

Managing shellfish diseases now and in the near future?

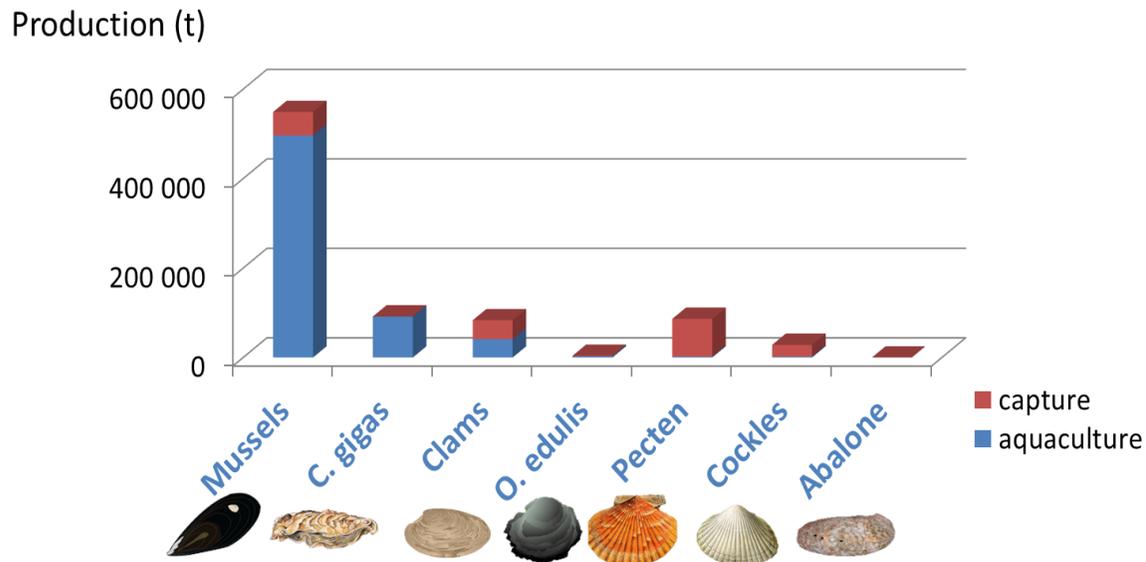
Research outcomes from VIVALDI

VIVALDI Final Conference- Brest, 26-28 November 2019



The context

European marine mollusc production

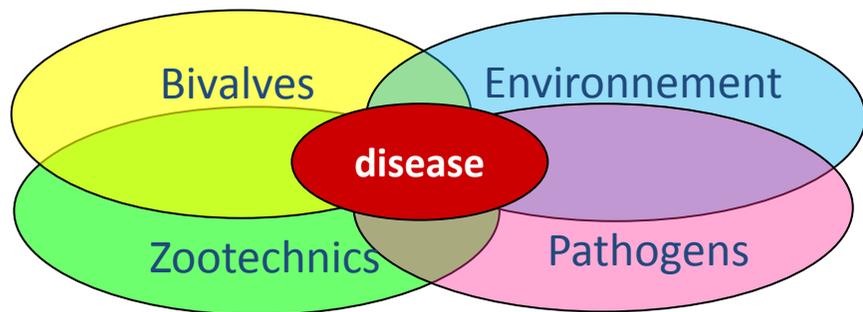


Increase of mortality events

Challenge: Increase the sustainability and competitiveness of the European shellfish industry

The VIVALDI project: 2016-2020

Better knowledge of factors triggering disease emergence



Tools and strategies to prevent control and mitigate impact of diseases

VIVALDI consortium



A cloud-shaped graphic containing logos of VIVALDI partners, categorized by sector:

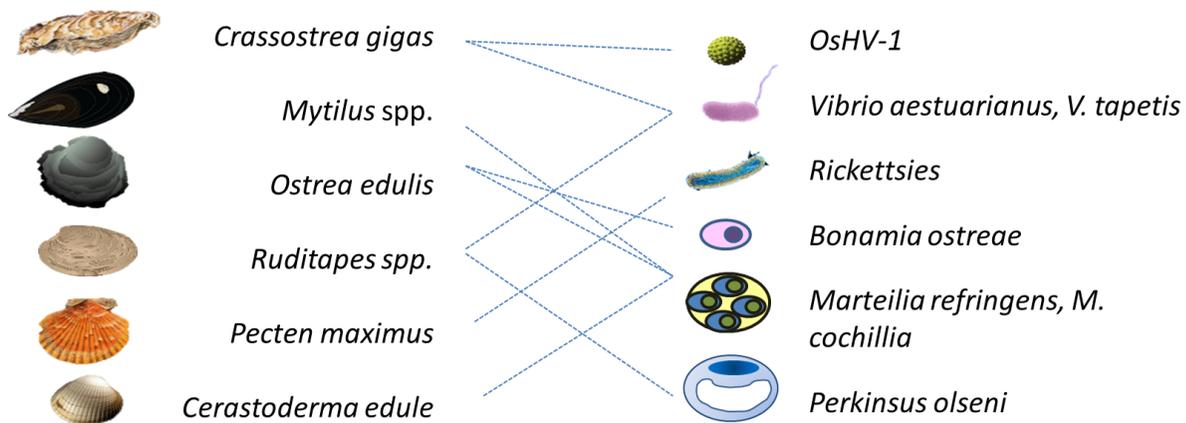
- Husbandry practices:** LABOGENA, SYSAF, Nofima, Bivalves, CAVI, CSIC, Cefas, DTU, National University of Denmark.
- Public research/education institutions:** LIVERPOOL, Atlantium, UCC, UNIVERSITÀ DEGLI STUDI DI TRIESTE, IFREMER, CSIC, Cefas, DTU, National University of Denmark.
- Private research institutions:** IRTA, Nofima, Bivalves, CAVI, CSIC, Cefas, DTU, National University of Denmark.
- Private companies:** Marine Institute, UCC, IFREMER, CSIC, Cefas, DTU, National University of Denmark.
- Pathogens:** (Logos for various pathogen research groups).
- Environment:** (Logos for environmental research groups).



21 partners

Pathogen organisms

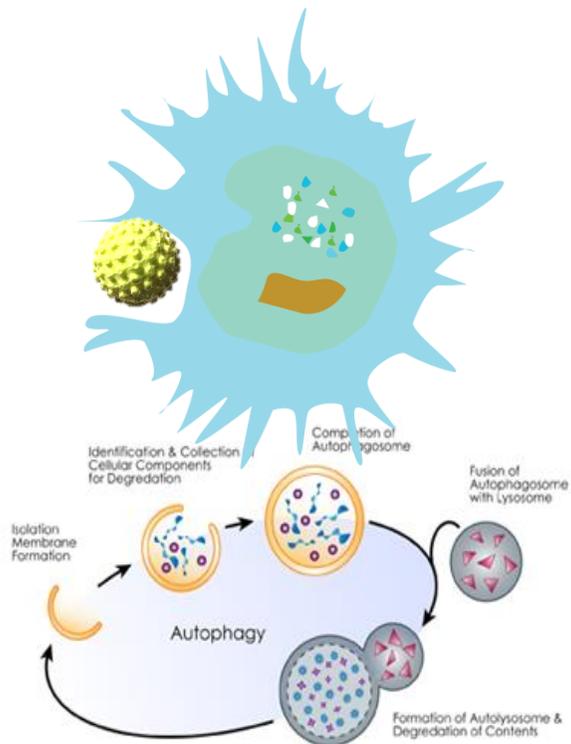
Improved understanding of their diversity and lifecycle



New tools for better detections

Bivalve immunity

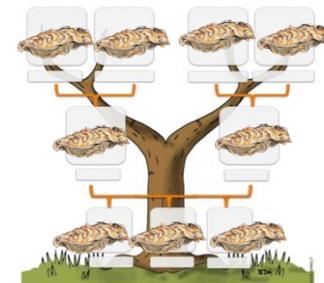
Better understand their defence mechanisms



Stimulate their immunity

Selection of resistant bivalves

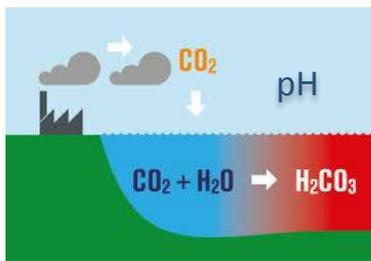
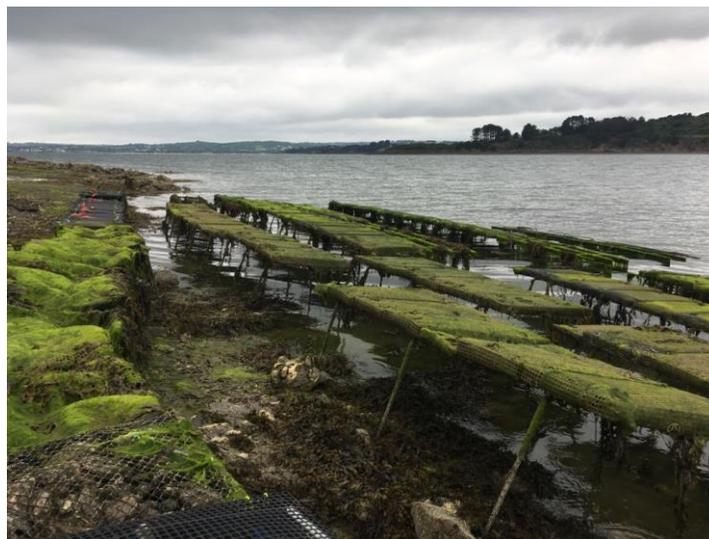
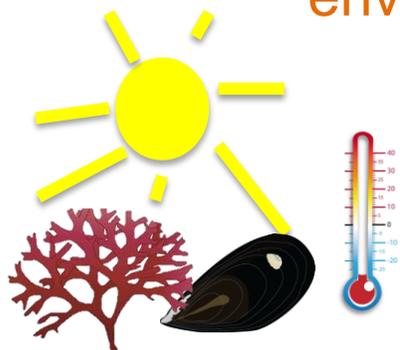
Identify genetic markers of interest



