



algae4a-b

© Fitoplancton Marino SL

Advances in fish aquaculture and microalgae biotechnology

Summer school schedule

El Pto Sta Maria, Spain - 17-21th September 2018

Monday 17th September 2018		
09:30-10	Welcome and Registration	
Morning session		
10:00-10:45	Algae4A-B Project Overview	Member of project
10:45-11:30	Genomic approaches and breeding in fish aquaculture	M. Manchado
11:30-12:00	Coffee break	
12:00-12:45	La I+D en la empresa	Ricardo Zerolo
12:45-13:30	Fish tagging techniques for longitudinal approaches	M. Manchado
13:30-15:30	Lunch break	
Afternoon session		
15:30-17:30	Practical session. Fish handling and tagging	Mol Biol Lab. Toruño
17:30-18:00	Closing remarks	Manuel Manchado
Tuesday 18 th September 2018		
Morning session		
10:00-10:45	Algae Biotech: making sense using NGS approaches	Juan Martínez
10:45-11:30	Insights into microalgae evolution	Carlos Infante
11:30-12:00	Coffee break	
12:00-12:45	Microalgae nutraceuticals	Jose P. Cañavate
12:45-13:30	Microalgae as a source of bioactive compounds to improve the fish health in aquaculture	C. Carballo
13:30-15:30	Lunch break	
Afternoon session		
15:30-17:30	Practical session: Evaluation of microalgae and embryos extracts (1)	Mol Biol Lab. Toruño
17:30-18:00	Closing remarks	Manuel Manchado
Wednesday 19 th September 2018		
Morning session		
10:00-10:45	Larval reprogramming strategies. A step forward	Deborah
10:45-11:30	Microbiome importance in aquaculture	Patricia pinto
11:30-12:00	Coffee break	
12:00-12:45	Proteomics of microalgae	Liliana Anjos
12:45-13:30	Marine products and cosmetology – an overview”	Konstantinos Gardikis
13:30-15:30	Lunch break	
Afternoon session		
15:30-17:30	Practical session: Evaluation of microalgae and embryos extracts (2)	Mol Biol Lab. Toruño
17:30-18:00	Closing remarks	Manuel Manchado

On thursday and friday (19 and 20th September), it will be hold the general assembly meeting according to the schedule approved by the executive committe. These sessions will be restricted to Algae4A&B partners.

El Puerto Santa Maria, Spain - 17-21th September 2018

Summer school organisation
Dr. Manuel Manchado – IFAPA
manuel.manchado@juntadeandalucia.es

Workshop venues
Centro IFAPA El Toruño
Access to the summer school is free of charge upon mandatory registration.

Registrations will be prioritized until completion of room (15 persons max), people involved in the project and those involved in aquaculture and fish biotechnology.

Talks will be available on
www.algae4ab.eu

Consortium



Project Coordinator
CNRS, CERMAV
France



Fitoplancton Marino, S.L.
Spain



Agricultural University Of Athens
Greece



Instituto Andaluz De
Investigacion y Formacion
Agraria Pesquera Alimentaria
Spain



Apivita SA
Greece



Centro De Ciencias Do Mar D
Algarve
Portugal



Lifesequencing, SL
Spain

The project

Microalgae were always an exciting target for Aquaculture, Cosmetology and Biotechnology, as they represent a largely untapped reservoir of novel and valuable bioactive compounds.

The ALGAE4A-B (Algae For Aquaculture and Beauty) project seeks to exploit microalgae diversity, as a source for state-of-the-art high-added-value biomolecules in aquaculture and cosmetics.

ALGAE4A-B aspires to foster both European capacity building and the strategic objectives of EU Blue Growth and Marine Biotechnology to harness the untapped potential of European seas and coasts for training and sustainable growth.

Microalgae Biomass Production

The diversification of microalgae biomass production towards two independent applications will give the microalgae industry access to alternative markets in an uncertain, highly competitive and fast changing commercial environment.

Basic and applied research

The project will combine both basic and applied multidisciplinary research in the fields of –omics technologies, biochemistry and applied biotechnology in order to:

- Develop and optimize low-input and application-based microalgae culture systems
- Develop “-omic” resources for both microalgae and fishes
- Develop downstream processing of high added value products from microalgae, with an emphasis on polysaccharides, proteins, enzymes and antioxidants
- Develop, formulate and evaluate in vitro a new range of cosmetic and nutraceutical products for aquaculture

Key figures

972 000 € EC funding
7 partners
4 years (2016-2019)

More information on www.algae4ab.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 691102.