

**PCHRD @ 29:**  
***Challenges and Innovations in Local Health Technologies***

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## **About PCHRD**

The Philippine Council for Health Research and Development (PCHRD) is one of the three sectoral councils of the Department of Science and Technology (DOST). PCHRD is a forward-looking, partnership-based national body responsible for coordinating and monitoring health research activities in the country. Since its founding on 17 March 1982 through Executive Order No.784, PCHRD has brought technical excellence with a soul into fulfilling its mandate.

The primordial source of health research leadership and direction in the country, PCHRD resolves to foster healthier and more productive lives among the Filipinos through health research and development (R&D).

## **Corporate Vision**

The organization that creates and sustains an enabling environment for health research in the country

## **Mission**

- Provide leadership in health research
- Advocate and support a health research culture
- Mobilize and complement health research resources to generate knowledge, technologies and innovations in health, and ensure their utilization
- Practise good governance to effectively perform the Council's role in leading, managing and coordinating the health research system

## **Vision for the Nation**

A nation empowered by research-based knowledge, technologies, and innovations in health.

## **Message from the Secretary**

Public health is a constant and critical national development interest. It touches lives across social classes. Practically no one is immune from health threats, along with disease-causing viruses that get increasingly virulent.

In this light, available resources often reflect the breadth and strength of society's public health defense system. Public funded R&D is essentially expected to put together an effective solution to a considerable threat to public health. In the context of a developing society, health threats can be diverse, continual, and persistent or even emerging. These make R&D work absorbing, dynamic, and resource intensive.

The Philippine Council for Health Research and Development (PCHRD) has to manage such challenges that seem to expand and come flooding back annually over the last 29 years. In the process, it has learned to deal with modest resources creatively to be relevant and responsive to a growing demand for public health solutions.

The preceding year is no exception. That's because innovation is increasingly integrated into PCHRD's work culture. I believe that innovation adds value to what it does within its mandate and resources.

I am hopeful that PCHRD can build upon the gains it achieved in 2011, and march forward with confidence.

*Mabuhay!*

**MARIO G. MONTEJO**

## Message from the Executive Director

In its 29 years of existence, the Philippine Council for Health Research and Development (PCHRD) has worked under the guiding light of its vision to be *“the lead council that creates and sustains an enabling environment for health research in the country.”* This vision is not just words penned on a piece of paper. For the people behind PCHRD, this vision is a product of collective dreams that each one of us is passionate to achieve.

On our 29<sup>th</sup> anniversary celebration, we purposely focused our theme on local health technologies to showcase innovations and technological developments that are being done in the country. The choice of theme highlights our commitment to provide quality health service delivery through generation of safe, appropriate, and accessible technologies to address the urgent health needs of the people. At the same time, it is our way of showing support for the growth of small and medium scale entrepreneurs on health bioindustry.

Given the limited funding for health R&D, the Council and its partners in the Philippine National Health Research System (PNHRS) pushed for stronger public-private partnerships as we face the challenge of accomplishing more with less resources. These public-private partnerships paved the way for the System to soar into new heights in 2011 as it gains momentum in the areas of research management, ethics, capability development, technology promotion, research utilization, and resource mobilization.

As we enter our 30<sup>th</sup> year of service, expect the dedicated men and women of PCHRD to work with even greater vigor to make lives better for the Filipinos through health research.

*Mabuhay ang PCHRD!*

**JAIME C. MONTOYA, MD, MSc, CESO III**

## **PCHRD @ 29: CHALLENGES AND INNOVATIONS IN LOCAL HEALTH TECHNOLOGIES**

On 18 March 2011 at the Hyatt Hotel and Casino Manila, PCHRD celebrated its 29<sup>th</sup> year with the theme, *“Challenges and Innovations in Local Health Technologies.”*

Keynote speaker Dr. Reynaldo L. Garcia, Professor from the National Institute of Molecular Biology and Biotechnology of the University of the Philippines Diliman, identified the challenges on diversifying drug discovery programs in the country.

*“First, we always end up with drug-like compounds and then we don’t pursue them further. Second, researchers keep taking on “new projects” all the time and we never pursue our initial results. The third challenge is we don’t have expertise in lead optimization and we don’t have medicinal chemists.”* he said.

As a take home message to the participants, Dr. Garcia stressed, *“We need to diversify and scale up. We should be aware that the attrition rate is very high and many of the things we are working on right now are going to fail. The other thing is to plan what to do next, because obviously we would have drug candidates sooner than later and we have to know what to do with them. We should also strategize our drug discovery approach. We should consider partnering; it is about sharing the risk. Lastly, it is important to have a change in mindset. Be more innovative and be more commercial.”*

In the panel discussion, experts highlighted the drug development situation in the Philippines in terms of clinical research, ethics, clinical trials regulation, and Intellectual Property Rights (IPR). The panelists included Ms. Linda Grace Mendoza, President of the Philippine Clinical Research Professionals, Inc., Dr. Cecilia V. Tomas, Chair of the Philippine Health Research Ethics Board (PHREB) Subcommittee on Accreditation, Dr. Suzette Lazo, Director IV of the Food and Drug Administration, and Mr. Epifanio Rey Evasco, Director IV of the Bureau of Patents, Intellectual Property Office of the Philippines.

## **5<sup>th</sup> PHILIPPINE NATIONAL HEALTH RESEARCH SYSTEM WEEK Convergence in Divergence, Innovations for Better Health**

The three-day celebration of the Philippine National Health Research System (PNHRS) Week kicked off on a high note on 10 August 2011 at the L’Fisher Hotel in Bacolod City as close to 500 participants from different parts of the country gathered together to bring to the fore challenges and opportunities surrounding the PNHRS today.

The three-day event provided a platform for the different stakeholders to interact, learn from each others, share information and experiences and contribute research-based solutions to health problems, among other things.

Highlights of the event included the Focus Group Discussions (FGD) on research utilization and health research and the media, student research competition in health science and technology, inter-regional research presentations, parallel sessions on capacity building, renewal of commitment of PNHRS core agencies, poster exhibits and the awarding of Best Mentor in Health Research winners for 2011.

On the first day of the celebration, two simultaneous FGDs with stakeholders were held. Participants of the FGD on Research Utilization (RU), composed of PNHRS regional consortia RU committee representatives, agreed that by working together and sharing

good practices and innovations, research outputs will be translated into concrete solutions to address the country's health problems. Meanwhile, the FGD on Health and the Media affirmed that media are effective partners of the research community to bring research results closer to the public. The stakeholders recognized the vital role that media plays in bridging the gap between the research community and the target beneficiaries.

The opening ceremony was marked by the core agencies' renewal of commitment to the PNHRs. The four core agencies were represented by their top officials, namely: Dr. Jaime C. Montoya, Executive Director, Philippine Council for Health Research and Development of the Department of Science and Technology (PCHRD-DOST); Dr. Marlyn Convocar, Assistant Regional Director, Department of Health (DOH)-Region VI; Commissioner William Medrano, Commission on Higher Education (CHED); and Dr. Lulu Bravo, Vice Chancellor for Research and Executive Director of the National Institutes of Health (NIH), University of the Philippines Manila (UPM).

During the second day of the celebration, six parallel sessions were held on the following topics: (1) Regional Health Research Systems: R&D Priorities, Accomplishments, and Plans ; (2) Research Translation to Policy and Action: Philippine Lancet Southeast Asian Series Launch; 3) Ethics: Patient Empowerment; (4) Information and Communication Technology (ICT) in Health; (5) Intellectual Property and Technology Commercialization; and (6) Research Dissemination: Writing Your Research and Publishing It in Journals.

In the session on R&D priorities, accomplishments and plans of the regional research systems, the 17 Regional Health Research and Development Consortia (RHRDCs) came up with the description of the clusters' health situations and problems that needed to be addressed. The Luzon cluster emphasized the need to strengthen higher education programs and the research networks. The Visayas cluster identified the need to improve research utilization strategies and increase capacity building towards more publication outputs, while the Mindanao Cluster stressed its need for partnership and collaboration to address top health priorities. The Metro Manila cluster, on the other hand, decided to focus their plans to support the Millennium Development Goals (MDGs) of the country.

The session on Research Translation to Policy and Action: Philippine Lancet Southeast Asian Series Launch emphasizes the centrality of research in health-policy design and implementation, and the need for investment in regional research capacity. Among the topics discussed were Southeast Asia's maternal, neonatal and child health situations; rise of chronic non-communicable diseases; distributional challenges and international trade for human resources in health and challenges in achieving universal health coverage through health financing reforms.

The Subcommittee on Patient Empowerment of the Philippine Health Research Ethics Board (PHREB) facilitated the session on Ethics and Patient Empowerment. A draft declaration of Rights of Human Research Participants was presented for consensus building. Participants were able to formulate a policy agenda, research agenda, and capacity building agenda on patient empowerment.

In the session on Inter-Regional Research Presentation, regional health researchers were able to showcase the results of their studies to fellow researchers, academicians, representatives from the government and private institutions. After their presentations, researchers gave their recommendations for further study and possible collaborations that can facilitate research translation into policies and innovations.

The Information and Communication Technology (ICT) in Health session discussed the role of information and communication technology (ICT) in the country's health and health industry. Participants agreed to maximize the limitless functions of open source applications as well as the internet as major platforms for connectivity and real-time updating of databases. However, the stakeholders also stressed the importance of a clear policy and standards to harmonize the country's health information systems and related applications.

The session on Intellectual Property and Technology Commercialization tackled the basics on patents, copyrights, trademarks and licensing and the creation of Technology Licensing Office (TLO) in research institutions. Colleges and universities were encouraged to build their own TLOs to aid researchers with their intellectual property concerns.

The Philippine Association of Medical Journal Editors (PAMJE) led the discussion during the session on Research Dissemination: Writing Your Research and Publishing It in Journals. Session participants agreed that there is a need for continual development in the field of research writing, peer reviewing and journal publishing in the country. In response, the PAMJE vowed to strengthen its advocacy and promotion of research publication in the country in accordance with the standards of the World Health Organization (WHO) - Western Pacific Region Index Medicus (WPRIM).

Funding the NUHRA was the highlight of the panel discussion on the final day of the celebration. Panellists suggested ways on how the research community can generate funds to finance its research initiatives. On top of their recommendations is the immediate passage of the PNHR Bill into a law. Stakeholders agreed that with the enactment of the PNHR Bill, the health research community will be assured of a stable fund source to support health researchers in generating ethical and relevant health knowledge and innovations.

## **MANAGING RESEARCH FOR RESPONSIVE HEALTH KNOWLEDGE AND TECHNOLOGIES**

### **National Unified Health Research Agenda (NUHRA)**

The National Unified Health Research Agenda (NUHRA) specifies the areas and topics that need to be addressed in line with global and national initiatives influencing the health sector. It serves as a guide for the health research community on the research studies that should be undertaken to address the health needs of the Filipinos.

With the conclusion of the NUHRA 2006-2010, the PNHR Research Agenda Committee directed the preparation of the new NUHRA 2011-2016. Given the limited resources for research, the Committee resolved to focus the NUHRA 2011-2016 on research priorities where there is greater assurance of funding and commitment from the PNHR core agencies.

The NUHRA 2011-2016 is a consolidation of the research priorities of the PNHR core agencies. Each of the core agencies conducted their own research priority setting activities that was grounded on consultation with stakeholders, for the formulation of their respective research agenda.

In line with the NUHRA, PCHRD supported a total of 48 projects, 12 of which were completed in 2011.

**Distribution of R&D projects by type and status, 2011**

Project Status	Project Type		Total
	Assisted	Monitored	
Completed	9	3	12
Ongoing	5	15	20
New	10	6	16
<b>Total</b>	<b>24</b>	<b>24</b>	<b>48</b>

## Completed Projects

### The Philippine Thyroid Disorder Prevalence Survey (PhilTiDes)

The project aimed to determine the prevalence of thyroid dysfunction among the Filipino adult population, 20 years old and above. Data collected include previous diagnosis and current treatment for thyroid disorders, presence of goiter, and thyroid stimulating hormone (TSH) and free thyroid 4 (FT4) which were analyzed from the blood samples of the participants.

The prevalence of thyroid function abnormalities in the Philippines is 8.53 percent. The remaining 4480 participants (n=4897) had normal thyroid function. Among those with thyroid function abnormalities, majority have subclinical thyroid disease, i.e., subclinical hyperthyroidism, 5.33 percent and subclinical hypothyroidism, 2.18 percent. The study recommends early detection to prevent the deleterious effects of the thyroid disorders.

### Pre-clinical Safety and Toxicity Studies on Virgin Coconut Oil (VCO)

This program aimed to determine the safety and toxicity profile of VCO preparations, identify potential target organs affected as well as toxic manifestations of repeated dosing of VCO in laboratory animals.

Physico-chemical properties (appearance, color, odor, taste, viscosity, specific gravity, pH, moisture and volatile mater and free fatty acid as lauric acid) and free fatty acid analysis of two samples of commercially available VCO were tested and were found to be comparable. Analysis of heavy metals of the two VCO samples showed that cadmium and mercury were not detected while arsenic and lead contents were within allowable limits. Microbial content of VCO samples were also found to be within allowable limits.

