

# What can Genetics do for Fisheries and Aquaculture?

## Fisheries

## Aquaculture

### Genetics Genomics

Resilience

Traceability

Heritability

Selective Breeding

Archived Collections

Environmental Changes

Real-Time Management Advice

Parentage Analyses

Marker Assisted Selection

Connectivity

Species & Stock ID

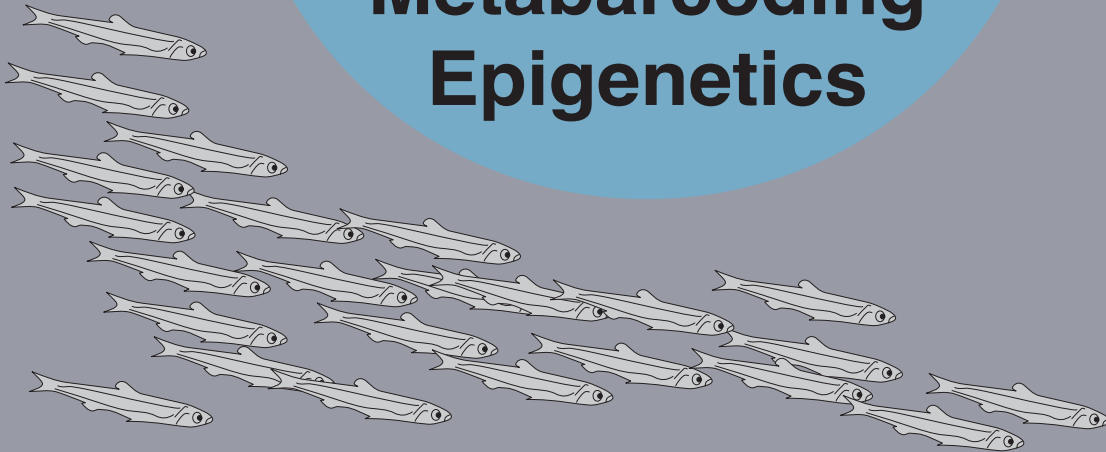
Implications of Harvesting

Reared vs. Wild Interactions

Diseases Diagnose

# New Frontiers

**eDNA  
Microbiomes  
Transcriptomics  
Adaptive Diversity  
Population Sizes  
Metabarcoding  
Epigenetics**



## The Working Group on the Application of Genetics in Fisheries and Aquaculture (WGAGFA)

Promotes the inclusion of genetics and evolutionary concepts and methods as important elements in the management of fisheries and aquaculture.

Establishes a representative, sustained and engaged scientific forum across ICES countries to discuss technological and statistical developments and new ideas in genetics/ genomics, salient opportunities for research consortia, and exchange at the science-policy interface.

Content: ICES WGAGFA © 2018  
Layout and Design: Goncalo Silva © 2018

For more information:  
ICES web page  
<https://goo.gl/CTe8cB>

