



Food and Agriculture  
Organization of the  
United Nations



# Virtual Regional Workshop on bivalve molluscs sanitation

November 2, 3 and 4 2021

## Plenary and Bivalve Mollusc Quiz

Cefas – FAO Reference Centre  
for Bivalve Mollusc Sanitation

# Certification



You will receive a **certificate of participation** from the **FAO and Cefas** organisers as a pdf directly after the meeting



Food and Agriculture  
Organization of the  
United Nations



## Virtual Regional Workshop on bivalve molluscs sanitation November 2, 3 and 4 2021

### CERTIFICATE OF PARTICIPATION

This is to certify that ..... has actively participated in the above workshop

A handwritten signature in black ink, appearing to be 'Esther Garrido Gammaro'.

Director]

Centre for Bivalve Mollusc Sanitation, [Cefas](#), UK

Signed:

A handwritten signature in black ink, appearing to be 'Esther Garrido Gammaro'.

Esther [Garrido Gammaro](#) [Fisheries Officer]

FAO Fisheries Division, Rome, Italy

Date: 4<sup>th</sup> November 2021

# Quiz answers

- In 2018 approximately how many million tonnes of bivalve molluscs were produced globally?
  - 17 million tonnes
- Fish and fishery products are one of the highest traded commodities globally, on average what is the estimated percentage of bivalve molluscs traded outside the country of production?
  - 3%
- Monitoring cannot replace risk profiling or the growing area assessment because:
  - The hazard may not always be there
- The role of faecal indicators is to:
  - Provide an indication of risk from a range of pathogens



# Quiz answers

- What are the four most significant pathogen hazards associated with shellfish consumption worldwide?
  - *Salmonella* spp., *Vibrio* spp., norovirus, hepatitis A virus
- Which of these pathogen hazards occurs naturally in seawater?
  - *Vibrio parahaemolyticus*
- In addition to providing a detailed list of potential contamination sources, the Growing Area Risk Assessment can:
  - Provide a useful baseline against which to compare any future changes in the shellfishery or contamination sources
- It is recommended to assess the efficiency of sewage treatment processes because:
  - The effectiveness of treatment can vary, depending on influent quality, the type of treatment process used, and how well the treatment system is maintained.

# Quiz answers

- **Why does measuring *E. coli* provide the best quality information of human and animal contamination of foodstuffs?**
- **Because the presence of *E. coli* in foodstuffs is always indicative of contamination with faecal pollution**
- **Why is it beneficial for a laboratory which carries out official controls to have test method accreditation to ISO 17025 or other internationally recognised standard?**
- **Because holding accreditation shows that a laboratory can operate competently and generate valid results**