Mutagenicity tests conducted to detect the chromosome-breaking potential of both samples showed negative results. (*Mutagenicity research is important in pre-clinical evaluation since this determines whether the material being tested contain mutagens which can cause cancer, induce sterility and genetic disorders , physical malformations and functional disorders*).

Preliminary results of dermal irritation tests on male rabbits using the Draize Scoring System showed that the VCO samples exhibited slight irritation (presence of erythema and edema) when applied to the skin of test animals.

Lab animals received interventions for 90 days wherein safety parameters were at 0 days (baseline), 45 days and 90 days. Results of experiments seem to demonstrate that VCO at any dose could lead to higher creatinine and total cholesterol values. At a dose of 10.23 g/kg, VCO treatment demonstrated abnormal lesions in the liver, kidney and mucosa of small intestines indicating possible toxicity with long term use.

Researchers recommends further verification through replicate studies prior to establishing conclusions on the effect of long term VCO use.

### **Clinical Profile and Outcome of Patients Diagnosed with Leptospirosis after a Heavy Rainfall**

The study described the clinical features and complications of leptospirosis among patients seen at nine tertiary hospitals from September 28 to November 30, 2009 after the heavy rainfall typhoon.

The clinical findings of the confirmed cases were compared with the previous clinical studies on seasonal leptospirosis in the Philippines. Results showed that the patients in typhoon-affected areas exhibit more severe complications from the disease than the patients who were infected with the disease at a different time of the year. The study also revealed that fever is almost a universal manifestation of the disease. Thus, a widespread fever in typhoon survivor population can be a very good determinant of an emerging leptospirosis outbreak in the typhoon-affected areas. Acute renal failure is seen as the most common complication experienced by the victims of flood. Drop in the blood pressure was found to be a good indicator of a heightened risk for hemorrhage in the patients.

The study emphasizes the importance of public awareness and high index of suspicion among clinicians of leptospirosis during the monsoon months when flooding is common. Early recognition and detection of the disease will decrease number of fatalities.

### **Acute Oral Toxicity of Pure Extract *Smallanthus sonchifolius* Leaves in Swiss Mice**

*Smallanthus sonchifolius* (Yacon) was shown to possess analgesic, anti-inflammatory, antimicrobial, anti-diabetic and cytotoxic properties, among others, utilizing animal models.

Though the plant has been part of the diet of people, there are no published studies to attest the safety of yacon pure extract. Thus, the study aimed to document plant safety prior to its use as a medicinal preparation.

After leaves of yacon were collected and air dried, they were subjected to series of extraction and purification methods. The Up and Down Procedure (OECD Protocol 425) Limit Test was followed and the results allow a substance to be ranked and classified. Five acclimatized 6-8 week old, female ICR Swiss mice were sequentially dosed with pure extract of yacon. Observation period was 14 days.

The LD<sub>50</sub> of pure yacon extract is greater than 2000 mg/kg body weight. All Swiss mice survived with no signs and symptoms of toxicity. No abnormalities of the heart, lungs, liver and kidneys were seen. There is now basis to proceed with clinical trials involving human participants to determine efficacy and safety of *Smallanthus sonchifolius* pure extract in the treatment of diabetes mellitus and other metabolic diseases.

## **National Integrated Research Program on Medicinal Plants (NIRPROMP) Program**

The National Integrated Research Program on Medicinal Plants (NIRPROMP) has standardized the research process on medical indigenous plants.

The research program adopted a two-mission approach. Mission I is geared towards production of crude medicinal preparations against common diseases for distribution and utilization in rural areas. Mission II is directed towards in-depth studies on purified drugs extracted from medicinal plants and their local and international commercialization.

NIRPROMP also conducted technical training programs and seminar-workshops to raise awareness on the safety and efficacy of medicinal plants as supplemental medicine.

These included six-month programs on formulation, manufacture and quality control of dosage forms for the personnel of regional manufacturing centers; bioassay and clinical pharmacologic studies of medicinal plant preparations for application at various levels of patient care, including monitoring of adverse drug reactions; and cultural management and post-harvest handling of medicinal plants.

Following are the medicinal plant technologies generated by the program:

- Lagundi (*Vitex negundo*) tablet for cough and asthma
- Lagundi (*Vitex negundo*) syrup for children's cough and asthma
- Sambong (*Blumea balsamifera*) tablet for urolithiasis
- Akapulko (*Cassia alata*) lotion for fungal infection (*Tinea versicolor*)
- Yerba Buena (*Mentha cordifolia*) tablet for pain
- Ampalaya (*Momordica charantia*) tablet for diabetes mellitus (Type II)
- Tsaang Gubat (*Carmona retusa*) tablet for gastrointestinal / biliary colic

## **ADVOCATING FOR ETHICS AND INTEGRITY IN HEALTH RESEARCH**

In 2011, the Council, together with the Philippine Health Research Ethics Board (PHREB), continues to advocate for ethics in health researches involving human subjects. Quarterly PHREB meetings were held to track developments on the identified priorities of the Board namely: setting up of patient empowerment mechanisms, initiation of an accreditation process and updating of the National Ethical Guidelines for Health Research.

### ***Updating of the 2006 National Ethical Guidelines for Health Research***

The draft 2011 edition of the national ethics guidelines underwent content editing by Prof. Peter Sy of UP Diliman. The updated guidelines will be released during the PCHRD Anniversary on March 2012.

### ***Accreditation of ERCs***

In line with the need to mainstream or professionalize the conduct of ethics in health research, Dr. Cecilia V. Tomas and Dr. Marita V.T. Reyes met with Ms. Jesusa Joyce N. Cirunay and Dr. Cynthia Diza of the Philippine Food and Drugs Administration (PFDA) on January 26, 2011 to discuss how PHREB's plan for Ethics Review Committees (ERCs) accreditation can interface with PFDA's directions on the ongoing effort among ASEAN countries for Good Clinical Practice (GCP) Harmonization.

### ***Ethics Training, RTDs and Consultative Meetings***

PHREB continued its legacy in advocating ethics training in the regions, leading roundtable discussions (RTDs) and consultative meetings which aimed to develop knowledge base for the development of additional guidelines and programs of action in ethics.

A workshop on patient empowerment was held during the 5<sup>th</sup> PNHRS Week celebration on 11 August 2011. Aside from the presentation of the draft declaration of Rights of Human Research Participants, agenda on policy, research, and capacity building were also formulated.

PHREB also conducted three ethics training in 2011, namely: 1) Forum on Hospital Bioethics, September 7-9, in DOH Manila; 2) Basic Ethics Training, September 22-23, at Holy Angels University, Pampanga; and 3) Basic Training on Research Ethics Review, November 10-11, in Zamboanga City.

A Roundtable Discussion on Research involving the older person was conducted last October 4 at the Philippine Medical Association (PMA). The formulated guidelines in this RTD were included in the revised edition of the National Ethical Guidelines on Health Research. Another RTD on the Empowerment of Human Research Participants was held last December 12 to identify the key thematic areas, topics, and action points on the research, policy, and capacity-building agenda.

The Standard Operating Procedures (SOPs) for the Accreditation of Ethics Review Committees (ERCs) was finalized on October 6 in a meeting of the Subcommittee on Standards and Accreditation (PHREB-SSA) at the UP Manila College of Medicine. The Subcommittee is now accepting applications from ERCs who want to be included in the first batch of accredited institutions.

### **Support for ethical, GCP-compliant clinical trials**

PCHRD, together with the Philippine Clinical Epidemiology Network (PHILCLEN), De La Salle - Health Sciences Institute (DLS-HIS) convened a Stakeholders Meeting on Convergence and Harmonization: Clinical Trials and Achieving GCP Goals in the Philippines on 24 November 2011 at the De la Salle Angelo King Medical Research Center, Dasmariñas City, Cavite.

The meeting discussed issues, challenges, best practices and lessons learned on clinical trials and GCP in the Philippines. Stakeholders also signed the Dasmariñas Declaration on Harmonization of Clinical Trials towards Good Clinical Practices (GCP) - enabled Philippines.

The Dasmariñas declaration stated that health research institutions in the country will support public-private partnership (PPP) and share best practices and lessons learned to develop the Philippines as a world-class model and venue for ethical, GCP-compliant clinical trials. The Declaration also emphasizes the rights, safety and well-being of clinical trial participants and their communities, towards the promotion of better health of all Filipinos.

## INVESTING IN HEALTH RESEARCH HUMAN RESOURCE DEVELOPMENT

Through the years, the Council consistently pursues capacity building initiatives aimed at building a strong health research human resource base.

### DOST Accelerated Science and Technology Human Resource Development Program (ASTHRDP)

In 2011, the Council approved 15 new scholars for the priority fields of study on Health and Pharmaceutical Sciences under the DOST Accelerated Science and Technology Human Resource Development Program (ASTHRDP). There were five new scholars for the master's degree program and 10 new scholars for the doctoral degree program. Two doctoral and 59 master's students completed their studies while 237 scholars continued their academic pursuits.

#### Distribution of scholars by type and status of program, 2011

Program Status	Doctoral	Master's	Total
Completed	2	59	61
Ongoing	56	177	237
New	10	5	15
<b>Total</b>	<b>68</b>	<b>241</b>	<b>309</b>

For the thesis and dissertation assistance program, twenty two master's students and three doctoral scholars completed their theses and dissertation, respectively and nineteen grantees continued to work on their theses/dissertation projects.

#### Distribution of dissertation/thesis grantees by type and status of program, 2011

Program Status	Doctoral	Master's	Total
Completed	3	22	25
Ongoing	4	15	19
New	0	0	0
<b>Total</b>	<b>7</b>	<b>37</b>	<b>44</b>

### MD-PhD Scholarship Program on Molecular Medicine

Last June 22, 2011, the Department of Science and Technology (DOST) welcomed its second batch of MD-PhD scholars in Molecular Medicine through the signing of a Memorandum of Understanding (MOU) with the University of the Philippines Manila (UPM) at the Alvior Hall, UP College of Medicine, Manila.

The scholars were Rommel Oliveras and Mark Joseph Abaca from UP Manila; John Carlo Reyes, Cecile Dungog, Joy Vanessa Perez, Annavi Marie Villanueva, Francis James Gordovez, Florence San Juan and Raniv Rojo from UP Diliman; and Natasha Andrea Fernandez from UP Visayas.

All scholars obtained at least 90% score in the National Medical Admission Test (NMAT) which is one of the requirements to qualify for the scholarship program. Six of the scholars graduated magna cum laude and four graduated cum laude.

The MD-PhD scholarship program showcases the Council's commitment in developing human resource capacities as a strategy to meet the biomedical R&D needs of the country.

### **2011 PCHRD - Gruppo Medica Award Winners**

Every year, the PCHRD in collaboration with Gruppo Medica Inc., gives recognition to undergraduate students who engage in relevant and innovative research works on herbal medicine with practical/commercial applications. The award provides motivation for students to view undergraduate thesis not merely as an academic exercise, but as an excellent opportunity to contribute to the national health research agenda.

In 2011, students from the University of Santo Tomas both won the first and second prizes and received PhP60,000 and PhP40,000, respectively, in recognition of their promising research in herbal medicine. The third prize winner of PhP20,000 was given to the research study of students from the University of the Philippines Diliman. The three winners stood out from among the 31 entries submitted to the PCHRD-Gruppo Medica Evaluation Committee.

#### **Winners of the 2011 PCHRD-Gruppo Medica Award**

##### **1<sup>st</sup> Prize**

**A critical assessment of the cytotoxicity,  
hypoglycaemic and antioxidant potential of the ripe  
fruit of *Musa sapientum* var. *saba* on human  
fibroblasts in vitro**

**Mr. Luis Tani, Mr. Leland Ustare, and  
Mr. Von Luigi Valerio  
University of Santo Tomas**

##### **2<sup>nd</sup> Prize**

**Fruit juice of unripe *saba* (*Musa paradisiaca* L.)  
inhibits free radicals, prevents lipid peroxidation  
and improves lipid profile**

**Ms. Kristin Joyce Santos, Ms. Abegail Santillan, and  
Ms. Chari Jane Rosales  
University of Santo Tomas**

##### **3<sup>rd</sup> Prize**

**Xanthine Oxidase Inhibitory Activity of *Mimosa  
pudica***

**Ms. Luisa Gillian Angeles  
University of the Philippines Diliman**

### **PNHRS Best Mentor in Health Research Award**

19 nominees from Luzon, Visayas, Mindanao and NCR qualified for the PNHRS Best Mentor in Health Research award in 2011.

The National Evaluation Committee chaired by Dr. Alberto G. Romualdez was convened on June 13, 2011 at the DOST Executive Lounge to deliberate and evaluate the three

cluster winners and come up with a national winner. Best mentors were selected based on their track record in research and research guidance, dedication in promoting research, and contribution towards a supportive research environment. After the deliberation, Dr. Jericho Thaddeus P. Luna of the University of the Philippines-Philippine General Hospital emerged as the national winner, and was awarded during the PNHRS Week celebration last August with a trophy and PhP200,000 cash prize.



## **BRIDGING THE HEALTH DIVIDE THROUGH RESEARCH UTILIZATION**

In 2011, the Council crafted its strategic plan for research utilization and identified priority activities it will implement toward linking research to health policy and action. These activities include the enhancement of research knowledge management systems and strengthening of communication and advocacy strategies on research translation.

