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***PCHRD: 25 Years of Making Lives Better for the Filipinos***

**2007 Annual Report**

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**Philippine Council for Health Research and Development**  
Department of Science and Technology

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(About PCHR)

The Philippine Council for Health Research and Development (PCHR) is one of the five sectoral councils of the Department of Science and Technology. It 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, PCHR has brought technical excellence with a soul into fulfilling its mandate.

The primordial source of health research leadership and direction in the country, PCHR resolves to foster healthier and more productive lives among the Filipinos through health 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 health knowledge, technologies, and innovations, and ensure their utilization
- Practise good governance to effectively perform the Council's role of leading, managing, and coordinating the health research system

### **Vision for the Nation**

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

## **Message from the Secretary**

### **On the Cutting Edge**

The Philippine Council for Health Research and Development is a forward-looking agency of the Department of Science and Technology that is on the cutting edge of health research.

It was a milestone year for the PCHRD in 2007 as it celebrated its 25<sup>th</sup> year of steering and crafting priorities in local health research, a quarter of a century of responding to the health needs of the nation capped with remarkable achievements, from undertaking research that were translated into official government policies and programs to developing devices and technologies that are now part of daily medical care.

PCHRD does not sit on its laurels, realizing that many research outputs have yet to be realized on the ground level for delivery to urban health centers and to the most remote outposts of health services in the provinces.

To bridge the big divide from laboratories to communities, PCHRD has put into high gear initiatives that bring research results to the realm of small and medium enterprises to ultimately benefit households and communities.

PCHRD has initiated public consultations so that citizens have a voice in the formulation of health policies and programs and translate research results into effective government priorities.

The Council is pioneering efforts to link scientific evidence with policy making, making available research results to policy makers who, in turn, craft health agenda that impact the daily delivery of health products and services.

Because of its diligent search for relevance, PCHRD has made health research, science and technology more attuned to making health care – and lives – better.

**ESTRELLA F. ALABASTRO, PhD**

## **Message from the Executive Director**

### **Closer to Our Vision**

The year 2007 brought us closer to the vision of the Philippine Council for Health Research and Development for a dynamic and responsive health research community working for the better health of all Filipinos.

As we celebrated the Council's 25<sup>th</sup> year, we also reflected on where we have been and where the future leads us and pondered the impact that we have made on Philippine health research and development.

No less significant was the recognition given by President Gloria Macapagal-Arroyo by proclaiming every second week of August as Philippine National Health Research System (PNHRS) Week to promote exchange of health research and information among health stakeholders in support of the government's health policy and programs.

We started to remedy the meager income that characterize health R&D by supporting a bill now before Congress that seeks to secure sufficient and stable funds from the income of revenue-generating government institutions.

The Council promoted ethics in health researches involving human subjects. It launched NeoN (Network-of-Networks) that complements an online database that has close to 49,000 records, with 3,078 new entries added in 2007, serving over 40,000 information users through various media, including the internet.

We are developing recombinant vaccines against influenza. And our Cancer Genetics Program comprises pioneering projects designed to develop the capacity of local researchers in molecular genetic research.

On the ground, we continue to develop appropriate and affordable medication from plants. Pre-clinical and Phase 2 clinical trial is being done to compare safety and efficacy of several herbal medications.

All in all, we are closing the gap between research generation and research utilization, so that they ultimately benefit Filipinos.

**JAIME C. MONTTOYA, MD, MSc**

## **PHILIPPINE NATIONAL HEALTH RESEARCH SYSTEM: THE NEXT LEVEL**

Philippine health research is a multifaceted undertaking involving a myriad of stakeholders, from families and communities to researchers and policy makers.

The Philippine National Health Research System (PNHRS) was created in 2003 to unify health research and development and encourage new knowledge and innovations through research by developing a network of researchers and research institutions.

It was established through a Memorandum of Understanding signed by Science Secretary Estrella F. Alabastro and then Health Secretary Manuel M. Dayrit.

Among its mandate is to promote and enhance cooperation between and among health organizations and networks to pool and share resources; develop local capacity for knowledge creation, management, and use; and avoid research duplication in order to deliver appropriate and responsive solutions to the country's health problems.

The PNHRS programs involve six committees formed to implement programs on research management; ethics; capacity building; research utilization; resource mobilization; and structure/organization, monitoring and evaluation.

Today, the PNHRS is closer to its vision of a vibrant, dynamic and responsible health research community working for the attainment of national and global health goals.

In 2007, President Gloria Macapagal-Arroyo recognized the synergized effort in health research by declaring every second week of August as Philippine National Health Research System Week.

Starting in 2007 with the theme, "Using Knowledge for Better Health", the annual event is designed to hold regular forums to promote a smoother exchange of health research and related information among health stakeholders in support of the government's health policy and programs.

The PNHRS Week was focused on linking research utilization strategies to stakeholders who can help translate research results into policies and actions through dialogues, focus group discussions and forums as well as recommend and act on strategies embodied in the PNHRS mandate.

On August 13-18, 2007, the PNHRS convened several conferences on health research and development, including a training seminar on journal publishing; a forum on the experiences of local governments as well as the Department of Health and several research institutes in infusing research inputs to the delivery of health services; a forum on technology commercialization to strengthen the links between academe and industry; and a forum on creating synergies with the media.

Another significant event was the expansion of the PNHRS to include the Commission on Higher Education (CHED) and the University of the Philippines Manila (UPM)-National Institutes of Health (NIH).

As major stakeholders in health research, and because of their crucial role in capacity building activities, the two institutions were added as core agencies in the PNHRS in a Memorandum of Understanding signed on 16 March 2007 by the Department of Health (DOH) and the Department of Science and Technology (DOST) through the PCHRD, CHED and UPM-NIH.

The memorandum stipulates that the core agencies provide the essential technical, financial and logistical support, in accordance with their mandate on research; enable the PNHRS to contribute to the attainment of national and global health goals; harmonize, integrate and institutionalize the core agencies' programs, projects and activities in health research in accordance with the PNHRS Master Plan; and advocate the implementation of the PNHRS Master Plan among partners and members of their respective networks.

Present during the signing ceremony were DOST Secretary Estrella Alabastro, CHED Commissioner Carlito Puno, UPM Chancellor Ramon Arcadio and Assistant Secretary Mario Villaverde as the representative of DOH Secretary Francisco Duque III.

## **PCHRD GAINS IN 2007 TO MOVE FORWARD THE PNHRS VISION**

The year brought the PCHRD, the lead convener of the PNHRS, closer than ever to putting a more potent and working national health research system in place, able to bring new knowledge and innovations that are appropriate and responsive to health care.

### **Research Management: Generating Knowledge and Technologies for Health**

As part of its promotion of the National Unified Health Research Agenda (NUHRA) as a template for health research projects for 2006-2010, together with the PNHRS Research Management Committee, PCHRD continued the dissemination of the agenda through the Regional Health Research and Development Committees (RHRDCs) and national government line agencies. The advocacy for NUHRA took the form of cluster meetings, training activities and forums.

