Jakob Hemmer Hansen - DTU Orbit (15/10/2018)

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Research outputs:

Stable coexistence of genetically divergent Atlantic cod ecotypes at multiple spatial scales
Research output: Research - peer-review › Journal article – Annual report year: 2018

Genetic diversity and connectivity within Mytilus spp. in the subarctic and Arctic
Research output: Research - peer-review › Journal article – Annual report year: 2016

Genome architecture enables local adaptation of Atlantic cod despite high connectivity
Research output: Research - peer-review › Journal article – Annual report year: 2017

Conserved structure and expression of hsp70 paralogs in teleost fishes
Research output: Research - peer-review › Journal article – Annual report year: 2016

Evaluation of otolith shape as a tool for stock discrimination in marine fishes using Baltic Sea cod as a case study
Research output: Research - peer-review › Journal article – Annual report year: 2015

Historical DNA documents long distance natal homing in marine fish
Research output: Research - peer-review › Journal article – Annual report year: 2016

Spatio-temporal trends in stock mixing of eastern and western Baltic cod in the Arkona Basin and the implications for recruitment
Research output: Research - peer-review › Journal article – Annual report year: 2015

Variability and connectivity of plaice populations from the Eastern North Sea to the Baltic Sea, part II. Biological evidence of population mixing
Research output: Research - peer-review › Journal article – Annual report year: 2016

Archived DNA reveals fisheries and climate induced collapse of a major fishery
Research output: Research - peer-review › Journal article – 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
Research output: Research - peer-review › Journal article – Annual report year: 2014

Gene-associated markers can assign origin in a weakly structured fish, Atlantic herring
Research output: Research - peer-review › Journal article – Annual report year: 2015
Managing population mixing; genetics supported stock splitting in Atlantic cod
Research output: Research › Conference abstract for conference – Annual report year: 2015

MSC certification of plaice fisheries in area IIIa: Basic investigations and development of a management plan
Research output: Research › Report – Annual report year: 2015

Optimal bæredygtig udnyttelse af tilgængelige torskebestande for dansk fiskeri
Research output: Research › Report – Annual report year: 2015

Oxygen minimum zone induced rapid temporal fluctuations of Eastern Baltic cod genetic diversity
Research output: Research › Conference abstract for conference – Annual report year: 2015

Stock mixing of eastern and western Baltic cod in SD 24
Research output: Research › Conference abstract for conference – Annual report year: 2015

The history of cod in Greenland: A major fishery collapse explained by archived DNA
Research output: Research › Conference abstract for conference – Annual report year: 2015

Conserving marine biodiversity: insights from life-history trait candidate genes in Atlantic cod (Gadus morhua)
Research output: Research › peer-review › Journal article – Annual report year: 2013

Implications of stock recovery for a neighbouring management unit: experience from the Baltic cod
Research output: Research › peer-review › Journal article – Annual report year: 2014

Learning from the past and stepping into the future: Population dynamics of Atlantic cod (Gadus morhua) revealed by historical DNA
Research output: Research › Ph.D. thesis – Annual report year: 2014

Population genomics of marine fishes: next generation prospects and challenges
Research output: Research › peer-review › Journal article – Annual report year: 2014

The Baltic cod: A case study for testing stock discrimination based on otolith shape analysis in a mixed stock fishery
Research output: Research › Conference abstract for conference – Annual report year: 2014

The use of archived tags in retrospective genetic analysis of fish
Research output: Research › peer-review › Journal article – Annual report year: 2013

A genomic island linked to ecotype divergence in Atlantic cod
Research output: Research › peer-review › Journal article – Annual report year: 2013

Cod recovery as a new challenge for fisheries management: experience from the Baltic Sea
Research output: Research › Conference abstract for conference – Annual report year: 2013

Improved management based on stock identification of eastern and western Baltic cod
Research output: Research › Report – Annual report year: 2013

Leps (Pleuronectes platessa X Platichthys flesus hybrid) i danske farvande
Research output: Research › Conference abstract for conference – Annual report year: 2013
Microevolution in time and space: SNP analysis of historical DNA reveals dynamic signatures of selection in Atlantic cod
Research output: Research › peer-review › Journal article – Annual report year: 2013

Spatiotemporal SNP analysis reveals cryptic distribution shifts and signs of ongoing adaptation at the northern range margin for Atlantic cod
Research output: Research › Conference abstract for conference – Annual report year: 2013

Spatiotemporal SNP analysis reveals pronounced biocomplexity at the northern range margin of Atlantic cod Gadus morhua
Research output: Research › peer-review › Journal article – Annual report year: 2013

Tilbage til fremtiden; DNA analyse af historiske samlinger af torske-øresten fra Grønland
Research output: Research › Conference abstract for conference – Annual report year: 2013

Variability and connectivity of plaice populations from the Eastern North Sea to the Western Baltic Sea, and implications for assessment and management
Research output: Research › peer-review › Journal article – Annual report year: 2013

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

Improving the assessment and management of the plaice stock complex between the North Sea and the Baltic Sea
Research output: Research › Paper – Annual report year: 2012

Optimization of fisheries resource exploitation in the Skagerrak (Oskar)
Research output: Research › Report – Annual report year: 2012

