



TITLE

Dietary effects of algae supplementation on Senegalese sole larvae resilience

Research Centre & Research Group

- Name of the hosting Research Centre: Centre of Marine Sciences of Algarve
Website: <https://www.ccmар.ualg.pt/>
- Name of the hosting Research Group: Aquaculture Research Group
Website: <https://www.ccmар.ualg.pt/en/group/aquaculture-research-group>
- General activities of the Research Group: Aquaculture Research on Nutrition and Reproduction
Number of staff / PhD: 12/10
- Supervisor name and contact:
Sofia Engrola
Email: sengrola@ualg.pt

TOPIC OF THE INTERSHIP

- Scientific context of the internship
The role of micro- and macroalgae on growth performance of Senegalese sole larvae
Nutrition is the most important environmental factor that determines the growth of animals. Despite its central importance, the mechanisms through which algae play in overall growth remain elusive in most animals. Several micro- and macroalgae species contain bioactive molecules that are associated with antioxidant, anti-inflammatory and antimicrobial properties. Therefore, a wide range of compounds are a potential feed additive to include in fish diets that may improve weight gain, feed efficiency, and robustness.

Keywords: Aquaculture, nutrition, growth, robustness

Bibliography

- Tasks and duties entrusted to the student:
To participate in the nutritional experiments on Senegalese sole larvae
Daily routines will include feeding the fish, abiotic parameters measurements (oxygen, temperature, salinity, pH, nitrogenous compounds, ...), cleaning the rearing tanks
Participating in the samplings, processing the samples (measurements of body weight, total length, ...)
To register the acquired data on file (excel)
- Skills to be acquired or developed:
Independence and initiative; Commitment, perseverance and adaptivity;
Development of knowledge and skills; Time management; Performance on research tasks



PROFILE OF THE DESIRED STUDENT

- Minimum level of study required: master level
- Field(s) of study: Biology, Aquaculture, Science
- Scientific skills: Knowledge of aquatic animal physiology (fish)
- Language skills required: English or Portuguese

THE INTERNSHIP ASSIGNMENT:

Desired duration of the internship (in months):

Desired Starting date of the mission: 60 days

Indicative weekly schedule: 35h / week

Remuneration: *Not available*

Erasmus grant: Application should be made by the student at the sending institution

Internship agreement: *an internship agreement will be signed.*

To SEA-EU students:

If you're interested please send your CV and letter of motivation to the scientist in charge, sengrola@ualg.pt.