### **Building Public Awareness of Health Research**

Health research information dissemination and promotion has always been a priority of the Council.

PCHRD maximized its strong partnership with the media to further expand its reach in disseminating relevant health knowledge and innovations to stakeholders. In 2011, 30 articles came out in the national and local dailies, 24 interviews were aired in radio, and 21 features were shown in television. 50 articles were published online.

The Council also organized 66 conferences, symposia, workshops, and roundtable discussions for and with its partners in the health research system on diverse topics such as drug discovery and development, vaccine R&D, cell biology, nutrition, and dengue control.

In July, PCHRD participated in the annual National Science and Technology Week (NSTW) celebration dubbed as The Science Expo 2011, with the theme “*Nasa Syensiya ang Pag-*

asa.” The event featured researches, technologies, and services in the areas of food, agri/aqua-culture; health and pharmaceuticals; disaster management and mitigation; environment; information/communication technologies; bio/nano-technology; manufacturing and engineering; electronics; and alternative energy, which the DOST would utilize to directly address the country’s current problems. The Council displayed the latest health innovations such as the RxBox, Ovicidal-Larvicidal (OL) Mosquito Trap, and medicinal plant products.

### **Promoting the Value of Technology Commercialization**

With the passing into law of the Technology Transfer Act of 2009, PCHRD’s role shifted from being the technology licensor to being a mentor for health research institutions in their technology commercialization efforts. Prior to transferring the intellectual properties (IP) associated with the medicinal plant products (*lagundi*, *sambong*, *tsaang gubat*, etc.) to UP Manila, PCHRD was already assisting them in organizing their Technology Licensing Office (TLO) and developing their own technology transfer protocols. UP Manila has since processed several applications for licensing and continues to reap the rewards of technology commercialization thru the royalties they are receiving from the technology licensees.

As part of its commitment to uphold the spirit of the Technology Transfer Law, PCHRD also participated in the preparation of IP valuation guidelines which is an integral component of the Techno-Transfer Law. In addition, advisory services were also provided to several institutions/individuals in their IP-related concerns. Assistance were given to the following: Angeles University Foundation, UP Manila MD-PhD students, UP Manila researchers, St. Luke’s Medical Center-Department of Obstetrics and Gynecology, Dr. Teresa Mendoza of the Philippine Institute of Traditional and Alternative Health Care (PITAHC), Atty. Josephine Santiago, and Ms. Rucel Vipinosa.

Licensing Executives Society (LES) Philippines lent its valuable support to PCHRD in assisting the members of the PNHRs network, especially on complex issues regarding intellectual property. Atty. Patricia O. Bunye, Past President of LES-Philippines and current member of its Board of Directors, gave advice on how to manage the intellectual property that will be generated from a research project involving three institutions. In addition, she also offered to conduct a patent search *pro bono*, to establish the viability of applying for a patent or utility model for the subject of said research. Last August, LES was PCHRD’s partner in a whole day session on Intellectual Property and Technology Licensing. LES Philippines’ members Atty. Bunye, Atty. Leslie Cruz, and Atty. Oliver Baclay, Jr. discussed the basics of Patents, Trademarks and Copyrights, and also gave important lessons on technology licensing.

### **HERDIN NeoN: The National Health Research Repository**

To ease access of clients to health research information, PCHRD enhanced its system of collecting entries to its databases, known as HERDIN or Health Research and Development Information Network. The distributed system called HERDIN Network of Networks (NEON) is being deployed to research institutions nationwide.

Parallel to the deployment, PCHRD also conducted HERDIN training to capacitate health research institutions to organize and update health research information which is part of the national health research repository.

At present, HERDIN NEON contains more than 40,000 published and unpublished research articles from 200 health journals and publications printed from 1906-2010, with 2,655 new entries added in 2011.

19 partner institutions are already connected and had contributed to the national repository. These are: Philippine Journal of Orthopedics, Philippine Journal of Otolaryngology Head and Neck Surgery, Philippine Scientific Journal, Manila Central University, Resource Center for Health System Development of the Department of Health (DOH) and Jose R. Reyes Memorial Medical Center (JRMC) for National Capital Region (NCR); Bataan Peninsula State University (BPSU) and Tarlac State University for Region III; University of Perpetual Help Binan (UPH) for Region IV; Cebu Doctors University, Cebu Institute of Medicine, University of Visayas Gullas Medical Center and Central Visayas Health Research and Development Consortium (CVHRDC) for Region VII; Xavier University Ateneo de Cagayan and Mindanao State University-Iligan Institute of Technology for Region X; Davao Medical School Foundation for Region XI; and Department of Science and Technology - Cordillera Administrative Region (DOST-CAR).

### **Developing a Philippine Health Research Registry**

Building on the success of HERDIN, PCHRD is also developing the Philippine Health Research Registry (PHRR), a publicly accessible database of all health researches and clinical trials being conducted in the country. PHRR will be different from HERDIN because data entries will be prospective and will be inputted and updated by the researchers themselves. Research details will be known or made available even before the implementation of actual research.

With a PHRR in place, planners, policymakers, and prospective researchers will be able to track ongoing researches and, in the process, avoid research duplication. It will also serve as a tool for good governance as it promotes transparency and accountability of all concerned entities.

### **PAMJE, to raise quality of health journal publishing in the country**

On May 5, 2011, the Philippine Association of Medical Journal Editors (PAMJE) was formed during a meeting of the Western Pacific Region Index Medicus (WPRIM) Philippines hosted by Philippine Council for Health Research and Development (PCHRD) at the Department of Science and Technology (DOST) Executive Lounge, Bicutan, Taguig City.

PAMJE's elected President was Dr. Jose F. Lapeña Jr., editor of the Philippine Journal of Otolaryngology Head and Neck Surgery and Secretary-General of the Asia Pacific Association of Medical Journal Editors (APAME). Elected Vice Presidents were Drs. Ricardo Guanzon and Filomena San Juan, editors of the Filipino Family Physician and the Philippine Journal of Obstetrics and Gynecology, respectively. Dr. Madeleine Sosa of the Philippine Journal of Neurology was elected Secretary and Dr. Gerard Goco of the Philippine Journal of Nuclear Medicine was elected Treasurer. Dr. Jose Ma. Avila, editor of Acta Medica Philippina, remains as Chair of the National Journal Selection Committee.

Other founding members of PAMJE were Dr. Mardave S. Martinez, Vice President of the Philippine Medical Association and editor of its journal, and Dr. Linda Varona, editor of the Philippine Journal of Internal Medicine.

PAMJE is envisioned to be a non-governmental, non-partisan and non-profit organization that strives to raise the quality of medical and health journal publishing in the Philippines in partnership with the PCHRD-DOST, Philippine Medical Association (PMA), Philippine Dental Association (PDA), Philippine Nursing Association (PNA), among others.

PAMJE also has mission to contribute toward elevating the quality of medical and health journal publishing in the Asia Pacific Region in official association with the Asia Pacific Association of Medical Journal Editors (APAME) and support the Western Pacific Region Index Medicus (WPRIM) and Global Health Library (GHL) Initiatives of the WHO-WPRO.

## **INTERNATIONAL LINKAGES**

### **Western Pacific Region Index Medicus (WPRIM) pushes for regional sharing of health information**

With HERDIN as its base, the Council continued to be active in the development of the Western Pacific Region Index Medicus (WPRIM). A joint project of the World Health Organization (WHO) Regional Office for the Western Pacific and member countries in the region, WPRIM is an important component of the Global Health Library initiative of the WHO.

In a meeting held on 19 August 2011, the Philippine National Journal Selection Committee Meeting approved 11 journals that met the country criteria for inclusion to WPRIM. The journals are: Acta Medica Philippina, Filipino Family Physician, Journal of the Philippine Dermatological Society, Philippine Journal of Anesthesiology, Philippine Journal of Internal Medicine, Philippine Journal of Obstetrics and Gynecology, Philippine Journal of Reproductive Endocrinology Head and Neck Surgery, Philippine Journal of Nuclear Medicine; and Philippine Journal of Ophthalmology.

On 28-31 August 2011, the Council participated in the 1<sup>st</sup> Congress and 4<sup>th</sup> Joint Meeting of APAME and WPRIM in Seoul, South Korea. The conference attracted delegates from 17 member countries. Objectives of the meeting included raising the quality of scholarly medical journals and promoting exchange among editors, authors, researchers, librarians, and publishers of academic medical journals.

On 27-29 October 2011, PCHRD joined the training-workshop on the WPRIM database held in Chengdu, China. The objective of the training is to teach member countries the technical knowledge and skills needed in the operations and management of the WPRIM system. Part of the training includes familiarization with the system's standard operating procedures, functions and applications such as data sharing and uploading protocols, maintenance and technical enhancement procedures. The training was attended by focal persons and representatives from the contributing countries like Cambodia, Japan, Korea, Laos, Mongolia, Singapore, Vietnam and the Philippines.

### **ASEAN Network for Drugs, Diagnostics, and Vaccines Innovation (ASEAN-NDI) to develop Strategic Business Plan**

In line with the recommendations raised during the 2<sup>nd</sup> Country Coordinators' Meeting and Association of Southeast Asian Nations (ASEAN) Representatives Consultation on ASEAN-NDI held on 06 December 2010 in Makati City, a Task Force was created in March 2011 to work specifically towards the development of the Strategic Business Plan (SBP) for the ASEAN-NDI. The Task Force identified the Asian Institute of Management (AIM) to

develop the SBP.

The purpose for the formulation of the ASEAN-NDI SBP is to clearly define the following: (1) the mission, vision and objectives of ASEAN NDI which takes into consideration the R&D landscape in the region; (2) the scope of work and focus of ASEAN NDI, disease coverage and advocacy strategy while taking into account the unique situation of the ASEAN member countries and in consideration of existing product R&D initiatives globally and within the region; (3) options for an appropriate governance and organizational structure for ASEAN-NDI including the implementation plan along the lines of a cost-effective, technically efficient, accountable and sustainable virtual R&D model that is relevant and appropriate for ASEAN; (4) recommendations for activity timelines, milestones and deliverables for the implementation plan; and (5) recommendations for advocacy/communications and funding strategy for ASEAN-NDI.

On October 20, 2011, the 1<sup>st</sup> ASEAN-NDI Task Force Meeting was held at the Dusit Thani Hotel, Makati City. The conference was attended by the task force members from the ASEAN Member States, the World Health Organization-Western Pacific Regional Office (WHO-WPRO), the ASEAN-NDI Secretariat and AIM business experts led by Dr. Federico Macaranas.

The meeting aimed to discuss and agree on the framework or initial outline of the draft ASEAN-NDI SBP and the timelines for consultations and discussions by the business development experts with the task force members. The SBP is expected to be completed before the ASEAN-Committee on Science and Technology (COST) meeting on April or May 2012.

### **ASEAN member states tackles impact of climate change on infectious diseases**

In a consultative meeting last October 20, 2011 held at the Dusit Thani Hotel, Makati City, the Association of Southeast Asian Nations (ASEAN) member countries tackled the impact of climate change on vector-borne diseases.

Spearheaded by Dr. Jaime C. Montoya, National Focal Person for the Philippines of the ASEAN Sub Committee on Biotechnology (SCB), and the Executive Director of PCHRD, the meeting is the Philippines' attempt towards finding a sustainable solution to the rising number of infectious diseases directly linked to the climate change phenomenon.

The consultative meeting was a follow-through activity of the Roadmap on Climate Change, Regional Science and Technology Strategic Role, during the ASEAN Ministerial Meeting in November 2009. The roadmap which was developed by the Philippines, the lead country for climate change in collaboration with Vietnam (co-lead country), identified as one of the priority concerns the development of a predictive technology that will forecast spatial and temporal relations of emerging and re-emerging infectious diseases with climate change variations.

One of the highlights of the meeting was the presentation of country initiatives on climate change and health in the areas of policies and programs, research priorities, resources for research, identified research gaps and public health control measures.

An ASEAN collaborative R&D draft proposal entitled *Impact of Climate Change on Infectious Diseases in the ASEAN Member States* was presented by Ms. Alma Macahia, project leader from the De La Salle University (DLSU) Dasmariñas. The proposal has two

components: 1. The Relationship of Climate Change and Geographical Features to the Occurrence of Dengue and Malaria in the ASEAN Member States; and 2. Interactions between Vector Ecosystem and Human Society to address the burden of Dengue and Malaria in the ASEAN Member States.

The participants gave their feedbacks and reactions to the draft R&D proposal and agreed on the following next steps: establishment of database of persons/ institutions/ funding agencies and current/ planned initiatives; collaborative projects with a minimum of three ASEAN countries working together; establishment of facilities for sharing information/ resources; and forging linkages with other existing networks or funding sources outside the ASEAN.

## **MOBILIZING RESOURCES AND SUPPORT FOR HEALTH RESEARCH**

The Council mobilized resources from international organizations, private sector, other government organizations and local partners to support the implementation of programs and projects in health research. In 2011, the Council was able to generate external resources amounting to PhP 51.1 million.

To complement PCHRD's effort, the PNHRs Committee on Resource Mobilization boosted its efforts in lobbying for the establishment of the PNHRs fund.

