

Brazilian Fish develops gene-edited tilapia

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Brazilian Fish, a leading producer of tilapia, has successfully developed gene-edited tilapia in Brazil in partnership with the Centre for Aquaculture Technologies (CAT) based in the United States. This initiative aims to improve the productivity and yield of tilapia by reducing the breeding process from 20 years of conventional methods to just one year.

CAT scientists, together with the R&D team at Brazilian Fish, have created the first reproductive induction and in vitro fertilisation tests to generate precise genetic variations that enhance growth, yield, and feed efficiency. After two years of research and preparation, the first gene-edited fish are now ready for performance and genomic evaluations.

This achievement positions tilapia as a more sustainable, competitive, and accessible protein source in the global market. Brazilian Fish is further advancing its myostatin gene-editing project in compliance with the regulations set by the National Technical Commission for Biosafety (CTNBio), ensuring adherence to biosafety standards.