Publications:

Crosstalk between innate immunity and circadian rhythm: Do fish immune defences have a sense of time?
Publication: Research › Poster – Annual report year: 2017

Effects of dietary digestible protein and energy levels on growth performance, feed utilization, and body composition of juvenile permit, *Trachinotus falcatus* (Linnaeus, 1758)
Publication: Research - peer-review › Journal article – Annual report year: 2017

Rhythmicity and plasticity of digestive physiology in a euryhaline teleost fish, permit (*Trachinotus falcatus*)
Publication: Research - peer-review › Journal article – Annual report year: 2017

Long-term tryptophan supplementation decreased the welfare and innate immune status of pikeperch juveniles
Mandiki, S. N. M., Redivo, B., Baekelandt, S., Douxfils, J., Lund, I., Höglund, E. & Kestemont, P. 2016 In : Fish and Shellfish Immunology. 53, p. 113-114
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Anaerobic digestion of solid waste in RAS: Effect of reactor type on the biochemical acidogenic potential (BAP) and assessment of the biochemical methane potential (BMP) by a batch assay
Publication: Research - peer-review › Journal article – Annual report year: 2015

Humoral and mucosal defense molecules rhythmically oscillate during a light–dark cycle in permit, *Trachinotus falcatus*
Publication: Research - peer-review › Journal article – Annual report year: 2015

No evidence for a bioenergetic advantage from forced swimming in rainbow trout under a restrictive feeding regime
Skov, P. V., Lund, I. & Margarido Pargana, A. 2015 In : Frontiers in Physiology. 6, 31
Publication: Research - peer-review › Journal article – Annual report year: 2015

Dietary LC-PUFA deficiency early in ontogeny induces behavioural changes in pike perch (*Sander lucioperca*) larvae and fry
Publication: Research - peer-review › Journal article – Annual report year: 2014

Influence of dietary lipid and protein sources on the sensory quality of organic rainbow trout (*Oncorhynchus mykiss*) after ice storage
Publication: Research - peer-review › Journal article – Annual report year: 2012

Robustfish: New possibilities for growth and robustness in organic aquaculture
Publication: Research › Poster – Annual report year: 2014
Effects of organic plant oils and role of oxidation on nutrient utilization in juvenile rainbow trout (Oncorhynchus mykiss)
Publication: Research - peer-review › Journal article – Annual report year: 2012

Farming different species in RAS in Nordic countries: Current status and future perspectives
Publication: Research - peer-review › Journal article – Annual report year: 2012

Feed intake as explanation for density related growth differences of common sole Solea solea
Publication: Research - peer-review › Journal article – Annual report year: 2013

Organic plant ingredients in the diet of Rainbow trout (Oncorhynchus mykiss): Impact on fish muscle composition and oxidative stability
Publication: Research - peer-review › Journal article – Annual report year: 2013

Dietary supplementation of essential fatty acids in larval pikeperch (Sander lucioperca); short and long term effects on stress tolerance and metabolic physiology
Publication: Research - peer-review › Journal article – Annual report year: 2012

The effect of protein and lipid source in organic feed for (organic) rainbow trout on sensory quality
Publication: Research › Poster – Annual report year: 2012

Is batch variability in hatching time related to size heterogeneity and cannibalism in pikeperch (Sander lucioperca)?
Publication: Research - peer-review › Journal article – Annual report year: 2010

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
Publication: Research - peer-review › Journal article – Annual report year: 2011

The effect of protein and lipid source in organic feed for (organic) rainbow trout on sensory quality
Publication: Research › Conference abstract in proceedings – Annual report year: 2011

The effects of dietary long-chain essential fatty acids on growth and stress tolerance in pikeperch larvae (Sander lucioperca L.)
Publication: Research - peer-review › Journal article – Annual report year: 2009

European eel and aquaculture
Publication: Research › Report – Annual report year: 2010
Influence of dietary arachidonic acid combined with light intensity and tank color on pigmentation of common sole (Solea solea L.) larvae
Lund, I., Steenfeldt, S. J. & Hansen, B. W. 2010 In : Aquaculture. 308, 3-4, p. 159-165
Publication: Research - peer-review › Journal article – Annual report year: 2010

Organic vegetable proteins and oil in feed for organic rainbow trout (Oncorhynchus mykiss)
Lund, I., Dalsgaard, A. J. T., Jokumsen, A. & Larsen, B. K. 2010
Publication: Research › Poster – Annual report year: 2010

Videreudvikling af intensivt opdræt af sandart i Danmark
Charlottenlund: DTU Aqua. Institut for Akvatiske Ressourcer. (DTU Aqua-rapport; No. 228-2010).
Publication: Research › Report – Annual report year: 2010

