From capture based to SELF-sustained aquaculture and Domestication Of bluefin tuna, Thunnus thynnus

Fact Sheet

Project Information

SELFDOTT

Grant agreement ID: 212797

Funded under
FP7-KBBE

Project website

Overall budget
€ 4 406 028,70

Status
Closed project

EU contribution
€ 2 979 966

Coordinated by
INSTITUTO ESPANOL DE OCEANOGRAFIA
Spain

Start date
1 January 2008

End date
30 November 2011

Objective

SELFDOTT proposes to implement knowledge already obtained on the artificial control of reproduction of the Atlantic bluefin tuna (BFT), Thunnus thynnus, to obtain viable eggs, and study embryonic and larval development for the production of fry (juveniles). At the same time, suitable and environmentally performing feeds for the growout of BFT will be developed, thus reducing or eliminating the practice of raw fish importation and feeding by the fattening industry. Wild juvenile and mature BFT will be reared in captivity at two sites in the Mediterranean, and will be used to study puberty, gametogenesis, and the influence of diet on reproductive maturation and gamete quality. Mature fish will be induced to spawn using hormone implants and the eggs will be collected using devices designed specifically for cages. To establish the knowledge-base for controlled development of BFT larvae, the mesocosm and artificial larval rearing methods will be employed. The ontogenesis of essential
biological functions will be studied, including environmental perception, digestion, immunity and behaviour. A protocol for the commercial-scale larval rearing of BFT will be recommended at the end of the project. Whole body and stomach composition of wild fish will be analyzed and serve as a guide to formulate nutritionally complete artificial feeds for BFT. Juveniles will be captured from the wild, adapted to captive conditions and used to carry out weaning and feeding experiments, using moist and dry pelleted diets. The environmental impact of the formulated feeds will be examined and compared to existing raw-fish practises. SELFDOTT will produce the basic knowledge necessary for the development of a self-sustained aquaculture industry for the BFT in the Mediterranean, thus enhancing the competitiveness of the EU aquaculture industry, while at the same time reducing the pressure on the wild BFT stocks and ensuring the conservation and recovery of this magnificent fish.

Field of science
/agricultural sciences/agriculture, forestry, and fisheries/fisheries

Programme(s)

Topic(s)

Call for proposal
FP7-KBBE-2007-1

Funding Scheme
CP-FP - Small or medium-scale focused research project

Coordinator

INSTITUTO ESPANOL DE OCEANOGRAFIA

Address
Corazon De Maria 8
28002 Madrid
Spain

Activity type
Research Organisations

EU contribution
€ 613 250

Website
Contact the organisation

Administrative Contact
Fernando De La Gándara (Dr.)
<table>
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<td>INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER</td>
<td>France</td>
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<td>1625 Route De Sainte Anne Zone Industrielle De La Pointe Du Diable 29280 Plouzane</td>
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<td>HEINRICH-HEINE-UNIVERSITAET DUESSELDORF</td>
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<td><strong>UNIVERSITA DEGLI STUDI DI BARI ALDO MORO</strong></td>
<td>€ 119 618</td>
<td>Piazza Umberto I 1 70121 Bari</td>
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<td><strong>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS</strong></td>
<td>€ 63 500</td>
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<td><strong>SKRETTING AQUACULTURE RESEARCH CENTRE AS</strong></td>
<td>€ 50 500</td>
<td>Po Box 319 4016 Stavanger</td>
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### UNIVERSITE MONTPELLIER 2 SCIENCES ET TECHNIQUES

- **Country**: France
- **EU contribution**: €39,512
- **Address**: Place Eugene Bataillon 2, 34095 Montpellier
- **Website**: [Contact the organisation](#)

**Administrative Contact**

Karl Sveinsvoll (Mr.)

### MFF LTD

- **Country**: Malta
- **EU contribution**: €242,521
- **Address**: Elbros Triq L Industrija Kirkop, KKP9042 Kirkop

**Contact the organisation**

Simeon Deguara (Dr.)

### CALADEROS DEL MEDITERRANEO S.L.

- **Country**: Spain
- **EU contribution**: €131,994,57
- **Address**: Andres Cegarra Cayuela S/n, 30360 La Union

**Contact the organisation**

[Contact the organisation](#)
Contact the organisation

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David Martínez Cañabate (Mr.)

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Record number: 88440

Permalink: https://cordis.europa.eu/project/id/212797/

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