The Committee also initiated an updating of research projects conducted for the period 2006-2007, in coordination with responsible agencies that were tasked to oversee project implementation in their respective areas in the NUHRA.

Meanwhile, along with the above efforts for the NUHRA, PCHRD continued to support the R&D projects under its grant-in-aid program. The Council assisted a total of eight projects, two of which were completed in 2007. Seven projects were monitored and seven R&D projects were funded through the regional research funds.

## **Completed Studies in 2007**

### ***Effects of VCO on weight and lipid profile among overweight healthy individuals***

One completed study looked at the effects of virgin coconut oil (VCO) on overweight but otherwise healthy individuals.

The study involved 31 patients divided into two groups: one group was given VCO in combination with diet and exercise, while another group was not given VCO. Results show no statistical difference between the two groups. Further large scale trials using different VCO doses are recommended.

### ***VCO for the prevention of neonatal sepsis***

A trial on the use of VCO for the prevention of infection among newborns was completed. Infection was lower among newborns given VCO as a feeding supplement. Better weight gain per day, gain in length and gain in mid-upper arm circumference among them was observed compared to those not given the supplemental feeding.

### ***Intake of folic acid-based multivitamins in patients with previous heart attacks***

A study found that folic acid supplementation does not lower significantly the mortality rates and recurrence of acute coronary syndrome among patients with unstable heart conditions.

The premise is that vitamin B combination of folic acid, vitamin B6 and vitamin B12 would lower homocysteine levels so that it can prevent heart attacks after an incomplete blockage. Homocysteine was noted to contribute to the risk of heart attacks and other cardiovascular disease.

In the study, the multivitamins did not help in the reduction of heart attacks and may actually increase the chance of re-hospitalization due to causes related to heart functioning such as congestive heart failure or another heart attack

The study recommended that further studies should be conducted on the safety of folic acid supplementation.

### ***2005 Updating of the nutritional status of Filipino children and selected population groups***

In 2005, a survey was undertaken to assess and update the nutritional status of newly born to 19-year-old Filipino children, pregnant women, and lactating mothers at the national and sub-national levels (i.e., UNICEF's 6<sup>th</sup> Country Program for Children provinces and cities). At the same time, it reviewed the country's progress towards universal salt iodization.

The study indicated the improvement in the general nutrition of children and adolescents with the decreasing trend in the prevalence of underweight and under



height. However, undernutrition continues to affect children, pregnant and lactating women.

An increasing trend of overweight was observed among the children, adolescents, and lactating women. The prevalence of underweight, under height and thinness for 0-10 year old children were relatively higher in rural areas than the national average.

A survey revealed a high awareness but low usage of iodized salt. Compared with the results of a 2003 nationwide survey, an improvement in the proportion of iodized salt users was noted. A case study done in Taguig and Laguna that explored the association between iodized salt and processed foods consumption with iodine status among six to ten years old and lactating women showed a high proportion of participants with median urinary excretion of greater than or equal to 200 ug/l even at low salt intakes.

The study observed the need to review and strengthen programs to arrest the deterioration of health primarily at early childhood and address the merging problem of double burden of malnutrition. It also recommended the strengthening of nutrition education among women of child bearing age as well as intensifying the promotion of exclusive breastfeeding through six months, introduction of complementary foods at six months, and continuation of breastfeeding until two years or longer and milk feeding throughout childhood. The survey also emphasized the need to ensure adequate quality assurance of iodized salt at the production, storage, and distribution/commercial levels and conduct of further studies to confirm the results of the case study.

### **Research Ethics: Promoting a Strong and Responsible Health Research System**

Guided by the PNHRs' principles of inclusiveness and cooperation, partnerships were strengthened with academe and health care providers, including the pharmaceuticals industry, in particular with Pfizer Philippines and the Unilab Medical and Education Development (UMED) program.

Most notable of these activities were the series of regional seminar-workshops on health research ethics which was spearheaded by the Philippine Health Research Ethics Board (PHREB) to promote and ensure ethics in health researches involving human subjects.

With members of the institutional ethics review committees and other ethics advocates in attendance, a seminar-workshop was held at the Cebu Doctors University Hospital in Cebu City on March 23-24 under the sponsorship of Pfizer Philippines, and at the Cebu Doctors Hospital.

Three training seminars were undertaken with the support of the UMED program. One was convened in Cagayan de Oro City on August 9-10 in cooperation with Xavier University, followed by a training seminar in Legazpi City on October 23-24 co-sponsored by the Ago Medical and Education Center-Bicol Christian College of Medicine. Another training seminar was conducted on December 8 for the benefit of members of institutional research ethics board in the National Capital Region, with the support of The Medical City.

## **Capacity Building: Creating and Enabling the Health Research Human Resource**

A critical pool of health researchers is vital to the continued creation of knowledge and technologies for health development. In 2007, PCHRD supported the academic pursuits of 21 scholars to sustain much needed health research human resources. Of these, two master's students completed their studies.

Under the thesis and dissertation assistance program, one doctoral and two master's students completed their dissertation and thesis, respectively. Eleven grantees continued to work on their thesis/dissertation projects while four new grantees set the groundwork for their graduate studies.

The Council assisted two research fellows in developing their research skills. Under the guidance of a mentor, these aspiring researchers get the benefit of close supervision in the different phases of their research projects.

For the DOST Accelerated Science and Technology Human Resource Development Program (ASTHRDP), PCHRD evaluated and recommended approval of 41 new scholars for 2007-2008. ASTHRDP is a combined initiative of DOST and its councils and institutes to accelerate the development of high-level human resources needed for S&T activities especially in research and development.

As a strategy to hone the skills of beginning researchers, specifically in the regions, nine training/seminars/forums were sponsored by PCHRD in various topics, namely: basic research methods, technical report writing and presentation, scientific article writing for publication, critical appraisal of research papers and good clinical practice guidelines. A total of 286 new researchers benefited from the trainings/seminars conducted through RHRDCs in North and South Luzon, Visayas and Mindanao.

To recognize the work of the research mentor, specifically his/her contribution to the capability building of human resources in health research, the Guidelines for the PNHR Best Mentor in Health Research was developed. The call for nomination for the said award will be officially announced during the PCHRD 26<sup>th</sup> Anniversary Celebration on March 17, 2008. The award will be given every two years.

### ***2007 PCHRD-Gruppo Medica Award Winners***

One of the priorities of PCHRD is research on the medicinal properties of local plants and formulating medications from their healing properties. Towards this end, the PCHRD-Gruppo Medica Award encourages undergraduate students to undertake research on herbal medicines with potential practical or commercial applications.

In 2007, two winners won the second prize category and received PhP 40,000 each in recognition of their promising researches in herbal medicine.

