving bed biofilters operated at different loadings. *Aquaculture Engineering*, Vol. 69, 50-59.
- **Dalsgaard, J.**, Lund, I., Thorarinsdottir, R., Drengstig, A., Arvonen, K., Pedersen, P.B. (2013). Farming different species in RAS in Nordic countries: Current status and future perspectives. *Aquacultural Engineering* 53, 2-13.
- **Dalsgaard, J.**, Pedersen, L.-F., Pedersen, P.B. (2013). Preface: Recirculation technology: science meets practice. *Aquacultural Engineering* 53, 1.
- Ekmann, K., **Dalsgaard, A.**, Holm, J., Campbell, P., Skov, P.V. (2013). Effects of dietary energy density and digestible protein:energy ratio on de novo lipid synthesis from dietary protein in gilthead sea bream (*Sparus aurata*) quantified with stable isotopes. *British Journal of Nutrition*, 110(10):1771-81. DOI: 10.1017/S000711451300128
- Ekmann, K., **Dalsgaard, A.**, Holm, J., Campbell, P., Skov, P. (2013). Glycogenesis and de novo lipid synthesis from dietary starch in juvenile gilthead sea bream (*Sparus aurata*) quantified with stable isotopes. *British Journal of Nutrition*, 109(12), 2135-2146.
- Lund, I., **Dalsgaard, J.**, Jacobsen, C., Hansen, J.H., Holm, J., Jokumsen, A. (2013). Effects of organic plant oils and role of oxidation on nutrient utilization in juvenile rainbow trout (*Oncorhynchus mykiss*). *Animal*, 7(3), 394-403.
- **Dalsgaard, J.**, Verlhac, V., Hjermslev, N.H., Ekmann, K.S., Fischer, M., Klausen, M. Pedersen, P.B. (2012). Effects of exogenous enzymes on apparent nutrient digestibility in rainbow trout (*Oncorhynchus mykiss*) fed diets with high inclusion of plant-based protein. *Animal Feed Science and Technology*, 171, 181-191.
- Larsen, B.K., **Dalsgaard, J.**, Pedersen, P.B. (2012). Effects of plant protein on postprandial, free plasma amino acid concentrations in rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 326-329, 90-98.
- Pedersen, L.F., Suhr, K.I., **Dalsgaard, J.**, Pedersen, P.B., Arvin, E. (2012). Effects of feed loading on nitrogen balances and fish performance in replicated recirculating aquaculture systems. *Aquaculture* 338, 237-245.
- **Dalsgaard, J.**, Pedersen, P.B. (2011). Solid and suspended/dissolved waste (N, P, O) from rainbow trout (*Oncorhynchus mykiss*). *Aquaculture* 313 (1-4): 92-99.

- Lund, I., **Dalsgaard, J.**, Rasmussen, H.T., Holm, J., Jokumsen, A. (2011). Replacement of fish meal with a matrix of organic plant proteins in organic trout (*Oncorhynchus mykiss*) feed, and the effects on nutrient utilization and fish performance. *Aquaculture* 321, 259-266. <https://doi.org/10.1016/j.aquaculture.2011.09.028>
- **Dalsgaard, J.**, Ekmann, K.S., Pedersen, P.B., Verlhac, V. (2009). Effect of supplemented fungal phytase on performance and phosphorus availability by phosphorus-depleted juvenile rainbow trout (*Oncorhynchus mykiss*), and on the magnitude and composition of phosphorus waste output. *Aquaculture* 286, 105-112. <https://doi.org/10.1016/j.aquaculture.2008.09.007>
- **Dalsgaard, J.** and St. John, M. (2004). Fatty acid biomarkers: validation of food web and trophic markers using ¹³C-labelled fatty acids in juvenile sandeel (*Ammodytes tobianus*). *Canadian Journal of Fisheries and Aquatic Sciences* 61:1671-1680.
- **Dalsgaard, J.**, St. John, M., Kattner, G., Müller-Navarra, D. and Hagen, W. (2003). Fatty acid trophic markers in the pelagic marine environment. *Advances in Marine Biology* 46: 225-340.
- Pauly, D., Christensen, V., **Dalsgaard, J.**, Froese, R. and R. Torres Jr. (1998). Fishing down marine food webs. *Science* 279: 860 - 863.
- Pauly, D., **Dalsgaard, J.**, Okey, T.A., Powell, R., Pimm, S. (1998). Mass-balance food web ecosystem models as an alternative approach for combining multiple information sources in fisheries. *Fishery Stock Assessment Models* 15: 815-815.

