WOAH & STAR IDAZ: Shaping Aquatic Animal Health Research

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Annual Disease Burden

Estimated annual economic impact of diseases on the global aquaculture industry, emphasizing the critical need for coordinated actions



OIE Aquatic Animal Health Strategy 2021–2025

Improved aquatic animal health and welfare worldwide



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Research is key to develop effective tools and strategies

Activity 4.5 – Identify the highest-priority research areas

- Strategic prioritisation of research areas of importance for WOAH Community
- Including development & implementation of standards
- **©** Guide funders & researchers to target impactful areas
- Ensure collaboration with existing initiatives (e.g. STAR-IDAZ IRC)





STAR IDAZ IRC

Global **St**rategic **A**lliances for the Coordination of Research on the Major Infectious **D**iseases of **A**nimals and **Z**oonoses





Aim: to improve coordination of research activities to accelerate the delivery of improved control methods







































































September 2024
Partnership
established

Concept note defined



October
2024
Scientific Committee
constituted

Kick start of activities



January
2025
Global expert consultation

Insight gathered on challenges in Aquaculture



February 2025 World Café Workshop

Highest-priority research areas in finfish health defined.

Key events

to identify the highest priority research areas that will provide long lasting benefits for global management of aquatic animal diseases

Participative multi-stakeholders process





Global aquaculture survey

A global consultation was conducted inviting international aquaculture experts to identify research priorities for aquatic animal health



invitations distributed globally



187 countries engaged



responses received from **89** countries response rate



overall



51 m 21 s average completion time

The survey had **global reach** with responses received from experts across the Americas, Europe, Africa & the Middle East, and Asia & Australasia



Survey structure:

20 *questions* ca./section: Introduction

4 main sections:

Finfish, Molluscs, Crustaceans. **Amphibians**

Transversal issues

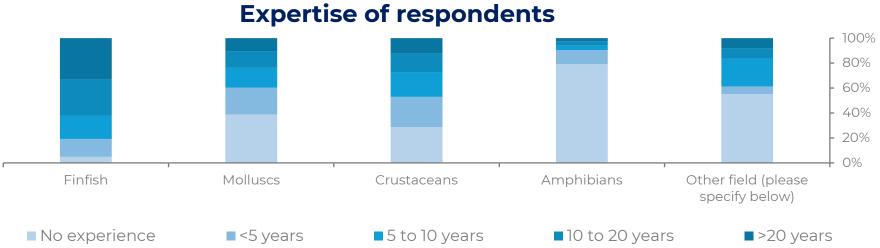
Americas

Europe

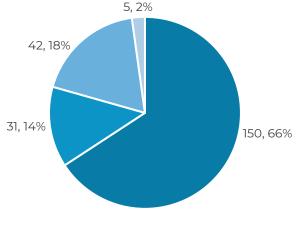




Expertise level and responses



Responses per section

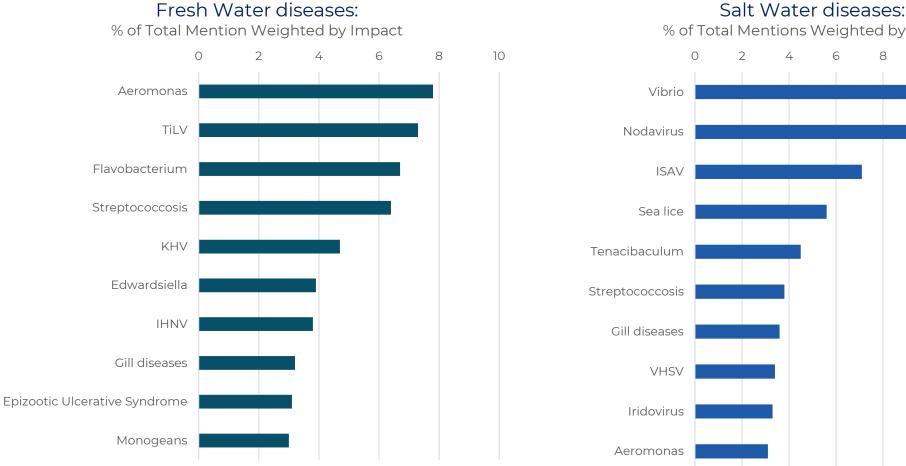


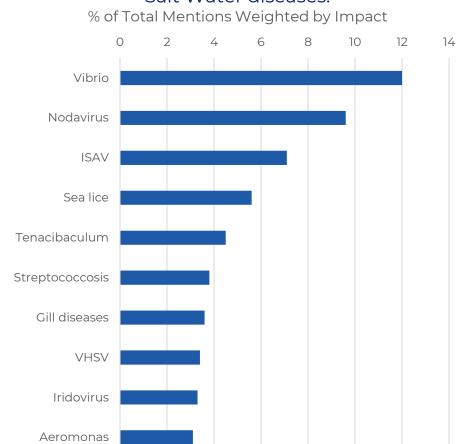




Most impactful diseases for which research actions would be needed

Survey responses











Advancing Aquaculture Health Research

Tentative agenda Advancing Aquaculture Health Research

Workshop to Identify the Highest Priority Research Areas for Finfish Health

> 20-21 February 2025 WOAH HQ, Paris, France

Organised by:

World Organisation for Animal Health

In collaboration with:



European

The workshop has been possible thanks to sponsorship from:



Canada





Gates Foundation

Veterinærinstituttet

epartment of Agriculture,



Global experts collaborated to tackle critical challenges in finfish health, defining research priorities to strengthen aquaculture sustainability worldwide.

Experts' presentation of key challenges in aquatic animal health

Overview of regional & global research efforts

World café workshop for priority setting

Panel discussion to foster PPP collaboration for sustainable solutions





World cafè workshops

Aim: Identify the highest priority research areas

Outcome: Comprehensive priority lists for major finfish production species including salmonids, carp, catfish, and tilapia, with both short-term and long-term research needs identified.

Workshop 1: Epidemiology & control strategies

Chair: Edgar Brun

4 focused discussion tables targeting control mechanisms and disease prevention strategies

Workshop 2: Diagnostics

Chair: Nick Moody

4 focused discussion tables exploring diagnostic innovation and standardization needs

Workshop 3: Vaccines and therapeutics

Chair: Ha Thanh Dong

5 focused discussion tables addressing vaccine development and therapeutic solutions







Epidemiology and control strategy:

Highest research priority areas (grouped)

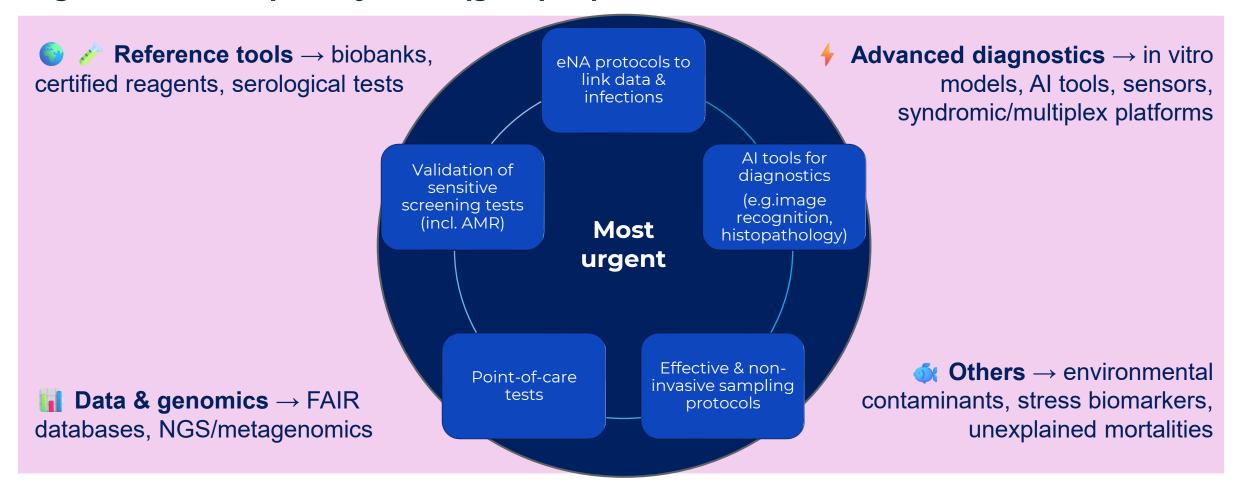
Environment & policy → Rapid & validated diagnostics (e.g. climate, vaccination strategies, genetics, nutrition, control of eNA, pooling...) chemicals, socioeconomics, complex diseases governance Disease spread Host-pathogenmodels environment &AMR/AMU & interactions trade risk Most urgent Biosecurity, including water Control strategies Innovation → Al tools, data for transboundary management, for small-scale & diseases sharing, new product benchmarking, surveillance, early-stage fish development decontamination





Diagnostic:

Highest research priority areas (grouped)

