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Food scientists hacked AMD ventilator and converted it into agitator for airlift bioreactor

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In recent years, a couple of bioreactor modifications have been developed and successfully adopted for the in vitro cultivation of plant cells and microorganisms. Bioreactors such as mechanically agitated, airlift and photo-bioreactors have been designed and used for large scale cultivation of algal, higher fungal and bioactive compounds. The primary objective of this study was to build and design a cost effective and eco-friendly airlift bioreactor in which the agitation rate (e.g., 150 rpm) will be controlled through computer software. Without affecting the personal computer performance (Temperature, graphics), we have designed the first computer in the world that is be able to do more than a simple computer can do and that is fermentation. Our computer tower case is designed with Plexiglas that can be broken down into its original chemical constituents or directly and completely recycled.

Biography

Aris Miron is an Undergraduate student in Department of Food Science and Technology of Technological Educational Institute of Thessaly, Greece. He is the primary Inventors and Supervisors of this project.

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