

**GUIDANCE FOR  
ACCREDITATION  
PROCEDURES**

# Innovation transfer network in Mediterranean Mariculture Industry Training Courses

## **Innovative solutions in Feeding Management for sea bass and sea bream**

Bodrum, Turkey, 12<sup>th</sup> September 2012 | Valencia, Spain, 20<sup>th</sup> September 2012

## **Innovative Vaccination strategies for sea bass and sea bream**

Bodrum, Turkey, 12<sup>th</sup> September 2012 | Valencia, Spain, 20<sup>th</sup> September 2012

## **Innovative solutions in increasing predictability in sea bass and sea bream hatcheries**

Athens, Greece, 17<sup>th</sup> September 2012

## **Innovative solutions in genomics applications for sea bass and sea bream**

Athens, Greece, 11<sup>th</sup> October 2012

## **Innovative solutions in Processing technology and creation of added value products and services for sea bass and sea bream**

Athens, Greece, 17<sup>h</sup> October 2012 | Bodrum, Turkey, 19<sup>nd</sup> October 2012

## **Mediterranean Mariculture vision for 2020 (MEDAQUA CEO Event)**

Athens, Greece, 13<sup>th</sup> December 2012

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## Introduction

The main purpose of this document is to act as a briefing document to place the INTRANEMMA training courses in the accreditation systems of the partner countries (Greece, Spain and Turkey). The main content in this document has been developed based on a review of the training courses and the external evaluation report provided by the external evaluator.

According to the external evaluation the courses have significant characteristics:

- The appropriate range of short course materials, focusing on innovative subjects of real relevance to the Mediterranean sea bream/sea bass industry
- The range of course materials chosen from the results of a survey based on the WAVE Master List of competences, which identified training gaps and thus training needs
- The selection of a transnational pool of users as the most significant Mediterranean aquaculture players, who subsequently participated in the INTRANEMMA courses
- The high post-survey ratings, particularly concerning the quality of the trainers and the organisations of the courses (see below for further details)
- The use of multiple languages and trans-national partners, reflecting the Mediterranean sea bream/bass industry (Greece, Turkey, Spain) representing the most important languages in European aquaculture, but also involving other leading aquaculture partners from Norway and Ireland

As these courses were run at a pilot level stage this document functions merely as a guide setting out European and partner Member States current accreditation (NQF and EQF) status.

## Recommendations for possible further action:

- As the INTRANEMMA courses did not take place, in accordance with the agreed project timetable, until the autumn of 2012, when academic and VET courses of the countries involved had already begun, the partners were unable to make constructive contacts with the relevant National Agencies. For the courses to gain recognition, it is recommended that there should be involvement of national accrediting agencies to obtain feedback on the course structure and relevance. The European Qualifications Framework (EQF) National Contact Points for each partner country are as follows:

Country	Institution (in national language(s) and English)	Address	Website	Email	Telephone
Greece	Εθνικός Οργανισμός Πιστοποίησης Προσόντων (ΕΟΠΠ) – National Organization for the Certification of Qualifications (E.O.P.P.)	41, Ethnikis Antistaseos Avenue, Nea Ionia - Athens 142 34, Greece	www.eopp.gov.gr www.nqf.gov.gr	grafeio.proedrou@eopp.gov.gr m.dakoronia@eopp.gov.gr d.dede@eopp.gov.gr	Tel.: +302102709021-+302102709002, +302102709115-8, (+30 2102709020) Fax:+3021027774 32
Spain	Ministerio de Educación - Ministry of Education	General Oraa, 55. Madrid., Spain	http://www.educacion.gob.es/mecu.html	mecu@educacion.es carmen.banos@educacion.es	+34 917459412
Turkey	Mesleki Yeterlilik Kurumu Vocational Qualifications Authority	Atatürk Bulvarı No: 227 Kavaklıdere Ankara, Turkey		bakbas@myk.gov.tr myk@myk.gov.tr	+90 312 428 72 08

- More detailed identification of course levels is recommended to pinpoint where the INTRANEMMA courses could fit into, harmonize with, or enhance existing National Qualifications Framework recognised curricula
- Assessment instruments are needed, which could be used to assign valid ECTS or ECVET credit points to the courses. The current descriptions of the courses in terms of Learning Outcomes need to be tested and confirmed in a more formal way (even though the courses themselves fall into the ‘non-formal learning’ category).
- Learning outcomes now feature prominently in National Qualification Frameworks (NQFs) in Europe. The EQF recommends that the link between the levels of national qualifications and the levels of the EQF is defined based on learning outcomes. In addition, learning outcomes have an increasingly prominent role in higher education and in Vocational education and training (VET) (\*See Annex 1 for further details). With this in mind the INTRANEMMA training courses have been developed using a learning outcomes approach.