Optimise breeding programmes

Interactions with the environment

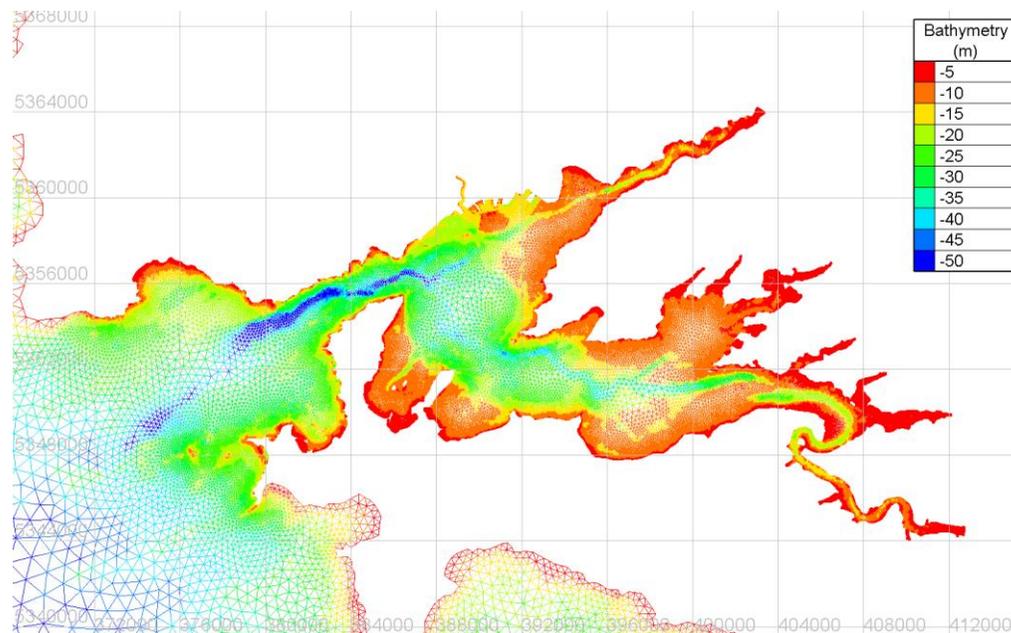
Investigate the impact of environmental factors



Explore the microbiome

Disease management measures

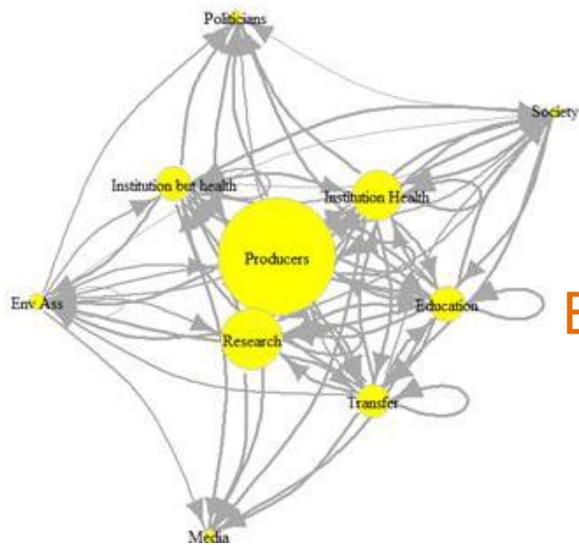
Strategies to avoid OsHV-1 and decrease mortalities