Danish model trout farms – Technology and environmental impact
Publication: Research › Conference abstract for conference – Annual report year: 2009

Influence of dietary arachidonic acid combined with light intensity and tank background colour on pigmentation of common sole (Solea solea)
Lund, I. 2009
Publication: Research › Poster – Annual report year: 2009

Influence of hatching time on time of first feeding and subsequent growth and cannibalism in pikeperch (Sander lucioperca)
Steenfeldt, S. J. & Lund, I. 2009
Publication: Research › Poster – Annual report year: 2009

New methods in trout farming to reduce the farm effluents - Case study in Denmark
Publication: Research - peer-review › Book chapter – Annual report year: 2009

Proteinafgrøder til økologiske regnbueørreder (Oncorhynchus mykiss)
Publication: Research › Poster – Annual report year: 2009

A comparison of fatty acid composition and quality aspects of eggs and larvae from cultured and wild broodstock of common sole (Solea solea L.)
Publication: Research - peer-review › Journal article – Annual report year: 2008

Essential fatty acids influence metabolic rate and tolerance of hypoxia in Dover sole (Solea solea ) larvae and juveniles
Publication: Research - peer-review › Journal article – Annual report year: 2008

Opdræt af tunge (Solea solea) - undersøgelse af mulighederne for kommercialisering
Publication: Research › Report – Annual report year: 2008

The effects of dietary long chain essential fatty acids on growth and stress tolerance in pike perch larvae (Stizostedion lucioperca L.)
Steenfeldt, S. J. & Lund, I. 2008
The influence of dietary concentrations of arachidonic acid and eicosapentaenoic acid at various stages of larval ontogeny on eye migration, pigmentation and prostaglandin content of common sole larvae (Solea solea L.)

Effect of dietary arachidonic acid, eicosapentaenoic acid and docosahexaenoic acid on survival, growth and pigmentation in larvae of common sole (Solea solea L.)

The impact of dietary fatty acids in common sole larval (Solea solea, L.) nutrition
Lund, I. 2007 Roskilde University and Danish Institute for Fisheries Research. 190 p.

Selective breeding provides an approach to increase resistance of rainbow trout (Onchorhynchus mykiss) to the diseases, enteric redmouth disease, rainbow trout fry syndrome, and viral haemorrhagic septicaemia

Genetic variation for growth rate, feed conversion efficiency, and disease resistance exists within a farmed population of rainbow trout
Projects:

Eel hatchery technology for a sustainable aquaculture (EEL-HATCH) (39181)
Tomkiewicz, J., Haslund, O. H., Butts, I., Støttrup, J. G., Lund, I., Krüger-Johnsen, M., Sørensen, S. R., Politis, S. N. & Kottmann, J. S.
01/04/2014 → 30/09/2017
Project

Sustainable fish feed development in Ghana (Susfeed) (39158)
Skov, P. V., Lund, I. & Larsen, B. K.
01/04/2014 → 31/03/2017
Project

Landbased aquaculture of European lobster (39156)
Lund, I.
01/03/2014 → 28/02/2017
Project

Enhancing the European aquaculture production by removing production bottlenecks of emerging species, producing new products and accessing new markets (DIVERSIFY) (39132)
Lund, I., Skov, P. V. & Gesto, M.
01/01/2014 → 01/01/2018
Project

Development of filtering technologies for microalgae and sustainable high quality feed for fry (FIMAFY) (39115)
Lund, I. & Höglund, E.
01/10/2013 → 31/03/2017
Project

Optimized sludge hydrolysis and improved nitrogen removal through denitrification
15/04/2013 → 15/03/2017
Project: PhD

Pre-feasibility study regarding establishment of hatchery facility for production of juvenile lobsters (Homarus Gammarus) (39036)
Lund, I. & Støttrup, J. G.
01/12/2012 → 01/04/2013
Project

Better use of nutrition resources for sustaining aquaculture production in Central Vietnam under climate change condition (SANSIV) (38975)
Lund, I., Steenfeldt, S. J. & Pedersen, P. B.
01/10/2012 → 01/10/2015
Project

Amino acid uptake patterns in fish fed plant based protein and the effects on protein utilization.
Rolland, M., Skov, P. V., Dalsgaard, A. J. T., Holm, J., Lund, I., Espe, M. & Skiba-Cassey, S.
Activities:

The effect of dietary fatty acid content on rainbow trout fry robustness towards Flavobacterium psychrophilum
Andersen, N. R. (Guest lecturer), Lund, I. (Guest lecturer), Jokumsen, A. (Guest lecturer), Madsen, L. (Guest lecturer)
4 Sep 2017
Activity: Talks and presentations › Conference presentations