The second prize winners are:

Warren S. Vidar, BS Chemistry, University of Santo Tomas for his research, “Extracts and Alkaloids from Voacanga Globosa Display High Inhibitory Activity to a Human Virulent Strain of Mycobacterium Tuberculosis and Other Related Mycobacteria In Vitro. Structure Identification of a New Spirocyclic Bisaspidospermidine Indole Alkaloid with Potent Antituberculosis Property.”

Kristal Cielo K. Buemio, Rogie Z. Carandang, Adelaine J. Lopez, BS Industrial Pharmacy, UP Manila College of Pharmacy for their study “The Wound Healing Action of Kakawati Gel from Gliricidia sepium (Jacques) Steudel (Family Fabaceae).”

There were two third prizes of PhP20,000 each as well during the year:

Mary Grace M. Galang, BS Chemistry, University of Santo Toma, won for her research, “Secondary Metabolites from the DCM Extract of the Fruits of Carissa Grandiflora DC as Potential Antiberclular; A Preliminary Study of the Bioactive Hexane Extract of the C. Grandiflora Stems.”

Anna Ria B. Bautista, Cheryl An A. Buenviaje, Julienne Roi A. Buenviaje, BS Industrial Pharmacy, UP Manila College of Pharmacy, were also awarded for their work on, “The Hemostatic Effect of Tinta tinta Ointment from the Dried Alcoholic Extract of Eclipta alba (L.) Hask (Asteraceae).”

### Winners of the 2007 PCHRD – Gruppo Medica Award

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

**Extracts and alkaloids from Veacanga globosa display high inhibitory activity to a human virulent strain of mycobacterium tuberculosis and other related mycobacteria in vitro. Structure identification of a new spirocyclic**

Warren S. Vidar

Adviser: Allan Patrick G. Macabeo

College of Science

University of Santo Tomas

**The Wound Healing Action of Kakawati Gel from Gliricidia sepium (Jacques) Steudel (Family Fabaceae)**

Kristal Cielo K. Buemio

Rogie Z. Carandang

Adelaine J. Lopez

Adviser: Prof. Jocelyn B. Palacpac

College of Pharmacy

University of the Philippines Manila

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

**The Hemostatic Effect of Tinta Tinta Ointment from the Dried  
Alcoholic Extract of *Eclipta alba* (L.) Hask (Asteraceae)**

Ana Ria B. Bautista  
Cherryl Ann A. Buenviaje  
Julienne Roi A. Buenviaje  
Adviser: Prof. Jocelyn B. Palacpac  
College of Pharmacy  
University of the Philippines Manila

**Secondary Metabolites from the DCM Extract of the Fruits of  
*Carissa Grandiflora* DC as Potential Antitubercular A Preliminary  
Study of the Bioactive Hexane Extract of the *C Grandiflora* Stems**

Mary Grace M. Galang  
Adviser: Dr. Alicia M. Aguinaldo  
College of Science  
University of Santo Tomas

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***Training for DSWD Technical Staff***

As part of the health research training program of the PNHRs Capacity Building Committee, initial linkage was established with the Department of Social Welfare and Development (DSWD) to enhance the research skills of DSWD technical staff.

A five-day pilot training course was provided to 38 DSWD technical staff which included lectures and workshop sessions on health research methodology. DSWD has committed support to fund research proposals developed during the training as part of their interest to develop capabilities of its faculty in conducting health research as well as utilize outputs of researchers into policies and action.

***PEER Health***

In its efforts to build and strengthen research capacities, the Council entered into a Memorandum of Agreement with Pfizer Philippines, Inc. and the University of the Philippines Manila-National Institutes of Health to implement the project, "Providing an Enabling Environment for Research in Health" (PEER Health).

The agreement provides for research grant funds from Pfizer, with PCHRD and the National Institutes of Health managing the fund.

The Autonomous Region of Muslim Mindanao (ARMM) and Western Mindanao (Region IX) were identified as the initial sites for the implementation of the project. Preparatory to project implementation, two training courses on methods for researchers in ARMM were conducted at the Mindanao State University in Marawi City (for mainland provinces) and at the Marician Business Hotel in Zamboanga City (for the island provinces of Basilan, Sulu and Tawi-tawi).

## **Structure/Organization Monitoring and Evaluation: Fostering Regional Partnerships**

Based on the recommendation of the PNHR Structure/Organization, Monitoring and Evaluation (SOME) Committee, networking and collaborative arrangements were developed as channels for the aggressive implementation of health-based research and development in the regions.

Consultative meetings were conducted to ascertain the appropriate health research system and boost the institutional capabilities in the regions. By the end of 2007, there were already 10 Health Research and Development Committees in the regions --- the six existing RHRDCs in Regions 1, 2, 6, 7, 8 and 11 and the four newly established regional health research consortia, namely: the Zamboanga Consortium for Health Research and Development (ZCHRD) in Region 9; the Cotabato Regional Health Research and Development Consortium in Region 12 (CreHeRDC); the ARMM Health Research and Development Consortium (AHRDC) in the Autonomous Region for Muslim Mindanao; and the Bicol Consortium for Health Research and Development (BCHRD) in Region 5. The consortia, involving selected stakeholders in health, entered into a Memorandum of Agreement (MOA) to link institutions for resource sharing and research complementation.

Preparations to establish the infrastructure for health research systems in other regions are underway. Consultative meetings were held in Central and Southern Luzon and Northern Mindanao (Regions 3, 4, 10) as well as the Cordillera Autonomous Region (CAR) and CARAGA preparatory to the establishment of such health research systems. By 2008, RHRDCs will be operational in all regions of the country.

Other significant accomplishments of the RHRDCs were the formulation of a strategic plan which will serve as the framework for health R&D activities for the next three years (2008-2010) and the participation of the private sector in support of regional R&D activities. At least four regions (4, 5, 9 and ARMM) received funding support from the private sector for capability building and research project implementation. The involvement of the private sector is an important step to encourage public-private partnership in institutional capacity building.

### ***WHO Health Research System Analysis***

As input to the World Health Organization Health Research System Analysis and as part of the Council's regular assessment of Health Research Resources in the Country for 2001-2005, a survey was undertaken to provide benchmark information in regard the country's health research capacity and resources.

The PCHRD surveyed 185 health research institutions nationwide. A total of 67 respondent institutions were included in the final analysis.

Initial results revealed that compared to the 1997 and 2004 surveys, in 2006, there were few researchers in ages 20-29 and 40-49 years old; and an increase in the 50-59 age group. Those who devoted less than 25 percent of their time to research increased from 31 percent in 1997 to 33 percent in 2006. In terms of those with master's or

M.D., 59 percent was recorded in 2006 compared to 70 percent in 1997. 94 percent are connected to the Internet, but still the greater need for facilities are for upgrading the research laboratories.

The survey also revealed that 91 percent were aware of the presence of a national research agenda, but very few have established international linkages.

### **PNHRS Registry**

Considering that monitoring and evaluation depend on the availability of a good database, the results of the institutional survey reaffirmed the need to develop a PNHRS Registry. The Registry facilitates the registration of all institutions involved in health R&D. For them to be in the Registry, they need to update their institutional profiles. The information, suggested to be reported annually, in the Registry allows the PNHRS to assess the program as well as the resource gaps in research institutions. In the long term, this information serves as basis for accreditation.