Improve surveillance of bivalve diseases

Sharing results

Better understand stakeholders' organisation



Co construction of a manual

Better communicate regarding disease management

Shellfish health: an international challenge



International network

Sharing results



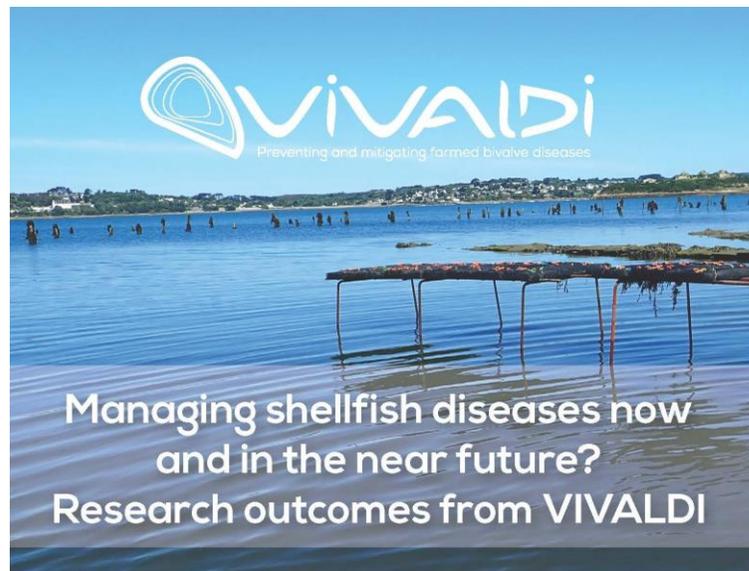
- 30 deliverables already submitted and 18 due by the end of the project
- 30 Conferences + 8 workshops
- 15 meetings with stakeholders
- 35 Publications
and much more coming soon



3 days-conference needed to share all these results



Final conference



FINAL CONFERENCE

OPEN TO ALL STAKEHOLDERS

Brest (F)

26-28 November 2019

Pole Numérique Brest Iroise :

26-27 November

Océanopolis :

28 November



Final conference -Objectives



To present research outcomes of the VIVALDI project

To exchange about new advances in understanding shellfish diseases

To collectively identify disease management measures



175 participants registered
From Europe and beyond
Not only VIVALDI partners
Not only scientists

- 9:30 Introduction by Isabelle Arzul, Coordinator of the VIVALDI project
- 0:40 Innovative tools and approaches to better prevent disease emergence and spread**
Session moderated by Dolores Furones, WPS leader (IRTA-ES)
- 9:45 Application of genomic tools and perspectives, by Romain Morvezen (SYSAF-F)
- 10:00 Novel biotechnological strategies for the detection of ostreid herpesvirus, by Mónica Campas (IRTA-ES)
- 10:15 Biosecurity measures and inactivation of pathogenic organisms in shellfish aquaculture facilities
Christophe Stavrakakis (Ifremer-F)
- 10:20 Simulating bivalve immunity, by Beatriz Novoa and Rebeca Moreira (CSIC- ES)
- 10:40 Discussion
- 11:00 Coffee break
- 12:20 What is the impact of the environment on shellfish health?**
Session moderated by Ed Peeler, (CEFAS-UK)
- 11:15 Shellfish farming in an era of rapid changes, by Fabrice Pernet (Ifremer-F)
- 11:30 A life in flux: effects of environmental parameters and extreme events on Pacific oyster performance and pathogen development, by Sarah Culloty (UCC-IE)
- 11:45 Impacts on Public and Shellfish Health - Potential for a One Health Approach to Monitoring?, by Bill Dore (Marine Institute-IE)
- 12:00 Which models can we developed in order to better anticipate the impact of global environmental changes on shellfish health, by Cédric Bacher (IFREMER-F)
- 12:20 Discussion
- 12:50 Strategies for mitigating ostreid herpesvirus 1 in Crassostrea gigas hatchery and nursery systems, by Dolores Furones, Work package 5 leader
- 14:00 Lunch
- 17:15 Elaborating recommendations for management measures and biosecurity together with stakeholders**
Session moderated by Dolores Furones (IRTA-ES) and Isabelle Arzul (Ifremer-F)
- 14:15 Preventing and mitigating farmed mollusc diseases, results from the VIVALDI project (Video)
- 14:30 Introduction and presentation of the draft biosecurity manual, by Isabelle Arzul, VIVALDI coordinator
- 14:45 The Animal Health Law and its role in disease prevention and control in molluscs, by Fiona Geoghegan, DG SANTE, European Commission
- 15:00 The OIE's role in disease prevention and control – collaboration, sustainability; our future, by S. Johnsen, World Organisation for Animal Health
- 15:15 Discussion
- 15:45 Coffee break
- 17:00 Exchange session with stakeholders from the main European producing countries:**
Ireland: Bill Dore (Marine Institute), Edward Gallagher and Lee Hunter (shellfish producers)

Still
posters

VIVALDI
Video

Exchange session
with producers
and CA

On Thursday : change of
scenario

Let's meet at Océanopolis

One day addressed more
specifically to stakeholders

Translation into English,
French, Italian and Spanish

Final conference –Follow up

Report/proceedings of the conference (don't forget to send your abstracts)

VIVALDI is not yet finished

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Your attention, please...

Speakers are kindly requested to respect their allocated time.



Keep your mobile phone on silence mode



Please sign the registration list every day



Shuttles will take you back at 18:00



Wifi connexion information available on the walls



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