



Food and Agriculture  
Organization of the  
United Nations



## Launch of the FAO Reference Centres for Antimicrobial Resistance (AMR) and Aquaculture Biosecurity

Sheikh Zayed Centre, FAO Headquarters, Rome, Italy  
26 June 2023, 10:30- 12:00 Central European Summer Time (CEST)

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Registration link for online participation:

[https://fao.zoom.us/webinar/register/WN\\_BybHoRY9RoWlt-Zje\\_UVsQ#/registration](https://fao.zoom.us/webinar/register/WN_BybHoRY9RoWlt-Zje_UVsQ#/registration)

*Webcast in Arabic, Chinese, English, French, Russian and Spanish language*

**10:30 - 10:35**  
(5 min)

### Opening remarks

**Ms Maria Helena Semedo** (Deputy Director-General, FAO)

**10:35 - 11:10**  
(10 min /speaker)

### Keynote speeches

**Mr Xiangming Lin** (Vice-President, CAFS)

**Mr Vishal Hegde** (Pro-Chancellor, NU)

**Mr Mark Keenum** (President, MSU)

**Panel discussion: How can AMR in the aquatic sector be reduced to achieve One Health approach and Blue Transformation goals?**

**11:10 - 11:40**  
(4-5 min/speaker)

### Technical Panel discussion

**Ms Qing Wang** (Expert, PRFRI, CAFS)

**Mr Qingli Zhang** (Expert, YSFRI, CAFS)

**Ms Indrani Karunasagar** (Expert, NU)

**Mr Larry Hanson** (Expert, MSU)

**Mr Keith Sumption** (Chief Veterinary Officer, FAO)

**11:40 - 11:55**  
(15 min)

### Question and answer session (in-person and Zoom audience)

**Moderator: Mr Audun Lem** (Deputy Director, NFI, FAO)

**11:55 - 12:00**  
(5 min)

### Closing remarks

**Mr Manuel Barange** (Director, NFI, FAO)

#### Acronyms:

**CAFS** Chinese Academy of Fishery Sciences | **Cefas** Centre for Environment, Fisheries, and Aquaculture Science |

**FAO** Food and Agriculture Organization of the United Nations | **MSU** Mississippi State University |

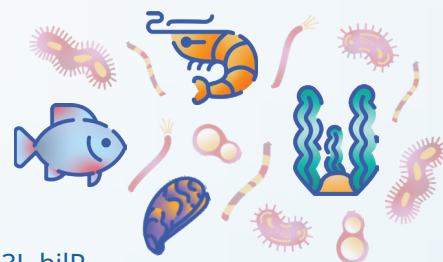
**NFI** Fisheries and Aquaculture Division | **NU** Nitte University | **PRFRI** Pearl River Fisheries Research Institute |

**YSFRI** Yellow Sea Fisheries Research Institute

Courtesy lunch will be provided to FAO Reference Centres delegates and FAO Members representatives.

## Technical seminar: Challenges in aquatic AMR mitigation and possible solutions

The Philippines Room (C-277), FAO Headquarters, Rome  
27 June 2023, 14:00 to 17:00 (CET)



Registration link for online participation:

<https://fao.zoom.us/meeting/register/tjcvf-GtpjwrGt3cezw2zcOXvib8R3L-bilP>

**14:00 - 14:05**  
(5 min)

### Opening remarks

**Mr Manuel Barange** (Director, NFI, FAO)

**14:05 - 14:55**  
(10 min/speaker)

### Introduction to FAO RCs and current work on AMR and aquaculture biosecurity

**Ms Qing Wang**, (PRFRI, CAFS)

**Mr Qingli Zhang**, (YSFRI, CAFS)

**Ms Indrani Karunasagar** (NU)

**Ms Athina Papadopoulou** (Cefas)

**Mr Stephen Reichley** (MSU)

**14:55 - 15:10**  
(15 min)

### Coffee break and group photo

## Pathway solutions to aquatic AMR mitigation

**15:10 - 16:40**  
(9 min /speaker)

Drivers of disease emergence in aquaculture and AMR (**Mr Larry Hanson**, MSU)

International trade and antimicrobial residues (**Ms Esther Garrido Gamarro**, FAO)

Antimicrobial use (AMU) issues (**Ms Indrani Karunasagar**, NU)

AMR in the aquatic environment (**Ms Athina Papadopoulou**, Cefas)

Complexities in AMR mitigation in the aquatic sector (**Mr Iddya Karunasagar**, NU)

AMR surveillance: data collection, laboratory, interpretation (**Mr Mark Lawrence**, MSU)

Biosecurity and disease prevention (including good aquaculture practices (GAP))  
(**Mr Qingli Zhang**, YSFRI, CAFS)

Alternatives to antimicrobials (vaccination, specific pathogen free (SPF), chicken egg yolk, microbiome, etc.) (**Ms Qing Wang**, PRFRI, CAFS)

One Health – unlocking safe, sustainable global approaches to aquatic food production (**Ms Rachel Hartnell**, Cefas)

RENOFARM: reduce the need for antimicrobials on farms (**Ms Junxia Song**, FAO)

**16:40 - 16:55**  
(15 min)

### Question and answer session

**16:55 - 17:00**  
(5 min)

### Closing remarks

**Mr Audun Lem** (Deputy Director, NFI, FAO)