



University of the
Highlands and Islands
Oilthigh na Gàidhealtachd
agus nan Eilean

Genetics and Genomics



The UHI Aquaculture Hub offers genetic and genomic services and advice to aquaculture via the expertise of the genetics group at UHI Inverness. Our state-of-the-art facilities include high throughput DNA sequencing equipment, real-time and digital PCR, and a newly constructed environmental DNA (eDNA) laboratory.

Examples of services available:

Genetic monitoring of Atlantic salmon escapement from aquaculture facilities

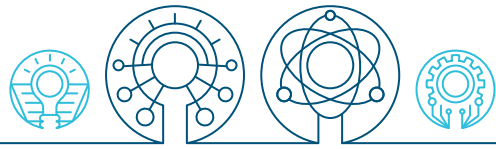
Our in-house genetic tools enable us to discriminate escaped aquaculture salmon and their hybrids from wild Scottish fish.

Design and genotyping of custom genetic marker panels

We specialize in designing cost-effective genotyping assays that target genetic markers of interest, such as those associated with aquaculture desirable traits.

Genetic sexing

We offer genetic sexing services for several fish of aquaculture importance and can design sexing markers for other species.



eDNA

We have a dedicated eDNA lab and world-leading expertise in the use of eDNA to monitor aquatic communities. Example applications include:

- eDNA monitoring of aquaculture impacts on the local environment
- eDNA monitoring for the presence of target larval shellfish in plankton samples

Bioinformatics support

We can provide computing facilities and bioinformatic expertise for the analysis of genetic and genomic data.

Training

We can offer bespoke training courses in field, laboratory and analytical methods for genetics and genomics.

For more information contact:

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For enquiries connect with us today at
www.uhi.ac.uk/aquaculture