### **PNHRs Bill: Institutionalizing Partnerships towards Sustainable Health R&D**

When the PNHRs Bill (House Bill Nos. 1241, 2597, & 3271 and Senate Bill Nos. 2350, 2592) turns into law, PNHRs will be assured of a stable fund source to support health researchers in generating ethical and relevant health knowledge and innovations. Titled, "An Act Institutionalizing the Philippine National Health Research System," the bill was filed in the 15<sup>th</sup> Congress by Aurora Representative Juan Edgardo M. Angara as HB No. 00564, Cavite 1<sup>st</sup> District Representative Joseph Emilio Abaya as HB No. 2615, Agham Party List Representative Angelo Palmones as HB No. 4208, Cavite 2<sup>nd</sup> District Representative Lani Mercado-Revilla as HB No. 4412, and Cagayan De Oro 2<sup>nd</sup> District Representative Rufus Rodriguez as HB No. 4855. In the Senate, the Bill was filed by Senator Edgardo Angara as SB No. 2029, Senator Manuel Villar Jr. as SB No. 1083, and Senator Antonio Trillanes as SB No. 257.

In 2011, three Congress Committee hearings on the PNHRs Bill were held: 1) Joint Committee on Health and Finance hearing last January 2011 at the Senate; 2) Lower House Committee on Health hearing last May 2011; and 3) Lower House Committee on Appropriations last November 2011.

At present, the Bill is still undergoing deliberations in the Committee on Appropriations.

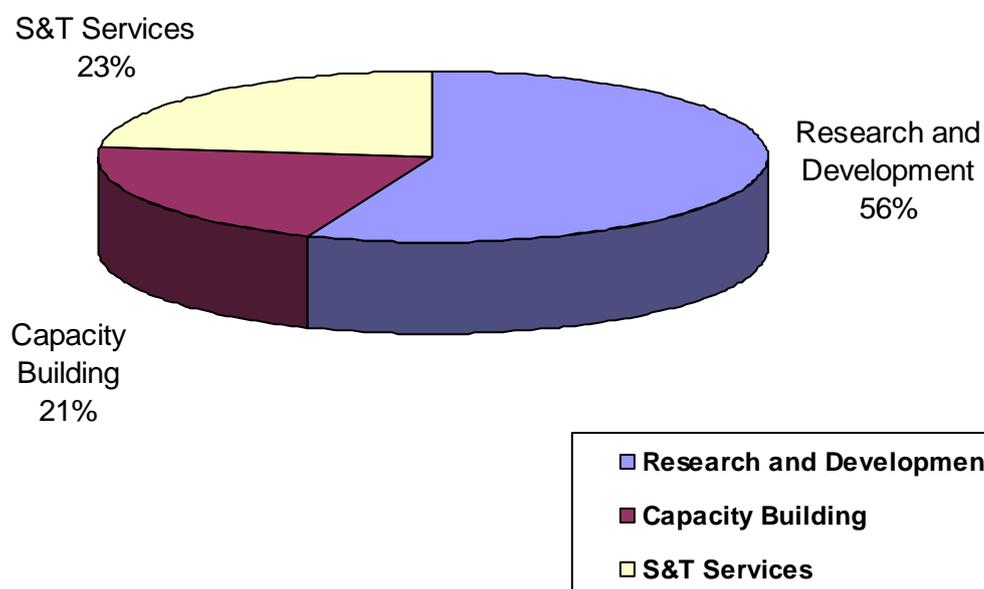
## FINANCIAL OVERVIEW

PARTICULARS	ALLOTMENT	EXPENDITURES	% OF UTILIZATION
<b>Total Funds from National Government</b>	<b>93,322,000.00</b>	<b>88,830,000.00</b>	<b>95%</b>
General Administration and Support	17,729,000.00	16,226,000.00	92%
Operations	30,349,000.00	27,927,000.00	92%
Grants-in-aid:			
Research and Development	20,678,000.00	20,678,000.00	100%
Capacity Building	8,722,000.00	8,722,000.00	100%
S&T Services	8,891,000.00	8,891,000.00	100%
International Commitment Fund (ICF)	1,374,000.00	850,000.00	62%
Continuing Appropriation	5,579,000.00	5,536,000.00	99%
<b>Funds from Other Sources</b>	<b>51,074,000.00</b>	<b>34,287,000.00</b>	<b>67%</b>
<b>GRAND TOTAL</b>	<b>144,396,000.00</b>	<b>123,117,000.00</b>	<b>85%</b>

The PCHRD budget in 2011 amounted to PhP144.4 million, of which 85 percent, or PhP123.1 million, was used. Out of this budget, PhP93.3 million came from the government and PhP51 million from other sources.

For the grants-in-aid (GIA), which amounted to PhP38.3 million, PhP20.7 million (56%) was allotted to research and development projects, PhP8.7 million (21%) for capacity building, and PhP8.9 million (23%) for science and technology services.

**Grants-in-Aid Allotment, 2011**



## **INSIDE PCHRD**

### **PCHRD renews ISO 9001: 2008 certification**

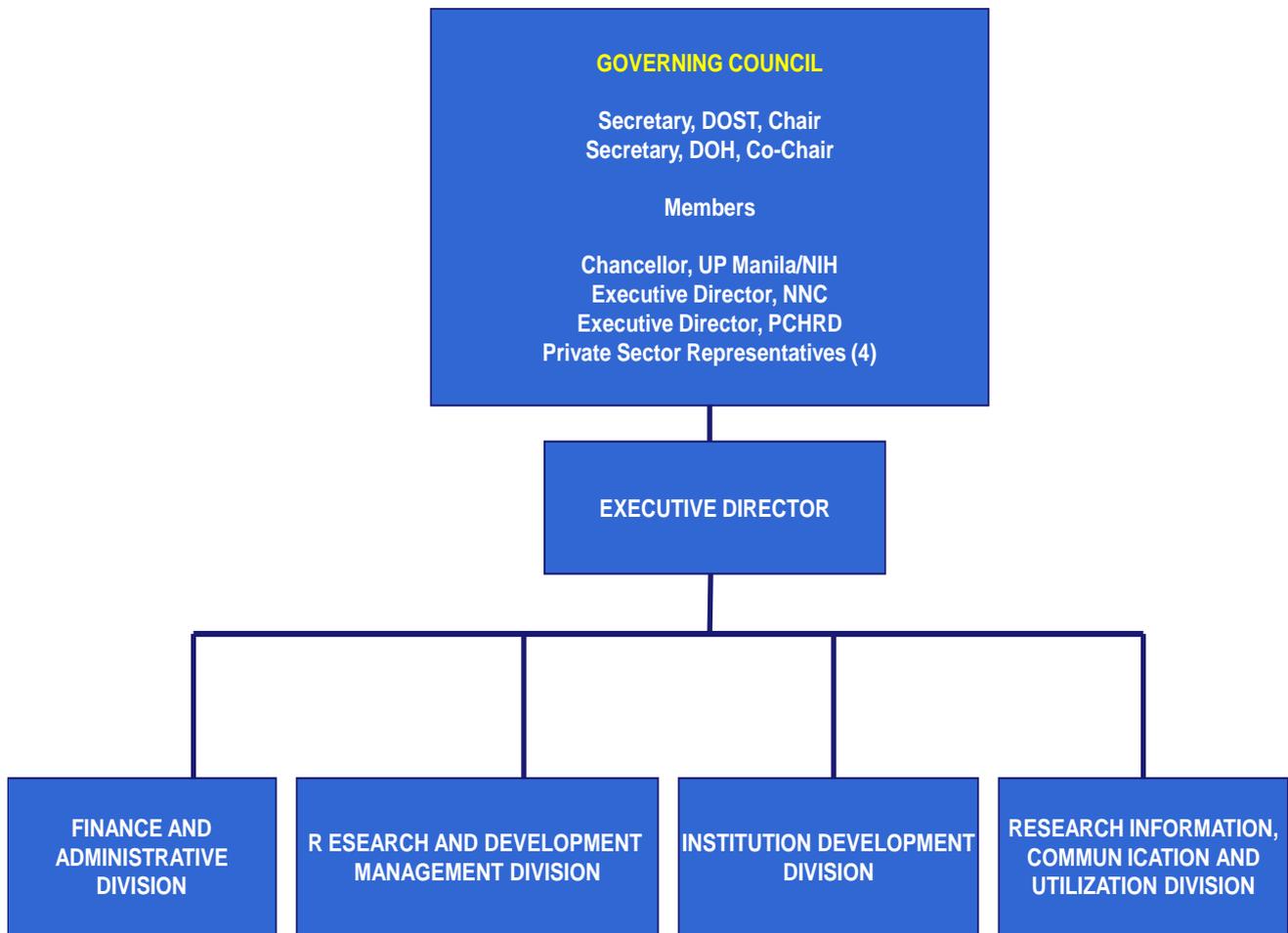
In 2011, PCHRD successfully renewed its ISO 9001:2008 certification following the surveillance audit conducted by the Certification International Philippines, Inc. (CIPI) last 23 February 2011.

The certification covered Quality Management System (QMS) core processes on research management and development, human resource and institution development, research information, communication and utilization, as well as finance and administrative functions.

### **The PCHRD Dream Team: Teamwork is the way to go**

Truly, there is no “I” in Team. And in PCHRD, teamwork is the name of the game. Our dream team is composed of 52 dedicated and professional staff who consistently delivers excellent quality of service to its clients.

In 2011, PCHRD’s staff complement comprised of 37 technical and 15 administrative and support staff. 24 have a bachelor’s degree, 18 are master’s degree holders, one has a doctoral degree and three are medical doctors. To strengthen their capability to provide value to our clients and partners in the health research network, 49 underwent training along their line of work.



**PCHR D Organizational Structure**

## **PCHRD Prime Movers**

### **PCHRD Governing Council**

#### ***Chair***

**Hon. Mario G. Montejo**  
Secretary  
Department of Science and Technology

#### ***Co-Chair***

**Hon. Enrique T. Ona**  
Secretary  
Department of Health

#### ***Members***

**Dr. Jaime C. Montoya**  
Executive Director  
Philippine Council for Health Research and Development

**Dr. Manuel B. Agulto**  
Chancellor  
University of the Philippines Manila

**Dr. Mediadora C. Saniel**  
Head, Medical Services  
The Medical City

**Atty. Jose Maria A. Ochave**  
Corporate Vice President, Business Development Group  
United Laboratories, Inc.

**Dr. Catherine Q. Castaneda**  
Director IV  
Commission on Higher Education

**Ms. Ma. Bernardita T. Flores**  
CESO II & Assistant Secretary  
Executive Director  
National Nutrition Council

**Dr. Antonio M. Montalban**  
Orthopaedic Surgeon  
San Juan de Dios Hospital

**Dr. Charles Y. Yu**  
Vice-Chancellor for Mission and Linkages  
De La Salle University

**PCHRD Officials**

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Fabiana Concepcion

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Veronica De Leon  
Sabrina Arra Elechosa  
Timothy Joseph Figueroa  
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Jayson Itulid  
Magdalena Manaig  
Mylene Marco  
Roselle Martonito  
Ronel Molina  
Rachel Ann Doreen Nadal  
Elisa Parsacala  
Rolly Rausa  
Mark Joseph Tano  
Vincent John Tumlos

## ANNEXES

### I. List of R&D Projects

#### PCHRD-Assisted Projects

##### *Completed*

##### **The Philippine Thyroid Disorder Prevalence Survey (PhilTiDes)**

Philippine Society of Endocrinology and Metabolism

##### **Clinical Profile and Outcome of Patients Diagnosed with Leptospirosis After a Heavy Rainfall**

Infectious Diseases Section, Department of Medicine, University of the Philippines-Philippine General Hospital

##### **Acute Oral Toxicity of Pure Extract *Smallanthus sonchifolius* Leaves in Swiss Mice: Up and Down Toxicity Testing Method**

De La Salle Health Science Institute

##### **National Integrated Research Program on Medicinal Plants (NIRPROMP)**

**Pharmacologic and Toxicologic Studies of Philippine Medicinal Plants**

Department of Pharmacology, University of the Philippines Manila

##### **Establishment of Quality Control Bioassay Procedures for Medicinal Plant Products**

Department of Pharmacology

##### **Bioassay for Infectious Diseases**

Department of Pharmacology

##### **Dosage Forms from Medicinal Plant Constituents**

College of Pharmacy, University of the Philippines Manila

##### **Clinical Screening and Validation Studies of Medicinal Plant Products**

Department of Pharmacology

##### **Development of Appropriate Cultural Management to Improve Yield and Quality of Selected Medicinal Plants**

Institute of Herbal Medicine, National Institutes of Health, University of the Philippines Manila

##### *Ongoing*

##### **A neuropsychological Test for the Early Detection of Alzheimer's Disease Among Filipino Elderly: An Adaptation and Validation of the Pilipino Translation of the Montreal Cognitive Assessment (MoCA) Among Community Dwelling Elderly in the Philippines**

St. Luke's Medical Center

**INTERSTROKE - Importance of Conventional and Emerging Risk Factors for Stroke in Different Regions of the World**

University of the Philippines-Philippine General Hospital

**Incidence of Active Tuberculosis Among Health Workers with Latent Tuberculosis Infection (LTBI) in Tertiary Hospital Setting**

Section for Pulmonary Medicine, University of the Philippines-Philippine General Hospital

