

# Main Menu

## Theme Session E

### Stocks in flux: From selection pressures via phenotypic and genetic adaptive responses to impacts on ecosystem services

Conveners: Ulf Dieckmann (IIASA), Mikko Heino (Norway), and Filip Volkaert (Belgium)

CM Code	Oral Presentations	
<a href="#">E: 01 Oral</a>	<b>Title:</b>	Understanding the causes of maturation shifts in gadoid populations
	<b>Authors:</b>	Peter J. Wright, Stephen C.F. Palmer and Declan Tobin
	<b>Keywords:</b>	Maturation; temperature effects; individual-based modelling; fisheries-induced evolution
E: 02 Oral	<b>Title:</b>	How strong is fisheries-induced selection? An assessment of selection differentials caused by fishing
	<b>Authors:</b>	Shuichi Matsumura, Mikko Heino, Bruno Ernande, Adriaan Rijnsdorp, Ulf Dieckmann, and the WGEVO participants
	<b>Keywords:</b>	fisheries-induced evolution, fisheries management, growth, phenotypic plasticity, probabilistic maturation reaction norm, selection differential, reproductive investment
E: 14 Oral	<b>Title:</b>	Latitudinal variation in female sole ( <i>solea solea</i> ) life-history strategy in the Northeast Atlantic
	<b>Authors:</b>	Bruno Ernande, Fabian M. Mollet, Georg H. Engelhard, Anssi Vainikka, Ane T. Laugen, Adriaan D. Rijnsdorp
	<b>Keywords:</b>	latitudinal gradient, thermal gradient, life-history, phenotypic plasticity, local adaptation, counter-gradient genetic variation, evolution, climate change
E: 15 Oral	<b>Title:</b>	A simulation approach to managing isolation-by-distance stock structure in marine fish, Pacific cod and blackspotted rockfish: Where do we draw the line?
	<b>Authors:</b>	Ingrid Spies, Paul Spencer, André E. Punt
	<b>Keywords:</b>	Fisheries management, isolation-by-distance, ecosystem services
E: 16 Oral	<b>Title:</b>	Lack of parallelism between the phenotypic drift of overexploited fisheries and their neutral genetic variation
	<b>Authors:</b>	J. Cuéllar-Pinzón and P. Presa
	<b>Keywords:</b>	overexploited fisheries, phenotypic drift, genetic erosion
E: 17 Oral	<b>Title:</b>	The evolutionary effect of fishing pressure on <i>Sardinella aurita</i> population's spatial distribution off North-West Africa investigated with an individual based biophysical model
	<b>Authors:</b>	Timothée Brochier, Pierre-Amaël Auger, Laure Pecquerie, Eric Machu, Baye Cheikh Mbaye, Modou Thiaw, and Patrice Brehmer
	<b>Keywords:</b>	fisheries-induced evolution, North-West African Upwelling System, small pelagic fish, <i>Sardinella aurita</i> , fish migration



CM Code	Oral Presentations	
E: 18 Oral	<b>Title:</b>	Behavioural differences between experimental populations of guppies ( <i>Poecilia reticulata</i> ) that experienced size-selective fishing
	<b>Authors:</b>	Beatriz Diaz Pauli, Anne Christine Utne-Palm, Joan Sala, Martin Wiech and Mikko Heino
	<b>Keywords:</b>	size-selective fishing, behaviour, mating, boldness, experiment, <i>Poecilia reticulata</i>
E: 19 Oral	<b>Title:</b>	Evolutionary and ecological consequences of fisheries-induced selection of behavioural types
	<b>Authors:</b>	Lise Marty and Ken H. Andersen
	<b>Keywords:</b>	Behaviour, selectivity, fisheries-induced evolution
E: 20 Oral	<b>Title:</b>	Changes in age and size at maturation of Northeast Arctic cod are driven by the interplay between environmentally-induced phenotypic plasticity and fisheries-induced selection
	<b>Authors:</b>	Mikko Heino, Olav Rune Godø, and Ulf Dieckmann
	<b>Keywords:</b>	cod, density-dependent growth, fisheries-induced evolution, fisheries management, phenotypic plasticity, probabilistic maturation reaction norm
<a href="#">E: 21</a> <a href="#">Oral</a>	<b>Title:</b>	Phenotypic and genetic changes in life history traits in experimental populations of guppies ( <i>Poecilia reticulata</i> ) that experienced size-selective fishing
	<b>Authors:</b>	Beatriz Diaz Pauli, Heikki Savolainen, Anne Christine Utne-Palm, Diep Mach Ellertsen, David Reznick and Mikko Heino
	<b>Keywords:</b>	size-selective fishing, maturation schedule, phenotypic change, genetic change, experiment, <i>Poecilia reticulata</i>
<a href="#">E: 22</a> <a href="#">Oral</a>	<b>Title:</b>	Influence of gear selectivity on maturation evolution and yield
	<b>Authors:</b>	Fabian Zimmermann, Christian Jørgensen
	<b>Keywords:</b>	Fisheries management, fishing-induced evolution, size-selective fishing, gear selectivity
E: 23 Oral	<b>Title:</b>	Evolutionary impact assessment of the North Sea plaice fishery
	<b>Authors:</b>	Fabian M. Mollet, Jan Jaap Poos, Ulf Dieckmann, Adriaan D. Rijnsdorp
	<b>Keywords:</b>	
E: 24 Oral	<b>Title:</b>	Economic repercussions of fisheries-induced evolution
	<b>Authors:</b>	Anne Maria Eikeset, Andries Richter, Erin S. Dunlop, Ulf Dieckmann, and Nils Chr. Stenseth
	<b>Keywords:</b>	Atlantic cod, genetic adaptations, harvest control rule, marine governance, adaptive management
E: 25 Oral	<b>Title:</b>	Molecular genetic evidence for fisheries-induced evolution in the North Sea stock of sole
	<b>Authors:</b>	Eveline Diopere, Gregory E. Maes, Bruno Ernande, Bart Hellemans, Fabian Mollet, Adriaan D. Rijnsdorp, Filip A.M. Volckaert
	<b>Keywords:</b>	evolution, fisheries, genomics, quantitative genetics, sole
E: 26 Oral	<b>Title:</b>	Fisheries-induced neutral and adaptive evolution and consequences for adaptive potential
	<b>Authors:</b>	Lise Marty, Ulf Dieckmann, and Bruno Ernande



	<b>Keywords:</b> fisheries-induced evolution, life-history traits, eco-genetic model, genetic drift, selection, genetic markers, effective population size, genetic erosion
<b>CM Code</b>	<b>Posters</b>
<a href="#">E: 03 Poster</a>	<b>Title:</b> Population diversity and structure in <i>Lipophrys pholis</i> (Blenniidae, Teleostei) in Central Portugal, variation across a decade <b>Authors:</b> Sara Francisco and Joana I. Robalo <b>Keywords:</b> rock intertidal, population genetics, temporal variation
E: 04 Poster	<b>Title:</b> Inferring natal homing behavior in Atlantic mackerel ( <i>Scomber scombrus</i> L.) through population genomics: implications for stock assessment <b>Authors:</b> Naiara Rodriguez-Ezpeleta, Paula Álvarez, Unai Cotano, and Xabier Irigoien <b>Keywords:</b> mackerel, population genomics, natal homing, stock assessment
<a href="#">E: 05 Poster</a>	<b>Title:</b> Evidence of local adaptation in European anchovy ( <i>Engraulis encrasicolus</i> , L) from the Bay of Biscay <b>Authors:</b> Iratxe Montes, Iratxe Zarraonaindia, Mikel Iriondo, Carmen Manzano, Darrell Conklin, Unai Cotano, W. Stewart Grant, Xabier Irigoien, and Andone Estonba <b>Keywords:</b> SNP, population genetics, divergent selection, salinity, ecotypes, ecological speciation
<a href="#">E: 06 Poster</a>	<b>Title:</b> How strong is fisheries-induced selection? A general framework for estimating fisheries-induced selection differentials <b>Authors:</b> Mikko Heino, Bruno Ernande, Shuichi Matsumura, Adriaan Rijnsdorp, Ulf Dieckmann, and the WGEVO participants <b>Keywords:</b> fisheries-induced evolution, fisheries management, growth, phenotypic plasticity, probabilistic maturation reaction norm, selection differential, reproductive investment
E: 07 Poster	<b>Title:</b> Population structure of ling ( <i>Molva molva</i> ) in the Northeast Atlantic and its implications for stock assessments and management advice <b>Authors:</b> Enrique Blanco Gonzalez, Halvor Knutsen, Per Erik Jorde, Kevin Alan Glover, and Odd Aksel Bergstad <b>Keywords:</b> population structure, microsatellite, fishery management, gadidae
<a href="#">E: 08 Poster</a>	<b>Title:</b> A genetic multi marker approach to estimate spatial and temporal structuring and Ne of albacore ( <i>Thunnus alalunga</i> ) <b>Authors:</b> Urtzi Laconcha, Mikel Iriondo, Carmen Manzano, Aitor Albaina, Haritz Arrizabalaga, Andone Estonba <b>Keywords:</b> albacore, single nuclear polymorphisms, stock delimitation, effective population size
E: 09 Poster	<b>Title:</b> Genetic structure and population dynamics of wreckfish ( <i>Polyprion americanus</i> ) in the North Atlantic <b>Authors:</b> Alfonso Pita, Nedra R. Matusse & Pablo Presa <b>Keywords:</b> wreckfish, <i>Polyprion americanus</i> , microsatellites, worldwide distribution
E: 10 Poster	<b>Title:</b> Temporal variation of the pseudo-selective transcribed spacer ITS1-rDNA in the Atlantic hake population ( <i>Merluccius merluccius</i> ) <b>Authors:</b> Alfonso Pita, Montse Pérez, José Cuellar & Pablo Presa <b>Keywords:</b> <i>Merluccius merluccius</i> , ITS1, molecular network, fishery evolution



CM Code	Posters
E: 11 Poster	<p><b>Title:</b> An evolutionary explanation of female-biased sexual size dimorphism in North Sea plaice, <i>Pleuronectes platessa</i> L.</p> <p><b>Authors:</b> Fabian M. Molle, Katja Enberg, David S. Boukal, Adriaan D. Rijnsdorp, and Ulf Dieckmann</p> <p><b>Keywords:</b></p>
<a href="#">E: 12</a> <a href="#">Poster</a>	<p><b>Title:</b> A non-lethal approach identifies ontogenetic shifts in d15N signatures in fin rays of Goliath Grouper, <i>Epinephelus itajara</i></p> <p><b>Authors:</b> Orian Tzadik</p> <p><b>Keywords:</b> life-history evolution, female-biased sexual size dimorphism, energy allocation, growth, maturation, reproductive investment</p>
E: 13 Poster	<b>Withdrawn</b>