Environmental Genomics, Inc. (EGI)

One Health Research and Training for Food Security and Ecosystem Conservation

Description	Environmental Genomics, Inc. (EGI) is a biotechnology start-up focused on finding the genetic keys to breeding healthy, environmentally-friendly, and economically desirable shrimp to address food security through aquaculture and provide benefits to local producers. The EGI research program focuses on One Health genomics, environmental and comparative genomics, biodiversity conservation, cryopreservation of germplasm, shrimp epigenetics, shrimp allergens, zoonotic diseases and public health. EGI is also committed to promoting and training a new generation of One Health professionals.
Purpose	EGI's mission is to apply cutting-edge genomic technologies to obtain basic information on genomics and environmental interactions of aquatic, wildlife and domestic species that will support the long-term conservation of natural populations and further the development of cost-effective and environmentally-sensitive methods of agriculture. EGI mentors and trains students (advanced high school, undergraduate, graduate and postdoctoral) on state-of-the-art molecular biology and biotechnologies and provides opportunities for students to obtain basic knowledge as well as hands-on laboratory and field experience through participation in local and international research projects. ☐
Scope	Regional – South America
Primary Funders	(unknown)
Participants & Key Collaborators	Boston College, Massachusetts; Foundacion para la Conservacion de la Biodiversidad Acuatica y Terrestre (FUCOBI), Guayaquil, Equador; Universidad Estatal Peninsula de Santa Elena (UPSE), Equador; International Marine Shrimp Environmental Genomics Initiative (IMSEGI).
Definition of One Health	An international effort to conserve healthy ecosystems, to maintain healthy animals, and to protect human health.
Monitoring & Evaluation Strategy	(unknown)
Sources of Information	Website: http://onehealthgenomics.com/
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