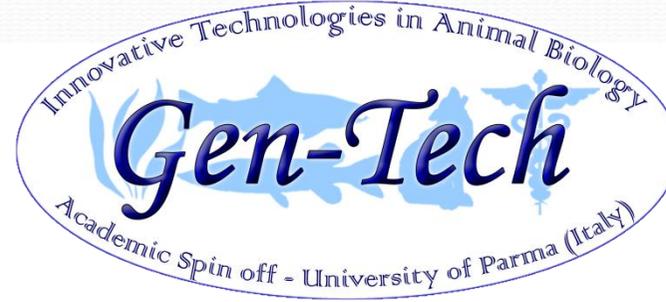
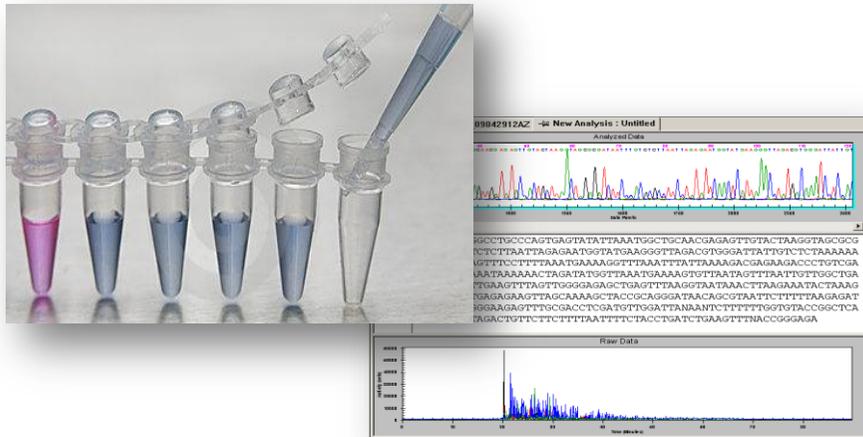


- ✓ Geographic origin analysis and molecular selection of breeders for aquaculture purpose (example: brown and marble trout);

Sigla e foto campione	Fenotipo	Aplotipo	LDH-C1*	Diagnosi combinata
 CAV01_120	atlantica	AT	A	atlantica
 CAV01_127	ibrido	AT	M	ibrido
 AGR01_133	adriatica	AD	M	adriatica

- ✓ Specific genetic profiles of seafood products (molecular passport) to certificate origin and for releasing of European food certifications (DOP-IGP).



Molecular genetics: a useful tool for food quality and environmental safety

Gen-Tech s.r.l. started in 2007 at the University of Parma as an Academic "Spin Off", for research and services in animal biology.

Academic research experiences in the last 20 years improved the knowledge on fish biology, development and application of molecular markers for animal species genotyping, food safety, traceability, and identification of food frauds.

Moreover, the Gen-Tech team offers environmental consulting service, evaluation of hydrobiological parameters for running waters and lake habitats, and design of sustainable aquaculture systems.

For more informations please contact:

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43100 Parma - ITALY

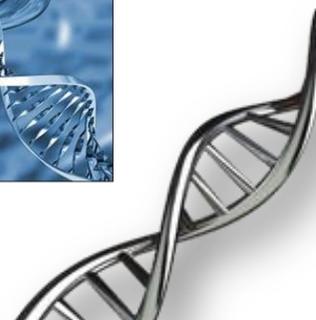
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Trading of fish products has increased significantly in recent years as global fisheries, seafood handling, processing and distribution improved. As a consequence, seafood products are not yet recognizable visually and are indistinguishable on the morphological base after processing and freezing.

Nowadays, seafood frauds are common, and request for safe and certificated products is urgently emerging in European Community. The traceability and the origin of food is nowadays considered a priority that cannot be given up.



The DNA analyses based on molecular techniques are actually considered as **powerful** tools for a wide range of applications, and could provide informations about food quality, traceability, safety and authenticity.

The occurrence of all these informations give advantages for producers, in terms of more **COMPETITIVE and VALUABLE PRODUCTS**.

Available services for food safety and traceability at the "Gen-Tech" laboratories:

- ✓ "DNA barcoding" analysis by direct sequencing of mitochondrial genes, for identification of processed fish products (fresh, frozen and defrosting fish fillets) and control of food frauds;



- ✓ Assessment of genetic variability of fish populations and aquaculture stocks (freshwater and marine fish species, crustaceans, bivalves) by informative molecular markers (AFLP, RFLP, microsatellites);

