

# Main Menu

## Theme Session H

### Advances in the traceability of fish and fish products: from species to populations

Conveners: Gary R. Carvalho (UK), Einar Eg Nielsen (DK), and  
Jann Th. Martinsohn (IT)

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#### Papers/Oral Presentations

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[H:01](#) **Title:** SNP discovery in *Thunnus alalunga* and *T. thynnus* provide insights into world-wide population structure and a traceability tool for *T. alalunga*

**Authors:** Aitor Albaina *et al.*

**Keywords:** tuna, SNP discovery, population genetics and traceability, whole distribution range

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[H:02](#) **Title:** Population genetic structure and traceability of the European anchovy (*Engraulis encrasicolus*) using SNP-type markers

**Authors:** Iratxe Zarraonaindia, Aitor Albaina, Mikel Iriondo, Miguel Angel Pardo, Carmen Manzano, W. Stewart Grant, Xabier Irigoien, and Andone Estonba

**Keywords:** *Engraulis encrasicolus*, genetic population structure, traceability tool, whole distribution range

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H:03 **Title:** Aquaculture forensics: Tracing the source of farmed escapees with DNA

**Authors:** Kevin A. Glover and Øystein Skaala

**Keywords:** escapees, aquaculture, traceability, fisheries forensics, Norway

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H:04 **Title:** Fisheries forensics: The Norwegian Minke whale DNA register (NMDR)

**Authors:** Kevin A. Glover, Tore Haug, Nils Øien, Lars Walløe, Lotta Lindblom, Bjørghild B. Seliussen, and Hans J. Skaug

**Keywords:** DNA register, commercial whaling, individual identification, Norway

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[H:05](#) **Title:** From research to reality: transferring state-of-the-art population genetics into forensic traceability tools for fisheries monitoring and enforcement

**Authors:** Rob Ogden and Ross McEwing

**Keywords:** Europe, geographic origin, mislabelling, DNA

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H:06 **Title:** FishPopTrace: an integrated European programme for tackling Illegal, Unregulated and Unreported (IUU) Fishing and consumer fraud

**Authors:** Gary R Carvalho and the FishPopTrace consoretium

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**Keywords:** European waters; traceability; IUU; fisheries forensics

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H:07 **Title:** FishPopTrace: a new genetic technique for fisheries monitoring and the identification of IUU.

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**Authors:** Sarah Helyar, Morten Limborg, Dorte Bekkevold, Martin Taylor, and Gary Carvalho

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**Keywords:** SNPs, traceability, authenticity, herring, commercial fisheries, IUU

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H:08 **Title:** The power of integrating genetic and otolith analytical approaches into the spatial management of exploited marine fishes

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**Authors:** G. E. Maes, E. L. Cuveliers, E. Diopere, A. Cariani, A. J. Geffen, and F. A. M. Volckaert

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**Keywords:** connectivity, traceability, assignment, isolation-by-distance, microsatellites, microchemistry

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H:09 **Title:** Unraveling biocomplexity of Northeast Atlantic herring stocks using SNP markers

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**Authors:** Dorte Bekkevold, Morten T. Limborg, Sarah J. Helyar, Martin I. Taylor, Einar E. Nielsen, Gary R. Carvalho, and FishPopTrace Consortium

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**Keywords:** spatio-temporal structure, genetic stock identification, traceability, Northeast Atlantic

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H:10 **Title:** Population structure of marine fish: A GIS-based tool supporting science and decision development for managing, conservation and policy making

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**Authors:** Eoin Mac Aoidh and Jann Th. Martinsohn

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**Keywords:** visualization, management, conservation, policy, legislation, MCS, stakeholders

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H:11 **Title:** Where does the cod come from? Panels of gene-associated markers provide vastly improved origin assignment in Atlantic cod (*Gadus morhua*)

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**Authors:** Einar Eg Nielsen, Jakob Hemmer-Hansen, Martin Taylor, FishPopTrace consortium, and Gary R Carvalho

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**Keywords:** Atlantic cod, population genetics/genomics, DNA, population assignment

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[H:12](#) **Title:** The world of illegal, unreported and unregulated fishing

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**Authors:** Michele Kuruc

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**Keywords:** illegal, unreported and unregulated fishing, and monitoring, control and surveillance

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H:13 **Title:** Patterns and drivers of seafood mislabelling in European markets

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**Authors:** Amanda L. Bréchon and Stefano Mariani

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**Keywords:** Europe, cod, seafood mislabelling, legislation, governance

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H:14 **Title:** Clinal Variation at Pantophysin Locus (PanI) in the North-East Arctic

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Cod (*Gadus morhua morhua* L.) in the Barents Sea

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**Authors:** Daria A. Zelenina, Galina A. Makeenko, Alexander A. Volkov, and Nikolai S. Mugue

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**Keywords:** North-East Arctic Cod, Pantophysin, clinal variation

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[H:15](#) **Title:** Genomic tools for fishery and conservation of the European hake

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**Authors:** Ilaria Milano *et al.*

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**Keywords:** European hake, SNPs, outlier, Atlantic and Mediterranean

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## Posters

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[H:16](#) **Title:** Consistency between management units and genetic structure in saithe  
[Poster](#) (*Pollachius virens*)? Application of modern genetic tools to an exploited species  
in the North Atlantic

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**Authors:** Atal Saha *et al.*

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**Keywords:** Population genetic structure, Single Nucleotide Polymorphisms,  
Stock identification, North Atlantic

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