

OBTENÇÃO DE BIOMASSA MICROALGAL TOLERANTE A HERBICIDAS PARA PRODUÇÃO DE BIOFERTILIZANTE: UMA REVISÃO BASEADA NA METODOLOGIA *METHODI ORDINATIO*

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ABSTRACT

The increasing growth in scientific publications makes researching more extensive in relation to the selection of papers to support the writing, which is time-consuming and requires criteria to effectively list the most important references. Microalgae have been studied by researchers in several technological fields in the development of products, because they have easy physiological adaptability, high productivity in biomass and low cost of cultivation. Among the applications of microalgae, it is mentioned in this work the production of biofertilizers which soften the effects caused by chemical agents to plants and the environment, aiming at the production of organic food, one of the great current challenges. The objective of this work is to use a systematic review of the literature on the cultivation of herbicide resistant microalgae using *Methodi Ordinatio*, which assists the search, selection, collection and classification of scientific articles. Initially, research was done on the databases Scopus, Science direct and Web of Science, using the keywords microalgae and herbicide. The results were imported to the Mendeley bibliographic reference manager. Subsequently, the *In Ordinatio* index was applied, an equation that works with the three most important factors in a scientific article: the impact factor, the year of publication and the number of citations of the research. This equation turns it is possible to classify the most important articles in the area of herbicide-tolerant microalgae and note the importance of this method, which made it possible to find current studies and demonstrate the relevance of this research theme. In order to show the dynamics of the methodology, a research with the theme is presented, comprising works from years 2008 to 2018. The results indicate that the methodology is effective in relation to the objectives proposed, and the most relevant work on the cultivation of herbicide resistant microalgae are used to construct the scenario in this theme.

Keywords: *Herbicides, In Ordinatio, microalgae, Systematic literature review*