

Microalgae in the European Atlantic Area in 2019: A bibliometric analysis of research topics and industrial opportunities

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Although microalgae comprise an estimated number of 30,000 to 1,000,000 species, few are grown commercially. This natural resource offers great industrial potential, exploiting its chemical composition or biotechnological potential through growth manipulations. At the same time, this complexity can overwhelm enterprises entering this sector due to the great number of variables affecting economic and environmental viability. The strategic objective of the INTERREG Atlantic Area EnhanceMicroAlgae project EAPA_338/2016 (2017-2020) is to create a network of European scientific and industrial partners to stimulate innovation and competitiveness of the European Atlantic Area in high technology sectors related to microalgae (in particular pharma, food, and nutraceuticals). In this poster, we will present an in-depth analysis of the existing Atlantic Area microalgae sector based on a bibliometric analysis of scientific publications and patents, the results of a survey sent to European experts and the conclusions of a workshop organized with experts in December 2018. Our data highlight the major research topics, collaboration networks, innovations and emerging markets in the

European Atlantic area. We also identified gaps and barriers limiting the development of the microalgae sector from a scientific, technological and legislative view.

Biography: Judith Rumin is a Postdoc in Biochemistry at UMRi CNRS 7266 LIENSs in La Rochelle University, France. She holds a Ph.D in Marine Plant Biotechnology and a Master in Marine Sciences from the European University Institute in Plouzane, France. She is currently involved in the scientific management of the INTERREG Atlantic Area European programme EnhanceMicroAlgae project EAPA_338/2016 for La Rochelle University. She has expertise with biochemistry, culture, selection, and genomics of microalgae, metabolic networks, and lipidomic approaches. Together with Dr. Laurent Picot, she is in charge of work package of the project, that aims to identify scientific, technological, legislative and social barriers limiting the industrial development of the microalgae sector as well as opportunities for the microalgae sector development in the European Atlantic Area.

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