

**Republic of the Philippines
HOUSE OF REPRESENTATIVES
Quezon City**

**FIFTEENTH CONGRESS
First Regular Session**

House Bill No. 1810

**Introduced by Representatives
DIOSDADO MACAPAGAL ARROYO and GLORIA MACAPAGAL ARROYO**

**AN ACT
PROMOTING THE GROWTH OF A BIOTECHNOLOGY
INDUSTRY IN THE PHILIPPINES AND FOR OTHER PURPOSES**

EXPLANATORY NOTE

The last decades of the 20th century saw rapid advances in our knowledge and understanding of biotechnology. This, in turn, led to the development of novel products such as safer, more effective pharmaceuticals, less capital-intensive crops and less polluting industrial and agricultural production systems. With growing concerns about climate change, non-renewable energy sources, dwindling fresh water supply, increasing population and environmental protection, biotechnology has become an important component in scientific research and technology.

As early as 1979, the Philippine government has invested in biotechnology with the establishment of the National Institute of Biotechnology and Microbiology (BIOTECH), now known as the National Institute of Molecular Biology and Biotechnology, at UP Los Baños. This institute has been replicated in four other campuses of the University of the Philippines System. In the mid-1980s, the Department of Science and Technology identified biotechnology as a priority investment area and developed the UPLB science park for business incubation. The Department of Agriculture two years ago organized its leading research centers - Philippine Rice Research Institute, Philippine Carabao Center, and National Fisheries Research Institute into a network of biotechnology research centers for crops, livestock and aquatic resources, respectively. Still these investments have not sufficiently fostered the growth of a biotechnology industry as what was previously envisioned BIOTECH was initially set up.

Countries like the United States, Canada, Australia, several European Union members, as well as Singapore, Malaysia, China, India and Taiwan, have all put in place a policy environment that encourages bio-industry development. These policies include support for high quality research, incentives to rapidly develop research results into marketable products/services, support for start-up companies, and other incentives for industry to develop/adopt new technologies. Large and competitive grants are provided for high quality research work in research institutions. Huge grants are also provided for industry-public collaborations to fast-track technology development. Guarantee funds for venture capital investing in biotechnology have also been provided.

In view of these, there is a need in the Philippines to put in place the appropriate policy environment to promote bio-industry development. Biodiversity which is our greatest resource, remains untapped. While we continue to train scientists, lack of local employment lead them either to other occupations or to foreign shores. The cumbersome government accounting and auditing procedures often results in poor fund utilization in public research institutions and stifles scientific creativity. Industry-academe collaborations in technology development are scarce. Many policies encourage individual rather than multidisciplinary achievements, yet biotechnology requires a multidisciplinary approach. Government funds for research cannot be committed for terms longer than one year yet technology and product development may take years. Venture capital for biotechnology is virtually non-existent. The present bio-prospecting policy is biased against a Filipino start-up and favors well-capitalized foreign companies. Many scientists are not familiar with intellectual property rights protection. Although biotechnology investment is highly profitable, it is also very risky with a long gestation period, hence, private sector investments in biotechnology R&D is low.

The proposed legislation intends to address the weaknesses of our system to enable the country to develop a biotechnology-based industry. The private sector is given incentives to invest in biotechnology R&D by allowing the total R&D cost and prices of shares of stocks in biotech companies as tax deductible. Majority of the government's investments in biotechnology R&D is awarded through a government corporation so as to lessen the burden of an unwieldy accounting and auditing system.

Due to the aforementioned reasons cited above, the expeditious passage of this bill is earnestly requested.


DIOSDADO MACAPAGAL ARROYO
Second District, Camarines Sur


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Second District, Pampanga

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*Be it enacted by the Senate and the House of Representatives of the
Philippines in Congress assembled:*

CHAPTER I
TITLE, DECLARATION OF POLICY AND OBJECTIVES

SECTION 1. *Short Title.* – This Act shall be known as the “Bio-Industry Development Act of 2010.”

SECTION 2. *Declaration of Policy.* – It is hereby declared to be the policy of the State to fully recognize the special role of biotechnology plays as a tool in the creation of wealth from human capital and biodiversity.

SECTION 3. *Objective.* – The Act aims to put in place a policy environment for the continuing generation and application of biological knowledge and promotion of the sustainable growth of a biotechnology-based industry.

SECTION 4. *Definition of Terms.* – As used in this Act, the following terms shall be construed to mean as follows:

(a) **"Biodiversity"** refers to the variability among living organisms from all sources, including, terrestrial, marine, and other aquatic ecosystems, and the ecological complexes of which they are part, such as diversity within species, between species and of ecosystems;

(b) **"Bio-industry"** or **"biotechnology-based industry"** consists of companies involved in research, development, manufacture and sale of materials such as cell cultures, catalysts, genetic materials, immune response materials, bio-chemicals, enzymes, proteins, bioactive molecules, genetically engineered organisms, and equipment specifically used in biological and genetic research. It also includes service organizations performing consulting, testing, processing, and storage of such products;

(c) **"Biotechnology"** refers to a set of tools and procedures involving living organisms or parts thereof that produces a product or service;

(d) **"Start-up"** refers to a newly established biotech company for profit.