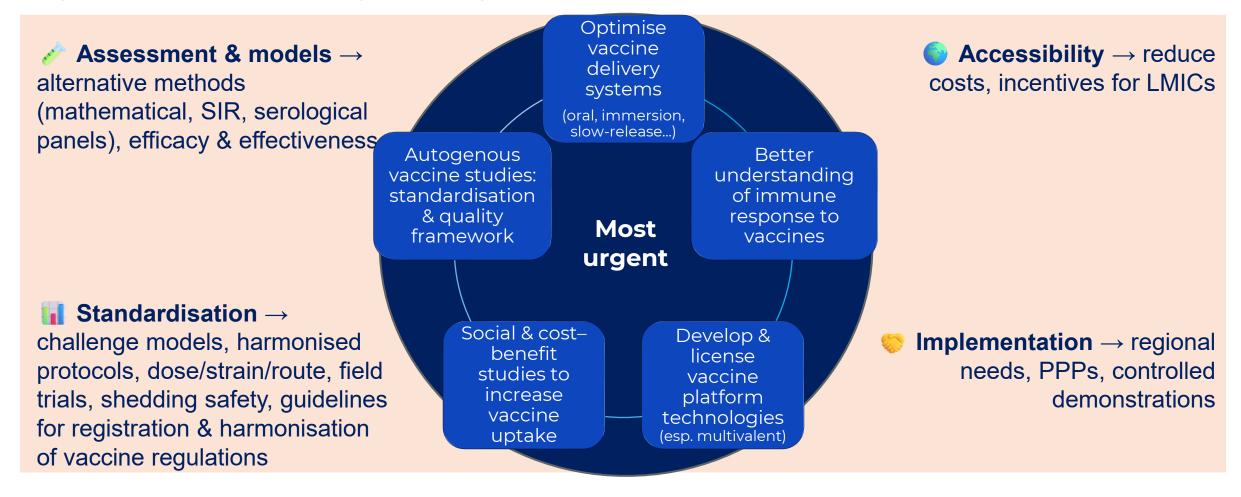






Vaccine:

Highest research priority areas (grouped)

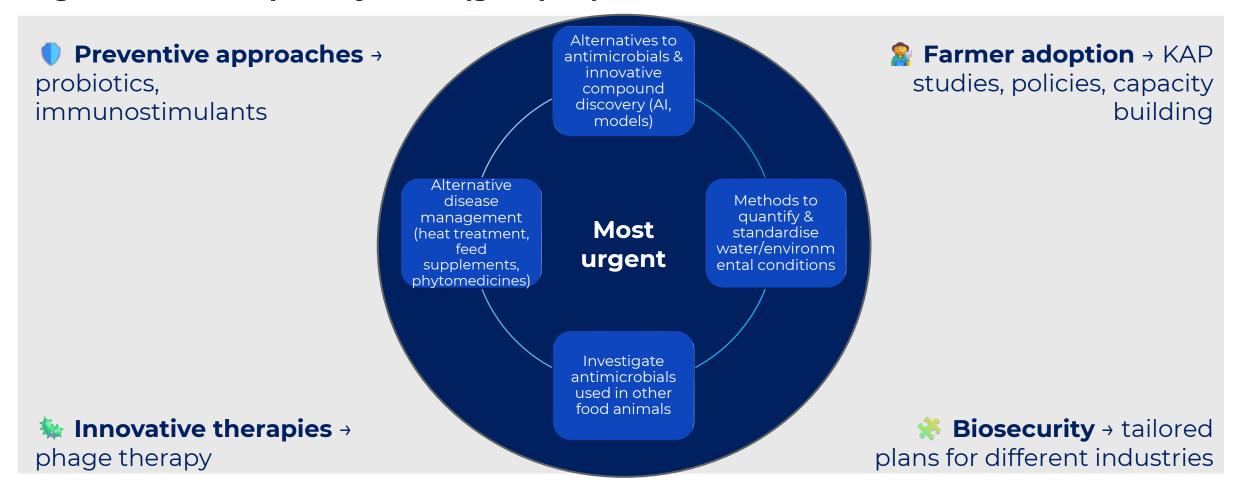






Therapeutics:

Highest research priority areas (grouped)







Translating workshop outcomes into actions









Call for projects



Discussion at upcoming STAR IDAZ Executive Committee meetings

On-line survey

Gap analysis workshop

Executive summary

Uptake from STAR IDAZ Executive Committee

January 2025

February 2025

April 2025

Thank you

"If you want to walk fast, walk alone If you want to walk far, walk together" (West African proverb)

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