**Formulation of an Equation to Estimate Glomerular Filtration Rate among Filipinos: Derivation of GFR Equation Among Filipinos (Phase I)**

Philippine Society of Nephrology

**NEW**

**Pilot-testing of Biotek-M Dengue RT-LAMP Kit**

National Institute of Molecular Biology and Biotechnology, National Institutes of Health, University of the Philippines Manila

**Development of VCO-Based Personal Care Products for Hair and Skin**

Industrial Technology Development Institute, Department of Science and Technology

**Design and Development of a Drug Research Content Management System**

Multiple Information Systems and Technologies Asia Corporation

**Identification, Characterization and Evaluation of Anti-Dengue Activity in Selected Philippine Plants**

St. Luke's Medical Center

**Development of *Piper nigrum* Fruits and Leaves as Larvicidal Agent in the Control of Dengue Mosquitoes, "*Aedes aegypti*"**

University of Santo Tomas

**Comparative Studies on the Bioactivity of the Aqueous and Ethanolic Extracts/pellet form of *Piper nigrum* on the duration of egg, larval and pupal development stages of *Aedes* and *Anopheles* mosquitoes**

Industrial Technology Development Institute, Department of Science and Technology

**Herbal Drugs against Tuberculosis**

Institute of Chemistry, University of the Philippines Diliman

**Development of New Antimicrobial *Anoplin* Lipopeptides**

Institute of Chemistry, University of the Philippines Diliman

**Development and Testing of an Integrated Tuberculosis-Paragonimiasis Surveillance and Control Project**

National Institutes of Health, University of the Philippines Manila

**Effect of Mosquito O/L Trap System in Reducing Dengue Incidence in Tacloban City**

Department of Health - Eastern Visayas

**Development of Hormone Attractant Contraction for Mosquito-Borne Viral Disease Affecting Humans**  
St. Luke's Medical Center

## **PCHRD-MONITORED PROJECTS**

### ***Completed***

**Pre-clinical Safety and Toxicity Studies on Virgin Coconut Oil (VCO)**  
Department of Pharmacology, University of the Philippines Manila

**Acute Toxicity and Phytochemical Requirements for VCO**

**Sub-chronic Toxicity Study on VCO**

**Special Toxicity Studies on VCO (dermal irritation and sensitization tests)**

### ***Ongoing***

**Microarray-Based Researches on Genetic Susceptibility to Diseases, Gene Expression Profiling, and Population Variations among Filipinos**  
National Institutes of Health, University of the Philippines Manila

**Collaborative Study on Subacute Sclerosing Panencephalitis (SSPE): A Candidate Gene Association Study with Responsiveness to Therapy**

**High Throughput Simultaneous Detection of Waterborne Parasitosis from Household, Recreational and Environmental Water Samples Using Microarray Technology**

**The Pan-Asia SNP (Single Nucleotide Polymorphism) Initiative**

**The Prevalence of CYP2D6 Gene Polymorphisms among Filipinos and Their Use as Biomarkers for Cancer Risk Among Those with Lung Cancer**

**Recombinant Protein Expression and Immunological Characterization of De-Antigenized Human Influenza H3 Hemmagglutinin**  
Marine Science Institute, University of the Philippines Diliman

**Prevention and Control of Leptospirosis in the Philippines**  
College of Public Health, University of the Philippines Manila

**Identification of Prevalent Leptospiral Serovars in the Philippines**

**A Study of the Environmental Determinants of Leptospirosis in Metro Manila using Geographic Information System (GIS)**

**Burden of Disease Study: Leptospirosis in an Urban Setting, Metro Manila**

**Larvicide for Dengue Vector Control**

**Laboratory Study on the Development, Performance Testing and Fabrication of an Ovicidal Trap System for *Aedes Mosquito***  
Industrial Technology Development Institute, Department of Science and Technology

**Field Testing of Ovicidal Trap System for *Aedes* Mosquito in Quezon City**  
Industrial Technology Development Institute, Department of Science and Technology

**Ovicidal Trap, An Anti Dengue Mosquito Device**  
College of Public Health, University of the Philippines Manila

**Roll-out of Ovicidal/Larvicidal Trap System for *Aedes* Mosquito**  
Industrial Technology Development Institute, Department of Science and Technology

**A Web-based Interactive Genome Library for the Surveillance, Detection, Characterization and Drug Resistance Monitoring of Influenza Virus Infection in the Philippines**  
National Institutes of Health, University of the Philippines Manila

**Isolation, Purification and Characterization of Proteins with Bioactive Peptides Exhibiting Anti-Hypertensive Activity from Winged Bean [*Psophocarpus tetragonolobus* (L.) DC]**  
Institute of Chemistry, University of the Philippines Los Baños

**Field-based Rapid Diagnostic Kit for the Early Diagnosis of Dengue: In-House LAMP Diagnostics for the Dengue Virus Infection in the Philippines (The Biotek-M Project)**  
National Institutes of Health, University of the Philippines Manila

**New**

**S&T Interventions to Address Malnutrition**  
Food and Nutrition Research Institute, Department of Science and Technology  
**Project 3: Technology Generation for the Production of Multi-nutrient Growth Mix**

**Antibody and Molecular Oncology Research 2 (AMOR2)**  
University of the Philippines Diliman  
**Generation of Recombinant Humanized Single-chain Fv (ScFv) targeted to TAG72 for the Construction of Immunoliposomes**

**Construction of Drug Immunoliposomes**

**DOST O/L Trap in Schools Nationwide**  
**Production of IM Ovi/Larvicidal Trap Kits for *Aedes* Mosquito for Distribution to the Department of Education**  
Industrial Technology Development Institute, Department of Science and Technology

**Deployment, Training and Monitoring of OL Traps in School-based OL Trap Roll-out**  
Department of Science and Technology - Regional Offices

**Development of Point of Care (POC) Diagnostic Test for Detecting Dengue Infection**  
St. Luke's Medical Center  
**Production of Probes and Antigens**

## **Regional Projects**

### ***Completed***

**Assessment on the Implementation of Tuberculosis Program Among Children in Santiago City**

Mr. Ralleigh F. Vizcarra, University of La Salette

**The Prevalence of Stress and Diabetes among Top-Level Managers in Metropolitan Santiago City**

Dr. Wilfrido F. Simbul, University of La Salette

**The Public-Private Mixed Directly Observed Treatment, Short-Course Chemotherapy (PPMD) Strategy of the National Tuberculosis Control Program (NTP) in Region 2**

Dr. Ramelo B. Ramirez, Cagayan Colleges Tuguegarao

**Analysis S. Japonica Cases admitted at the S. Control and Research Hospital from 1982-2008**

Dr. Bayani L. Blas, Remedios T. Romualdez Medical Foundation (RTRMF)

**Production and Evaluation of PRP-1, a Novel Antihypertensive protein from Yam**

Dr. Edgardo Tulin, Visayas State University

**The Pipe Water System in the City of Tacloban: Potability and Problems**

Mr. Agipino M. Limpiado, Remedios T. Romualdez Medical Foundation (RTRMF)

**Characterization of Bioactive Compounds of “Polypog”**

Dr. Gerry D. Ambait, Eastern Samar State University

**An Association between Nutritional Status and Academic Performance of Elementary School Children in the Dev. Of Eastern Samar**

Dr. Eva P. Palada, Eastern Samar State University

**Antimicrobial Screening of Indigenous Plants Second Year**

Dr. Dennis Esquivel, Remedios T. Romualdez Medical Foundation (RTRMF)

**Medication Management Systems of the Davao Doctors Hospital and Brokenshire Integrated Health Ministries Incorporated: A Strengths, Weaknesses and Opportunities Analysis**

Davao Doctors Hospital

### ***Ongoing***

**Microbial Analysis on the Quality of Drinking Water Sources in Metro Santiago: Its Implication in the Preventive Management of Water-Borne Diseases**

Mr. Ralleigh F. Vizcarra, University of La Salette

**Improving Enrollment Practices of LGUs in the Sponsored Programs of PHIC in Region 2**

Dr. Josephine D. Lorica, St. Paul University

**Patient's Knowledge on Tuberculosis and the Determinants of Treatment Compliance**  
Dr. Reynaldo Cruz, University of Regina Carmeli

**Patient and Health System Factors as Predictors to Delay in Tuberculosis Detection and Treatment in Region III**  
Dr. Al Bing, Holy Angel University

**Mobile e-Health for Health Centers**  
Lilibeth Tuimbol-Cuison, Angeles University Foundation

**Pharmacological Studies in Selected Medicinal Plants in Region III**  
Dr. Bella Panlilio, Angeles University Foundation

**The Effect of Euphorbia Hirta Oral Decoction on the Mean Platelet Counts and Megakaryocyte Counts of Carlpatin-induced Thrombocytopenic and Non-induced Mice for the period June 2008-November 2008**  
Dr. Edna A. Medez, West Visayas State University College of Medicine

**Hepatic and Renal Effects of Selected Nutraceuticals on White Mice (*Mus musculus*)**  
West Visayas State University

**Lead Contamination in Tea Produced in the Philippines**  
Dr. Maria Victoria Villareal, West Visayas State University

**The Effect of Guava Leaves Decoction on the pH Level of the Gastric Fluid of Rabbits**  
Ms. Ruth Jane Jover, West Visayas State University

**Women with Breast Cancer: Their Economic and Human Experiences**  
Prof. Irma P. Magsambol, UP School of Health Sciences

**Growth, Development and Population Dynamics Responses of *Aedes* sp. Mosquito to Increased Ambient Temperatures Phase I**  
Dr. Franco Teves, Mindanao State University-IIT

**PhilHealth Accredited Primary Birthing Facilities in Northern Mindanao**  
Dr. Numerino G. Escalante, Jr. et al, Capitol University

**Prevalence of Intestinal Helminthic Infection and Associated Socio-Demographic Variables among Schooling Children of the Public Elementary Schools of Maramag, Bukidnon**  
Mr. Christopher G. Batbatan, Central Mindanao University

**Health Promotion and Employment of Local Migrant Workers in Cagayan de Oro City**  
Ms. Donna Loue E. Neri, RN, MHSS, Liceo de Cahyan University

**Labor Migration and Health of the Children Left Behind Relationships & Implications**  
Dr. Numerino G. Escalante, Jr., Capitol University

**A Randomized, Double-blind, Placebo-controlled Clinical Trial on the Effectiveness and Safety of Turmeric (*Curcuma longa*) Tea on the Lipid Profiles of Hypercholesterolemic Patients**

Dr. Elvira Donado, Ateneo de Davao University

**Level of Information and Education Campaign on Solid Waste Management and Household Practices on Solid Waste Disposal in Butuan City**

Dr. Fernando Herrera, St. Joseph Institute of Technology

**An Ecological Study on the Presumed Impact of Climate Change and Seasonal Patterns on the Prevalence of Acute Respiratory Infections and on Health Services Utilization in Nueva Ecija from 1999 to 2008**

Dr. John Q. Wong, Ateneo de Manila University

***New***

**GIS-Based Descriptive Study of the Identified Common Diseases and the Geomorphologic and Climate Conditions of Selected Flood-Prone Communities in Bukidnon, Philippines**

Dr. Ricardo G. Villar, Central Mindanao University

**Prevalence of Urinary Tract Infection among Newborns in Selected Hospitals in Southern and Northern Bukidnon from January to December 2008**

Dr. Naluin G. Esdreton, Central Mindanao University

**Detection and Quantification of Antibiotic Residues in Different Kinds of Meat in Region 10: Detection and Quantification of Antibiotic Residues in Chicken Meat in Region 10**

Dr. Luzviminda T. Simborio, Central Mindanao University

**Some Herbal Weed Species: Their Biochemical and the Ethnomedical Health Practices of Native Herbalists in Bukidnon**

Dr. Andrea G. Azuelo, Central Mindanao University

**Antimicrobial Assay and Pharmacological Screening of Ten (10) Selected Philippine Medicinal Pteridophytes**

Dr. Victor B. Amoroso, Central Mindanao University

**Factors Influencing Infant Mortality in Northern Mindanao**

Ms. Comsuelo A. Reyes, Department of Health - Center for Health Development

**Philhealth Accredited Primary Birthing Facilities in Region X: A Baseline Assessment**

Dr. Numeriano G. Escalante, Capitol University

**Seasonal Variations of Air Borne Pollens and Flowering Patterns of Some Plants in Two Selected Sites of Maramag, Bukidnon in Relation to Incidence of Adult Asthma Attacks**

Dr. Florfe M. Acma, Central Mindanao University

**Comparative Study on the Antioxidant Capacity of Fresh Sargassum Water and Ethanol Extract Decoction Preparation Using ABTS (2.2' - Azinobis -ETHL) Benzothiazine-6-Sulfonic Acid) Radigal Cation Decolorization Assay**  
Apit, Shelou et. al College of Medicine, Davao Medical School Foundation Inc.

**A Comparative Study on the Effect of Centella asiatica Crude Extract and Silver Sulfadiazine on the Rate of Wound Healing of Decubitus Ulcer of Patients at Southern Philippines Medical Center**  
Baquirel, Shayne et. al, Davao Medical School Foundation Inc.

**Antimutagenic Effect of Chinese Hibiscus (Hibiscus rosa-sinensis) Extract Against Mitomycin C Using Modified Ames Salmonella Mutagenicity Test: A Pilot Study**  
Beniga, Jeanette et. al, Davao Medical School Foundation Inc.

