



LISBON  
MICROALGAE  
BIOTECHNOLOGY  
1st ADVANCED  
COURSE  
November, 18th-22nd  
2013

A4F will be organizing a 1st Advanced Course in Microalgae Biotechnology in order to promote the development of microalgae as new crop. This course is intended for graduate students and scientists with some experience in the field. Leading experts in the field will lecture on relevant themes and A4F senior researchers will present the practical courses at A4F's GMO certified Lab and prototype photobioreactor complex in Lisbon.

The Programme of the course will include the following topics:

The importance of the growth medium in the cultivation of microalgae (Edgar Santos, A4F); Growth tools: estimation and productivity assessment (Liliana Rodolfi, UNIFI, Italy); Growth curve determination, calculation of the duplication time and growth rate; Correlation between cellular counts and optical density (Luis Costa, Edgar Santos and Joana Silva, A4F); Genetic tools and microalgae (special attention to the detection of contaminants) (Saul Purton, UCL, UK); Extraction and further amplification of 16S RNA from microalgae samples (Joana Silva, A4F). Culturing technologies (Natascia Biondi, UNIFI, Italy); UNIFI unique experience in this field will be discussed.; Contaminated cultures and productivity: *Haematococcus* as a case study (Sammy Boussiba, BGU, Israel); Microscopic observation of several contaminants frequently found in microalgae ecosystems (Luis Costa, Edgar Santos and Joana Silva, A4F). Harvesting and processing of microalgae biomass (Luis Costa, A4F and Alberto Reis, LNEG, Lisbon).

**Deadline for Applications is the 8th of October.** Selected participant will be notified until the 14th of October.

The course will have a maximum of 20 participants selected according to their CV and motivation letter. Additional information about the course is available to all applicants upon request to Joana Silva.



Applications should be sent to [joana.silva@algafuel.pt](mailto:joana.silva@algafuel.pt). Registration is €850 and includes coffee breaks, lunches, social event, typical Portuguese dinner and all course supplies.

Sponsored by the International Society of Applied Phycology (ISAP) and BIOFAT program – Biofuels From Algae Technologies.

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