

# MedAID Watch letter

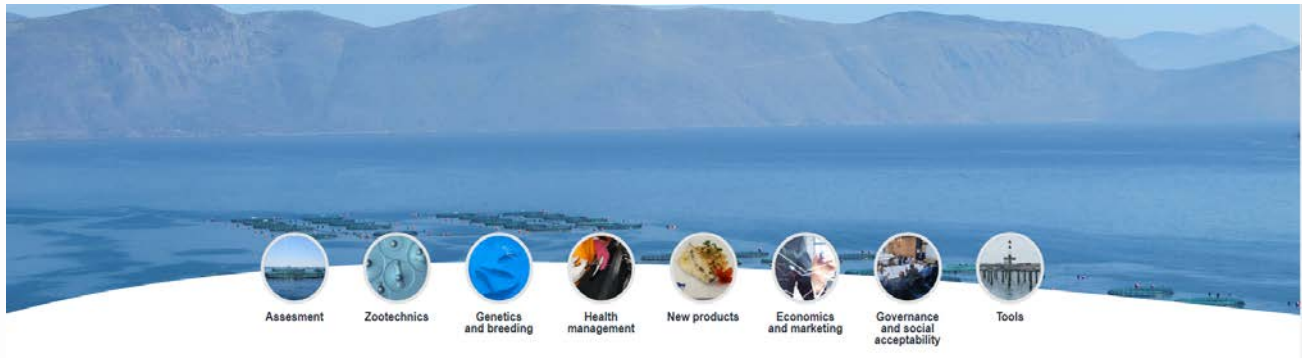
## Autumn 2021



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MedAID Watch Letter features science and technology news and insight to help make critical decisions for the sustainability and growth of the Mediterranean aquaculture.

Prepared by the Strategic Department of IRTA



### Events

- » *Events December 2021: Aquaculture Africa 2021 (December 11, Egypt) - [World Aquaculture Society]*
- » *Events February 2022: Fish International (February 13-15, Bremen, Germany) - [Fish International]*
- » *Events May 2022: World Aquaculture 2021 (May 24-27, México) - [World Aquaculture Society]*
- » *Events May 2022: 2<sup>nd</sup> World Aquaculture and Fisheries Conference (May 18-19, Tokyo, Japan) - [World Aquaculture Society]*
- » *Events September 2022: Aquaculture Europe 2022 (September, 27-30, Italy) - [European Aquaculture Society]*
- » *Events September 2022: ICES Annual Science Conference 2022 (September, 12-15, Dublin) - [International Council for the Exploitation of the Sea]*
- » *Events September 2022: 9<sup>th</sup> International Symposium on Aquatic Animal Health (September 4-8, Chile) - [Fish Health Section of the American Fisheries Society]*

### Highlights

04/11/2021

- » *Fit for future: A guide for effective FLAGs (Fisheries Local Action Group) - [European Union Publications Office]*

26/10/2021

» *Bass and Bream market on the road to recovery* - [[FAO.org](#)]

04/10/2021

» *Novel formulations of aquafeeds use alternative ingredients based on sustainability: GAIN project, funded by the EU Horizon 2020 Fund, examines feed ingredients for turbot, salmon, trout and sea bream* - [[Global Seafood Alliance](#)]

01/10/2021

» *A Vision of the Food System—2045: Climate Change Impact, Digital Technologies, Fish Farming and more* - [[Food Technology Magazine](#)]

## Zootecnics

15/12/2021

» *The combined DHA and taurine effect on vision, prey capture and growth in different age larvae of gilthead sea bream (*Sparus aurata*)* - [[Aquaculture](#)]

15/12/2021

» *Testing of new sampling methods and estimation of size structure of sea bass (*Dicentrarchus labrax*) in aquaculture farms using horizontal hydroacoustics* - [[Aquaculture](#)]

15/12/2021

» *Effect of feeding with insect meal diet on the fatty acid compositions of sea bream (*Sparus aurata*), tench (*Tinca tinca*) and rainbow trout (*Oncorhynchus mykiss*) fillets* - [[Aquaculture](#)]