Where does the cod come from? Panels of gene-associated markers provide vastly improved origin assignment in Atlantic cod (Gadus morhua)
Research output: Research › Conference abstract for conference – Annual report year: 2012

Adaptive evolution in Atlantic cod: global and regional geographical scales
Research output: Research › Poster – Annual report year: 2011

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

Historical changes in population distribution and micro-evolution in response to climate variability: Retrospective genomic analysis of archived fish tissue collection
Research output: Research › Conference abstract for conference – Annual report year: 2011

Historical DNA reveals signatures of recent fisheries- or climate-induced evolution in Atlantic cod, Gadus morhua
Research output: Research › Poster – Annual report year: 2011

Identification of single nucleotide polymorphisms in candidate genes for growth and reproduction in a nonmodel organism; the Atlantic cod, Gadus morhua
Research output: Research › peer-review › Journal article – Annual report year: 2011

Microgeographical population structure and adaptation in Atlantic cod Gadus morhua: spatio-temporal insights from gene-associated DNA markers
Research output: Research › peer-review › Journal article – Annual report year: 2011
Of fish and SNPs: The potential of genetics for traceability in European fisheries management
Research output: Research › Conference abstract for conference – Annual report year: 2011

Genomic signatures of local adaptation in natural populations of Atlantic cod: implications for interactions between aquaculture and wild cod populations
Research output: Research › Conference abstract for conference – Annual report year: 2010

Using historical DNA to study fisheries-induced genetic change in Atlantic cod (Gadus morhua)
Research output: Research › Conference abstract for conference – Annual report year: 2010

Using historical DNA to study fisheries-induced genetic change in commercial fish stocks
Research output: Research › Conference abstract for conference – Annual report year: 2010

Using the candidate gene approach to study fisheries-induced evolution
Research output: Research › Poster – Annual report year: 2010

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

Genomic signatures of local directional selection in a high gene flow marine organism, the Atlantic cod (Gadus morhua)
Research output: Research - peer-review › Journal article – Annual report year: 2009

Micro geographical population structure of cod Gadus morhua in the North Sea and west of Scotland: the role of sampling loci and individuals
Research output: Research - peer-review › Journal article – Annual report year: 2009

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

ToR d) Assess the possibility for the development of an integrated global management model for Atlantic cod based on genetic information
Research output: Research › Report – Annual report year: 2009

Adaptive differences in gene expression in European flounder (Platichthys flesus)
Research output: Research - peer-review › Journal article – Annual report year: 2007

Adaptive divergence in a high gene flow environment: Hsc70 variation in the European flounder (Platichthys flesus L.)
Research output: Research - peer-review › Journal article – Annual report year: 2007

Application of SNPs (Single Nucleotide Polymorphisms) for genetic stock identification in Atlantic cod (Gadus morhua L.)
Research output: Research › Conference article – Annual report year: 2007

En skrubbe er ikke bare en skrubbe
Research output: Research › Journal article – Annual report year: 2007

Evolutionary mechanisms shaping the genetic population structure of marine fishes; lessons from the European flounder (Platichthys flesus L.)
Research output: Research - peer-review › Journal article – Annual report year: 2007

Landscape genetics goes to sea
Research output: Research - peer-review › Journal article – Annual report year: 2007
What role for genomics in fisheries management and aquaculture?
Research output: Research - peer-review | Journal article – Annual report year: 2007

Population structure and local adaptations in marine fishes

Population differentiation, local adaptation and speciation in marine fishes
Research output: Research - peer-review | Report – Annual report year: 2003

Projects:

Stock assessment and management of sole fishery (39383)
Project: Research

Eastern Baltic cod - New knowledge of growth and mortality is the way to improved management advice (39366)
Project: Research

CodStory (39308)
Project: Research

Expertise in marine and aquatic ecology and genomics for sustainable management of fish and shellfish in Skagerrak-Kattegat-Øresund (MarGen) (39301)
Project: Research

Sustainable management of Kattegat cod; Improved knowledge about stock components and migration (39346)
Project: Research

Optimal sustainable use of cod stocks accessible for Danish fisheries (DEL-TORSK) (39147)
Project: Research

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

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

Reproduction capacity of European eel in captivity: Fecundity, follicular maturation and developmental competence of embryos and larvae
Project: PhD

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

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

Restoration and management of cod in the Skagerrak/Kattegat (CodS) (38969)
Project: Research
MSC certification of the plaice fishery in area IIIa – basic investigations and development of a management model (39025)
Project: Research

Eastern-western Baltic cod: Improved management based on stock discrimination of eastern and western Baltic cod (Øst-Vesttorsk) (38989)
Project: Research

Population genetics of flounder in Danish waters (38819)
Project: Research

Fish populations and traceability (FishPopTrace) (38283)
Project: Research

Fisheries induced evolution (FinE) (38279)
Project: Research

Analysis of historical and contemporary salmon samples in the world's northernmost salmon population (38835)
Project: Research

Activities:

ICES - Benchmark Workshop for North Sea Stocks - WKNSEA (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Data Compilation for Benchmark Workshop on North Sea stocks - DCWKNSEA (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar