## Biotech for Animals Latin American Microalgal Biorefinery Technology Market Trends & Opportunities

## **David Henry\***

Department of Biotechnology, University of Brasilia, Brazil

## **Abstract**

**Keywords:** Biomaterials; Biomimicry; Nanomedicine; Nanotechnology ature; Tissue engineering

## Introduction

Biotechnology penetration in multiple productive activities is generating a signi cant impact on new areas of exchange at scienti c, technological, productive and social levels. us, in uencing minimum knowledge thresholds, technical and productive facilities, intellectual property rights, activities developed in "downstream" production activities, and on the control of complementary assets, which generate new areas of exchange favoring creation for potential markets, making it feasible to yield additional pro ts. So, building capacities and infrastructure for biotechnology is seen as a key factor for economic

research programs and projects, and the National Biotechnology Commissions created. Such commissions -formed in 1982, 1984, and 1996- were intended to advise the government in o ce on scienti c and technological policies related to the biotechnology sector, particularly in the agriculture, industrial, biomedicine, oil and environmental elds. Even though never deemed as a national priority, the life of such commissions has always been quite short and with a secondary in uence on public policies. In 1982, the National Council for Scienti c and Technological Research (Consejo Nacional de Investigaciones Cientí cas y Tecnológicas2 - CONICIT) set an Ad-Hoc Commission for the "Study of Biotechnology and Alternatives for its Development in Venezuela". is group identi ed several initiatives for de ning national programs related to biotechnology, which would be accompanied by the creation of the relevant advising commission. Here we must point out that one of the recommendations issued was to create a National Biotechnology System. e National Commission for Genetic Engineering and Biotechnology (CNIGB) was created in 1984, which deemed as important those remarks and suggestions made by the commission in 1982. By this time, priority areas for research and development were proposed, including: agriculture, biomedicine and industry; also considering creating a system intended to enable the

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