There are two possibilities for Higher Education:

1. For courses organised by officially recognised higher education institutions a possibility is to embed the courses into an accredited programme.
2. Or where accreditation of institutions rather than accreditation at the programme level is the standard, make sure that the courses are organised by accredited institutions and are part of the official offer of courses by that institution.

Depending on the situation in the different partner countries either one of these routes could be explored. In most cases higher education institutions will have central offices in place specialised in quality assurance that can help to sort out which system is possible, feasible and achievable.

## Current status of accreditation systems in partner countries:

### Greece

With some delays, caused partly by the present financial crisis, Greece launched, in the beginning of 2010, the procedures for developing the National Qualifications Framework that was earmarked by an open public consultation that lasted for several months. The Hellenic Qualifications Framework is underpinned by the learning outcomes approach, whereby the qualifications are described in terms of learning outcomes that are classified into 8 levels. After a period of planning, public consultation, legal consolidation and preparation, Greece is now entering the 3rd phase.

(Further information:

<http://en.ngf.gov.gr/Home/TheHellenicQualificationsFramework/tabid/103/Default.aspx>)

### Turkey

The first steps in the structuring of a National Qualifications Framework (NQF) in Turkey were started by the Council of Higher Education (CoHE) after a Ministerial Summit held within Bologna Process in 2005 in Bergen which decided on the composition of the national qualifications frameworks. It was planned that the qualifications given by higher education institutions should be included in NQF-HETR within national quality assurance system between the years of 2010-2015 and that the documentation of the compatibility of the framework with European Upper Qualifications Framework should be completed between the years of 2010-2012.

(Further information: [http://www.cedefop.europa.eu/EN/Files/6112\\_en.pdf](http://www.cedefop.europa.eu/EN/Files/6112_en.pdf))

### Spain

The Spanish Qualifications Framework for Higher Education (MECES) has been established, and the Spanish Qualifications Framework for Lifelong Learning (MECU) will be implemented in Spain.

- The MECES refers to all qualifications obtained within the higher education system. Therefore, it only refers to formal education. Every qualification level in the MECES will have an equivalent level in the MECU.
- The MECU refers to all learning contexts, that is, it covers formal learning (taking into account all levels of the education system) as well as formal and informal learning.

(Further information <http://www.mecd.gob.es/mecu/en/que-es/marcos-cualificaciones.html>)

## Annex 1

### What is the EQF?

*'The most important driving force for an EQF came from business sectors, because they needed a European Tool to help them understand and use the different qualifications systems in Member States'* (L.Zahilas, CEDEFOP, Brussels, June 2008). This drive, linked to the need for fast-developed innovatory courses is readily seen in the suite of INTRANEMMA courses.

The EQF applies to all types of education, training and qualifications and shifts the focus from the traditional system which emphasises 'learning inputs', such as the length of a learning experience, or type of institution, to a unit/modular-based learning outcome approach. It aims to relate different countries' national qualifications systems to a common European reference framework. This means that individuals, employers, academic institutions can compare and evaluate national qualifications more easily, which has not traditionally been the case in Europe. It also means that people should not have to repeat their learning if they move to another country, which is what happens at the present time.

It was formally established in June 2008, and is now being put in practice across Europe. Member States were expected to relate their national qualifications systems to the EQF so that all new qualifications issued from 2012 would carry a reference to an appropriate EQF level.

### What are Learning Outcomes?

Learning outcomes are the core of the EQF, describing what a learner knows, understands and is able to do, assessable at eight levels, ranging from basic (Level 1) to advanced (Level 8). Individual Member State NQF levels are shown in relation to the EQF levels, so that in a way, the EQF can act as a bridge from the EQF to the NQF

### How are Learning Outcomes used?

Choosing the learning outcomes approach for a credit point system (ECVET) is a logical step for VET and short courses as it links the occupational and the educational standards used to define occupations, qualifications and curricula. It also links education and the labour market in a very important way (Cedefop, Le Mouillour, 2005; Cedefop, 2009b). Short courses, such as the INTRANEMMA courses, which do not fit *per se* into the country's National Qualifications Framework, can be awarded recognised credit points using the EQF credit point system, ECVET, and their results can be translated into recognised NQF levels.

### What is ECVET?

In ECVET, an individual's learning outcomes are assessed and validated in order to transfer credits from one qualification system to another or from one learning "pathway to another. According to this approach, learners can accumulate the required learning outcomes for a given qualification over time, in different countries or in different situations. It was accepted in June 2009 and aims for better compatibility between the different vocational education and training (VET) systems in place across Europe and their qualifications. The ECVET credit system describes qualifications in terms of units of learning outcomes, and it includes assessment, transfer, accumulation and recognition procedures. It should be in place by 2012.

