



New ARRINA Publication: Understanding Biomarkers in Fish Nutrition

The EU-funded ARRINA (Advanced Research Initiatives for Nutrition & Aquaculture) project has published a new resource for aquaculture feed producers, entitled “Understanding Biomarkers in Fish Nutrition”.

The objective of this booklet is to provide a reliable set of biomarkers and associated methodologies to assess the nutritionally mediated effects on growth performance, metabolic homeostasis, stress responsiveness and health condition of fish which are fed new diet formulations from early life stages to completion of production cycle and sexual maturation. Of particular value are predictive and non-invasive biomarkers available at a relatively low cost, although the combination of conventional and omics approaches is emerging as a user-friendly option.

This booklet is specifically aimed at scientists and feed producers, but it also targets other industrial segments (e.g. fish farmers, feed additives companies, retailers) and individuals interested in gaining further knowledge of the physiological consequences of the raw materials that are currently used in the feeds of farmed fish. The species focussed on by the ARRINA project are: Atlantic salmon, rainbow trout, common carp, European sea bass and gilthead sea bream.

This booklet is the final in a series of three technical booklets on the nutrition and feeding of fish farmed in Europe, and has been produced under the framework of the European Union FP7 funded ARRINA project. The aim is to make these booklets widely available both to targeted stakeholders and society in general, in order to raise awareness of the science-based knowledge supporting the development of high quality, safe, and environmentally sustainable aquaculture feeds.

The first two ARRINA technical booklets were focused on feed ingredients and nutrient requirements. All booklets are available at www.arrina.ie and can also be requested from the dissemination task leader Cliona Ní Cheallacháin, AquaTT (cliona@aquatt.ie).

The website also provides further information on all other aspects of the ARRAINA project including specific research methods and available results. For more information, contact the ARRAINA Project Coordinator, Sadasivam Kaushik (sadasivam.kaushik@inra.fr).

Notes for Editors

The ARRAINA project is funded by the European Union's Seventh Framework Programme for Research and Technological Development (FP7/2007-2013) under the grant agreement n° 288925. The Nutrition, Metabolism and Aquaculture Research Unit at INRA St-Pée-sur-Nivelle coordinates the ARRAINA project. The unit undertakes research on fish nutrition, metabolism and feeding in an integrative manner so as to gain basic knowledge on nutrition and metabolism in fish in order to support the aquaculture industry in developing new aquafeed.

Detailed partner profiles are available on request.

For press queries, please contact the project's communication officer:
Cliona Ní Cheallacháin, AquaTT (email: cliona@aquatt.ie, Tel: +353 1 644 9008)

Keywords

aquaculture, biomarkers, methodologies, industry, farmed fish, sustainable aquaculture feeds, technical booklet, nutrition

Countries

Austria, Belgium, Bulgaria, Cyprus, Czechia, Germany, Denmark, Estonia, Greece, Spain, Finland, France, Croatia, Hungary, Ireland, Italy, Lithuania, Luxembourg, Latvia, Malta, Netherlands, Poland, Portugal, Romania, Sweden, Slovenia, Slovakia, United Kingdom

Contributor

Contributed by
AquaTT

Related projects



ARCHIVED

Advanced Research Initiatives for Nutrition & Aquaculture

ARRAINA

11 December 2017

PROJECT

Last update: 15 December 2016

Permalink: <https://cordis.europa.eu/article/id/130976-new-arraina-publication-understanding-biomarkers-in-fish-nutrition>

European Union, 2025