**Comparative Study of the Effects of Malunggay (Moringa oleifera) Ethanol Extract and Ezetimide on the Lipid Profile of Guinea Pigs (Cavia porcellus)**  
Distor, Shella May et. al, Davao Medical School Foundation Inc.

**Acute Toxicity Dose and Approximate Effective Dose of Calabash (Crescentia cujete) Decoction as a Hypoglycemic Agent in Alloxan-induced Rabbits**  
Abdullah, Muhammad Razul et. al, Davao Medical School Foundation Inc.

**Acute Toxicity of Phyllanthus niruri Extract Using LD50 and its Effect on the Serum Alanine Aminotransferase Level of Acetaminophen-induced Liver Damage in Rabbits (Oryctolagus cuniculus)**  
Asis, Daniel Ivan et. al, Davao Medical School Foundation Inc.

**Knowledge and Adaptive Health Practices Among Residents of Region 1 Associated with Climate Change**  
Dr. Larguita Reotutar, University of Northern Philippines

**Patterns of Dengue Virus Infection in Region 1**  
Ms. Ma. Linda Q. Dumlao, University of Northern Philippines

**Health Care Financing in Region 1: An Evaluation**  
Ms. Maria Cristina Daligcon, Lyceum Northwestern University

**Factors Affecting Utilization of Mother and Child Care Program in Region 1**  
Dr. Raquel C. Pambid, Pangasinan State University-Bayambang Campus

**Impact of Devolution in the Delivery of Health Services in Region 1**  
Dr. Paulito C. Nisperos, Don Mariano Marcos Memorial State University

**Health Care Utilization Among the Indigenous People in Region 1**  
Dr. Mercedita Queddeng, University of Northern Philippines

**Shiftwork and Sleep Disorders among Hospital Pharmacists**  
Madonna M. Valenzuela, Angeles University Foundation

**Young People's Health: Challenges for Education and Intervention**  
Dr. Fiscalina Nolasco, University of San Carlos

**Effect of Mosquito Ovicidal/Larvicidal Trap System in the Reduction of Dengue Incidence in Tacloban City**  
PCHRD- DOST, DOH (Central Office and Eastern Visayas)

**Angiogenic Property of Small Non-Polar Molecules From *Arsidia* SW. Leaves**  
Dr. Consolacion Y. Ragasa, De La Salle University

**Glucosinolates in Selected Vegetables and Their Anti-Cancer Properties**  
Dr. Ma. Luisa D. Enriquez, De La Salle University

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**Christina Y. Loquere**  
MS Chemistry  
Mindanao State University - Iligan Institute of Technology

**Daryl Gene N. Magada**  
MS Asian Health Practices  
University of the East Ramon Magsaysay Memorial Medical Center

**Charmaine A. Malonzo**  
MS Microbiology  
University of the Philippines - Los Baños

**Kaycee G. Manuel**  
MSPH Epidemiology  
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**Emil G. Marzan**  
MSPH Epidemiology  
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**Janzen V. Mendez**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Nikki Yvette B. Mendoza**  
MSPH Medical Microbiology  
University of the Philippines - Manila

**Teddy Rowell U. Mondres**  
MSPH Epidemiology  
University of the Philippines - Manila

**Jason Paul C. Monlinong**  
MS Molecular Medicine  
St Luke's College of Medicine

**Lyndon D. Morales**  
MSPH Biostatistics  
University of the Philippines - Manila

**Francis G. Moria**  
MS Molecular Medicine  
St Luke's College of Medicine

**Kathyleen S. Nogrado**  
MSPH Medical Parasitology  
University of the Philippines - Manila

**Maria Michelle Joy P. Oco-Panganiban**  
MS Family and Communication Medicine  
University of the Philippines - Manila

**Jake Ryan B. Oliganga**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Alfons Jayson O. Pelgone**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Catherine Jane M. Placino**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Shienna Marie A. Pontillas**  
MS Chemistry  
University of the Philippines - Diliman

**Charles Darwin T. Racadio**  
MS Environmental Sciences  
University of the Philippines - Diliman

**Mark Anthony R. Rivera**  
MSPH Epidemiology  
University of the Philippines - Manila

**Emily V. Romero**  
MS Applied Nutrition  
University of the Philippines - Los Baños

**Mary Rose D. Rosario**  
MS Clinical Epidemiology  
University of the Philippines - Manila

**Fjorda Kim R. Rubian**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Kristina M. San Jose**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Alfon John T. Sayson**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Jan Michael B. Serdina**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Marikka Thaenia V. Solana**  
MS Clinical Medicine (Family Medicine)  
University of the Philippines - Manila

**Simonette C. Soriano**  
MS Clinical Epidemiology  
University of the Philippines - Manila

**Ava Kristy D. Sy**  
MS Microbiology  
University of Santo Tomas

**Dona May O. Taguba**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Franklin U. Toledo**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Marcelino D. Tradio Jr.**  
MS Chemistry  
University of San Carlos

**Isidro D. Ursua**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Madonna M. Valenzuela**  
MSPH Biostatistics  
University of the Philippines - Manila

**Warren S. Vidar**  
MS Chemistry  
University of Santo Tomas

**Estrella Grace M. Viguilla**  
MS Asian Health Practices  
University of the East Ramon Magsaysay Memorial Medical Center

**Namnama P. Villarta**  
MS Clinical Epidemiology  
University of the Philippines - Manila

**Karmille Allyson D. William**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Jennifer Maries G. Yap**  
MS Biological Science  
University of Santo Tomas

**Airnel T. Abarra**  
MS Human Movement Science  
University of the Philippines - Diliman

**Joshua B. Arimado**  
MS Pharmacy  
University of Santo Tomas

**Maria Fonseca Camille T. Baroña**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Enrique-Rene G. Bernabe**  
MS Pharmacy  
University of Santo Tomas

**Neri O. Camitan**  
MS Molecular Biology and Biotechnology  
University of the Philippines - Los Baños

**Kim L. Cochon**  
MSPH Biostatistics  
University of the Philippines - Manila

**Maria Lourdes Carmelle M. Daroy**  
MS Pharmacy  
University of Santo Tomas

**Paul Raymond S. Dimafelix**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Marya Laya O. Espaldon**  
MS Environmental Science and Management  
University of the Philippines - Los Baños

**April Dyan R. Furia**  
MSPH Biostatistics  
University of the Philippines - Manila

**Anna Katrina A. Javier**  
MSPH Epidemiology  
University of the Philippines - Manila

**Plebeian B. Medina**  
MS Medical Technology  
Philippine Women University

**Roderick M. Napulan**  
MSPH Biostatistics  
University of the Philippines - Manila

**Kristine M. Reyes**  
MS Occupational Health  
University of the Philippines - Manila

**Ruth Irene N. Reyes**  
MS Population Studies  
University of the Philippines - Diliman

**Christia May V. Sia**  
MS Applied Physics major in Medical Physics  
University of Santo Tomas

**Davidson B. Teh**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Hilda T. Uy**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Maybelle T. Beltran**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Catherine C. Cristobal**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Rommel J. Gestuveo**  
MS Molecular Medicine  
St Luke's College of Medicine

**Kent D. Kawashima**  
MS Molecular Medicine  
St Luke's College of Medicine

**Sheila H. Macatangay**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Celine Ivie T. Manuel**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Yves Y. Palad**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**John Joseph B. Posadas**  
MS Asian Health Practices  
University of the East Ramon Magsaysay Memorial Medical Center

**Marylette B. Roa**  
MS Molecular Medicine  
St Luke's College of Medicine

**Noel C. Salvoza**  
MS Molecular Medicine  
St Luke's College of Medicine

**Vanessa L. Sardan**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Rehjin L. Tuballes**  
MS Molecular Medicine  
St Luke's College of Medicine

**Jortan O. Tun**  
MS Molecular Medicine  
St Luke's College of Medicine

**Ronichie-Doll N. Velasco**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Cynthia V. Verzosa-Canta**  
MS Molecular Medicine  
St Luke's College of Medicine

***New***

**Charisse Gennevieve B. Ballad**  
MS Tropical Medicine  
University of the East Ramon Magsaysay Memorial Medical Center

**Ralph Julius G. Bawalan**  
MS Tropical Medicine  
University of the East Ramon Magsaysay Memorial Medical Center

**Benida A. Fontanilla**  
MS Tropical Medicine  
University of the East Ramon Magsaysay Memorial Medical Center

**Carmina Clarice D. Lopez-Visconde**  
MS Tropical Medicine  
University of the East Ramon Magsaysay Memorial Medical Center

**Jamie Rosemarie M. Nailes**  
MS Tropical Medicine  
University of the East Ramon Magsaysay Memorial Medical Center

**Dissertation Grantees**

***Completed***

**Shiela R. Bonito**  
DrPH Epidemiology  
University of the Philippines - Manila  
*"Correlates, Burden of Disease and Economic Costs of Asthma"*

**Ruby J. Apilado**

PhD Food Science

University of the Philippines - Diliman

*“Response Surface for Bacillus cereus Germination in Iron Fortified Rice During Hold-On and Reheating”*

**Erna C. Arollado**

PhD Pharmacy

University of Santo Tomas

*“The Effect of Alternative Sessilis on Hemoglobin Augmentation in Iron Deficiency Anemia”*

**Ongoing**

**Soledad S. Castañeda**

PhD Environmental Science

University of the Philippines - Diliman

*“Isotope and Chemical Techniques in Assessing the Vulnerability of Critical Fresh Water Sources in Metro Manila”*

**Marla Pura R. Rayco-Solon**

PhD Epidemiology and Population Health

London School of Hygiene and Tropical Medicine

*“Nutrient-gene Regulation of Birth Size and Post Natal Growth”*

**Juan Antonio A. Solon**

PhD Epidemiology and Population Health

London School of Hygiene and Tropical Medicine

*“Mucosal Immunity in Severely Malnourished Children”*

**Janet P. Macawile**

PhD Biology

De La Salle University

*“Epithelial micronuclei occurrence and hair lead concentrations among public and private school children in the municipalities of Bacoor and Alfonso, Cavite, Philippines”*

**Thesis Grantees**

**Completed**

**Gemma N. Balein**

MS Bioethics

University of the Philippines - Diliman

*“Factors associated with good death as perceived by terminally ill patients, family members and health care providers”*

**Maricel Q. Corpuz**

MS Biology

Ateneo de Manila University

*“Identification and Cloning of Ribosome-Inactivating Protein (RIP) Genes in Selected Species of the Euphorbiaceae Family”*

**Roldan M. De Guia**

MS Biological Science

University of Santo Tomas

*“Polymorphisms of the IL4, MS4A2 and CD14 Genes and the Risk of Allergic Disorders in a Selected Filipino Population”*

**Ma. Irene P. Dela Cruz**

MS Biochemistry

University of the Philippines - Diliman

*“Development of an Indirect Double-antibody Sandwich ELISA for the Detection of Brugia Malayi as Paraginyt-tRNA Synthetase Antigen”*

**Vanissa A. Ong**

MS Microbiology

University of the Philippines - Diliman

*“Development and Evaluation of Polyclonal Antibody Based Enzyme-linked Immunosorbent Assay for the Detection of Trichomonas vaginalis in Vaginal Swabs”*

**Maria Ruth B. Pineda**

MS Medical Technology

University of Santo Tomas

*“Effect of Philippine Red Allium cepa Lin. (Sibuyas na Pula) on Serum LDL Cholesterol Level”*

**Herbert J. Santos**

MS Microbiology

University of the Philippines - Diliman

*“Kinetic Analysis of Antibody Responses to Blastocytis Hominis in Sera and Intestinal Secretions from Orally Infected Mice and Partial Characterization of Target Antigens”*

**Demetrio L. Valle Jr.**

MS Microbiology

University of the Philippines - Diliman

*“Evaluation of Polymerase Chain Reaction (PCR) and Culture of Buffy Coat, Whole Blood PCR in Comparison with Whole Blood Culture for Detection of Bacteremia”*

**Kathleen G. Bersabal**

MS Pharmacy

University of the Immaculate Conception

*“High Performance Liquid Chromatographic Assay for Potency and Content Uniformity of Generic Amoxicillin from Selected Drugstores in Davao City”*

**Aileen R. De Juras**

MS Applied Nutrition

University of the Philippines - Los Baños

*“Evaluation of the Sagip Putla Program: Anemia Detection and Treatment in Bulakan, Bulacan, Philippines”*

**Gina O. Castro**

MS Pharmacy

University of Santo Tomas

*“Determination of the Antioxidant, Anti-angiogenic and Antimutagenic Properties of the Metabolic Leaf Extract of Greeniopsis Sibuyanensis (ELM.) (Rubiaceae)”*

**Ana Lorraine D. De La Vega**

MS Applied Nutrition

University of the Philippines - Los Baños

*“Factors Affecting the Nutritional Status of Iraya Mangyan Young Children (7-23 Months) in Abra De Ilog, Occidental Mindoro, Philippines”*

**Mona Liza H. Flores**

MS Pharmacology

University of the Philippines - Manila

*“Acute Oral and Acute Dermal Toxicity of the Aqueous Extract from Tubers of Dioscorea hispida Dennst. In Sprague-Dawley Rats”*

