



CVM-CIMB Research Forum

Improving Fish Health and Sustainability of Aquaculture Production in Israel

**Tuesday, September 10, 2024
1:00 -2:30 PM (ET)**

International Center, Room 303

Selective Breeding and Genetics of Viral Disease Resistance in Fish

**Thursday, September 12, 2024
12:00 - 1:00 PM (ET)**

CVM A214 Buchanan room



Professor David Lior

The Hebrew University of Jerusalem

Professor David Lior received his BSc. in Animal Sciences and his PhD in Genetics from the Hebrew University of Jerusalem, Israel. He did his postdoctoral studies at Stanford University School of Medicine on yeast genomics. Since 2006, he has led his own research group, studying various aspects of fish genetics and evolution. Over the years, his group used selective breeding to develop common carp strains, which are genetically resistant to a viral disease caused by CyHV-3 that inflicts serious damages to carp production worldwide. Using the genetically disease-resistant and susceptible carp lines developed, his group studies genetics of disease-resistance and functions of fish immune system. In addition, Prof. David studies the genetics and evolution of sex-determination in different fish species, including Flathead grey mullet, Striped bass, White bass and various Carps. Together with his interest in how genetic sex-determination evolves, which fish are great models for, he applies this knowledge to the benefit of aquaculture production, for instance, by developing an improved grey mullet brood fish producing all-female progenies. Prof. David is also studying the genetic variation in natural fish populations to understand how fish adapt to environmental changes and how to manage and conserve natural fish populations.

These talks are hosted by **Dr. Bartolomeo Gorgoglione**,
Fish Pathobiology and Immunology Lab, CVM-PDI



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