### **Research Utilization: Bridging the Big Divide from Laboratories to Communities**

In 2007, the Council made significant strides in bringing health research and its results closer to the public by developing and sustaining communication and advocacy strategies that would translate research into policies and actions.

During the First Philippine National Health Research System (PNHRS) Week, the PCHRD, together with the Research Utilization Committee of the Philippine National Health Research System and the Department of Health organized a forum on research for policy formulation and implementation by local governments at the Pan Pacific Hotel in Manila.

The forum included a presentation of the policy framework, sharing of local experiences, presentations of successful implementations of research-based policies and discussions with stakeholders on the links between research and policies within the Fourmula One for Health agenda.

The one-day event showed the importance of political will, multi-sector participation, funding availability and donor agencies in policy formulation and implementation. The sustainability of health policies was also emphasized as an important component in crafting and implementing policies.

The interchange of ideas revealed the need for a continuous dialogue and exchange of information among national and local government officials, researchers, civil society and other stakeholders to facilitate and ensure the translation of research studies into effective health policies and programs.

### ***EVIPNet Philippines: Networking among Researchers and Policymakers***

PCHRD assisted the Department of Health's Health Policy Development and Planning Bureau (DOH-HPDPB) in the case study regarding health emergency and preparedness in Southern Leyte on how a strategic alliance between researchers and

policymakers contributed to the quick response systems in disasters and health emergencies.

The case study revealed the low appreciation of the role of research in policymaking, especially on the preventive side, such as availability of information based on vulnerability studies.

After the incident, there was a strong desire to form a research-policy network to harness information from research which can be used for early warning materials. These insights provide inputs to the formation of the Evidence-Informed Policy Network (EVIPNet) – Philippines.

## **Ensuring Technology Transfer, Adoption, and Use**

### ***License Agreements***

During its 25<sup>th</sup> anniversary celebration in March, PCHRD signed license agreements on the transfer of production technologies for Ampalaya Tablet with Pascual Laboratories, Inc., Herbs and Nature Corporation, Herbcare Corporation and Philippine Institute of Traditional and Alternative Health Care.

In December, the Council signed another license agreement on the transfer of production technologies for Ampalaya Tablet, Lagundi Tablet and Lagundi Pediatric Syrup with Qx Pharmaceutical, Inc.

### ***Strengthening the Technology Commercialization Platform***

In March, a roundtable discussion on licensing and technology transfer featured Kathleen Graham of the U.S. Environmental Protection Agency (EPA) was convened at IP Philippines in Makati City. Representatives from technology licensing offices were able to learn from the experience and expertise of the U.S. EPA in terms of licensing and technology transfers.

On 15 May 2007, PCHRD and the Zuellig Foundation convened a forum on Business in Research to link research results, discoveries and inventions with business and industry and bring science to the doorsteps of consumers. The need for a technology commercialization platform was emphasized in this forum. Guest speaker was Kenneth Chong, director of the NUIdeas Bank and the Institute for Translational Research and Venture Bank, Newcastle University, United Kingdom.

During the PNHRS Week, the Council organized a symposium on Research in the Market Place: Creating Research-based Enterprises on 15 August 2007, at the Asian Institute of Management (AIM). The technology commercialization platforms of leading universities were presented. Partners from industry gave their reactions and recommendations on how to speed up the research-to-market process.

A forum on Technology Business Development was held, again with Kenneth Chong of NUIdeas Bank as resource person, at the Science and Technology Information Institute, Bicutan, Taguig City, on 20 September 2007. The discussions were focused on how to foster close interaction among researchers to encourage

cross-fertilization as well as interactions between researchers and industry in a “market to research” paradigm.

### ***Technology Promotions***

To further popularize an iodine test kit and meter that measures the iodine content of salt products, developed with assistance from PCHRD, technology presentations were made in March at the Thomas Aquinas Research Complex, University of Santo Tomas, Manila.

Mature technologies for lagundi tablets and lagundi pediatric syrup (cough remedy and asthma control respectively), sambong tablet (diuretic and kidney stone dissolution), akapulko lotion (antifungal) and yerba buena tablet (analgesic), iodine test kit for iodized salt and ampalaya tablet for Type II Diabetes were included in the DOST’s One Stop Information Shop for Mature Technologies (OSIST). The OSIST is an internet-based service that promotes DOST mature technologies and provide technical assistance to the business community and stakeholders in order to increase and attract investments to showcased technologies.

### ***Technology Transfer Bill: Profiting From Inventions***

PCHRD, together with the other government agencies, actively participated in the advocacy for the enactment of a national policy framework on technology transfer. Introduced by Senator Edgardo J. Angara as the Technology Transfer Act of 2007 in the Senate and Congressman Joseph Emilio Abaya in the House of Representatives (House Bill 3270), the proposed legislation aimed to encourage and speed up the innovation process and enhance economic competitiveness.

Salient provisions of the Bill include the entitlement of research institutions to the rights to the technology over government funding agencies; obligations and sharing of benefits of parties involved in technology generation and transfer; incentives to researchers and R&D institutions involved in technology generation; funding mechanism, and institutional mechanisms for technology transfer.

### **Building a Knowledge Society with Information Technology**

Modern information technology enables PCHRD to disseminate information through the internet.

PCHRD created the Health Research and Development Information Network (HERDIN) in 1986 in partnership with the Department of Health and the University of the Philippines Manila to improve the flow of health-related information.

In 2007, HERDIN rolled out the implementation of its new system called NeoN (Network-of-Networks) to the following health research institutions in Metro Manila, Central and Eastern Visayas ---DOST Region VII (Central Visayas); DOST Region VIII (Eastern Visayas); Department of Health Region VII; University of San Carlos; Cebu Doctors University; University of the Philippines School of Health Sciences; St. Scholastica’s College; Eastern Visayas Medical Center; University of Perpetual Help, Binangonan, Laguna; Manila Central University; Health Policy Development and Planning



Bureau and Information Management Services of the Department of Health; Philippine Orthopedic Association; and the Nutrition Research Information Network-Food and Nutrition Research Institute.

HERDIN NeON's user manual was launched during a HERDIN NeON Exhibit at the "Chief Information Officer Forum: Recognizing eGovernment Progress in the Philippines" on November 15.

As a befitting tribute to years of hard work and commitment, HERDIN was chosen by the Philippine Association of Academic and Research Librarians (PAARL) as the "Outstanding Library Program of the Year Award for 2007." The award gives recognition to an outstanding program that contributes to Philippine academic librarianship and library development that is updated, sustained and maintained regularly and that has affected a significant impact on the academic community.

### ***Western Pacific Region Index Medicus (WPRIM)***

The Council continued to be an active participant 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.