**May T. Magtoto**

MS Pharmacy

University of Santo Tomas

*“Suitability of the Gum From the Bark of Antipolo Tree (Atrocarpus blancoi (Elmer) Merr.) as Drug Suspending Agent “*

**Bienvenido S. Balotro**

MS Industrial Pharmacy

University of the Philippines - Manila

*“Safety, Efficacy and Stability of a Pediculicidal Hair Cream from the Methanolic Extract of the Stem of Tinospora Crispa’ (L) Hook f. and Thoms”*

**Dianne L. Dizon**

MS Microbiology

University of Santo Tomas

*“Marine Fungi Associated with Seagrasses of Lubang Island: Diversity and Assessment of their Antibacterial Activities”*

**Mary Ann H. Lucena**

MS Biology

Mindanao State University - Iligan Institute of Technology

*“DNA Fingerprinting and Prevalence of Extended Spectrum B-Lactamase-Producing Enterobacteriaceae from Clinical Samples at Mindanao Sanitarium and Hospital, Iligan City”*

**Candids Patrice A. Reyes**

MS Biochemistry

University of the Philippines - Manila

*“Oral Microbial Diversity Analysis of Caries-Free and Caries-Active Healthy Filipino Adults through 16s Ribosomal RNA Gene”*

**Ma. Peñafrancia L. Adversario**

MSPH Biostatistics

University of the Philippines - Manila

*“Identifying Lifestyle Patterns Among Filipinos Using Cluster and Latent Class Analysis”*

**Nathalie L. Daminar**

MS Chemistry

Mindanao State University - Iligan Institute of Technology

*“Isolation, Partial Characterization and Blomolecular Chemical Screening for DNA-Binding Property of Bioactive Metabolite from the Aerial Part of Hydrocotyle verticillata (Whorled Marsh pennyworth)”*

**Benedict A. Maralit**

MS Biological Science

University of Santo Tomas

*“Novel Primers for Molecular Diagnostic in White Spot Virus from Farmed Pacific White Shrimp (Litopenaeus vannamei) in the Philippines”*

**Bridith S. Peñaranda**

MSPH Biostatistics

University of the Philippines - Manila

*“Frailty Modeling of Cardiovascular Risk Factors among Filipinos”*

### **Ongoing**

**Heidie L. Frisco**

MS Biochemistry

University of the Philippines - Manila

*“Detection and genotyping of Helicobacter pylori from biopsy specimens from the gastric antrum and corps of PGH patients using multiple PCR”*

**Jaime C. Montoya**

MS Bioethics

University of the Philippines - Diliman

*“Validation of the Emanuel Criteria for Determination of Undue Inducement of Research Participants in Clinical Trials Research: Philippine Context”*

**Anna Muriel T. Jacinto**

MS Pharmacy

University of Santo Tomas

*“Comparative Antimicrobial Property of the Matured Trunk and Stem Bark Extract of Tamarindus indica Linn., Preformulation, Development and Quality Control of Cream”*

**Levi Letlet H. Larcia II**

MS Biochemistry

University of the Philippines - Manila

*“A Study of the Bacterial Profile of Philippine Fermented Mustard (Burong Mustasa) through Culture-Independent Methods”*

**James Christopher C. Chua**

MSPH Medical Parasitology

University of the Philippines - Manila

*“Morphometric and Genetic Comparison of Oncomelania Hupensis Quadrasi (Mollendorf Gastropoda: Pomatiopsidae) Geographic Isolates in the Philippines”*

**Maria Cesthrine Jane V. Javier**

MS Pharmacology

University of the Philippines - Manila

*“Acute Oral and Acute Dermal Toxicity of Aqueous Extract of Gemelina arborea Roxb (Family Verbenaceae) Leaves”*

**Giane Paula P. Ruiz**

MS Pharmacy

Centro Escolar University

*“Effect of Glycine Soja (Soybeans) on the lipid profile tests of Sprague Dawley rats”*

**Vanessa M. Manila**

MA Health Policy

University of the Philippines - Manila

*“Analysis and evaluation of policies implementing the advanced practice nursing in the Philippines”*

**Alfie Dominic A. Maypa**

MS Medical Technology

University of Santo Tomas

*“Association between Homocysteine and Coronary Artery disease among Filipino Patients”*

**Irene Jane M. Montoya**

MS Pharmacy

University of Santo Tomas

*“Evaluation of the Potential Antinociceptive and Anti-Inflammatory Effects of the Leaf Extract of Premna Odorata Blanco (Verbenaceae)”*

**Aaron Jan S. Palmares**

MS Medical Technology

University of Santo Tomas

*“Comparison of Techniques for Extracting Viral RNA in Buffy Coat and Plasma for Dnegue Diagnosis by RT-PCR during the Febrile Period of Infection”*

**Paul Marvin T. Quizon**

MS Pharmacy

University of the Philippines - Manila

*“In Vitro Equivalence Testing of Immediate-Release Tablets using A Model-Independent Mathematical Approach”*

**Pricilla Alice L. Samonte**

MS Chemistry

University of Santo Tomas

*“Dietary Fiber Composition and Antioxidant Activity of Common Fruit Peels as Functional Food Ingredient”*

**Jonathan Carlo A. Briones**

MS Biological Science

University of Santo Tomas

*“Determining the Impact of Lake Biwa’s Eutrophication on Gymnogobius isaza through diet analysis on Museum Specimens”*

**Renz Kenneth G. Cadiang**

MS Pharmacy

University of Santo Tomas

*“In Vitro Screening of the Vacular Activity of Diospyros Philippinensis (Ebenaceae)”*

### **III. Regional Training, Seminars, and Workshops**

**NorMinCoHRD Health Research Forum**

N Hotel Kauswagan, Cagayan de Oro City

13 December 2011

**Training on HERDIN NeoN System**

DOST-8 Conference Room, Tacloban City

6 December 2011

**Training Workshop on Research proposal Making, Writing for Publication and Research Mentoring**

Villa Lolita Apartelle, Tacloban City

5-9 December 2011

**CVHRDC Health Research Forum**

DOST-2 Conference Room, Tuguegarao City, Cagayan

5-6 December 2011

**Training on HERDIN NeON System**

DOH-Center for Health Development-Region IV A

2 December 2011

**Seminar- Workshop on Writing for International Publication**

Angeles University Foundation, Angeles City, Pampanga

17-19 November 2011

**Forum on Communicating Research Findings**

UP Baguio, Baguio City

16 November 2011

**Ethics Review Training**

Marcian Garden Hotel, Zamboanga City

10-11 November 2011

**Writershop on Technical Writing**  
Pearlmount Inn, Cagayan de Oro City  
8-9 November 2011

**Advocacy Forum on the Tire Pyrolysis Problem in Bulacan**  
La Consolacion University Philippines, City of Malolos Bulacan  
8 November 2011

**Training Workshop on “Statistical Analysis Using Microcomputers and Epi-Info 2000 Statistical Software”**  
DOST-2 Conference Room, Tuguegarao City, Cagayan  
24-26 October 2011

**Training on Technical Writing**  
DOST-6 Conference Room, Iloilo City  
28-30 September 2011

**Basic Ethics Review Training-Workshop**  
Holy Angel University, Angeles City  
22-23 September 2011

**Training on Statistical Methods**  
DOST-6 Conference Room, Iloilo City  
14-16 September 2011

**Training on Intellectual Property Rights**  
Mall of the Valley, Tuguegarao City, Cagayan  
13 September 2011

**Training on Basic Health Research Methods**  
DOST-6 Conference Room, Iloilo City  
31 August - 2 September 2011

**Orientation Forum on Health Research**  
Romblon State University, Odiongan, Romblon  
25 August 2011

**Regional Health Research Summit**  
Grand Astoria Hotel, Zamboanga City  
17-18 August 2011

**Training on Qualitative Data Analysis: “Making Sense Out of Qualitative Data”**  
University of the Philippines, Baguio  
23-25 May 2011

**CLHRDC Health Research Forum and Poster Exhibit**  
Holy Angel University, Angeles City, Pampanga  
13 April 2011

**Training on Herdin NeoN System**  
Davao Medical School Foundation Inc., Bajada, Davao City  
28 March 2011

**CVHRDC Health Research Forum**  
7 March 7 2011  
University of La Salette, Santiago City, Isabela

**Launching of the Roll-out of the Ovicidal/Larvicidal Trap System**  
Balyuan Convention Center, Tacloban City  
19 February 2011

**Training on Statistics and Data Analysis**  
Regional Training Center, DOH-CAR, Baguio City  
27-28 January 2011

**CARAGA Health Research Forum**  
DOST-Caraga Function Hall, Ampayon, Butuan City  
12 January 2011

**IV. Health Research Dissemination Activities Conducted/Participated In (Fora, Symposia, Conferences, Fairs, Exhibits)**

**High-Level All-stakeholders Meeting on Convergence and Harmonization: Clinical Trials and Achieving Good Clinical Practice (GCP) Goals in the Philippines**  
De La Salle Angelo King Medical Research Center, Dasmaringas City, Cavite  
24 November 2011

**7th National Biotechnology Week (NBW)**  
DENR, Visayas Avenue, Diliman, Quezon City  
21-26 November 2011

**MMHRDC Research Forum on Hearing Impairment**  
De La Salle University, Manila  
18 November 2011

**12th National Health Research Forum for Action**  
Pan Pacific Hotel, Manila  
14-15 November 2011

**1<sup>st</sup> ASEAN Network for Drugs, Diagnostics and Vaccines Innovation (ASEAN-NDI) Task Force Meeting**  
Dusit Thani Manila Hotel, Makati City  
20 October 2011

**Consultative Meeting on Proposal Development on Impact of Climate Change on Emerging and Re-Emerging Infectious Diseases**  
Dusit Thani Manila Hotel, Makati City  
20 October 2011

**OL trap: The DOST School-based OL Trap Program**  
DOST Metrology Conference Hall, Bicutan, Taguig City  
12 October 2011

**Regional Health Research and Development Consortia (RHRDC) Project Staff Orientation**  
DOST Executive Lounge, Bicutan, Taguig City  
6-7 October 2011

**DOST Dengue Summit**  
DOST Executive Lounge, Bicutan, Taguig City  
8 September 2011

**MMHRDC Research Forum on Healthy Lungs, Clean Air and Good Life**  
Manila Doctors Hospital  
26 August 2011

**“Aksyon Barangay Kontra Dengue” (ABaKaDa) Campaign**  
Barangay Bagbag, Quezon City  
25 August 2011

**5<sup>th</sup> Philippine National Health Research System (PNHRS) Week Celebration**  
L' Fisher Hotel, Bacolod City  
10-12 August 2011

**Expo Science 2011 (NSTW Celebration)**  
SMX Convention Center, Mall of Asia, Pasay City  
27-30 July 2011

**NAST 33rd Annual Scientific Meeting (ASM)**  
Manila Hotel  
13-14 July 2011

**Local Biotechnology Leadership Camp (BioCamp)**  
Asian Institute of Management (AIM), Makati City  
11 July 2011

**37<sup>th</sup> Food and Nutrition Research Institute (FNRI) Seminar Series**  
FNRI Auditorium, Bicutan, Taguig City  
4-5 July 2011

**ASEAN Dengue Day**  
Gregoria De Jesus Elementary School, Poblacion District, Caloocan City  
15 June 2011

**Regional Launching and Orientation cum Training on OL Trap System**  
Legazpi City, Albay  
7 June 2011

**Philippine Health Social Science Association (PHSSA) National Conference**  
RB Espiritu Auditorium, Sentro Oftalmologico, PGH Manila  
30 April 2011

**RITM @ 30: Contributing to Science and Public Health**  
Crowne Plaza Hotel, Ortigas Center, Pasig City  
26 April 2011

**Executive Management Seminar on the Establishment of a Medical Cyclotron/PET Service Facility**  
Crowne Plaza Galleria, Mandaluyong City  
23 March 2011

**PCHRD 29<sup>th</sup> Anniversary**  
Hyatt Hotel and Casino, Manila  
18 March 2011

**3<sup>rd</sup> PhilSHIFT Colloquium**  
College of Public Health, UP Manila  
11 March 2011

**National Launching of the OL Trap System**  
Kamaranan Hall, Provincial Capitol, Tuguegarao City  
7 March 2011

**6th Asian-Pacific Organization for Cell Biology Congress**  
EDSA Shangri-la Hotel, Manila  
25-28 February 2011

**13th NIH Anniversary and 9th University Science and Technology Week Celebration**  
Century Park Hotel, Manila  
11 February 2011

**Seminar on Technology and the Cells**  
DOST Executive Lounge  
10 February 2011

**V. International Conferences, Meetings, Training and Fora Participated in by PCHRD**

**4<sup>th</sup> South East Asia-European Network (SEA-EU-Net) Annual Steering Committee Meeting and Stakeholder's Conference**  
Hanoi, Viet Nam  
14-17 November 2011

**Training-Workshop on the WPRIM Database**  
Chengdu, China  
27-29 October 2011

**2011 VCTR Annual Network Meeting for Genetic Strategies for the Control of Dengue Virus Transmission**  
Hyatt Regency Newport Beach, California  
25-27 August 2011