## INTRANEMMA PARTNERS

### Federation of Greek Maricultures (FGM) – [www.fgm.gr](http://www.fgm.gr)

The Federation of Greek Maricultures (F.G.M) represents the Greek aquaculture enterprises that produce Mediterranean euryhaline fish species and mainly Gilthead sea bream and European sea bass. It constitutes a professional association and is member of Federation of European Aquaculture Producers (FEAP) since 1993. It was founded in 1991 and FGM aim is to promote the interests of the sector in Greece and abroad. It officially represents the sector to Public Authorities, Institutions and Organisations. It participates in aquaculture research and educational programs and it supports the dissemination of information to its members. It organises campaigns for the presentation and promotion of Greek Mariculture industry. It concentrates 80% of the Greek production of 120.000 tons of sea bass and sea bream. It has been proved very active in promoting the sector and has actually widened their horizons and spectrum of interests with their efforts to bring the sector into the international stage. FGM has been working with HEPO to establish a quality trade mark for sea bream and sea bass farmed in Greece. A further Quality Assurance Scheme has been funded by PESCA Project. FGM comprises by a Board of directors, the secretariat, the Marketing Committee the Scientific Advisory Committee and the Public institutions Committee . FGM representatives participate in the ACFA (Advisory Committee of Fisheries and Aquaculture), DGSANCO and DG Mare committees and several projects like EUROPANDA, PROFET and PROFET POLICY and coordinates INTRANEMMA.



### MUGLA KULTUR BALIKCILARI - Mugla Fish Farmers Federation (MFFA) [www.muglakulturbalikcilari.com](http://www.muglakulturbalikcilari.com)

Atatürk Mh. 270 Sk. No: 5 Kat 1, Güllük, Milas / MUĞLA 48670, MUĞLA, TURKEY

MUGLA FISH FARMERS ASSOCIATION (MFFA) is the strongest mariculture association in Turkey for the development of aquaculture and culture fish production in Turkey. It's objectives include the set up an effective working coordination among the Turkish fish farmers which are involved in the culture of marine fish. It also aims to find solutions for the sector problems, to develop new projects, To promote cooperation among the associations, to promote and represent the sector and to establish a positive public opinion and to provide training programmes for the sector.



**MUĞLA  
KÜLTÜR BALIKÇILARI  
DERNEĞİ**

### APROMAR – [www.apromar.es](http://www.apromar.es)

APROMAR is the Producers Association of Marine Aquaculture in Spain. We are an organization of professional, voluntary, nonprofit and national level. We are also recognized by Ministerial Order of 30 December 1986 as Producers Organisation (OP-30) for national purposes and the European Union. APROMAR represents companies producing animal or plant species with mariculture activities in Spain. APROMAR has now members, Spanish producers of marine fish, shellfish hatcheries and shellfish, as well as algae. Regional and Sectoral Associations of the same crops, such as the Canary Association of Aquaculture Enterprises (ACEAC), the Association of Marine Aquaculture in Andalusia (ASEMA), the Association of Producers of Turbot (AROGA) and the Valencia Association of Fish Farming Business (AVEMPI) are also members of APROMAR. We are also associated with the companies providing technology and services to the industry, including manufacturers of fish feed. We defend their common interests before any instance, advising, managing and reporting. We promote the quality of aquaculture products, the market transparency and information to consumers and research, innovation and technological development in the field of marine aquaculture. We promote the development of sustainable aquaculture, resource conservation, food security, integration with the environment and respect for the welfare of animals raised. We represent them in the general administration of the state, state government, labor unions, other national institutions and to the European Union. We promote the development and enactment of appropriate laws for the development of marine aquaculture in Spain. We encourage and promote research, technology development and dissemination of scientific knowledge and take steps to improve the marketing of production partners. We organise campaigns to promote and coordinate dissemination of aquaculture products and organize meetings and seminars for industry and related fields, as well as fairs and exhibitions. We are also advising on insurance coverage and stocks aquaculture facilities. APROMAR has a department dedicated to international cooperation in aquaculture. APROMAR meeting provides a forum for opinion maker sector. Annually we publish a complete report independent sector. Every month we publish and distribute the newsletter to our partners APROMAR-reports detailing the latest activities and efforts of the association. We collect and distribute to partners and state legislative developments in Europe. APROMAR maintains a web site with an area reserved for members. We maintain a permanent presence in the media and magazines by writing articles and issuing press releases.



