

NATIONAL RESEARCH COUNCIL OF THE PHILIPPINES

CY 2014

Major Programs and Projects Categorized in Accordance with the Five Key Results Areas Under E.O. No. 43, s. 2011

Item No.	Project Title	Brief Description/Objectives	Beneficiaries	Implementing Agency	Project Duration		Actual CY 2014 Budget Released	Status	KRA
					Start	End			
1	Genomic Surveillance and Intervention on Dengue Virus by <u>Dr. Francisco M. Heralde</u> , UP Manila	Website on Genomic Surveillance of Dengue Virus, developed and accessible online; Involvement in the pilot-testing of dengue teaching materials; Assistance to student researchers	General public (Filipino people)	UP Manila	16-Apr-12	15-Apr-15	744,746.25	Ongoing	Integrity of the environment and climate change adaptation and mitigation
2	Development of Sterile Insect Technique for Dengue Mosquito Vector, <i>Aedes aegypti</i> using Gamma Irradiation by <u>Glenda B. Obra</u> and <u>Sotero S. Resilva</u> , DOST-PNRI	First trial, pupae consisting of both males and females were irradiated. Sterility study showed that irradiation of pupae at 25 Gy did not prevent adult female mosquitoes in laying eggs. Complete sterility was observed from female irradiated with 50Gy dose	Communities in urban and suburban areas, health sector, researchers	DOST-Philippine Nuclear Research Institute (PNRI)	1-May-12	30-Apr-14	761,025.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation
3	Socioeconomics of Dengue by <u>Dr. Judilynn N. Solidum</u> , UP Manila	To assess the gaps in the management of programs against dengue in the Philippines. Specifically, to (1) identify the level of knowledge, attitudes and practices of chosen communities to dengue	General public	UP Manila	16-Apr-12	15-Apr-12	744,746.25	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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4	Laboratory and Field Evaluations of Water Bug, <i>Diplonychus rusticus</i> (Hemiptera: Belostomatidae) for the Control of Dengue Mosquito, <i>Aedes aegypti</i> (Diptera: Culicidae) by <u>Dr. Pio A. Javier</u> , UPLB	This new study is envisioned to document the voracity of the predator on different larval instar of dengue mosquito wrigglers, mass produce the predator in the laboratory and develop release strategies to efficiently reduce the population of wrigglers in the field. It is hoped that the project could significantly contribute in reducing dengue infection throughout the Philippines. The following are the specific objectives of the project: (1) To study the biology and behavior of water bug, <i>Diplonychus rusticus</i> , (2) To establish the functional response of the different stages of water bug on the different larval instars of <i>A. aegypti</i> , (3) To develop efficient mass rearing technique for water bug, (4) To develop release strategies for efficient control of dengue mosquito, and (5) To evaluate the effectiveness of the water bug in dengue hot spot areas in Quezon City.	Filipinos living in dengue infection- prone areas	UP at Los Baños	1-May-12	30-Apr-14	594,616.25	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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5	Extraction, Characterization and Bio-Assay for Larvicidal Activity of Some Philippine Medicinal Plants by <u>Dr. Rosalinda C. Torres</u> , DOST-ITDI	(1) To undertake crude extraction and extract essential oils from some Philippine medicinal plants; (2) To determine the larvicidal activity of the crude extracts and essential oils; (3) To undertake phytochemical screening of the crude extract; (4) To conduct polarity-based fractionation of the crude extracts and determine larvicidal efficacy of the fractions; (5) To isolate and characterize further the most active fraction of the plant which exhibited the most significant activity; (6) To analyze the essential oils for physico-chemical properties and chemical composition by chromatographic methods; (7) To develop larvicidal product(s) that can be field tested on a wider scale; (8) To conduct product analysis and shelf-life/stability testing; (9) To conduct field trial testing of the products.	General public	DOST- Industrial Technology Development Institute (ITDI)	16-Apr-12	15-Apr-14	709,571.00	Ongoing	Rapid, inclusive, and sustained economic growth

