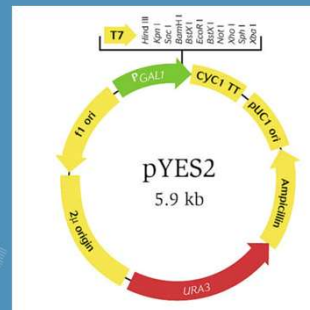
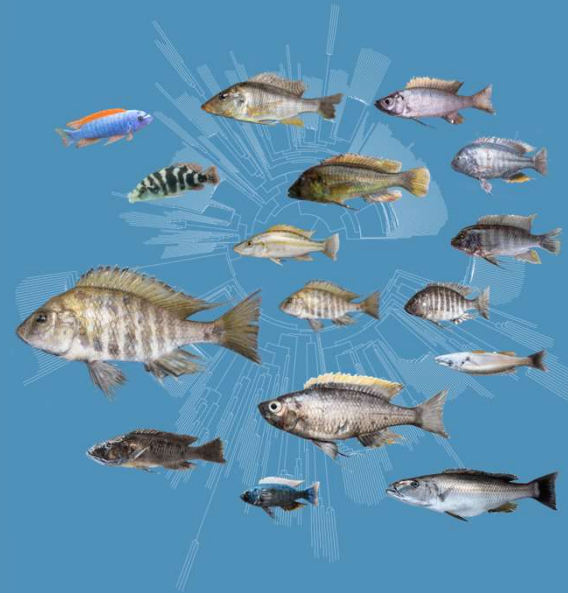


From sequence to function: Characterizing the fatty acid biosynthesis genes of Lake Malawi cichlids

The divergence of Malawi cichlids into distinct trophic niches likely involved changes in their fatty acid metabolism. Here, we want to find out if and how variation in their DNA also led to functional metabolic changes – using an innovative system of cloning and heterologous expression in yeast.

- Skills: Sequence analysis, molecular lab work, yeast experiments
- Previous molecular lab experience required
- ! Part of your thesis (2-3 months) will be conducted at the **Instituto de Acuicultura de Torre de la Sal in Spain**

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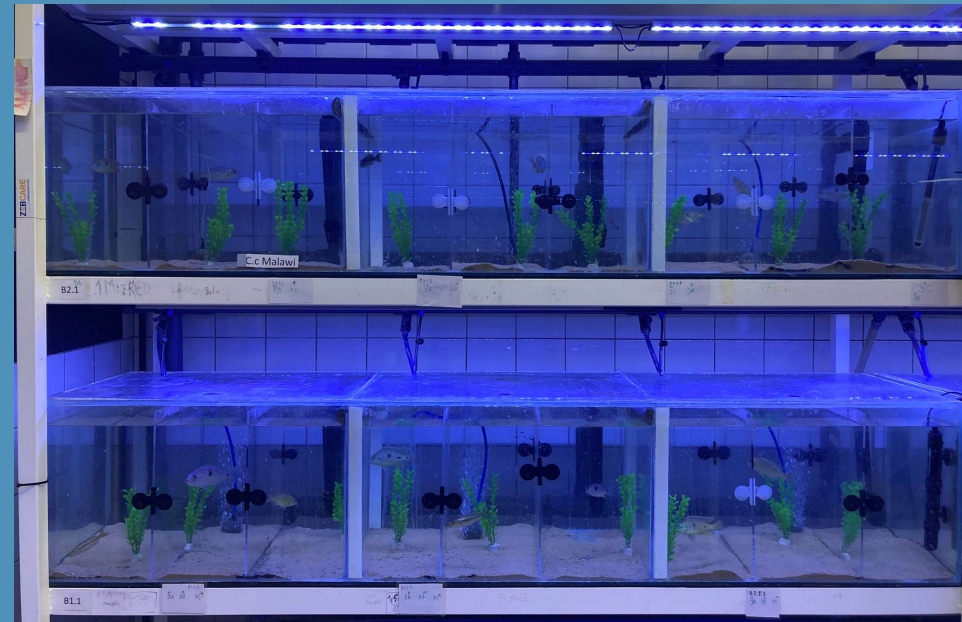


Impact of anthropogenic climate change on growth and fatty acid metabolism of Lake Malawi cichlids

Climate change exposes freshwater fish to shifting diets and rising temperatures, however species-specific metabolic mechanisms might enable them to cope with these impacts. In this project, we will assess the impact of these anthropogenic drivers on the growth and fatty acid metabolism of Lake Malawi cichlids.

Skills: Fish diet experiments, Fish diet experiments, molecular lab work, data analysis, bioinformatics

FELASA Laboratory Animal Science certificate required!



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