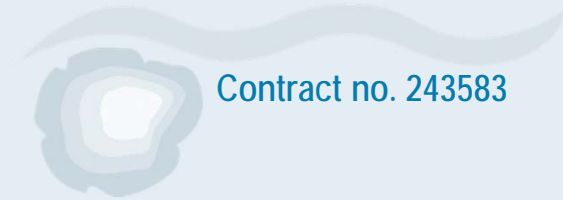


# oysterecover



Contract no. 243583

Establishing the scientific bases and technical procedures and standards to recover the European flat oyster production through strategies to tackle the main constraint, bonamiosis

<http://oysterecover.eu>



Overfishing and diseases led to the exhaustion of almost all European traditional *Ostrea edulis* rearing areas in the last century. Bonamiosis is considered the main constraint to recover the European oyster production.

Recovery of *O. edulis* production, a highly-valued species, would have obvious socio-economic advantages, diversifying European shellfish production,...


... but also ecological benefits, using an autochthonous species.

Biotechnology provides new tools that were not available in the past to face the problems that ruined the flat oyster industry.

Various selective breeding pilot programmes to produce bonamiosis-resistant flat oyster strains have achieved promising results.

# GENERAL OBJECTIVE

oysterecover

 Contract no.  
243583

Establishing the scientific bases and technical procedures and standards to recover the European flat oyster production through strategies to tackle the main constraint, bonamiosis

# PARTNERS

oysterecover



## Coordinator

Centro Tecnológico del Mar – Fundación CETMAR

Spain

## RTDs

Centro de Investigaciones Mariñas\_CIMA

Spain

Universidade de Santiago de Compostela\_USC

Spain

University College of Cork\_UCC

Ireland

CEFAS

United Kingdom

IMARES

The Netherlands

Danish Shellfish Centre\_DSC

Denmark

AGROCAMPUS

France



# PARTNERS

oysterecover



## SME - AGs

Confraría de Pescadores S. Bartolomé de Noia_CNOIA	Spain
Clew Bay Marine Forum Ltd._CBMF	Ireland
Clew Bay Oyster Co-operative Society Ltd._CBOC	Ireland
Nederlandse Oestervereniging_NEDOYS	The Netherlands
Comité Régionale de la Conchyliculture Bretagne – Nord_CRCBN	France