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6	Standardized anti-hyperuricemic product(s) from Philippine Plants by <u>Dr. Christine C. Hernandez</u> , UP Diliman	Current researches are geared towards discovery of drugs with favorable toxicology profile, high bioavailability, and more potent and longer-lasting hypouricemic action than allopurinol. In the previous project funded by NRCP, isolation and identification of a novel xanthine oxidase inhibitors from <i>A. leptopus</i> and partially purify an isolate from <i>M. pudica</i> , both of which exhibited promising inhibitory action. In this project, with respect to <i>M. pudica</i> , will aim to 1) purify further the isolate, 2) determine the structure, and 3) confirm its xanthine oxidase inhibitory action. After which, will determine the hypouricemic activity of <i>M. pudica</i> and <i>A. leptopus</i> extracts and pure isolates in vivo using potassium-oxonate pretreated mice. Toxicity and mutagenicity effects using vitro assays will also be conducted to establish the extracts and isolates safety. Finally pure isolates will be used as biomarker in standardizing the plant extracts.	Pharmaceutical industry, people suffering from gout, arthritis	UP Diliman	1-Jun-13	31-May-14	558,665.95	Ongoing	Rapid and Sustained Economic Growth
7	Quantitative and Qualitative Analyses of the Bacterial Microbiota of Tilapia ( <i>Oreochromis niloticus</i> ) Cultured in Earthen Ponds as Tool for Investigating Emerging and Re-emerging Diseases of Tilapia on the Philippines <u>Dr. Rolando V. Pakingking, Jr.</u> , SEAFDEC	This study aims to address the current problem that besets the Philippine tilapia industry particularly in Negros Occidental where intensive culture of tilapia has been recently instituted. To acquire quantitative and qualitative baseline information on bacteria problem of tilapia as springboard in formulation, pragmatic prevention and control strategies that will make Philippine tilapia industry in Negros Occidental, sustainable.	Fisherfolk, Philippine tilapia industry, tilapia consumers	Southeast Asian Fisheries Development Center (SEAFDEC)	15-Mar-13	14-Mar-15	761,083.88	Ongoing	Rapid and Sustained Economic Growth

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8	Digitization of Endangered Musical Collection by Dr. Ramon P. Santos, (UP Diliman)	The general objective of the study is to contribute to the growing interest in ethnomusicology, musicology and cultural resources management by making endangered musical collection available through accessible channels while upholding utmost protection to the corpus and integrity of the original research documents from and of musicologists and musicians. Specifically the study wishes to: 1) Convert analogue music materials from UPCE collection and other depositions that will result to at least 5,000 digitized records (audio, photo, notes an/or scores) and 2) improve the digitization protocol to be able to accommodate collections that are not originally from UPCE collection, hence was a product of different recording protocol.	Researchers in humanities, ethnomusicologist, musicologist, musicians	UP Diliman	28-May-13	27-May-15	750,000.00	Ongoing	Transparent, accountable, and participatory governance
9	Binding Studies and Characterization of Tetracycline-Imprinted Polymer Sensing Layer for a Chemical Sensor Based on Piezoelectric Quartz Crystal by Dr. Benilda S. Ebarvia	The project will entail the development of a chemical sensor for tetracycline based on the integration of a piezoelectric quartz crystal transducer and a selective polymer sensing layer prepared using molecular imprinting technology. The proposed chemical sensor could provide a relatively less expensive, very sensitive and highly selective sensor for determining residual tetracycline in foods and related food products.	Government regulatory agencies, exporters and importers of foods and related products of animal origin, and animal feeds, pharmaceutical companies, standard and testing division of ITDI and researchers	DOST-ITDI	11-Nov-12	11-Nov-14	384,000.00	Ongoing	Rapid and Sustained Economic Growth
10	Isolation, Purification and Characterization of Asian Corn Borer [ <i>Ostrinia furnacalis</i> (Guenee)] Larval Chitinase by Dr. Mary Ann O. Torio	The project proposal is a new idea of the researcher in identifying new compounds that will inhibit chitinase activity in ACB, thus, will provide new knowledge and technologies on how to prevent damage caused by ACB.	Researchers in this area of study, corn farmers	UPLB	30-Jan-13	29-Jan-15	558,200.25	Ongoing	Rapid and Sustained Economic Growth

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11	Optimizing the Contributions of Science and Technology to Poverty Alleviation and Inclusive Growth Through Collaborative Governance by Dr. Edna Estifania A. Co	The study will reveal further problems and constraints in the country's S&T environment and provide long-term solutions geared towards knowledge and innovations that would improve our human resources and socioeconomic conditions, and create development perspectives on the lives of Filipinos. It will also be instrumental in shaping the legal and policy environment needed to support S&T development in the interest of inclusive growth and poverty reduction in the country.	S&T Community, policy makers	UP Diliman	17-Oct-12	16-Oct-14	750,000.00	Ongoing	Rapid and Sustained Economic Growth
12	Biological Control of the broad mite, <i>Polyphagotarsonemus latus</i> (Banks) by the predatory phytoseiid mite <i>Paraphytoseius orientalis</i> (Narayanan), submitted by Ms. Marcela Navasero, UPLB	The goal of the project is to generate basic biological foundation for IPM research on the broad mite pest <i>P. latus</i> by the predatory phytoseiid, <i>P. orientalis</i> on solanaceous crops and strawberry.	Researches and students in entomology and agriculture	UPLB	1-Feb-13	31-Jan-15	533,871.88	Ongoing	Rapid and Sustained Economic Growth
13	Diversity and ecology of Acanthocephalan parasites freshwater fishes from the seven lakes of San Pablo City, Philippines and their potential as bioindicators of heavy metal pollution BY Dr. Vachel Gay V. Paller, UPLB	It aims to update the list of acanthocephalan fauna of the Philippine freshwater fishes and to generate baseline information on their ecology and potential use as bioindicator of heavy metal pollution in aquatic ecosystems.	Consumers, general public	UPLB	1-Feb-13	31-Jan-15	431,231.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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14	Understorey and Ground-Dwelling Spider Diversity of Philippine Forest Ecosystem by Dr. Aimee Lynn Barrion-Dupo	With conservation efforts gearing toward the preservation of the country's forest ecosystems, a comprehensive faunistic work on these little known spiders has to be done. Without this kind of basic research, conservation efforts will be futile as it would be hard to protect an area whose biotic components are unknown. Accurate taxonomic information which will serve as the groundwork for further biological studies and enable future investigations into the sustainable use of resources without destroying biodiversity will be provided through this study. Also, the role which these spiders play to maintain balance in the forest ecosystem is important though completely ignored in diversity studies involving the larger and more charismatic animal groups.	Students, researchers, UPLB Museum of natural History and National Museum, quarantine agencies.	UPLB	27-Nov-12	26-Nov-14	530,834.68	Ongoing	Rapid and Sustained Economic Growth
15	Vegetation analysis of areas affected by mine tailings in Benguet and vicinity, submitted by Dr. Virginia C. Cuevas, UPLB	It is important that we study the vegetation present in the areas affected with mine tailings. The succession process occurring in the mined sites are important in understanding how the study in the area as well as other mined sites can be rehabilitated. Conversely, identifying and studying the plant species present in the area and how these contribute to the succession process is important to establish baseline information.	Mine tailing affected areas, mining industry, policy makers, researchers, communities, families living in mining areas	UP at Los Baños	1-Feb-13	31-Jan-15	522,739.70	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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16	The Manning Productivity Gain Cycle and Emerging Industries in the Philippines by Dr. Angelica Baylon	Will develop a productivity gain framework after having identified the various Philippine developmental goals related to the study and having appraised the behavior of the ship-manning industry in the Philippines to come up with analysis of the impact of the manning industry behavior on the country's economic development.	Manning agencies, industry associations and business formations, seafarers, government and private institutions interested in the affairs of the manning industry in the Philippines.	MAAP	16-Apr-14	15-Apr-15	500,000.00	New	Rapid and Sustained Economic Growth
17	Clarifying Quality of Life in the Age of ICT by Dr. Maria Cecilia Gastardo-Conaco	This study will explore the ICT - quality of life and equity link in the hopes of improving, in the long-term, the conditions of life in our society via technology. It may be viewed as a support for the Smarter Philippines program of DOST which is aimed to provide inclusive growth & development for the Philippines and thus enhance the quality of life of the citizens.	LGUs, NGOs, policymakers, researchers	UP Diliman	14-Mar-14	13-Mar-15	750,000.00	New	Rapid and Sustained Economic Growth
18	<i>Euphorbia tithymaloides</i> : Propagation in mined areas and utilization of the plant's extract as wood preservative by Dr. Erlinda L. Mari	The project intends to propagate the plant species <i>Euphorbia tithymaloides</i> ( <i>E. tithymaloides</i> ) to revegetate and rehabilitate an abandoned mine site. The plant's extract shall then be analyzed and used in controlling wood decay organisms (termites and fungi).	Foresters, farmers, researchers	DOST-FPRDI	24-Mar-14	23-Mar-16	698,200.00	New	Integrity of the environment and climate change adaptation and mitigation

