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Publications:

Den skeptiske optimist: Udfordringer og perspektiver i anvendelse af eDNA til marin monitering og fiskeriforvaltning
Publication: Research › Conference abstract for conference – Annual report year: 2017

Dynamiske brugerstyrede havkort til værdiløft af dansk industrifiskeri (GUDP-VIND)
Publication: Research › Conference abstract for conference – Annual report year: 2017

Low genetic and phenotypic divergence in a contact zone between freshwater and marine sticklebacks: gene flow constrains adaptation
Publication: Research - peer-review › Journal article – Annual report year: 2017

Non-parallel divergence across Danish freshwater and marine three-spined stickleback Gasterosteus aculeatus populations
Publication: Research - peer-review › Journal article – Annual report year: 2017

Pike (Esox lucius L.) on the edge: consistent individual movement patterns in transitional waters of the western Baltic
Publication: Research - peer-review › Journal article – Annual report year: 2016

Responsible genetic approach to stock restoration, sea ranching and stock enhancement of marine fishes and invertebrates
Publication: Research - peer-review › Journal article – Annual report year: 2017

Er det genetik der bestemmer, hvor længe laks opholder sig i havet?
Publication: Communication › Internet publication – Annual report year: 2016

Genetic structure of West Greenland populations of lumpfish Cyclopterus lumpus
Publication: Research - peer-review › Journal article – Annual report year: 2016

Outlier loci detect intraspecific biodiversity amongst spring and autumn spawning herring across local scales
Publication: Research - peer-review › Journal article – Annual report year: 2016

Publication: Research › Report – Annual report year: 2016

A holistic ecosystem approach for marine management and conservation: Opportunities through the application of genetic and genomic approaches
Publication: Research › Paper – Annual report year: 2015
Connectivity, growth and survival in a spatially structured fish population, which is currently managed as seven separate stock units
Publication: Research › Poster – Annual report year: 2015

From regionally predictable to locally complex population structure in a freshwater top predator: River systems are not always the unit of connectivity in Northern Pike Esox lucius
Publication: Research - peer-review › Journal article – Annual report year: 2014

Gene-associated markers can assign origin in a weakly structured fish, Atlantic herring
Publication: Research - peer-review › Journal article – Annual report year: 2015

Korttidsprognoser for kortlivede industriisk under MSY – forvaltning af tobis i Nordsøen
Publication: Research › Report – Annual report year: 2015

Signatures of natural selection between life cycle stages separated by metamorphosis in European eel
Publication: Research - peer-review › Journal article – Annual report year: 2015

Spring and autumn spawning herring in the Gulf of Riga: intraspecific biodiversity across small local scales
Publication: Research › Conference abstract for conference – Annual report year: 2015

Thermal and maternal environments shape the value of early hatching in a natural population of a strongly cannibalistic freshwater fish
Publication: Research - peer-review › Journal article – Annual report year: 2015

A low-density SNP array for analyzing differential selection in freshwater and marine populations of threespine stickleback (Gasterosteus aculeatus)
Publication: Research - peer-review › Journal article – Annual report year: 2014

Assessing patterns of hybridization between North Atlantic eels using diagnostic single-nucleotide polymorphisms
Publication: Research - peer-review › Journal article – Annual report year: 2014

Exploring the multidimensional nature of stock structure: a case study on herring dynamics in a transition area
Publication: Research › Ph.D. thesis – Annual report year: 2014

Local adaptation at the transcriptome level in brown trout: Evidence from early life history temperature genomic reaction norms
Publication: Research - peer-review › Journal article – Annual report year: 2014

Outlier SNP markers reveal fine-scale genetic structuring across European hake populations (Merluccius merluccius)
Publication: Research - peer-review › Journal article – Annual report year: 2013

Prey or predator – expanding the food web role of sandeel (Ammodytes marinus)
Publication: Research - peer-review › Journal article – Annual report year: 2014

The nuclear genome: Neutral and adaptive markers in fisheries science
Publication: Research - peer-review › Book chapter – Annual report year: 2013

A genomic island linked to ecotype divergence in Atlantic cod
Publication: Research - peer-review › Journal article – Annual report year: 2013
Vandløbenes fisk
Publication: Research - peer-review › Book chapter – Annual report year: 2013

"AquaTrace" The development of tools for tracing and evaluating the genetic impact of fish from aquaculture
Publication: Research › Conference abstract for conference – Annual report year: 2012

Environmental selection on transcriptome-derived SNPs in a high gene flow marine fish, the Atlantic herring (Clupea harengus)
Publication: Research - peer-review › Journal article – Annual report year: 2012

FishPopTrace: a new genetic technique for fisheries monitoring and the identification of IUU
Publication: Research › Conference abstract for conference – Annual report year: 2012

Gene-associated markers provide tools for tackling illegal fishing and false eco-certification
Publication: Research - peer-review › Journal article – Annual report year: 2012

High-resolution stock discrimination of Atlantic herring (Clupea harengus) based on otolith shape, microstructure, and genetic markers
Publication: Research › Conference abstract for conference – Annual report year: 2012