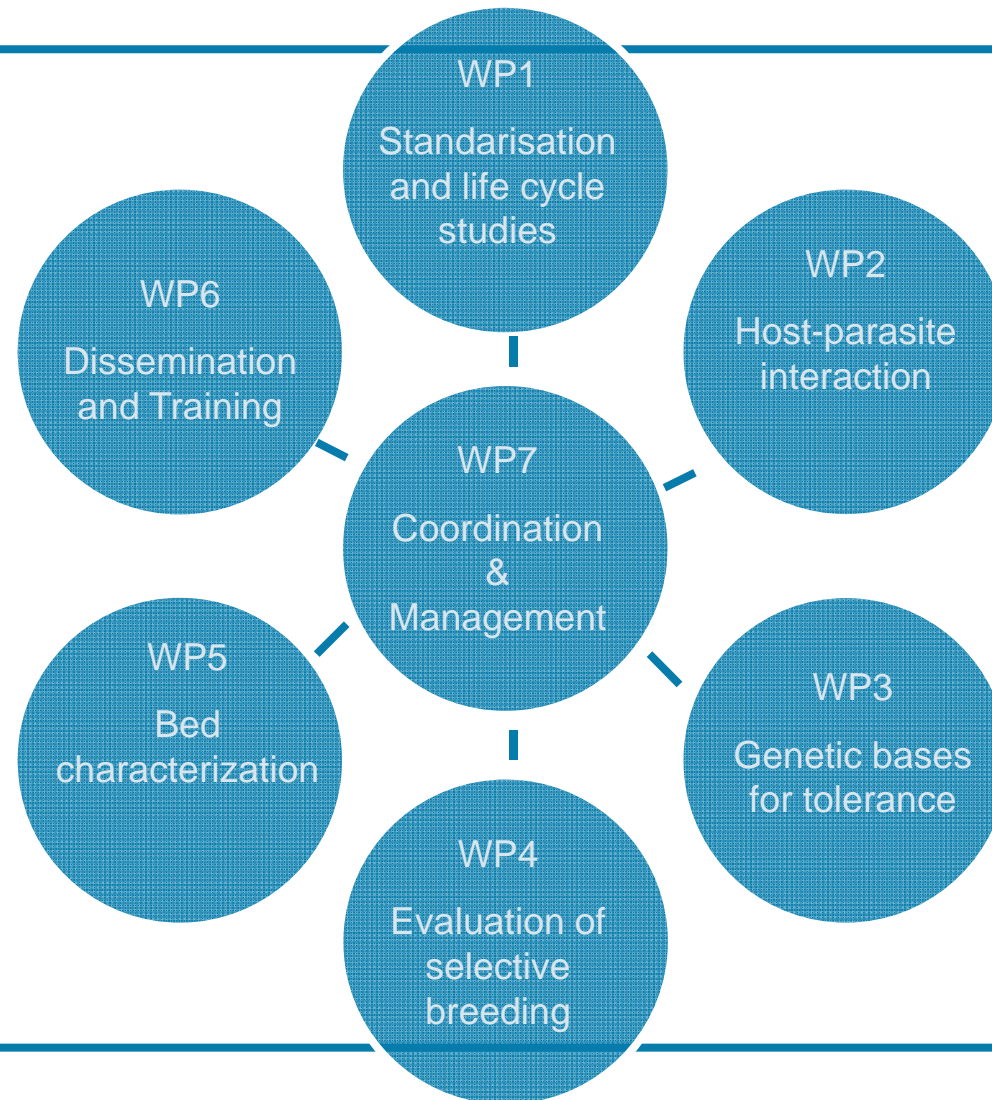
## SMEs

José María Daporta Leiro e Hijos S.L._DAPORTA	Spain
Atlantic Shellfish Ltd_ASL	Ireland
Martin Laity	United Kingdom

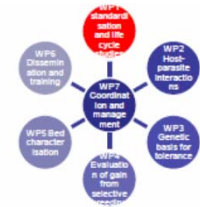
# WORK PACKAGES

oysterecover

Contract no.  
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Lead laboratory: UCC  
Partners: UCC, Cefas, CIMA



Main aim: to ensure parity between partners to standardise approach

Comparison between smears, histology, ISH and PCR

*Result: generally good agreement between the laboratories*





Lead laboratory: UCC

Partners: All involved with fieldwork providing invertebrates for screening

Main aim: to detect alternate hosts and to study mechanisms of transmission

*Result: new invertebrates identified as potential hosts.*

*Work on-going to confirm transmission*

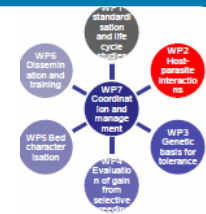


Lead laboratory: CIMA

Main aim: to determine why parasite divides within host cells

Compare tolerant/susceptible haemocyte parasite interactions and anti-parasite activities

*Result: low numbers of infected cells. Alternative analysis on-going...*



Lead laboratory: USC

Main aim: to identify candidate genes

*Result: EST Database developed (7159 sequences),  
oligomicroarray developed (6886 oligonucleotids)*

*Future: candidate proteins identified to assist with  
selective breeding programme*





Lead laboratory: Cefas

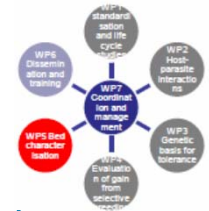
Partners: CIMA, IMARES, CRCBN/Agrocampus

Main aim: compare performance and disease susceptibility

*Result: Oysters reared either in field locations or within  laboratory. Variations between stocks within and between sites.*

**Lead laboratory: IMARES**

**Partners: CIMA, USC, CNOIA, UCC, CBMF, CBOC, ASL, Cefas, NEDOYS, DSC, Agrocampus, CRCBN**



**Aims: cartography, demographics, biotic and abiotic factors, genetic characterisation of populations**

***Result: 16 beds characterized. Genetic characterisation on-going.***



Lead laboratory: IMARES

Partners: CBOC, DSC, Agrocampus

Main aim: to determine the best performing spat collector

Testing of Chinese hats, vexar mesh and mussel-filled stockings

*Result: Chinese hats collected more spat per area BUT mussel shell were better by volume*



Lead partner: CBMF

All partners involved

Website, newsletter, TV programs, newspaper articles...

([www.oysterecover.eu](http://www.oysterecover.eu))

Training activities for members and workshops

Hatchery workshop\_Yerseke\_31<sup>st</sup> January 2013



Low production of flat oysters across Europe mainly due to susceptibility to disease

SME led project to identify tolerant oysters and suitable sites for culture or restoration

Promising leads in some areas