The goal of WPRIM is to establish an online index of medical and health journals published in member states, including the Philippines. It will be made accessible along with the medical literature indexes of other WHO Regions under the Global Health Library platform.

With PCHRD's encouragement and based on their inputs to the HERDIN database, publishers and editors of 13 health and medical journals in the country joined the WPRIM project. To date, more than 9,000 articles were uploaded to WPRIM.

The journals are: Acta Medica Philippina; Filipino Family Physicians; Journal of the Philippine Medical Association; Philippine Journal of Anaesthesiology; Philippine Journal of Dermatology; Philippine Journal of Internal Medicine; Philippine Journal of Neurology; Philippine Journal of Obstetrics & Gynaecology; Philippine Journal of Psychiatry; Philippine Journal of Reproductive Endocrinology & Infertility; Philippine Journal of Surgical Specialties; Philippine Journal of Thoracic and Cardiovascular Surgery; and Philippine Journal of Urology.

### ***Strengthening Health Journal Publishing in the Philippines***

In 2007, PCHRD formed a technical panel on health journal publishing. The panel was created to help develop strategic plans to improve the status of health journal publication in the country.

On 17 August 2007, a forum on health journal publishing was convened as part of the Philippine National Health Research System Week. It was designed to equip researchers on technical writing for medical journals and orient editors of medical

journals on editorial standards and policies. The forum was organized by the Technical Panel on Health Journal Publishing, in cooperation with the Philippine Psychiatric Association.

Resource speakers included Dr. Ma. Corazon de Ungria, head of the DNA Analysis Laboratory of the University of the Philippines; Dr. Jose Maria Avila, Editor-in-Chief of the Acta Medica Philippina; Dr. Raymond Rosales, immediate past President of the Philippine Neurological Association; Atty. Louie Andrew Calvario, head of the Copyright Support Services of the Intellectual Property Office; and Dr. Mae Mendoza, Editor-in-Chief of the Philippine Agricultural Scientist. WPRIM was represented by Ms. Alma Prosperoso, project coordinator.

Video of the forum's proceedings, packaged in CD format, will be disseminated to health research institutions to serve as training material on health journal publishing.

### **Communicating Health Research to the Public**

During the year, 39 symposiums, consultative and scientific meetings, and congresses held across the country touched on diverse topics such as coconut oil, vaccine R&D, nutrition, health emergencies and disasters, food safety and medical physics.

Fifteen technology fairs and exhibits were held in different venues nationwide on various topics such as biotechnology ventures and small and medium enterprises.

PCHRD released 30 press releases in the print media and 21 interviews on television and 22 on radio. Twelve articles were published online.

During the year, the Council produced several publications, including the 2006 PCHRD Annual Report and the PCHRD coffee-table book, "Philippine Health Research: Making Lives Better." The commemorative book chronicles inspiring breakthroughs and innovations in case management and diagnostics, nutrition, pharmaceutical R & D, biomedical devices, information systems, and many others.

PCHRD also launched an innovative new program called Usapang K (Kalusugan) to minimize the prevalence of lifestyle-related diseases among staff members of the Department of Science and Technology in Bicutan, Los Baños and Quezon City.

### **Resource Mobilization: Sustaining Health R&D**

The Council assisted the government in mobilizing resources to support the implementation of policies, programs and projects geared toward the advancement of health research. It developed and maintained linkages with international partners, local agencies, and the private sector, drawing fruitful collaborations as well as significant returns. In 2007, the Council was able to generate external resources amounting to PhP28,897,302.48.

## **PNHRS Bill: Institutionalizing the Philippine National Health Research System**

The year witnessed the efforts of the health research community, particularly the Philippine National Health Research System (PNHRS) Core Agencies and the Resource Mobilization Committee to generate and mobilize resources for the PNHRS.

A significant development was initiated with a bill filed in the 14<sup>th</sup> Congress to boost the meager resources now available for public health research. The bill, sponsored by Representatives Joseph Emilio Abaya (1<sup>st</sup> District, Cavite), Arthur Pingoy, Jr. (2<sup>nd</sup> District, South Cotabato), Aurelio Gonzales, Jr. (3<sup>rd</sup> District, Pampanga) and Senator Antonio Trillanes III hopes to correct the low funding that health research and development currently gets.

Called the “Philippine National Health Research System Act of 2007,” the bill will institutionalize the Philippine National Health Research System (PNHRS) and establish the Philippine National Health Research Fund to ensure and secure health research and development, integrate all health researches, and strengthen the synergy that will increase the range and impact of health research.

With an institutionalized PNHRS in place, the country is assured of better and more efficient health services; prompt and appropriate response to national emergencies and emerging infections such as Avian Flu, among others.

PCHRD will be the lead agency managing the Philippine National Health Research Fund.

## **OUR PEOPLE, OUR PRIDE**

The Council’s 49 core staff members bring with them a wealth of experience and expertise in health research, starting with the Executive Director, Dr. Jaime C. Montoya.

In 2007, the Council’s personnel complement was composed of 28 technical and 21 administrative and support staff. Twenty-four have a bachelor’s degree, 12 are master’s degree holders, one holds a diploma in public health, and one is a medical doctor.

In line with PCHRD’s desire to develop its pool of human resources and enhance the Council’s research and development capability and services, 13 staff members attended training along their line of work in 2007.

## FINANCIAL PROFILE

PARTICULARS	ALLOTMENT	EXPENDITURES	% OF UTILIZATION
General appropriations from Government			
General Administration and Support	18,689,431	17,984,282	96%
Operations	13,157,616	12,849,959	98%
Grants-in-aid:			
Research and Development	4,367,654	4,367,654	100%
S&T Education	4,393,180	4,393,180	100%
S&T Services	2,438,595	2,438,595	100%
Total Funds from National Government	43,046,476	40,033,670	95%
Funds from Other Sources	26,297,302	24,364,600	93%
<b>GRAND TOTAL</b>	<b>69,343,778</b>	<b>66,398,270</b>	<b>96%</b>

**TO THE ARTIST: Insert pie graph.**

The PCHRD budget in 2007 amounted to P69.3 million, of which 96 percent, or P66.3 million, was used. Of the total amount, P43 million came from the government and P26.2 million from other sources, including P4.3 million from grants-in-aid. Most of the funding was used in general administration and support, operations, research and development, science and technology education and other services.

