

**VACCINES & IMMUNOSTIMULANTS: USE AND DEVELOPMENT OF DISEASE PREVENTION IN
AQUATIC ANIMALS**

Wednesday, February 15 8:30 – 5:00 Grande Ballroom C
Chair: P. Klesius

Fish Vaccines, Producer Emphasis Moderator: Randy MacMillan

8:30 Randy MacMillan

CURRENT AND FUTURE AQUACULTURE INDUSTRY NEEDS

8:45 David Wise

USE OF VACCINES AS PART OF AN INTEGRATED FISH HEALTH PROGRAM

9:15 David Starling

IMMUNOBIOLOGICS: HOW THEY WORK AND WHAT TO EXPECT

9:45 Vaughn Ostland

CURRENT USE OF VACCINES AND IMMUNOBIOLOGICS IN HYBRID STRIPED BASS OPERATIONS

10:45 Grant Vandenberg, André Desormeaux, Benoit Chabot, Alejandro Rojas

TOWARDS COMMERCIAL DEVELOPMENT OF ORAL VACCINES FOR SALMONIDS

11:15 Melisse Schilling

REGULATION OF AQUATIC BIOLOGICS

11:30 Hugh Mitchell

BOTTLENECKS TO GREATER VACCINE ADOPTION IN AQUACULTURE

11:45 Kurt Schuster

ECONOMIC BENEFITS OF VACCINATING CATFISH WITH A LIVE ESC VACCINE

12:00 Chris Gould

IMPLEMENTING VACCINATION STRATEGIES FOR TOTAL PROTECTION THROUGHOUT THE
PRODUCTION CYCLE

Fish Vaccines: Current Research Moderator: Phillip Klesius

2:00 Joyce Evans, Phillip Klesius, Craig Shoemaker

THERAPEUTIC AND PROPHYLACTIC IMMUNIZATION AGAINST *Streptococcus iniae* INFECTION IN
HYBRID STRIPED BASS *Morone chrysops* x *M. saxatilis*

2:15 Ronald Thune

GENE DELETION MUTANTS FOR LIVE ATTENUATED VACCINES FOR CATFISH

2:30 Craig Shoemaker, Grant Vandenberg, André Desormeaux, Phillip Klesius, Joyce Evans

DELIVERY OF A *Streptococcus iniae* VACCINE USING ORALJECT TECHNOLOGY IN TILAPIA
Oreochromis niloticus

2:45 John Hawke

SIDEROPHORE MUTANT VACCINES FOR PHOTOBACTERIOSIS IN MARINE FISH

3:15 Phillip Klesius, Craig Shoemaker, Joyce Evans

MODIFIED LIVE VACCINES FOR GRAM NEGATIVE PATHOGENS OF CATFISH

3:30 Delbert Gatlin

USE OF IMMUNOSTIMULANTS TO PREVENT DISEASES OF FISH

3:45 Williams Wolters

INFLUENCE OF GENETICS ON VACCINE RESPONSES

4:00 Larry Hanson

RECOMBINANT VACCINE VECTORS