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19	Haloacetic Acids and Its Formation in Bromide- and Chloride-Rich Water Systems by Dr. Maria Pythias B. Espino	This project aims to develop, optimize and validate analytical methodologies for establishing the occurrence, levels and formation of haloacetic acids, chlorides and bromides in the local drinking water supplies. The findings of this project will be useful to water providers and relevant government agencies in developing measures to prevent, if not eliminate, the formation of harmful disinfection by-products in drinking water and ensure safe potable water for human consumption.	Water providers and relevant government agencies and the general public	UP Diliman	24-Mar-14	23-Mar-15	598,398.00	New	Rapid and Sustained Economic Growth
20	Evaluation of Feral Fish Biomarkers for Monitoring of Estrogen Pollution of Laguna de Bay by Dr. Michelle Grace V. Paraso	The information that will be gained in this project will be of help in determining the applicability and sensitivity of the measured biomarkers for the determination of domestic and livestock effluent contamination of freshwater resources by local environmental monitoring programs. A technical bulletin that aims to target a variety of readers will be developed for dissemination of the information on the utility of these biomarkers as well as the protocol used. A potential offshoot of this project is the development of an ELISA kit that can be used locally for vitellogenin analysis.	General public, environment monitoring and conservation agencies, and scientists, students and the academe.	UPLB	24-Mar-14	23-Mar-15	803,145.00	New	Integrity of the environment and climate change adaptation and mitigation

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21	Investigation of the Terahertz Radiation Mechanism in Gallium-Arsenide on Si Substance by Dr. Elmer Estacio	The integration of gallium arsenide (GaAs) and silicon (Si) remains an interest in the semiconductor industry because the superior optoelectronic properties of GaAs and the mature Si technology will result to lower production cost for high speed electronics and optical communications. In terahertz (THz) research, GaAs and Si have already earned their individual merit. GaAs has found its application as photoconductive antenna and surface emitter. On the other hand, Si which is transparent to THz is commonly used as substrate lens. Due to their individual properties, combining these two materials will therefore present unique material characteristics that we can exploit for THz applications.	This research will directly benefit the CMPL, upgrade our current THz-TDS setup to be azimuth ready, can be used later on as a reference for the use of GaAs on Si for THz applications.	UP Diliman	17-Feb-14	16-Feb-15	597,696	New	Rapid and Sustained Economic Growth
22	Investigation of Properties and Applications of Silicon Nanowires Fabricated Via Silver Assisted Electroless Etching by Dr. Armando Somintac	Due to its abundance, silicon (Si) has established itself as a very important component of the semiconductor industry due to its availability to a wide range of device applications. It gained even more popularity upon the fabrication of silicon nanowires (Si N Ws), but it was only lately that it has found its way into devices as field effect transistors and biosensors.	Electronics, semiconductor and biosensor industries	UP Diliman	14-Mar-14	13-Mar-15	626,396.00	New	Rapid and Sustained Economic Growth

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23	The Surface Characterization of Imidazolium-based Ionic Liquids for Carbon Capture Using a Home-Build Surface Tensiometer by Dr. Imee Su Martinez	As mentioned in the 4th SONA of the president, the government intends to add more units of reliable energy sources in the nation. This can mean power plants, which make use of more traditional energy sources such as coal or fossil fuel. This defines the need to come up with robust carbon capture and sweetening systems for the gas emissions of these power plants to address problems such as air pollution, health risks, and in the long term climate changes, that are sure to arise due to these power plants. The current technology, which make use of aqueous amines for this purpose are beset with problems signifying the need to come up with a new system, such as the more robust and chemically stable ionic liquid systems. The objective of this particular project is to synthesize and characterize task-specific ionic liquids for carbon capture. The technique that will be used to characterize the carbon capture capability of these ionic liquids is mainly surface tensiometry, in particular the drop method.	Researchers, environmentalists, materials science researchers (nanotechnology) and the general public	UP Diliman	17-Feb-14	16-Feb-15	798,928.00	New	Rapid and Sustained Economic Growth