Non-ISI journal publications

- Dalsgaard, J., Pedersen, P.B. (2012). Trout farming in Denmark: recent trends and future prospects. *AES Newsletter*, 15 (1), 2-4.
- Dalsgaard, A.J.T. (2008). Skarvens rolle i Ringkøbing Fjord belyst ved en model. In "Nyhedsbrev 4: Samarbejdsprojekt om skarvregulering og fiskebestandene i de vestjyske fjorde", p. 21-24.
- Dalsgaard, J., Jarre-Teichmann, A., Walters, C. and D. Pauly. (1998). An approach to the modelling of persistent pollutants in marine ecosystems. *ICES C.M.*, 1998/V:10, 16 p.

Book chapters

Jokumsen, A., Pedersen, P.B., Dalsgaard, A. J. T., Lund, I., Paulsen, H., Rasmussen, R.S., Hyldig, G. (2009). New methods in trout farming to reduce the farm effluents - Case study in Denmark. In: Váradi, L., Bardócz, T., Oberdieck, A. (Eds.), *A handbook for sustainable aquaculture - Integrated approach for a sustainable and healthy aquaculture*. SustainAqua Collective Research, pages: 58-70

Memos

- Pedersen, P. B., & Dalsgaard, A. J. T., (2025). Omlægning eller etablering af akvakultur i det åbne land (landzoner), No. 25/1001317, 5 p., Jan 31, 2025.
- Pedersen, P.B., Dalsgaard, A.J.T., Svendsen, L.M. (9. april 2013). Notat med forslag til reviderede BAT-værdier på dambrug. DTU Aqua, Danmarks Tekniske Universitet samt DCE - Nationalt Center for Miljø og Energi, Aarhus Universitet.
- Dalsgaard, AJT, Pedersen, PB. 2021. Indretning og drift af plantelaguner på Modeldambrug.

Reports

- Dalsgaard, A.J.T., & von Ahnen, M. (2025). Reduktion af fosforudledning fra fiskeopdræt gennem foderoptimering og slutrensning med knust beton (FosVind). DTU Aqua-rapport No. 472-2024 (*Accepted/In press*).
- Dalsgaard, J. (ed.). (2023). 6th NordicRAS Workshop on Recirculating Aquaculture Systems, Tromsø, Norway, 3-4 October 2023. Book of Abstracts. DTU Aqua Report No. 431-2023.
- Poelman et al. (2021). Study on state-of-the-art scientific information on the impacts of aquaculture activities in Europe. European Commission, European Climate, Infrastructure and Environment Executive Agency, Unit D.3 – Sustainable Blue Economy, Final Report, 17 December 2021
- Dalsgaard, AJT, Pedersen, PB. (2021). Indretning og drift af plantelaguner på Modeldambrug (<https://danskakvakultur.dk/rapporter/>)

