Publications:

Fertilization strategies for Sea Bass Dicentrarchus labrax (Linnaeus, 1758): effects of pre-incubation and duration of egg receptivity in seawater
Publication: Research - peer-review › Journal article – Annual report year: 2015

Mærkningsmetode for små fisk: Et casestudie med kysttobis (Ammodytes tobianus)
Publication: Research › Conference abstract for conference – Annual report year: 2017

Paternal identity impacts embryonic development for two species of freshwater fish
Publication: Research - peer-review › Journal article – Annual report year: 2017

PIT-tagging method for small fishes: A case study using sandeel (Ammodytes tobianus)
Publication: Research - peer-review › Journal article – Annual report year: 2017

Tagging method for small fishes: A case study using lesser sandeel (Ammodytes tobianus)
Publication: Research › Conference abstract for conference – Annual report year: 2017

Temperature effects on gene expression and morphological development of European eel, Anguilla anguilla larvae
Publication: Research - peer-review › Journal article – Annual report year: 2017

Temperature induced variation in gene expression of thyroid hormone receptors and deiodinases of European eel (Anguilla anguilla) larvae
Publication: Research - peer-review › Journal article – Annual report year: 2017

Abundance of specific mRNA transcripts impacts hatching success in European eel, Anguilla anguilla L
Publication: Research - peer-review › Journal article – Annual report year: 2015

Composition of seminal plasma and ovarian fluid in Ide Leuciscus idus and Northern pike Esox lucius
Publication: Research - peer-review › Journal article – Annual report year: 2016

Development of a broodstock diet to improve developmental competence of embryos in European eel, Anguilla anguilla
Publication: Research - peer-review › Journal article – Annual report year: 2015

Effects of salinity and sea salt type on egg activation, fertilization, buoyancy and early embryology of European eel, Anguilla anguilla
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fathers modify thermal reaction norms for hatching success in Atlantic cod, Gadus morhua
Publication: Research - peer-review › Journal article – Annual report year: 2015

First-feeding by European eel larvae: A step towards closing the life cycle in captivity
Publication: Research - peer-review › Journal article – Annual report year: 2016

Ontogeny and growth of early life stages of captive-bred European eel
Publication: Research - peer-review › Journal article – Annual report year: 2016
Di-(2-ethylhexyl)-phthalate disrupts pituitary and testicular hormonal functions to reduce sperm quality in mature goldfish
Publication: Research - peer-review › Journal article – Annual report year: 2015

Effects of pre-incubation of eggs in fresh water and varying sperm concentration on fertilization rate in sterlet sturgeon, Acipenser ruthenus
Publication: Research - peer-review › Journal article – Annual report year: 2015

Impact of dietary fatty acids on muscle composition, liver lipids, milt composition and sperm performance in European eel
Publication: Research - peer-review › Journal article – Annual report year: 2015

Light impacts embryonic and early larval development of the European eel, Anguilla anguilla
Publication: Research › Conference abstract for conference – Annual report year: 2015

Ontogeny of the immune response during early life history of European eel and its temperature dependence
Publication: Research › Poster – Annual report year: 2015

Receptivity of winter flounder larvae to artificial diet from the yolk-sac stage to metamorphosis
Publication: Research - peer-review › Journal article – Annual report year: 2014

The effects of inbreeding on sperm quality traits in captive-bred lake trout, Salvelinus namaycush (Walbaum, 1972)
Publication: Research - peer-review › Journal article – Annual report year: 2015

Thermal effects on early life history stages of European eel Anguilla anguilla
Publication: Research › Conference abstract for conference – Annual report year: 2015

Effects of reproduction on growth and survival in Atlantic cod, Gadus morhua, assessed by comparison to triploids
Publication: Research - peer-review › Journal article – Annual report year: 2013

Larval production and survival during the early larval stage in European eel
Publication: Research › Paper – Annual report year: 2014

Light impacts embryonic and early larval development of the European eel, Anguilla anguilla
Publication: Research - peer-review › Journal article – Annual report year: 2014

Standardization of fertilization protocols for the European eel, Anguilla anguilla
Publication: Research - peer-review › Journal article – Annual report year: 2014

Temperature, paternity and asynchronous hatching influence early developmental characteristics of larval Atlantic cod, Gadus morhua
Publication: Research - peer-review › Journal article – Annual report year: 2014

Development of a sperm cryopreservation protocol for redside dace, Clinostomus elongatus: implications for genome resource banking
Publication: Research - peer-review › Journal article – Annual report year: 2013

Development of techniques and technology for embryonic and larval rearing of the European eel
Publication: Research › Poster – Annual report year: 2014

Evaluation of methods to determine sperm density for the european eel, anguilla anguilla
Publication: Research - peer-review › Journal article – Annual report year: 2013
Evaluation of methods to determine sperm density for the European eel, Anguilla anguilla
Publication: Research › Poster – Annual report year: 2014

Ovarian fluid influences sperm performance in lake trout, Salvelinus namaycush
Publication: Research - peer-review › Journal article – Annual report year: 2013

Paternal effects on early life history traits in Northwest Atlantic cod, Gadus morhua
Publication: Research - peer-review › Journal article – Annual report year: 2013

Physiological functions of osmolality and calcium ions on the initiation of sperm motility and swimming performance in redside dace, Clinostomus elongatus
Publication: Research - peer-review › Journal article – Annual report year: 2013

Reproduction of European eel and larval culture: state of the art
Publication: Research › Paper – Annual report year: 2014

Reproductive investment patterns, sperm characteristics, and seminal plasma physiology in alternative reproductive tactics of Chinook salmon (Oncorhynchus tshawytscha)
Publication: Research - peer-review › Journal article – Annual report year: 2012

Sperm quality of hatchery-reared lake trout Salvelinus namaycush throughout the spawning season
Publication: Research - peer-review › Journal article – Annual report year: 2012

Techniques for rearing European eel during early life history
Publication: Research › Paper – Annual report year: 2014

Effects of phthalates on reproduction in male broodfish
Publication: Research › Conference abstract for conference – Annual report year: 2012

Fertilization strategies for winter flounder: effects of spermatozoa density and the duration of gamete receptivity
Publication: Research › Peer-review › Journal article – Annual report year: 2012

Ovarian fluid enhances sperm velocity based on relatedness in lake trout, Salvelinus namaycush
Publication: Research - peer-review › Journal article – Annual report year: 2012

Primary and secondary sexual characters in alternative reproductive tactics of Chinook salmon: Associations with androgens and the maturation-inducing steroid
Publication: Research - peer-review › Journal article – Annual report year: 2012

Primary and secondary sexual characters in alternative reproductive tactics of Chinook salmon: Associations with androgens and the maturation-inducing steroid
Publication: Research › Poster – Annual report year: 2012

Automated sperm head morphology analyzer for open-source software
Publication: Research - peer-review › Journal article – Annual report year: 2011

Cryopreservation of Atlantic cod (Gadus morhua) sperm in large-volume straws: applications for commercial production and gene banking
Publication: Research - peer-review › Journal article – Annual report year: 2011

Linking steroid hormones to primary and secondary sexual characters in alternative reproductive tactics of Chinook salmon
Publication: Research › Poster – Annual report year: 2011
Mechanism of action of mercury on sperm morphology, adenosine triphosphate content, and motility in Perca fluviatilis (Percidae; Teleostei)
Publication: Research - peer-review › Journal article – Annual report year: 2011

Semen characteristics and their ability to predict sperm cryopreservation potential of Atlantic cod, Gadus morhua L.
Publication: Research - peer-review › Journal article – Annual report year: 2011

Seminal plasma biochemistry and spermatozoa characteristics of Atlantic cod (Gadus morhua L.) of wild and cultivated origin
Publication: Research - peer-review › Journal article – Annual report year: 2011

Sperm morphology, ATP content, and analysis of motility in Atlantic halibut (Hippoglossus hippoglossus)
Publication: Research - peer-review › Journal article – Annual report year: 2011

Cryopreservation of Atlantic cod Gadus morhua L. spermatozoa: Effects of extender composition and freezing rate on sperm motility, velocity and morphology
Publication: Research - peer-review › Journal article – Annual report year: 2010

Gamete storage: Tricks of the trade
Publication: Research › Conference abstract for conference – Annual report year: 2010

Quantitative semen parameters of Atlantic cod (Gadus morhua) and their physiological relationships with sperm activity and morphology
Publication: Research - peer-review › Journal article – Annual report year: 2010

Reproductive biology and spermatozoa cryogenics of Atlantic cod: Applications for aquaculture production and gene banking
Publication: Research › Ph.D. thesis – Annual report year: 2010

Seasonal variations in seminal plasma and sperm characteristics of wild-caught and cultivated Atlantic cod, Gadus morhua
Publication: Research - peer-review › Journal article – Annual report year: 2010

Thermal reaction norms in sperm performance of Atlantic cod (Gadus morhua)
Publication: Research - peer-review › Journal article – Annual report year: 2010

Cryopreservation of winter flounder (Pseudopleuronectes americanus: CRC Marine Biology Series
Publication: Research - peer-review › Book chapter – Annual report year: 2009

Male variability and sperm ATP content in Atlantic cod Gadus morhua L: Relationships with motility, velocity, head morphology, total protein, seminal fluid constituents, and fertilization success
Publication: Research › Poster – Annual report year: 2009

The Atlantic Cod Genomics and Broodstock Development Project
Publication: Research › Journal article – Annual report year: 2009

The Atlantic Cod Genomics and Broodstock Development Project
Publication: Research › Article in proceedings – Annual report year: 2009

The effect of sperm to egg ratio and gamete contact time on fertilization success in Atlantic cod Gadus morhua L.
Publication: Research - peer-review › Journal article – Annual report year: 2009
Effects of spermatozoa density, longevity, and duration of receptivity on fertilization success of winter flounder (Pseudopleuronectes americanus)
Publication: Research › Conference abstract for conference – Annual report year: 2008

Performance of cultivated northwest Atlantic cod (Gadus morhua) families: Initiation of a selective breeding program in eastern Canada
Publication: Research › Conference abstract for conference – Annual report year: 2008

The effect of sperm to egg ratio and gamete contact time on fertilization success in Atlantic cod
Publication: Research › Poster – Annual report year: 2008

Parental and stock effects on larval growth and survival to metamorphosis in winter flounder (Pseudopleuronectes americanus)
Publication: Research - peer-review › Journal article – Annual report year: 2007

Stock and parental effects on embryonic and early larval development of winter flounder Pseudopleuronectes americanus (Walbaum)
Publication: Research - peer-review › Journal article – Annual report year: 2007

The effect of sperm to egg ratio and gamete contact time on fertilization success in Atlantic cod Gadus morhua L.
Publication: Research › Poster – Annual report year: 2007

Maternal, paternal and stock effects on the early life history of winter flounder (Pseudopleuronectes americanus): Implications for broodstock development
Publication: Research › Other contribution – Annual report year: 2006

Stock and parental effects on the early life history of winter flounder (Pseudopleuronectes americanus): Geographically separated winter flounder (Pseudopleuronectes americanus) populations in the northwest Atlantic Ocean are both phenotypically and genetically distinct. A hierarchical breeding design using eggs from Passamaquoddy Bay females was used to 1) determine if fish sired by Georges Bank males grew faster than fish sired by Passamaquoddy Bay males and 2) to examine parental contributions to variations in growth and performance during early life history stages. Mixed-model nested ANOVAs revealed that larvae sired by Georges Bank males grew faster than those sired by Passamaquoddy Bay males and that maternal, paternal, and parental interactions all contributed to growth and survival during early life history. Results will be discussed with reference to winter flounder genetic variation in the wild and development of this species for aquaculture
Publication: Research › Conference abstract for conference – Annual report year: 2006

Development of winter flounder and other flatfish for land-based and inter-tidal aquaculture
Publication: Research › Article in proceedings – Annual report year: 2003

Paternal and maternal contributions to the early life history stages of winter flounder (Pseudopleuronectes americanus) from Passamaquoddy Bay and Georges Bank
Publication: Research › Poster – Annual report year: 2003

Paternal contributions on early life history stages of winter flounder (Pseudopleuronectes americanus) from Passamaquoddy Bay and Georges Bank
Publication: Research › Article in proceedings – Annual report year: 2003

Paternal contributions on early life history stages of winter flounder (Pseudopleuronectes americanus) from Passamaquoddy Bay and Georges Bank
Publication: Research › Poster – Annual report year: 2003

Projects:
Egg quality and Offspring Performance in European Eel
Project: PhD

Eel hatchery technology for a sustainable aquaculture (EEL-HATCH) (39181)
Project

European eel larval ontogeny and physiology
Project: PhD

Assessing and improving the quality of aquatic animal gametes to enhance aquatic resources – The need to harmonize and standardize evolving methodologies and improve transfer from academia to industry (AQUAGAMETE) (39130)
Project

Reproduction of European eel: Towards a self-sustained aquaculture (PRO-EEL) (38793)
Project