## **Directory of Officials**

### **PCHRD Governing Council**

#### **Chair**

**Dr. Estrella F. Alabastro**

Secretary

Department of Science and Technology

#### **Co-Chair**

**Dr. Francisco T. Duque III**

Secretary

Department of Health

#### **Members**

**Dr. Jaime C. Montoya**

Executive Director

Philippine Council for Health Research and Development

**Ms. Maria Bernardita T. Flores**

Executive Director

National Nutrition Council

**Dr. Ramon L. Arcadio**

Chancellor

University of the Philippines Manila

**Dr. Benjamin M. Abela**

President, Asian Vision Group

Asian Hospital and Medical Center

**Dr. Mediadora C. Saniel**

Head, Medical Services

The Medical City

**Dr. Grace J. Rebollos**

Executive Secretary

Zamboanga Coalition of Development NGOs (ZAMCODE)

**Dr. Enrico B. Gruet**

Dean

Cebu Doctors' University College of Medicine

**Dr. Catherine Q. Castañeda**

Director IV

Office of Programs and Standards

Commission on Higher Education

## **PCHRD Officials**

### **Executive Director**

Dr. Jaime C. Montoya  
jcm@pchr.dost.gov.ph

### **Division Heads**

#### Finance and Administrative Division

Mr. Raul D. Dumol (January - June 2007)  
Officer-in-Charge  
raul@pchr.dost.gov.ph

Ms. Maria C. Orogo (July – December 2007)  
Officer-in-Charge  
mary@pchr.dost.gov.ph

#### Research Management and Development Division

Ms. Rosella L. Taguiang (January – March; July - September 2007)  
Officer-in-Charge  
rose@pchr.dost.gov.ph

Ms. Ma. Elizabeth R. Cajigas (April – June; October – December 2007)  
Officer-in-Charge  
bethr@pchr.dost.gov.ph

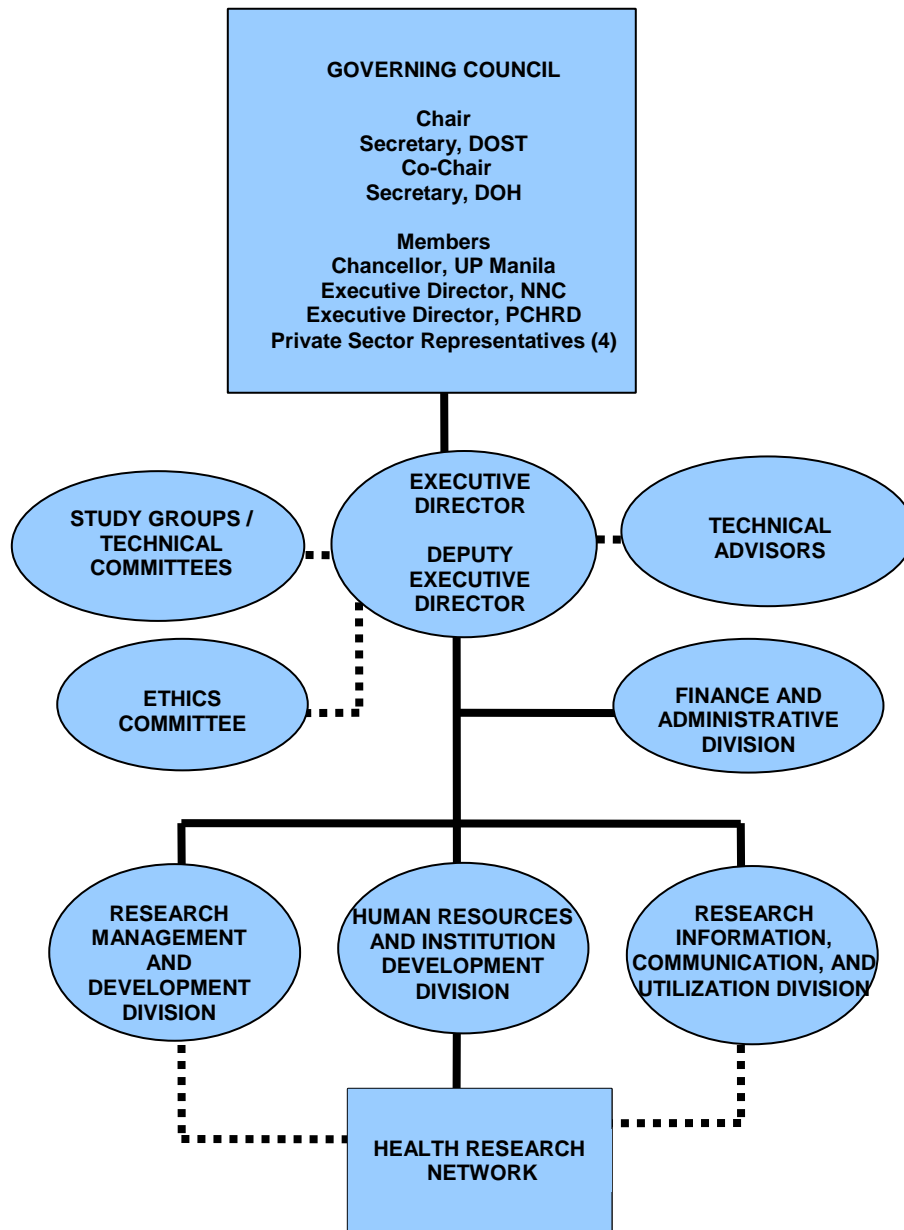
#### Human Resources and Institution Development Division

Ms. Anicia P. Catameo  
Officer-in-Charge  
annie@pchr.dost.gov.ph

#### Research Information, Communication, and Utilization Division

Ms. Merlita M. Opeña  
Chief  
mmo@pchr.dost.gov.ph

# Organizational Structure



## **ANNEXES**

### **PCHRD-ASSISTED PROJECTS**

#### **Completed**

**A randomized controlled trial on the use of Virgin Coconut Oil (VCNO) for the prevention of neonatal sepsis among pre-term neonates at the UP-PGH Medical Center**  
University of the Philippines Manila

**The Effects of Virgin Coconut Oil on Weight and Lipid Profile Among Overweight Healthy Individuals**  
Makati Medical Center

#### **Ongoing**

**Pharmacologic and Toxicologic Studies of Philippine Medicinal Plants**  
University of the Philippines Manila

**Mutagenicity, Clastogenicity and Antimutagenicity Potential of Drug Preparations from Medicinal Plants**  
University of the Philippines Diliman

**Establishment of Quality Control Bioassay Procedures for Medicinal Plant Products**  
University of the Philippines Manila

**Clinical Screening and Validation Studies of Medicinal Plant Products**  
University of the Philippines Manila

**Genetic Characterization of SARS-Causing Coronavirus from Probable SARS Patients in the Philippines**  
Research Institute for Tropical Medicine

**Obesity in High School Students in Selected Private and Public Schools in Metro Manila**  
First Integrated Residency Training Pediatric Program Inc.