- Dalsgaard, J. (ed.). (2019). 5th NordicRAS Workshop on Recirculating Aquaculture Systems, Berlin, Germany, 4-8 October 2019. Book of Abstracts. DTU Aqua Report No. 350-2019.
- P.B. Pedersen, A.J.T. Dalsgaard, M. von Ahnen, K. Michelsen, B.Thomsen. (2019). Optimering af indretning og drift af plantelaguner på dambrug. Faglig rapport fra Dansk Akvakultur nr. 2019-2
- P.B. Pedersen, A.J.T. Dalsgaard, M. von Ahnen, K. Michelsen, B.Thomsen. (2019). End-of-Pipe rensning på dambrug. Faglig rapport fra Dansk Akvakultur nr. 2019-3
- Dalsgaard, J. (ed.). (2017). 4th NordicRAS Workshop on Recirculating Aquaculture Systems, Aalborg, Denmark, 12-13 October 2017. Book of Abstracts. DTU Aqua Report No. 321-2017.
- Dalsgaard, J., Pedersen, P.B. (2016). Produktionsbidrag og dambrugsmode: manual og modelforudsætninger. DTU Aqua-rapport nr. 309-2016
- Dalsgaard, A.J.T. (ed.). (2015). 3rd NordicRAS Workshop on Recirculating Aquaculture Systems Molde, Norway, 30 September - 1 October 2015. Book of Abstracts. DTU Aqua Report no. 301-2015.
- Nielsen, P., Saurel, C., Dalsgaard, A.J.T. (2015). Samtidigt opdræt af blåmuslinger og tang i forbindelse med havbrug. DTU Aqua-rapport nr. 297-2015.
- Dalsgaard, A.J.T., Pedersen, P.B. (2014). Produktionsbidragsmodel version 3.1 & Dambrugsmode version 3.0 Manual og modelforudsætninger. DTU Aqua. (www.aquawaste.dk)
- Dalsgaard, A.J.T. (ed.). (2013). 2nd Workshop on Recirculating Aquaculture Systems, Aalborg, Denmark, 10-11 October 2013. Program and Abstracts. DTU Aqua report no. 267-2013.
- Buchmann, K., Dalsgaard, I., Dalsgaard, A.J.T., Pedersen, P.B., Svendsen, L.M., Henriksen, N.H., Michelsen, K., Thomsen, B., (2012). Optimering af driften på klassiske dambrug. Faglig rapport fra Dansk Akvakultur nr. 2012-5.
- Dalsgaard, A.J. (ed.). (2011). Workshop on Recirculating Aquaculture Systems, Helsinki, October 5-6, 2011. Book of Abstract. DTU Aqua report no. 237-2011.
- Svendsen, L.M., Larsen, S.E., Dalsgaard, A.J.T., Plesner, L.J., Michelsen, K. (2011). Renseeffektivitet på Model 1 dambrug: Rapportering af WP4 under dambrugsteknologiprojektet. Faglig rapport fra DMU, Aarhus Universitet, nr. 842.
- Svendsen, L.M., Larsen, S.E., Dalsgaard, A.J.T. (2011). Dataopsamling, Renseeffektivitet på model 1 dambrug. In : Fra: Dambrugsteknologi. Samlerapport. In: Dambrugsteknologi, optimering af driften på etablerede modeldambrug og fortsat videreudvikling af recirkuleringsteknologien. Sammenfatning. Dansk Akvakultur, pp. 18-19.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2009a). Rens Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 2.måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 208-09.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2009b). Nørå Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 2. måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 207-09.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2009c). Abildtrup Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 2. måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 206-09.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2009d). Løjstrup Dambrug (øst) - et modeldambrug under forsøgsordningen : Statusrapport for 2. måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 203-09.
- Dalsgaard, J., Christensen, V., Nicolajsen, H., Koed, A., Støttrup, J., Grooss, J.I., Bregnballe, T., Sørensen, H.L., Christensen, J.T., og Nielsen, R. (2008). Økosystemmodel for Ringkøbing Fjord - skarvbestandens påvirkning af fiskebestandene. DFU-rapport 178-07.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Bouttrup, S., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T., Suhr, K. (2008a). Modeldambrug under forsøgsordningen. Faglig slutrapport for "Måle- og dokumentationsprojekt for modeldambrug". DTU Aqua-rapport 193-08.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2008b). Ejstrupholm Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 2. måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 188-08.

- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2008c). Tingkærvad Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 2. måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 187-08.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2008d). Tvilho Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 2. måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 184-08.
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2008e). Kongeåens Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 2. måleår af monitoringsprojektet med væsentlige resultater fra første måleår. DTU Aqua-rapport 182-08.
- Svendsen, L.M., Sortkjær, O., Bering Ovesen, N., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2007a). Rens Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 1. måleår af monitoringsprojektet. DFU-rapport 176-07
- Svendsen, L.M., Sortkjær, O., Bering Ovesen, N., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2007b). Nørå Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 1. måleår af monitoringsprojektet. DFU-rapport 175-07
- Svendsen, L.M., Sortkjær, O., Bering Ovesen, N., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2007c). Abildtrup Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for 1. måleår af monitoringsprojektet. DFU-rapport 174-07
- Svendsen, L.M., Sortkjær, O., Bering Ovesen, N., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2007d). Tingkærvad Dambrug - et modeldambrug under forsøgsordningen: Statusrapport for 1. måleår af monitoringsprojektet. DFU-rapport 173-07
- Svendsen, L.M., Sortkjær, O., Bering Ovesen, N., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2007e). Løjstrup Dambrug (øst) - et modeldambrug under forsøgsordningen. Statusrapport for 1. måleår af monitoringsprojektet. DFU-rapport 172-07
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2006a). Tvilho Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for første måleår af monitoringsprojektet. DFU-rapport 168-06
- Svendsen, L.M., Sortkjær, O., Bering Ovesen, N., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2006b). Ejstrupholm Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for første måleår af monitoringsprojektet. DFU-rapport 166-06
- Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Pedersen, P.B., Rasmussen, R.S., Dalsgaard, A.J.T. (2006c). Kongeåens Dambrug - et modeldambrug under forsøgsordningen. Statusrapport for første måleår af monitoringsprojektet. DFU-rapport 164-06
- Dalsgaard, J. (2004). Fatty acid biomarkers as a potential tool in recruitment biology. In: Report of the Working Group on Recruitment Processes (WGRP). ICES Oceanography Committee, ICES CM 2004/C:09.
- Dalsgaard, J. (2003). Fatty acid trophic markers as measures of energy transfer through marine food webs exemplified by sandeel. Ph.D. Thesis, University of Copenhagen, Denmark. 131 p.
- Dalsgaard, J. (1999). Modeling the trophic transfer of beta radioactivity in the marine food web of Enewetak Atoll, Micronesia. M.Sc. Thesis, University of British Columbia, Vancouver, Canada. 122 p.
- Dalsgaard, J., Wallace, S.S., Salas, S. and D. Preikshot. (1998). Mass-balance models of the Strait of Georgia: the present, one hundred, and five hundred years ago, p. 72-91. In Pauly, D., Pitcher, T. and D. Preikshot (eds.): Back to the future: reconstructing the Strait of Georgia ecosystem. Fisheries Centre Research Reports 6(5).
- Preikshot, D., Wallace, S.S., Salas, S. and J. Dalsgaard. (1998). Combining knowledge of the Strait of Georgia: report from workshop discussions, p. 65-71. In Pauly, D., Pitcher, T. and D. Preikshot (eds.): Back to the future: reconstructing the Strait of Georgia ecosystem. Fisheries Centre Research Reports 6(5).
- Dalsgaard, J. and D. Pauly. (1997). Preliminary mass-balance model of Prince William Sound, Alaska, for the pre-spill period, 1980-1989. Fisheries Centre Research Reports 5(2).

Abstracts

- Dalsgaard, J., Pedersen, P.B. 2024. Minimizing phosphorus discharge from aquaculture. AQUA 2024, August 26-30, 2024, Bella Centre, Copenhagen, Denmark. Oral presentation
- von Ahnen, M., Vågnes, K.K., van de Ven, I., Dalsgaard, J. 2024. Removal of dissolved phosphorus from aquaculture effluents using crushed concrete. AQUA 2024, August 26-30, 2024, Bella Centre, Copenhagen, Denmark.
- Huang, H., Aalto, S.L., Dalsgaard, J., Nguyen-tiêt, A., Pedersen, P.B. 2024. Can dietary phosphorus levels affect microbiology in recirculating aquaculture systems? AQUA 2024, August 26-30, 2024, Bella Centre, Copenhagen, Denmark.
- de Jesus Gregersen, K. J., Pedersen, P. B., Pedersen, L., Liu, D., Dalsgaard, J. (2019). Combining UV and micro filtration to manage microbial water quality in recirculating aqua culture systems. 5th NordicRAS Workshop on Recirculating Aquaculture Systems. Berlin, Germany, 7-8 October 2019: Book of Abstracts. DTU Aqua-rapport; No. 350-2019.
- de Jesus Gregersen, J., Pedersen, P. B., Pedersen, L., Møller, B., Dalsgaard, A. J. T. Micro particles in Danish Model Trout Farms. 4th NordicRAS Workshop on Recirculating Aquaculture Systems. Aalborg, Denmark, 12-13 October 2017 : Book of Abstracts. DTU Aqua Report; No. 321-17
- von Ahnen, M., Pedersen, P. B., Dalsgaard, A. J. T. (2017). First experiences from full-scale denitrifying woodchip bioreactors operated end-of-pipe at commercial RAS. 4th NordicRAS Workshop on Recirculating Aquaculture Systems. Aalborg, Denmark, 12-13 October 2017 : Book of Abstracts. DTU Aqua Report; No. 321-17
- Letelier-Gordo, C.O., B.K. Larsen, Dalsgaard, J., Pedersen, P.B. (2015). Feed composition affects sludge as a resource for denitrification. Abstract in: 3rd NordicRAS Workshop on Recirculating Aquaculture Systems Molde, Norway, 30 September - 1 October 2015. Book of Abstracts. DTU Aqua-rapport nr. 301-2015.
- Pedersen, P.B., von Ahnen, M., Fernandes, P., Naas, C., Pedersen, L.-F., Dalsgaard, J. (2015). Room for all? - particulate surface area and bacterial activity in RAS. Abstract in: 3rd NordicRAS Workshop on Recirculating Aquaculture Systems Molde, Norway, 30 September - 1 October 2015. Book of Abstracts. DTU Aqua-rapport nr. 301-2015.
- von Ahnen, M., Pedersen, P.B., Dalsgaard, J. (2015). End-of-pipe removal of nitrogen using woodchip beds. Abstract in: 3rd NordicRAS Workshop on Recirculating Aquaculture Systems Molde, Norway, 30 September - 1 October 2015. Book of Abstracts. DTU Aqua-rapport nr. 301-2015.
- Letelier-Gordo, Carlos Octavio, Dalsgaard, A.J.T., Suhr, K.I., Pedersen, P.B. (2014). Effects of dietary protein: energy ratios on hydrolysis and fermentation of faecal solids from rainbow trout (*Oncorhynchus mykiss*) for denitrification. Abstract from the 10th International Conference on Recirculating Aquaculture, Roanoke, VA, United States
- von Ahnen, M., Pedersen, L.-F., Pedersen, P.B., Dalsgaard, A.J.T. (2014). Removal of urea, ammonium and nitrite in moving bed biofilters operated at different loadings. Abstract from the 10th International Conference on Recirculating Aquaculture, Roanoke, VA, United States.
- Dalsgaard, J., Larsen, B.K., Pedersen, P.B. (2013). Nitrogen waste load from juvenile rainbow trout (*Oncorhynchus mykiss*). Abstract in: 2nd Workshop on Recirculating Aquaculture Systems Aalborg, Denmark, 10-11 October 2013.
- Rolland, M., Larsen, B.K., Holm, J., Dalsgaard, A.J.T., Skov, P.W. (2013). Influence of inclusion level and form of dietary methionine in plant protein based diets on growth performances, ammonium excretion and postprandial methionine plasma levels in rainbow trout (*Oncorhynchus mykiss*). Abstract from: Aquaculture Europe 13, Trondheim, Norway
- Dalsgaard, J., Pedersen, P-B. (2012). Effects of cleaning devices on nutrient (N, P, O) balances and removal in a small scale, partially recirculating trout farm. Abstract from the 9th International Conference on Recirculating Aquaculture – August 24 – 26, 2012, Roanoke, VA, United States.
- Rolland, M., Holm, J., Dalsgaard, A.J.T., Larsen, B.K., Skov, P.W. (2012). Influence of protein source on amino acid uptake patterns and protein utilization in rainbow trout (*Oncorhynchus mykiss*). Abstract in: AQUA 2012: Global Aquaculture securing our future, Prague, Czech Republic.
- Dalsgaard, A.J. (2011). Feed and organic matter. Abstract in: Worskhop on Recirculating Aquaculture Systems, Helsinki, October 5-6, 2011. DTU Aqua-rapport 237-2011.
- Pedersen, P.B., Pedersen, L.F., Suhr, K., Dalsgaard, A.J., Arvin, E. (2011). Influence of feed ingredients on water quality parameters in RAS. Abstract in: Worskhop on Recirculating Aquaculture Systems, Helsinki, October 5-6, 2011. DTU Aqua-rapport 237-2011.