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24	Development of Probiotic Nutraceuticals Using Indigenous Plants and Lactic Acid Bacteria by Ms. Jennifer Saguibo	Growing public awareness of diet-related health issues has incurred the demand for probiotic foods, the majority of which are probiotic dairy foods. The health promoting properties of the probiotic products put them under the category of "functional food" which is defined as foods that provide health benefits and basic nutrition. Probiotics ( or "for life") are bacteria associated with health benefits such as alleviation of lactose intolerance, aid in the digestive process, help support natural immune system, help treatment of diarrhea, cholesterol reduction, discourage the growth of bad bacteria and cancer suppression.	General public, consumers, pharmaceutical industry	UPLB	6-Feb-14	5-Feb-15	524,438	New	Rapid and Sustained Economic Growth

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25	Communication, Evaluation, and Policy Brief Formulation of Research-Based Information on Nutrient-Water Dynamics, Biodiversity, and Productivity in Muyong and Payoh Systems in Amganad, Banaue, Ifugao by Dr. Estella C. Tirol, UPLB	The general objective of the project is to communicate research-based information on nutrient-water dynamics, biodiversity, earthworm composition, ecology, and behavior and agricultural productivity of the muyong and payoh systems, evaluate the communication effectiveness, and prepare a policy brief based on research, communication, and evaluation outcomes of the project. Some of its objectives include, information on ecology, and behavior as well as productivity of muyong and payoh systems using participatory approaches, incorporate popularized messages and materials on research results on the muyong and payoh systems into a strategic communication plan to be implemented for informing, promoting, and educating stakeholders on the muyong and payoh systems, particularly the steps or processes and benefits or advantages to the family household and community.	Amganad farmers, indigenous farmers and farming communities in Northern Luzon, agricultural and farm technicians, policymakers, LGUs	College of Development Communication, UPLB	1-Jan-13	31-Dec-14	500,000.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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26	Extraction and Purification of Pectin from the Fruit Peel Wastes of Selected Philippine Fruits by Dr. Monet Loquias	Extraction of pectin from these Artocarpus heterophyllus Lam. peels would at least derive an environmental and economic significance before they are disposed. There are already numerous studies that investigate pectin extraction from natural sources. However, there is a scarcity in research evaluating pectin yield in jackfruit peels and more specifically, the investigation of the suspending properties of such product in a drug suspension is currently lacking. The main objective of the study is to find a cheaper alternative source, which has a high yield of pectin from jackfruit peels, which may be used in the formulation of drug suspensions and as gelling agent in food products.	Pharmaceutical Industry, Food industry, drug manufacturing industry	UP Manila	11-Sep-14	10-Sep-15	567,090.50	New	Rapid and Sustained Economic Growth
27	Understanding the properties of structural analogues of multi wall carbon nanotubes by Dr. Antonette de las Penas	This work will study the different parameters (e.g. chirality, relative positioning of the walls) involved in a systematic symmetry structure analysis of structural analogues of multiwall carbon nanotubes for their commensurate and incommensurate walls. The objectives of the study are: To arrive at a line group analysis of structural analogues of double wall carbon nanotubes based on varying chiralities using tools in color symmetry theory and representation theory; 2. To apply the analysis to double wall nanotubes with non-hexagonal morphologies; 3. To study inter-wall interaction of double wall carbon nanotubes and their structural analogues based on symmetry and chirality considerations	Philippines Semi-conductor and Electronic industries	Ateneo De Manila University	28-Sep-14	27-Sep-15	325,940.00	New	Rapid and Sustained Economic Growth



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30	Policy Forum, RDMD & FAD	The project aims to formulate policies from the generated results of research undertakings for recommendation to policy makers in order to bring improvement to the sector concerned.	Policy makers, researchers, scientists, academe, S&T community	NRCP	1-Jan-13	31-Dec-17	431,231.00	Ongoing	Rapid and Sustained Economic Growth
31	Support to Quality Project Management (Monitoring & Evaluation), RDMD	To measure changes from baseline conditions to desired output and outcome. It focuses on the measurement of the output of processes, activities and input. Monitoring serves to alert the Project Management Office to problems in performance, provides option for connective actions, and helps demonstrate accountability	The NRCP, the government, the taxpayers, the general public	NRCP Secretariat	1-Jan-13	31-Dec-17	612,266.00	Ongoing	Rapid and Sustained Economic Growth

Legend:

	Beneficiaries
	Project Status
	Pinoy Key Result Area

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