### **PCHRD-MONITORED PROJECTS**

#### **Completed**

**Folate Intervention in Non-ST Elevation Myocardial Infarction and Unstable Angina: A Randomized Controlled Trial (FINEST)**  
University of the Philippines Manila

**2005 Updating of Nutritional Status of Filipino Children and Selected Population Groups**  
Food and Nutrition Research Institute  
Department of Science and Technology



## Ongoing

### **Development of an Integrated Geographic Information System for Pesticide Exposure and Health Problems among Farmers in the Vegetable Industry in Benguet, CAR**

University of the Philippines Manila

### **Optimization Process for the Large-scale Production of Dengue Viral Antigens for the Laboratory Surveillance of Dengue Infection**

Research and Biotechnology Division

St. Luke's Medical Center

### **Supplementary Feeding among School-aged Children Utilizing FNRI-developed Food Products: Its Effects on Nutritional Status**

Food and Nutrition Research Institute

Department of Science and Technology

### **The Evaluation of Genetic Polymorphism on Biomarkers of Cancer Risk among Filipinos**

Institute of Human Genetics

National Institutes of Health

University of the Philippines Manila

### **Study on Sub-acute Sclerosing Panencephalitis of a New Therapeutic Strategy Using the Antiviral Drug *Ribavirin***

University of the Philippines Manila

## New

### **Development of Recombinant Vaccines against Influenza**

University of the Philippines Diliman

### **Pre-Clinical Safety and Toxicity Studies on Virgin Coconut Oil**

University of the Philippines Manila

## REGIONAL PROJECTS

### Completed

### **Factors Affecting Cancer Pain Management in Region 1**

Ilocos Training and Regional Medical Center, San Fernando City, La Union

### **Hearing Loss among Personnel of Iloilo City Airport**

West Visayas State University, Iloilo City

### **Predisposing Factors of Mental Illness among Patients at the Acute Psychiatric Unit of Mariano Marcos Memorial Hospital**

Mariano Marcos Memorial Hospital and Medical Center

Batac, Ilocos Norte

## **Ongoing**

### **The State of Health Research in Region 1**

University of Northern Philippines, Vigan City, Ilocos Sur

### **Hepatic and Renal Effects of Selected Nutraceuticals on White Mice (*Mus musculus*)**

West Visayas State University, Iloilo City

### **An Association between Nutritional Status and Academic Performance of Elementary School Children in the Development of Eastern Samar**

Eastern Samar State University, Tacloban City

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

Eastern Samar State University, Tacloban City

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

Davao Doctors Hospital, Davao City

### **Microbial and Viral Determination level of Catbalogan, Samar Groundwater Supplies: Their Relationship to Waterborne Diseases**

Eastern Samar State University, Tacloban City

## **SCHOLARS**

### **Completed**

#### *Master’s Degree*

#### **Dr. Alvin Concha**

MA Applied Social Research

Davao Regional Hospital

#### **Mr. Arvin Cesar Lagda**

MS Biology

Department of Health

### **Ongoing**

#### *Doctoral Degree*

#### **Ms. Benedicta Alava**

PhD Chemistry

University of Santo Tomas

#### **Ms. Amy Calumpang**

PhD Pharmacy

University of San Carlos

**Ms. Marilyn Crisostomo**  
PhD Statistics  
College of Public Health  
University of the Philippines Manila

**Ms. Ma. Luisa Daroy**  
PhD Molecular Biology and Biotechnology  
St. Luke's Medical Center

**Ms. Clarissa Yvonne Domingo**  
DrPH Medical Microbiology  
Central Luzon State University

**Ms. Susan Juangco**  
DrPH Health Promotion and Education  
Department of Health

**Ms. Razel Kawano**  
DrPH Medical Microbiology  
San Lazaro Hospital

**Dr. Paulo Ma. Pagkatipunan**  
DrPH Health Promotion and Education  
Philippine General Hospital  
University of the Philippines System

**Ms. Ligaya Picazo**  
DrPH Medical Microbiology  
Research Institute for Tropical Medicine

**Ms. Merlyn Cruz**  
PhD Molecular Biology and Biotechnology  
Angeles University Foundation

**Mr. Romeo Gundran**  
DrPH Epidemiology  
Central Luzon State University

**Mr. Victorio Molina**  
PhD Environmental Science  
College of Public Health  
University of the Philippines Manila

**Dr. Daria Manalo**  
DrPh Medical Parasitology  
Research Institute for Tropical Medicine

*Master's Degree*

**Dr. Jericho Thaddeus Luna**

MS Clinical Epidemiology  
Philippine General Hospital  
University of the Philippines System

**Ms. Grace Rosales**

MS Biostatistics  
Manila Central University Filemon D. Tanchoco Medical Foundation

**Ms. Evelyn Suasin**

MS Microbiology  
Silliman University

**Dr. Arthur Benignos II**

MSPH Medical Microbiology  
Davao Medical School Foundation

**Dr. Lylah Reyes**

MS Clinical Epidemiology  
Far Eastern University Nicanor Reyes Medical Foundation

**Dr. Misael Cruz**

MS Clinical Epidemiology  
Angeles University Foundation

New (Accelerated S&T Human Resource Development Program)

*Doctoral Degree*

**First Semester**

**Ms. Ana Maria A. Bacudio**

DrPH Medical Microbiology  
College of Public Health  
University of the Philippines Manila

**Mr. Pelin B. Belino**

PhD Human Nutrition  
University of the Philippines Los Baños

**Mr. Reynaldo DL. Bundalian**

DrPH Medical Microbiology  
College of Public Health  
University of the Philippines Manila

**Ms. Elvira A. Corcolon**  
PhD Botany  
University of the Philippines Los Baños

**Second Semester**

**Mr. Joewel T. Baibado**  
DrPH Medical Microbiology  
College of Public Health  
University of the Philippines Manila

**Mr. Ernesto P. Gregorio, Jr.**  
DrPH Health Promotion  
College of Public Health  
University of the Philippines Manila

*Master's Degree*

**First Semester**

**Mr. Billy Joel M. Almarinez**  
MS Biology  
De La Salle University

**Ms. Erika Marie R. Alvero**  
MS Biology  
University of the Philippines Diliman

**Ms. Roselle Mae F. Batongmalaki**  
MS Biology  
University of San Carlos

**Dr. Eva I. Bautista**  
MS Clinical Epidemiology  
Institute of Clinical Epidemiology  
University of the Philippines Manila

**Dr. Tomas D. Bautista**  
MS Clinical Epidemiology  
Institute of Clinical Epidemiology  
University of the Philippines Manila

**Mr. Isagani B. Botabara**  
MS Biological Sciences  
University of Santo Tomas

**Dr. Raquel S. Cabazor**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Ms. Marites D. Dagohoy**  
MS Pharmacy  
University of Santo Tomas

**Mr. Rodolfo S. Del Rosario**  
MS Chemistry  
Mindanao State University-Iligan Institute of Technology

**Ms. Crystal Jmee G. Hernandez**  
MS Pharmacy  
Centro Escolar University

**Mr. Teddy S. Manansala**  
MS Biochemistry  
College of Medicine  
University of the Philippines Manila

**Mr. Stephen G. Sabinay**  
MS Molecular Biology and Biotechnology  
University of the Philippines Los Baños

**Ms. Fria Rose R. Santos**  
MSPH Epidemiology  
University of the East Ramon Magsaysay Memorial Medical Center

**Ms. Diane R. Tamayo**  
MS Clinical Epidemiology  
Institute of Clinical Epidemiology  
University of the Philippines Manila