**11<sup>th</sup> Science Council of Asia (SCA) Conference**  
Ulaanbaatar, Mongolia  
4-6 July 2011

## **Asia Pacific Seasonal Influenza Advisory Board Meeting**

Singapore

24 June 2011

## **61<sup>st</sup> Meeting of the ASEAN Committee on Science and Technology, Sub-Committees and Other Related Activities**

Siem Reap, Cambodia

9-10 May 2011

## **4<sup>th</sup> ICSU Regional Consultation in Asia and the Pacific**

Kuala Lumpur, Malaysia

18-19 April 2011

## **International Council for Scientific Union/United Nations Educational, Scientific and Cultural Organization (ICSU/UNESCO Rio+20) Regional Workshop for Asia and the Pacific**

Kuala Lumpur, Malaysia

16-18 April 2011

## **3<sup>rd</sup> Meeting of Science Planning Group and Stakeholders Workshop on Health and Wellbeing in the Changing Urban Environment**

Kuala Lumpur, Malaysia

23-25 February 2011

## **Media Mileage**

### ***Print***

#### **DoST pushes genome-based research**

14 December 2011, Manila Bulletin

#### **Eating 'yam' advised for hypertension**

04 November 2011, Manila Bulletin

#### **Group proposes genetically modified mosquitoes to fight dengue**

14 September 2011, Philippine Daily Inquirer

#### **Drug program eyes multinational tie-up**

21 August 2011, Manila Bulletin

#### **Gov't ready to distribute 81,000 anti dengue traps**

20 August 2011, Philippine Daily Inquirer

#### **5<sup>th</sup> PNHRs Week showcases health R&D in Bacolod**

12 August 2011, Sun Star Bacolod

#### **Health consortium urges passage of health research bill**

11 August 2011, Philippine Information Agency

#### **National Health Research System Week**

11 August 2011, Manila Bulletin

**A different kind of camp in Switzerland**

07 August 2011, Philippine Daily Inquirer

**How does one value the product of one's mind?**

24 July 2011, Philippine Daily Inquirer

**DOST graduate scholarship qualifiers known**

25 June 2011, Manila Bulletin

**Misconceptions hamper government's rabies drive**

22 June 2011, Manila Bulletin

**Prisoners fall easy prey to TB - study**

14 May 2011, Manila Bulletin

**PNHRS Week highlights research-based solutions to country's health problems**

13 May 2011, Philippine Information Agency

**Philippine Association of Medical Journal Editors established**

11 May 2011, Philippine Daily Inquirer

**Want to prevent Alzheimer's? Don't forget ballroom dancing**

25 April 2011, Malaya

**'RxBox' brings medical advice to country's poorest households**

19 April 2011, Malaya

**RxBox boosts countryside health services**

17 April 2011, The Philippine Star

**Drive vs dengue pressed**

15 April 2011, Manila Bulletin

**DoST confident mosquito population will drop during rainy season**

14 April 2011, Manila Bulletin

**Herbal, marine drugs get shot in the arm**

08 April 2011, Manila Bulletin

**DoST to launch nutrition improvement program**

06 April 2011, Manila Bulletin

**More mosquito trap kits readied for rainy season**

01 April 2011, Manila Bulletin

**Filipino firm granted license to distribute lagundi syrup**

24 March 2011, Manila Bulletin

**Proposed law to boost health research fund**

20 March 2011, Manila Bulletin

**Local herbal industry to get boost from emerging clinical testing centers-CHIP**

17 March 2011, Manila Bulletin

**DOST, DOH unveil anti-dengue fighter**

21 February 2011, Malaya

**Dengue prevention and control - Dr. Lilian de las Llagas**

19 February 2011, Tacloban Star

**Water bacteria found to kill mosquito larva**

12 February 2011, Manila Bulletin

**Dengue early detection kit soon out**

05 January 2011, Manila Bulletin

## **Radio**

**Lancet in Southeast Asia (Dr. Jose Acuin)**

14 November 2011, DZXL

**Non-communicable diseases (NCDs) in the Philippines (Dr. Antonio Dans)**

14 November 2011, DZXL

**Dengue surveillance and monitoring (Dr. Jaime Montoya)**

12 September 2011, DZMM

**Genetically Modified Mosquitoes (Dr. Jaime C. Montoya)**

12 September 2011, DWAD

**GM mosquito (Dr. Luke Alphy)**

12 September 2011, DZMM

**Health R&D Directions (Dr. Jaime C. Montoya)**

8 September 2011, DZXL

**Herbal Medicine for Dengue Treatment (Dr. Antonio Ligsay)**

8 September 2011, DZXL

**Genomics (Dr. Antonio Ligsay)**

8 September 2011, DZXL

**Telehealth program (Dr. Angela Wee)**

27 July 2011, DWAD

**Dengue program directions in the country (Dr. Antonio Ligsay)**

23 August 2011, DWAD

**School-based OL trap program - Dr. Teresita Fortuna**

19 August 2011, DZAL

**OL trap program (Dr. Nuna Almanzor)**

19 August 2011, DZAL

**OL trap program (Dr. Nuna Almanzor)**

19 August 2011, DWAD

**Rabies program in Region II (Dr. Roberto Macatuggal)**

11 August 2011, Aksyon Radyo Bacolod

**PNHRS Week (Dr. Jaime C. Montoya)**

10 August 2011, Aksyon Radyo Bacolod

**PNHRS Week (Dr. Jaime C. Montoya)**

10 August 2011, DYWB

**RX box (Dr. Luis Sison)**

27 July 2011, DZXL

**Functional Foods (Dr. Jaime C. Montoya)**

28 May 2011, DZXL

**PCHRD Anniversary (Dr. Jaime Montoya)**

18 March 2011, DWIZ

**Dengue (Dr. Jaime C. Montoya)**

31 January 2011, DZBB

**Genomics (Dr. Antonio Ligsay)**

31 January 2011, DZBB

## **Television**

**Roundtable Discussion on Genetically-Modified Mosquitoes and their Role in Dengue Control**

13 September 2011, TV Patrol, ABS-CBN

**Genetically Modified Mosquitoes (Dr. Jaime C. Montoya)**

12 September 2011, TV Patrol, ABS-CBN

**Health R&D Directions (Dr. Antonio Ligsay)**

23 August 2011, TV 5

**School-based OL trap program (Dr. Teresita Fortuna)**

19 August 2011, GMA-7

**OL trap program (Dr. Nuna Almanzor)**

19 August 2011, ABS-CBN

**OL trap program (Dr. Nuna Almanzor)**

19 August 2011, GMA-7

**OL trap program (Dr. Antonio Ligsay)**

19 August 2011, TV 5

**5<sup>th</sup> PNHRS Week**

11 August 2011, GMA Bacolod

**OL Trap**

27 July 2011, TV 5

**OL Trap**

27 July 2011, GMA-7

**OL Trap**

27 July 2011, ABS-CBN

**OL Trap**

27 July 2011, NBN-4

**Rx Box (Dr. Luis Sison and Dr. Angela Wee)**

27 July 2011, ABS-CBN

**Rx Box**

27 July 2011, NBN-4

**Rx Box**

27 July 2011, GMA-7

**Biotek-M**

27 July 2011, ABS-CBN

**PCHRD 29<sup>th</sup> Anniversary**

18 March 2011, RPN-9

**PCHRD 29<sup>th</sup> Anniversary**

18 March 2011, NBN-4

**PCHRD 29<sup>th</sup> Anniversary**

18 March 2011, GMA-7

**PCHRD 29<sup>th</sup> Anniversary (Dr. Jaime Montoya)**

18 March 2011, IBC-13

**OL Trap (Dr. Antonio Ligsay)**

17 February 2011, NBN-4

## Online

### **Stakeholders ink support for ethical, GCP-compliant clinical trials**

*PCHRD Website, December 15, 2011*

### **PCHRD addresses concerns of MS & PhD scholars**

*PCHRD Website, December 02, 2011*

### **NCDs are sickness of poverty not of affluence**

*PCHRD Website, November 25, 2011*

### **Study reveals natural anti-hypertensive property of yam**

*PCHRD Website, November 04, 2011*

### **ASEAN member states tackles impact of climate change on infectious diseases**

*PCHRD Website, November 03, 2011*

### **PCHRD strengthens its presence in the regions**

*PCHRD Website, October 27, 2011*

### **When mosquitoes become dengue vectors**

*PCHRD Website, October 26, 2011*

### **DOST holds seminar on OL trap, prepares trainers for nationwide school-based OL trap distribution**

*PCHRD Website, October 19, 2011*

### **Acta Medica Philippina accepted for inclusion in Scopus**

*PCHRD Website, October 14, 2011*

### **ASEAN Member States to address impact of climate change on vector-borne disease outbreaks**

*PCHRD Website, October 13, 2011*

### **Healthcare workers in tertiary hospitals more at risk of acquiring TB infection, study says**

*PCHRD Website, October 11, 2011*

### **PCHRD Governing Council approves new set of R&D projects**

*PCHRD Website, October 11, 2011*

### **Institutional sharing of information and expertise made easy through HERDIN NEON**

*PCHRD Website, September 30, 2011*

### **DOST Dengue Summit tackles R&D directions in dengue prevention and control**

*PCHRD Website, September 09, 2011*

### **MMHRDC conducts research forum, advocates healthy lungs for a healthy life**

*PCHRD Website, September 09, 2011*

**PCHRD-Gruppo Medica recognizes outstanding undergraduate thesis in herbal medicine**

*PCHRD Website, September 09, 2011*

**PNHRS advocates research translation, launches first Lancet South Southeast Asia Series**

*PCHRD Website, August 24, 2011*

**PNHRS week opens with good news**

*PCHRD Website, August 11, 2011*

**WV institutions to showcase health researches, activities in Bacolod**

*Philippine Information Agency Website, August 10, 2011*

**Local researchers in Zambo to participate in health, science and technology research competition in Bacolod City**

*Philippine Information Agency Website, August 05, 2011*

**DOST and Novartis hold 4th Local BioCamp**

*PCHRD Website, July 14, 2011*

**DOST promotes whole grain as nutritious staple for Filipinos**

*PCHRD Website, July 14, 2011*

**DOST cooking challenge presents different ways of serving brown rice**

*PCHRD Website, July 14, 2011*

**UP-DOST telemedicine project discovers rare skin disease in Mindanao tribe**

*PCHRD Website, July 05, 2011*

**DOST welcomes 2nd batch of scholars for MD-PhD scholarship program on Molecular Medicine**

*PCHRD Website, June 28, 2011*

**First ASEAN Dengue Day promotes DOST OL mosquito trap**

*PCHRD Website, June 22, 2011*

**Intensify campaign on anti-rabies law awareness, study says**

*PCHRD Website, June 21, 2011*

**Finalists compete for PCHRD-Gruppo Medica Award**

*PCHRD Website, June 21, 2011*

**Government agencies, allies to bring dengue cases down in Bicol Region**

*PCHRD Website, June 10, 2011*

**5<sup>th</sup> PNHRS Week celebration to highlight innovations for better health**

*PCHRD Website, May 20, 2011*

**PAMJE, to raise quality of health journal publishing in the country**

*PCHRD Website, May 18, 2011*

**Ovi, larvicidal trap system for dengue-carrying mosquito -**  
*Philippine Information Agency Website, May 18, 2011*

**DOST employs S&T interventions to address malnutrition**  
*PCHRD Website, May 12, 2011*

**Prevalence of Tuberculosis in Prisons Studied**  
*PCHRD Website, May 12, 2011*

**DOST, DOH to launch dengue mosquito trap**  
*Mindanao Gold Star Daily Website, May 10, 2011*

**DOST-DOH ink partnership to strengthen healthcare programs in the country**  
*PCHRD Website, April 15, 2011*

**DoST, DoH join forces to reduce dengue cases**  
*Philippine Information Agency Website, April 15, 2011*

**RP to set-up Medical Cyclotron or Positron Emission Tomography service facility**  
*PCHRD Website, April 05, 2011*

**Experts to conduct studies on the effects of shift-work to Filipino workers**  
*PCHRD Website, April 04, 2011*

**PCHRD showcases local health technologies and innovations on its 29th anniversary**  
*PCHRD Website, April 01, 2011*

**PCHRD on its 29<sup>th</sup> year**  
*Diaryong Tagalog, March 29 2011*

**Feature :Ika-29 na taon ng PCHRD: Mga hamon at pagbabago sa local health technologies**  
*Philippine Information Agency Website, March 18, 2011*

**Cagayan Valley is set to fight dengue**  
*PCHRD Website, March 09, 2011*

**OL Mosquito Trap: The science of mosquito control and dengue prevention**  
*PCHRD Website, March 03, 2011*

**Leyte local executives support DOST-DOH OL mosquito trap program**  
*PCHRD Website, March 03, 2011*

**6th APOCB congress tackles impact and challenges in cell biology**  
*PCHRD Website, March 03, 2011*

**PCHRD's 29th year: Challenges and Innovations in Local Health Technologies**  
*PCHRD Website, February 22, 2011*

**UP Manila signs first license agreement for the technology of Lagundi syrup**  
*PCHRD Website, February 16, 2011*

**PCHRD transfers technology entitlement on medicinal plant to UP Manila**  
*PCHRD Website, February 16, 2011*

**ASEAN delegates consolidated results of R & D mapping for infectious diseases**  
*PCHRD Website, January 17, 2011*