Imprints from genetic drift and mutation imply relative divergence times across marine transition zones in a Pan European small pelagic fish (Sprattus sprattus)
Publication: Research - peer-review › Journal article – Annual report year: 2012

Mitogenome sequencing reveals shallow evolutionary histories and recent divergence time between morphologically and ecologically distinct European whitefish (Coregonus spp.)
Publication: Research - peer-review › Journal article – Annual report year: 2012

Population structure and adaptation in fishes: Insights from clupeid and salmonid species
Publication: Research › Ph.D. thesis – Annual report year: 2012

SNP discovery using next generation transcriptomic sequencing in Atlantic herring (Clupea harengus)
Publication: Research - peer-review › Journal article – Annual report year: 2012

The memory remains: application of historical DNA for scaling biodiversity loss
Publication: Research - peer-review › Journal article – Annual report year: 2012

The molecular basis of local adaptation: A case study focusing on brown trout (Salmo trutta L.)
Publication: Research › Ph.D. thesis – Annual report year: 2012

Unraveling biocomplexity of Northeast Atlantic herring stocks using SNP markers
Publication: Research › Conference abstract for conference – Annual report year: 2012

An assessment of the spatial scale of local adaptation in brown trout (Salmo trutta L.): footprints of selection at microsatellite DNA loci
Publication: Research - peer-review › Journal article – Annual report year: 2011

Application of SNPs for population genetics of nonmodel organisms: new opportunities and challenges
Publication: Research - peer-review › Journal article – Annual report year: 2011

Genetic mixed-stock analysis of Atlantic herring populations in a mixed feeding area
Publication: Research - peer-review › Journal article – Annual report year: 2011
Of fish and SNPs: The potential of genetics for traceability in European fisheries management
Publication: Research › Conference abstract for conference – Annual report year: 2011

Detecting population structure in a high gene-flow species, Atlantic herring (Clupea harengus): direct, simultaneous evaluation of neutral vs putatively selected loci
Publication: Research - peer-review › Journal article – Annual report year: 2010

High salinity tolerance in eggs and fry of a brackish Esox lucius population
Publication: Research - peer-review › Journal article – Annual report year: 2010

Disentangling the effects of evolutionary, demographic, and environmental factors influencing genetic structure of natural populations: Atlantic herring as a case study
Publication: Research - peer-review › Journal article – Annual report year: 2009

Genetic population structure of European sprat (Sprattus sprattus L.): differentiation across a steep environmental gradient in a small pelagic fish
Publication: Research - peer-review › Journal article – Annual report year: 2009

Integrating patterns across different markers and landscape variables: A multidisciplinary approach for disentangling forces shaping population structure and distribution
Publication: Research › Poster – Annual report year: 2009

Population genomics of marine fishes: identifying adaptive variation in space and time
Publication: Research - peer-review › Journal article – Annual report year: 2009

ToR b: Review the current status of traceability methods in the fisheries sector based on genetics
Publication: Research › Article in proceedings – Annual report year: 2009

Characterization of nine polymorphic microsatellite markers in sprat (Sprattus sprattus L.)
Publication: Research - peer-review › Journal article – Annual report year: 2008

Importance of fish biodiversity for the management of fisheries and ecosystems
Publication: Research - peer-review › Journal article – Annual report year: 2008

Application and validation of otolith microstructure as a stock identification method in mixed Atlantic herring (Clupea harengus L.) stocks in the North Sea and western Baltic
Publication: Research - peer-review › Journal article – Annual report year: 2007

Divergent origins of sympatric herring population components determined using genetic mixture analysis
Publication: Research - peer-review › Journal article – Annual report year: 2007

Gene flow, effective population size and selection at major histocompatibility complex genes: brown trout in the Hardanger Fjord, Norway
Publication: Research - peer-review › Journal article – Annual report year: 2007

Investigating the genetics of populations
Publication: Research - peer-review › Book chapter – Annual report year: 2007
Weak population differentiation in northern European populations of the endangered anadromous clupeid Alosa fallax
Publication: Research - peer-review › Journal article – Annual report year: 2007

Biocomplexity in a highly migratory pelagic marine fish, Atlantic herring
Publication: Research - peer-review › Journal article – Annual report year: 2006

Considerations of population structuring in Atlantic herring, Clupea harengus L. assessment and management in the North Sea, Skagerrak, Kattegat and western Baltic
Publication: Research - peer-review › Journal article – Annual report year: 2006

Genetic impact of gadoid culture on wild fish populations: predictions, lessons from salmonids and how adverse effects can be minimised
Publication: Research - peer-review › Journal article – Annual report year: 2006

Genetic restoration of a stocked brown trout Salmo trutta population using microsatellite DNA analysis of historical and contemporary samples
Publication: Research - peer-review › Journal article – Annual report year: 2006

Male size composition affects male reproductive variance in Atlantic cod Gadus morhua L. spawning aggregations
Publication: Research - peer-review › Journal article – Annual report year: 2006

Udsætning af geddeyngel i danske søer: Effektvurdering og perspektivering
Publication: Research › Report – Annual report year: 2006

