

AG2PI Field Day: U.S. Aquaculture



US Aquaculture of Finfish, Shellfish and Seaweeds

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Aquaculture production is growing: demands for healthy seafood products are increasing as stocks of wild-caught seafood are dwindling from overfishing and other factors. Developing technologies that reduce production costs and maintain or improve product quality will help U.S. aquaculture producers meet that increasing demand. Aquaculture research supports efforts to ensure that a healthy, competitive, and sustainable aquaculture sector is able to produce an abundant, safe, and affordable supply of seafood products, advancing the efforts of more than 4,300 domestic aquaculture farmers producing more than \$1 billion dollars' worth of goods annually to meet demands of U.S. consumers.

Selective Breeding in the Eastern Oyster, *Crassostrea virginica*

Jessica Moss Small, Assistant Director, Virginia Institute of Marine Science



Domestication of the eastern oyster has been ongoing for more than two decades—from mass selection to family-based breeding and soon, hopefully, genomic selection. This talk will cover the current state of oyster breeding research in the U.S., focused primarily in the mid-Atlantic, and will include a brief discussion of polyploid breeding strategies.

Identifying the Biological Basis of Specific Phenotypes in Rainbow Trout

Ken Overturf, Research Geneticist, USDA-ARS-HFCES



In comparison to most terrestrial agriculture livestock, the domestication and large-scale production of finfish is a much more recent endeavor. Several of the important genetic traits for which terrestrial livestock have undergone selection are currently being selected in finfish. However, physiology and environmental conditions present some unique challenges for aquaculture. Overturf's presentation will focus on the identification and selection for specific traits and the attempts to understand the physiological basis for these traits in fish.

April 21, 2021

10:30 AM–12:00 PM
(Central Time, -5 GMT)

Purpose

Introduction to the aquaculture industry in the United States with emphasis on the challenges of trait selection and GxE interactions in breeding.

Register for this Zoom virtual meeting:

<https://tinyurl.com/AG2PI-FD6>

Upon registration, you will receive a confirmation email with information about joining the meeting.

A recording will be available at a later date at: ag2pi.org/



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