



**Affiliation:** Jomo Kenyatta University of Agriculture and Technology (JKUAT)  
Biochemistry department

**Specialization:** Biochemistry and Molecular Biology

**Research Interests:** Nutrigenomics, sustainable agriculture, fish nutrition, pathogen and diseases

**Goal:** To improve human health through sustainable agriculture for food security, good nutrition and safe food

Current project

### **Sustainable New ingredients to promote health (SNIPH) project (2017-2020)**

The project was funded by Newton Fund Global Research Partnership (GRP) in Aquaculture (BBSRC) (KSHS. 30million). This project focuses on exploring the use of macrophyte inclusions in fish diet to alter omega 3 composition of variety of commonly cultured fish. It is a multinational project involving Kenya (JKUAT, KEMFRI and Machakos University), Tanzania (Sokoine University) India (Delhi Technological University) and Scotland (University of Stirling)



*Lemna minor*

*Ipomoea aquatic*

### **Use of Locally Available Aquatic Macrophytes as Sustainable Ingredients for Fish Feeds for Rural Aquaculture (2020-2022)**

This project was funded by KCSAP COLLABORATIVE APPLIED RESEARCH GRANTS (KSHS 4.4 million). The project is aimed at sensitizing aquaculture farmer in Kakamega county, specifically, to embrace the use of locally available macrophytes as feed components in aquafeed formulation.