- Dalsgaard, A.J.T., Hjermslev, N.H., Ekmann, K.S., Verlhac, V., Pedersen, P.B., Klausen, M. (2010). Effects of supplemental enzymes on apparent nutrient digestibility in rainbow trout (*Oncorhynchus mykiss*) fed plant-based diets. Abstract in: International Symposium on Fish Nutrition & Feeding (ISFNF) - 14th, 2010, Qingdao, China.
- Lund, I., Dalsgaard, A.J.T., Jokumsen, A., Larsen, B.K. (2010). Organic vegetable proteins and oil in feed for organic rainbow trout (*Oncorhynchus mykiss*). Abstract in: International Symposium on Fish Nutrition & Feeding (ISFNF) - 14th, 2010, Qingdao, China.
- Jokumsen, A., Plesner, L.J., Pedersen, P.B., Dalsgaard, A.J.T., Lund, I., Paulsen, H., Rasmussen, R.S. (2009). Danish model trout farms – Technology and environmental impact. Abstract in: Aquaculture Europe 09 "New Research Frontiers - Novel Approaches for Evolving Needs", 2009, Trondheim, Norway
- Jokumsen, A., Lund, I., Dalsgaard, A.J.T., Dalsgaard, I., Nielsen, N.H., Rasmussen, H.T., Larsen, V.J., Bell, P., Holm, J. (2009). Proteinafgrøder til økologiske regnbueørreder (*Oncorhynchus mykiss*). Presented at: Økologi-kongres, 2009, Odense, Danmark
- Pedersen, P.B., Svendsen, L.M., Sortkjær, O., Ovesen, N.B., Skriver, J., Larsen, S.E., Rasmussen, R.S., Dalsgaard, A.J.T. (2008). Environmental benefits achieved by applying recirculation technology at Danish trout farms (Model Trout Farm). Presented at: Aquacultural Engineering Society's Fourth Issues Forum, 2008, Roanoke, Virginia
- Dalsgaard, J., Jarre-Teichmann, A., Walters, C. and D. Pauly. (1998). An approach to the modelling of persistent pollutants in marine ecosystems. Presented at the ICES Annual Science Conference, September 16 -19, 1998 in Cascais, Portugal.
- Pauly, D., Dalsgaard, J., Okey, T.A., Powell, R. and S. Pimm. (1998). Mass-balance food web ecosystem models as an alternative approach for combining multiple information sources in fisheries. Abstract in: Proceedings of the 15th Lowell Wakefield Symposium, "Fishery Stock Assessment Models for the 21st Century", October 8-11, 1997, Anchorage, Alaska.

Posters

- Dalsgaard, A.J.T., von Ahnen, M., Pedersen, P.B. (2013). Removal of nitrogen, phosphorous and organic matter in a constructed wetland treating effluents from a Model Trout Farm. Poster presented at: Aquaculture 2013, Gran Canaria, Spain.
- Larsen, B.K., Dalsgaard, A.J.T., Pedersen, P.B., Baardsen, G., Hansen, A.-C., Jokumsen, A. (2013). Nutritional value of mussel meal in fish feed: a sustainable, high-quality protein source. Poster presented at: Aquaculture 2013, Gran Canaria, Spain.
- Ekmann, K.S., Dalsgaard, J., Holm, J., Campbell, P., Skov, P. (2011). Effects of substituting lipid with starch as metabolic fuel on performance and nutrient utilization in Gilthead sea bream (*Sparus aurata*) juveniles. Poster presented at: Aquaculture Europe 2011, Rhodes 18-21 October 2011.