CHAPTER II THE PHILIPPINE BIO-INDUSTRY R&D CENTER

SECTION 5. *The Philippine Bio-industry Research and Development Center.* – To ensure the continued availability of suitable yet innovative and competitive bio-based technologies, a Philippine Bio-industry Research and Development (R&D) Center (hereafter the "Center") is hereby established.

SECTION 6. *Functions of the Center.* – The Center shall be charged with the following functions:

(a) Develop and market competitive, biologically-based technologies and products;

(b) Harness Philippine biodiversity in developing competitive products for the world market;

(c) Conduct contract research and provide technical services to the public;

(d) Manage a Biotechnology Research Fund that will support off-Center research and development relevant to its

corporate objectives as well as support a research fellowship and training program;

(e) Establish state of the art facilities for research and study.

SECTION 7. *Powers of the Center.* – To enable the Center to carry out its functions, it shall have the following powers:

(a) To own, hold, plan and construct buildings and other facilities as may be necessary or proper to attain its purposes and objectives;

(b) To enter into, make and execute contracts and agreements of any kind or nature that are in furtherance of its purposes;

(c) To borrow money and obtain loans from all sources, whether local or foreign and whether government or private, in order to finance its research programs and its capital and operating expenditures;

(d) To invest in, purchase or otherwise acquire, own, hold, use, lease, mortgage, pledge, encumber, sell, assign, convey, exchange, or otherwise deal in real and/or personal properties of whatever kind and nature, or any interest therein, including shares of stock, bonds, notes, securities and other evidences of indebtedness of natural or juridical persons, whether domestic or foreign and whether government or private;

(e) To conduct bio-prospecting activities: *Provided*, That in conducting these activities, it shall be exempted from the fees and requirements of Republic Act No. 9147, otherwise known as The Wildlife Resources Conservation and Protection Act;

(f) To acquire or obtain from any governmental authority, whether national or local, foreign or domestic, or from any person, corporation, partnership, association or other entity, such charters, franchises, licenses, rights, privileges, assistance, financial or otherwise, and concessions as are conducive to and necessary or proper for the attainment of its purposes and objectives;

(g) To receive and acquire from any person, government and other private entity, whether foreign or domestic, grants, donations and contributions consisting of such properties, real or personal, including funds and valuable effects or things, as may be

useful, necessary or proper to carry out its purposes and objectives and to administer the same in accordance with the terms of such grants, donations and contributions, consistent with its purposes and objectives;

(h) To exercise all the powers of a corporation under the general corporation law, insofar as such powers are not inconsistent with the provisions of this Act; and

(i) To exercise such other powers and functions and perform such other acts as may be necessary, proper or incidental to the attainment of its purpose and objectives.

SECTION 8. *Composition of the Board of Directors.* – The Center shall have a corporate structure and be governed by a Board of Directors (hereafter the “Board”) composed of:

(a) The Secretary of the Department of Trade and Industry (DTI) as the *ex-officio* Chairperson;

(b) The President of the Center;

(c) Three (3) business leaders;

(d) Two (2) respected scientists, in any one the relevant fields of molecular biology, biotechnology, genetics, biochemistry, chemistry or chemical/bioprocess engineering.

The members of the Board shall be selected by the Chairperson based on a set of criteria to be determined and from nominations submitted by the Biotechnology Coalition of the Philippines (BCP), Chamber of Herbal Industries of the Philippines, Inc. (CHIPI), and Philippine Food Processors and Exporters Organization Inc. (PhilFoodex). The members of the Board shall serve for a period of one (1) year unless re-appointed by the Chairperson.

SECTION 9. *Functions of the Board of Directors.* – The Board shall exercise the following powers and functions:

(a) To define and approve the programs, plans, policies, procedures and guidelines for the Center in accordance with its purposes and objectives, and to control the management, operation and administration of the Center;

(b) To approve the Center’s organizational structure, staffing pattern, operating and capital expenditure, and financial

budgets, prepared in accordance with the corporate plan of the Center;

(c) To approve salary ranges, benefits, privileges, bonuses, and other terms and conditions of service for all officers and employees of the Institute, upon recommendation of the President of the Center;

(d) To appoint, transfer, promote, suspend, remove or otherwise discipline any subordinate officer or employee of the Center, upon recommendation of the President of the Center;

(e) To create such committee or committees and appoint the members thereof, as may be necessary or proper for the management of the Center or for the attainment of its purposes and objectives;

(f) To determine the research priorities of the Center consistent with the framework of its purposes and objectives; and

(g) To exercise such other powers and functions and perform such other acts as may be necessary or proper for the attainment of the purposes and objectives of the Institute.

SECTION 10. *President and Other Officers.* – The Center shall be headed by a President who shall be appointed by the Board. He/she shall serve at the pleasure of the Board of Directors. The President shall be assisted by a Vice President and such other Program Managers as the Board may determine to carry out the purposes and objectives of the Center.

SECTION 11. *Powers, Functions and Duties of the President.* – The President shall be directly responsible to the Board, and shall have the following powers, functions and duties:

(a) To exercise over-all supervision and direction over the implementation of all research, development and marketing programs of the Center, and in general, to supervise and direct the management, operation and administration of the Center;

(b) To draft a program of operation for the implementation of all activities necessary to attain the objectives of the Center subject to the approval of the Board;

(c) To execute contracts, incur obligations, acquire and dispose of assets and deliver documents on behalf of the Center within the limits of the authority delegated to him by the Board;

(d) To implement and enforce policies, decisions, orders, rules and regulations adopted by the Board; and

(e) To exercise such other powers and functions and perform such other duties as may be authorized or assigned by the Board.

SECTION 12. *Ownership of the Center.* – The Center shall exist as a government-owned and controlled corporation for a maximum period of ten (10) years from the effectivity of this Act, after which time it shall be sold off to the private sector: *Provided, however,* That in the event the Center becomes profitable earlier than the ten (10) year period provided, it shall be sold off to the private sector despite the period not having lapsed.

SECTION 13. *Scientific Manpower.* – To enable the Center to retain its scientific staff, it shall offer salaries at rates competitive with other countries. Upon the privatization of the Center, fifteen percent (15%) of the shares shall be awarded to the scientific staff that has been with the Center for at least five (5) years and has produced at least one patented technology or eight (8) articles published in scientific journals cited in the Institute for Scientific Information (ISI) Journal Citation Report.

SECTION 14. *Initial Operations.* – The BCP is hereby designated to draft a Program of Operations for the Center. The Secretary of the DTI is hereby authorized to provide a grant of Three Million Pesos (P3,000,000.00) to enable the BCP to carry out this function.

SECTION 15. *Funding.* – The amount of Five Hundred Million Pesos (P500,000,000.00) shall be released to cover the operation of the Center for ten (10) years.

CHAPTER III THE BIOTECHNOLOGY GUARANTEE FUND

SECTION 16. *The Biotechnology Guarantee Fund.* – A Biotechnology Guarantee Fund in the amount of Five Hundred Million Pesos (P500,000,000.00) is hereby established to provide guarantee for venture capital invested in biotechnology companies.

CHAPTER IV

INCENTIVES FOR BIOTECH COMPANIES AND COMPANY START-UPS

SECTION 17. A biotech company shall, for a period of five (5) years from the time it is subject to corporate income tax, deduct the funds expended in R&D within the country from its taxable income. Biotech companies can also avail of the incentives granted to companies registered as Barangay Micro Business Enterprises (BMBEs) in accordance with Republic Act No. 9178; or registered with the Philippine Economic Zone Authority (PEZA) in accordance with Republic Act No. 7916 or Board of Investments (BOI) in accordance with Executive Order No. 226, otherwise known as the Omnibus Investments Code of 1987, as amended. After the income tax holidays provided by such instruments have expired, the R&D expenditures of the biotech companies can then be used as tax deduction.

SECTION 18. A biotech company shall be allowed to purchase equipment, materials and articles abroad, as may be necessary or proper to carry out its powers and functions and attain its purposes and objectives, and shall be exempt from the payment of any and all forms of taxes, duties, fees and charges imposed by any governmental authority, whether national or local, on any and all such importation of equipment, materials, articles and services: *Provided however*, that the same are not available locally on favorable terms.

SECTION 19. Shareholders of new locally-based biotechnology companies shall be able to claim as tax credit the amount paid for the shares in the same taxable year.

SECTION 20. Scientists in public institutions are hereby allowed up to five (5) years leave of absence to establish a biotech start-up based on technologies they themselves developed.

SECTION 21. In order to encourage top executives and technology investors to participate in the operation of biotech companies and R&D activities and to share their achievements, new shares issued by a biotech company to top executives and technology investors (in return for their knowledge and technology) shall be excluded from the amount of their consolidated income or corporate income of the current year for taxation purposes: *Provided, however*, That if the title to the aforesaid shares is transferred with or without consideration, or distributed as estate, the total purchase price or the market value of the shares at the time of transfer as a gift or distribution as estate shall be deemed income generated in that taxable year and such income less the acquisition cost shall be reported in the relevant income tax return.

SECTION 22. Subject to the approval of the Department of Agriculture, the Agricultural Competitiveness Enhancement Fund can be used as financial grants

for technology start-ups with agriculture- and aquaculture-related products and services for seed capital and for subsequent expansion.

CHAPTER V MISCELLANEOUS PROVISIONS

SECTION 23. *Repealing Clause.* – The pertinent provisions of Republic Act No. 9147, otherwise known as The Wildlife Resources Conservation and Protection Act; and all other laws, presidential decrees or issuances, executive orders, presidential proclamations, rules and regulations or parts thereof inconsistent with the provisions of this Act, are hereby repealed, modified or amended accordingly.

SECTION 24. *Separability Clause.* – If any provision of this Act is declared unconstitutional, the same shall not affect the validity and effectivity of the other provisions hereof.

SECTION 25. *Effectivity Clause.* – This Act shall take effect fifteen (15) days after its publication in at least two (2) newspapers of general circulation.

Approved,