

# MedAID Watch letter

## Winter 2022



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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 April 2022: Best Practices in Aquaculture Workshop (EATIP-OBPS-IOC, April 5, Online) - [European Aquaculture Technology and Innovation Platform (EATIP)]**
- » **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 May-June 2022: VIV Europe 2022 and World Expo from feed to Food (May 31 - June 2, Utrecht, Netherlands) - [VIV Europe 2022]**
- » **Events June 2022: XX International Symposium on Fish Nutrition and Feeding Towards Precision Fish Nutrition And Feeding (June 5-9, Italy) - [ISFNF 2022]**
- » **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

17/02/2022

» *Workshop: How outputs from EU projects can upgrade health management in Mediterranean aquaculture* - [\[Bulletin European Association of Fish Pathology\]](#)



09/02/2022

» *European Commission launches platform to promote production and use of algae in Europe* - [\[European Commission\]](#)

04/02/2022

» *Effect Blue farming: new strategic vision for sustainable aquaculture now available in all EU languages!* - [\[European Commission\]](#)

28/01/2022

» *European Commission reply to the AAC Recommendations for the EU Biodiversity Strategy for 2030* - [\[Aquaculture Advisory Council \(AAC\)\]](#)

January 2022

» *Unlocking the potential of blue foods in global food security and nutrition: a missing piece under the lens of seafood liking index* - [\[World Aquaculture Performance Indicators \(WAPI\) – FAO\]](#)

22/12/2021

» *BIOGEARS: bio-based materials for sustainable European aquaculture* - [\[European Commission\]](#)

## Zootecnics

March 2022

» *Effect of creatine and EDTA supplemented diets on European seabass (*Dicentrarchus labrax*) allergenicity, fish muscle quality and omics fingerprint* - [\[Comparative Biochemistry and Physiology Part D: Genomics and Proteomics\]](#)

12/02/2022

» *Towards a semi-automated analysis of fish plasma by 1H NMR metabolomics - applications to aquaculture* - [\[Aquaculture\]](#)

10/02/2022

» *Effects of dietary lipid reduction on lipid composition, fatty acid profile, plasma lipoproteins and antioxidant status in gilthead seabream (*Sparus aurata*)* - [\[Journal of Applied Aquaculture\]](#)

06/02/2022

» *Interaction between the Effects of Sustained Swimming Activity and Dietary Macronutrient Proportions on the Redox Status of Gilthead Sea Bream Juveniles (*Sparus aurata* L.)* - [\[MDPI Antioxidants\]](#)

28/01/2022

» *Feed Supplementation with the GHRP-6 Peptide, a Ghrelin Analog, Improves Feed Intake,*

**Growth Performance and Aerobic Metabolism in the Gilthead Sea Bream *Sparus aurata* -  
[Fishes]**

30/01/2022

» *Physiological responses of red seabream (*Pagrus major*) to stress and rearing temperature - [Aquaculture Research]*

## **Health**

06/02/2022

» *Reservoirs of Red-Spotted Grouper Nervous Necrosis Virus (RGNNV) in Squid and Shrimp Species of Northern Alboran Sea of Sea Bream (*Sparus aurata*) to AIP56, an AB-Type Toxin Secreted by *Photobacterium damsela* subsp. *piscicida* Analysis of Fish Hosts Responses to Nervous Necrosis Virus - [MDPI Viruses]*

05/02/2022

» *Susceptibility of Sea Bream (*Sparus aurata*) to AIP56, an AB-Type Toxin Secreted by *Photobacterium damsela* subsp. *piscicida* Analysis of Fish Hosts Responses to Nervous Necrosis Virus - [MDPI Toxins]*

03/02/2022

» *Transcriptomic Analysis of Fish Hosts Responses to Nervous Necrosis Virus - [MDPI Pathogens]*

02/02/2022

» *Genomic Predictions of Phenotypes and Pseudo-Phenotypes for Viral Nervous Necrosis Resistance, Cortisol Concentration, Antibody Titer and Body Weight in European Sea - [MDPI Animals]*

29/01/2022

» *Short-Term Immune Responses of Gilthead Seabream (*Sparus aurata*) Juveniles against *Photobacterium damsela* subsp. *piscicida* - [International Journal of Molecular Sciences]*

27/01/2022

» *Bacteriophages in the Control of *Aeromonas* sp. in Aquaculture Systems: An Integrative View - [MDPI Antibiotics]*

15/01/2022

» *Severe Natural Outbreak of *Cryptocaryon irritans* in Gilthead Seabream Produces Leukocyte Mobilization and Innate Immunity at the Gill Tissue - [MDPI International Journal of Molecular Sciences]*

## Environment

25/02/2022

» *Cumulative climatic stressors strangles marine aquaculture: Ancillary effects of COVID 19 on Spanish mariculture* - [[Aquaculture](#)]

04/02/2022

» *Effect Blue farming: new strategic vision for sustainable aquaculture now available in all EU languages!* - [[Regional Studies in Marine Science](#)]

20/01/2022

» *Ecological risk analysis in marine fish farming: a case study of a seabass (*Dicentrarchus labrax*) farm located in Moroccan Mediterranean coast* - [[E3S Web of Conferences](#)]

02/01/2022

» *Wave Analysis for Offshore Aquaculture Projects: A Case Study for the Eastern Mediterranean Sea* - [[MDPI Climate](#)]

01/01/2022

» *Modelling the impact of finfish aquaculture waste on the environmental status in an Eastern Mediterranean Allocated Zone for Aquaculture* - [[Continental Shelf Research](#)]

## 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](#)]

09/02/2021

» *European consumer segments with a high potential for accepting new innovative fish products based on their food-related lifestyle* - [[Food Quality and Preference](#)]

30/01/2021

» *Assessing the economic impact of diseases in Mediterranean grow-out farms culturing European sea bass* - [[Aquaculture](#)]



20/01/2022

» *Cost and profitability analysis for a seabass production farm in Morocco* - [[E3S Web of Conferences](#)]

11/01/2022

» *Cost Prediction of Firms' Financial Distress: The case of the Greek Finish-Farming Industry* - [[Journal of Environmental Protection and Ecology](#)]

## Technology

May 2022

» *Fish abundance estimation with imaging sonar in semi-intensive aquaculture ponds - [Aquaculture Engineering]*

11/02/2022

» *Underwater IoT: The Promise of Data Analytics in Aquaculture - [Iotforall.com]*

10/02/2022

» *Cermaq's first iFarm fish head to market (health and welfare technology using machine learning and artificial intelligence) - [Seafoodsource.com]*

10/02/2022

» *Smart Aquaculture Grow out System - [Aquaculture growth system – Patent WO2022029471A1]*

02/02/2022

» *Anti-parasitic composition and uses thereof - [Pest Control – Patent EP3944770]*

19/01/2022

» *Underwater 3d reconstruction device - [Reconstructing fish image – Patent EP3940643]*

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

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