Application and validation of otolith microstructure as stock identifier in mixed Atlantic herring (Clupea harengus) stocks in the North Sea and Western Baltic
Publication: Research › Conference article – Annual report year: 2005

Environmental correlates of population differentiation in Atlantic herring
Publication: Research - peer-review › Journal article – Annual report year: 2005

Marine landscapes and population genetic structure of herring (Clupea harengus L.) in the Baltic Sea
Publication: Research - peer-review › Journal article – Annual report year: 2005

Admixture analysis of herring feeding aggregations in the northern North Sea
Publication: Research › Conference article – Annual report year: 2004

Depensation, probability of fertilization, and the mating system of Atlantic cod (Gadus morhua L.)
Publication: Research - peer-review › Journal article – Annual report year: 2004

Genetic detection of sex-specific dispersal in historical and contemporary populations of anadromous brown trout Salmo trutta
Publication: Research - peer-review › Journal article – Annual report year: 2004

Phenotypic characteristics in genetically different populations in the Skagerrak
Publication: Research › Conference article – Annual report year: 2004

Store torsk har succes hos hunnerne
Publication: Research › Journal article – Annual report year: 2003
Genetisk bestandsstruktur hos fisk
Publication: Research › Journal article – Annual report year: 2002

Long-term effective population sizes, temporal stability of genetic composition and potential for local adaptation in anadromous brown trout (Salmo trutta) populations
Publication: Research - peer-review › Journal article – Annual report year: 2002

Male reproductive competition in spawning aggregations of cod (Gadus morhua, L.)
Publication: Research - peer-review › Journal article – Annual report year: 2002

Reproductive behaviour in fishes: patterns of parentage and effects on population genetic structure
Publication: Research › Ph.D. thesis – Annual report year: 2002

Admixture analysis and stocking impact assessment in brown trout (Salmo trutta), estimated with incomplete baseline data
Publication: Research - peer-review › Journal article – Annual report year: 2001

Evolutionary transition to a semelparous life history in the socially parasitic ant Acromyrmex insinuator
Publication: Research - peer-review › Journal article – Annual report year: 2000

Multiple mating and facultative polygyny in the Panamanian leafcutter ant Acromyrmex echinatior
Publication: Research - peer-review › Journal article – Annual report year: 1999

Acromyrmex insinuator new species: an incipient social parasite of fungus-growing ants
Publication: Research - peer-review › Journal article – Annual report year: 1998

Projects:

Population Genomics of Archived Shark Samples
Project: PhD

Genomic patterns and processes of population divergence in marine fishes
Project: PhD

Genetic adaptations underlying population structure in herring, Clupea harengus (GENSINC) (39355)
Project

Strengthening the Danish populations of Atlantic salmon – Increasing populations, genetic resources and recreational fishing (39340)
Project

Marine migration behaviour of salmonids and gadoids assessed using biotelemetry and genetic stock identification
Project: PhD

Forward management of sandeel in the North Sea (39316)
Project

An icean of : Assessing environmental DNA to monitor aquatic organisms in marine environments
Project: PhD
Expertise in marine and aquatic ecology and genomics for sustainable management of fish and shellfish in Skagerrak-Kattegat-Øresund (MarGen) (39301)

Strategies for the gradual elimination of discards in European fisheries (DiscardLess) (39238)

Biodiversity changes - causes, consequences and management implications (BIO-C3) (39117)

Tracing the dynamics of mixed stocks in a transition area: Herring in Skagerrak-Kattegat and Western Baltic

Adaptive differences between wild and farmed trout: linking traits with genomic variation

The early life of eel in the Sargasso Sea – Influence of oceanography and climate (SARGASSO-EEL) (39107)

Short-term projections for short-lived species managed under MSY: Management of the sandeel stock in the North Sea (39148)

The development of tools for tracing and evaluating the genetic impact of fish from aquaculture (AquaTrace) (38948)

Historical changes in population distribution and micro-evolution in response to climate variability: Retrospective genomic analysis of archived fish tissue collections

Genetic mapping of Danish trout populations (38828)

Genetic and genomic approaches to the study of Atlantic eels: Speciation, genetic population structure and footprints of selection (38875)

Sexual selection in marine plankton

Predicting the consequences of global change for fish populations using genomic methods

The molecular basis of local adaptation in brown trout

Developing fisheries management indicators and targets (DEFINEIT) (38763)

Fehmarn Belt science provision project: Fehmarn Belt fish and fisheries and related environmental investigations (38669)
Local adaption in Baltic Sea small pelagic fishes
Project: PhD

Fish populations and traceability (FishPopTrace) (38283)
Project

Monitoring effective population sizes of North Sea houting using genetic markers (38272)
Project

Conservation of diversity in an exploited species: Spatio-temporal variation in the genetics of herring (Clupea harengus) in the North Sea and adjacent areas (HERGEN) (5512)
Project

Gene flow from stocked salmonids to wild populations (38273)
Project

Activities:

ICES - Working Group on Application of Genetics in Fisheries and Mariculture - WGAGFM (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

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