**APROMAR**

Asociación Empresarial de Productores de Cultivos Marinos

## AQUARK – [www.aquark.gr](http://www.aquark.gr)

AQUARK a consulting firm and technology and innovation amplifier specializing in European Aquaculture was established in 2004. Our mission is to consult, innovate, foresee, network, communicate, train, research, advocate, conserve and inspire in the field of aquaculture, as well as the protection and sustainability of global aquatic resources. AQUARK has long experience in EU projects like, [PENED 1999](#), [FAIR - CRAFT Feasibility study - 1999](#), [MARAQUA 1998-2000](#), [PESCALEX 2005-2007](#), [AQUACULTURE INNOVATION 2004-2006](#), [PANDA 2004-2007](#), [DESIGN ACT - ACE 2005-2008](#), [ASEM Aquaculture Platform- Mar 2006](#), [PESCALEX 2 2008-2010](#), [AQUATNET 2008-2011](#), [VOCATIONAL AQUALABS 2009-2011](#), [INTRANEMMA 2010-2012](#). AQUARK has organized several international meetings like the [MEDITERRANEAN AQUACULTURE 2020 - Oct 2011](#), [PROFET POLICY ATHENS - Nov 2007](#), [PANDA Hydra workshop - May 2005](#), [PROFET ATHENS - May 2003](#), [International Symposium on Nutrition and Feeding in Fish - June 2002](#), [Workshop on Mediterranean Fish Nutrition - June 2002](#) and [9th European Association of Fish Pathologists Conference - Sept 1999](#) and participated in several meetings. AQUARK also provides expert advice to international organizations like FAO, IUCN, FOESA, EFSA, EATIP and EU. AQUARK is a leading consultancy firm in health management in Mediterranean mariculture. Being close with the fish farmers associations in the main producing countries namely Greece, Turkey and Spain has the capacity the network and the expertise to read the pulse of the Mediterranean aquaculture industry and readily transfer the enquires to the research community in order to adapt research protocols and formulate applied solutions for the industry. It has been also the best ambassador of new effective applied techniques, technologies, services and products from the supply industry to the fish farming community across the region. AQUARK has been involved in new vaccine development through applied epidemiological and diseases impact studies, field isolate screening, dossier development for safety and efficacy trials, expert advice and follow up during the testing, field application of potential new vaccines as well as sampling to monitor efficacy and record field data for final evaluation and expert report writing. AQUARK has access to a network of lab trial facilities and the readily access to selected fish farms that have the epidemiological profile, high level of management and robust system of production parameters monitoring, that ensures efficient testing of candidate vaccines in a process that ensures that data generation could be utilised in future licensing either at national or European level.



## AQUATT – [www.aquatt.ie](http://www.aquatt.ie)

AquaTT is an international foundation which provides project management and training services to support the sustainable development of Europe's aquatic resources. AquaTT's mission is to bridge the knowledge gap between the dynamic R&D environments and the progressive commercial sector. AQUATT has over 19 years of experience in supporting European projects, currently involved in 12 projects in FP7. We specialise in designing best practice work packages related to dissemination, communication, technology transfer, training and stakeholder consultation. We currently offer our skills to consortia carrying out research related to Food, Energy, Environment and all aspects of Marine Research. We are not for profit and classified as an SME (prioritised for funding). We ensure that applications score highly on the "impact" evaluation criteria and if funded we ensure your project has its intended impact by working closely with the scientists in consortia.



AquaTT was founded in 1992 under the EU COMETT programme as the University Enterprise Training Partnership (UETP) for the European aquaculture industry, arising from a clear need to coordinate the training requirements of the industry through a single body. AquaTT's corporate owners are University College Cork and the National University of Galway, Ireland. Company operations today are led by a senior management team, and supported by an experienced staff of programme managers and project officers. AquaTT is participating in FP7 contracts valued at more than €38 M, and €5.8 M to Ireland (AquaTT €2.9 M), which is why our management and support staff team has tripled in the last 2 years ensuring capacity to deliver on our commitments. The company is governed by our Board of Directors, with four Irish directors and three European directors. A representative from the Federation of European Aquaculture Producers (FEAP) also has a non-voting position. AquaTT is a specialist in scientific knowledge transfer and management activities and works together with Europe's best researchers and innovators to tackle the big societal challenges facing Europe at the moment. AquaTT is a successful key player in European research consortia, playing a role in end-user focused activities such as communication, dissemination and effective scientific knowledge identification, collection and transfer, facilitating better market take-up of European research findings.

**Innovation transfer network in Mediterranean Mariculture  
Industry Training Courses**

Vaccination strategies

Processing

Predictability in hatcheries

Genomics

Health & Safety

Feeding strategies






 INTRANEMMA

**Innovation transfer network in Mediterranean Mariculture  
Industry Training Courses**





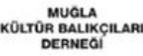







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FOR MORE INFORMATION, VISIT OUR WEBSITE [WWW.INTRANEMMA.EU](http://WWW.INTRANEMMA.EU)






  
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