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PHD PROJECT TITLE:

Use of agro-industrials wastewater to increase the yields in *Spirulina platensis* of antioxidants and anti-inflammatory molecules with anti-aging properties

RESEARCH SUMMARY:

Oxidative stress and dysfunctional immunity cause many diseases in humans, including atherosclerosis, cardiac hypertrophy, heart failure, and hypertension. Thus, the antioxidant, immunomodulatory, and anti-inflammatory activities of microalgae may play an important role in human health. Therefore the aim of this research is to investigate the possibility of producing antioxidants and anti-inflammatory molecules with anti-aging properties by the cultivation of *Spirulina platensis* in a mixotrophic way using as culture medium a wastewater obtained from an agro-industrial activity (dairy, brewery).

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