15/12/2021

» *Effects of dietary arachidonic acid and docosahexanoic acid at different carbohydrates levels on gilthead sea bream growth performance and intermediary metabolism* - [[Aquaculture](#)]

November 2021

» *Genetic parameter estimations of new traits of morphological quality on gilthead seabream (*Sparus aurata*) by using IMAFISH\_ML software* - [[Aquaculture Reports](#)]

04/11/2021

» *Social Hierarchy Effects on Stress Responses of Subordinate Specimens in Sea Bream (*Sparus aurata*)* - [[Preprints.org](#)]

25/10/2021

» *Fishmeal replacement by periphyton reduces the fish in fish out ratio and alimentation cost in gilthead sea bream *Sparus aurata** - [[Nature](#)]

24/10/2021

» *Co-feeding dry and live feed in first-feeding gilthead seabream: Effects on functional development of the digestive system, larvae and postlarvae performance* - [[Aquaculture Nutrition](#)]

## Health

15/12/2021

» Cortisol concentration in scales is a valid indicator for the assessment of chronic stress in European sea bass, *Dicentrarchus labrax* L. - [\[Aquaculture\]](#)

15/11/2021

» Global assessment of the response to chronic stress in European sea bass - [\[Aquaculture\]](#)

05/11/2021

» Survey on laboratories and consultants working in the diagnostics of European seabass and gilthead seabream diseases: preliminary results - [\[Bull. Eur. Ass. Fish Pathol.\]](#)

22/10/2021

» Initial Evidence That Gilthead Seabream (*Sparus aurata* L.) Is a Host for Lymphocystis Disease Virus Genotype I - [\[Animals Journal\]](#)

03/10/2021

» Investigation of betanodavirus in sea bass (*Dicentrarchus labrax*) at all production stages in all hatcheries and on selected farms in Turkey - [\[Arch Virol.\]](#)

16/09/2021

» Mediterranean Aquaculture in a Changing Climate: Temperature Effects on Pathogens and Diseases of Three Farmed Fish Species - [\[Pathogens\]](#)

## Environment

November 2021

» Effect of changing in weather conditions on Eastern Mediterranean coastal lagoon fishery - [\[Regional Studies in Marine Science\]](#)

26/09/2021

» The Impacts of Environmental and Socio-Economic Risks on the Fisheries in the Mediterranean Region - [\[Sustainability Journal\]](#)

## Government & Economics

March 2022

» Target Market Selection for the Major Aquaculture Products of Turkey - An Evaluation on Export Markets by Hybrid Multi-criteria Decision-making Approach - [\[Aquaculture Studies\]](#)

05/11/2021

» Assessing the economic impact of key operational factors on grow-out farms producing European sea bass under different scenarios of production - [\[Aquaculture Economics & Management\]](#)

October 2021

» UNESCO-IOC and European Commission (2021) MSPglobal International Guide on Marine/Maritime Spatial Planning. Paris, France, UNESCO, 152pp. - [\[OceanBestPractices\]](#)

October 2021

» Actor intentions implementing 'ecosystem Europe': The contested case of aquaculture - [\[Environmental Science & Policy\]](#)

## Technology

27/10/2021

» System and method for biomass growth and processing - [\[Aquaculture Feed – Patent EP3837043 A1\]](#)

20/10/2021

» Aquaculture Facility - [\[Fish Farming – Patent EP3190877 B9\]](#)

06/10/2021

» Submersible feeding, control and command platform - [\[Fish Farming & Feed systems – Patent EP3462851 B1\]](#)

15/09/2021

» Optimization of aquaculture production with a solution based on artificial intelligence for the automatic classification of the gender of fish - [\[Aquaculture Production & Sexing System – Patent ES2853424 A1\]](#)

08/09/2021

» Compositions and methods for aquaculturing - [\[Aquaculture Feed – Patent EP3706558 A4 \]](#)

01/09/2021

» Sporeforming probiotic strains, methods and uses thereof - [\[Aquaculture Feed & Probiotics – Patent EP3870690 A2 \]](#)

*Before printing this Newsletter, please think carefully it is necessary to do*

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