**Dr. Lourdes Bernadette S. Tanchanco**  
MS Clinical Epidemiology  
Institute of Clinical Epidemiology  
University of the Philippines Manila

**Dr. Narciso A. Tapia**  
MSPH Medical Microbiology  
College of Public Health  
University of the Philippines Manila

## **Second Semester**

**Dr. Imelda C. Ang**  
MS Clinical Epidemiology  
Institute of Clinical Epidemiology  
University of the Philippines Manila

**Ms. Monique D. Barile**  
MS Pharmacology  
College of Medicine  
University of the Philippines Manila

**Ms. Agnes P. De Asis**  
MS Microbiology  
University of Santo Tomas

**Ms. Ane C. De la Cruz**  
MS Pharmacy  
University of Immaculate Concepcion Davao

**Mr. Raymund N. Fantonalgo**  
MS Biology  
University of the Philippines Visayas

**Ms. Rosemarie L. Givero**  
MS Pharmacy  
University of Santo Tomas

**Mr. Ivan L. Lawag**  
MS Chemistry  
University of Santo Tomas

**Ms. Kristina B. Luna**  
MS Chemistry  
Mindanao State University-Iligan Institute of Technology

**Ms. Lei Lanna C. Mendoza**  
MSPH Medical Microbiology  
College of Public Health  
University of the Philippines Manila

**Ms. Kharleezelle J. Moendeg**  
MSPH Medical Parasitology  
College of Public Health  
University of the Philippines Manila

**Mr. Romeo C. Ongpoy, Jr.**  
MS Pharmacy  
Centro Escolar University

**Mr. Crist John M. Pastor**  
MS Biochemistry  
College of Medicine  
University of the Philippines Manila

**Ms. Mayrose L. Quezon**

MS Pharmacy  
St. Louis University

**Dr. Celia R. Ravelo**

MS Pharmacology  
College of Medicine  
University of the Philippines Manila

**Dr. Michael M. Resurreccion**

MS Clinical Epidemiology  
Institute of Clinical Epidemiology  
University of the Philippines Manila

**Ms. Cyndi Mae C. Tai**

MS Epidemiology  
College of Public Health  
University of the Philippines Manila

**Mr. Valerie Gilbert T. Ulep**

MS Epidemiology  
College of Public Health  
University of the Philippines Manila

**Ms. Lourdes Consolacion R. Usman**

MS Pharmacy  
University of the Philippines Manila

**Ms. Kristine Jeanne A. Yap**

MSPH Medical Microbiology  
College of Public Health  
University of the Philippines Manila

**THESIS AND DISSERTATION GRANTEES**

**Completed**

*Thesis*

**Ms. Gardette R. Valmonte**

MS Biological Sciences (UST)  
University of Santo Tomas  
*Cross-reactivity Studies of House Dust Mite Allergens and Ascaris lumbricoides*



**Mr. Chester Deocrasis**

MS Biochemistry (UP Manila)

Our Lady of Fatima University, Quezon City Campus

*The Betalactamase Activity of Staphylococcus aureus after Treatment with Lipase-Hydrolyzed and Anhydrolyzed Virgin Coconut Oil Produced from Cold and Low-heating Process*

***Dissertation***

**Ms. Bella Panlilio**

PhD Chemistry (UST)

Angeles University Foundation

*Isolation and Structural Elucidation of the Antitubercular Constituents from Momordica charantia Linn.*

**Ongoing**

***Thesis***

**Ms. Celeste Soriano**

MS Biology (DLSU)

Research and Biotechnology Division, St. Luke's Medical Center

*Comparative Analysis of Membrane Protein Content of Thalassemic Red Blood Cell (RBC) Using Immunofluorescence Assay and Sodium-Dodecyl-Sulfate Polyacrylamide Gel Electrophoresis (SDS-PAGE)*

**Mr. Ruel Taclibon**

MS Microbiology (UST)

Research Institute for Tropical Medicine

*Microscopic Observation Broth-Drug Susceptibility Assay: A Rapid Method of Drug Sensitivity Testing for Mycobacterium Species*

**Ms. Rosanna De Guzman**

MSPH (UP Manila)

University of the Philippines Manila

*Screening for Depression and Anxiety Among In-patients of the UP-PGH: A Validation Study of a Self-Report Questionnaire*

**Mr. Allen Peñaflorida**

MS Medical Technology (UST)

Notre Dame of Marbel University, Cotabato

*Allergenicity and Cross-reactivity of House Dust Mite (HDM) and Cockroach (Cr) Allergens among Filipino Allergic Patients*

**Dr. Paul D. Pasco**

MS Clinical Epidemiology (UP – PGH)

University of the Philippines Manila

*Diagnostic Features of Tuberculous Meningitis: A Cross-sectional Study*

**Ms. Pura Alma Labis**

MS Health Social Sciences

Mindanao State University – Iligan Institute of Technology

*Reproductive Experiences of Second Wives of Polygamous Marriages in Iligan City and Lanao Del Norte*

**Dissertation**

**Mr. Jose Mallari**

PhD Biological Sciences (UST)

Manila Central University

*Production of Biodegradable Polybeta-hydroxybutarate from Sugarcane Molasses and Sulphite Waste Liquors by Batch and Fed-batch Fermentation*

**Ms. Eileen Vitug**

PhD Biological Sciences (UST)

Pamantasan ng Lungsod ng Maynila

*Sensitivity of the Microalgae Chlorococcum humicola and Scenedesmus quadricauda and the Macrophytes Spirodela polyrhiza, Lemna paucicostata, and Pistia stratiotes to Atrazine, Butachlor, and Glyphosate*

**Ms. Christine Hernandez**

PhD Chemistry (UP Diliman)

UP Institute of Chemistry

*Isolation and Structural Elucidation of Potential Anticancer Agents from Philippine Terrestrial Plants*

**Ms. Mary Ann Ladia**

PhD Medical Anthropology (University of Michigan, USA)

University of the Philippines Baguio

*Globalization of Health Knowledge in the Philippines: Tuberculosis and Infectious Other*

**Ms. Gladys Punzalan**

PhD Biology (UP Diliman)

UP Institute of Biology

*Cancer Chemopreventive and Chemotherapeutic Activities of Flavonoid-containing Fractions of Anona squamosa Linn. Leaf Extracts*

**New**

**Thesis**

**Ms. Aretha Ann Liwag**

MS Clinical Epidemiology (UP Manila)

West Visayas State University Medical Center

*An 8-week Randomized Controlled Trial on the Effectiveness of Vegetable-based Protein Diet (VBP)*

**Ms. Joanna J. Orejola**

MS Biochemistry (UP Manila)

University of the Philippines Manila

*Isolation, Partial Purification, and Preliminary Study on the Cytotoxicity of Compounds from Carica papaya CV. Linn. Extracts*

**Mr. Ryan Pekson**

MS Pharmacology

Adamson University

*Acute and Subacute Toxicity of Virgin Coconut Oil in Rodents*

***Dissertation***

**Ms. Magdalena F. Natividad**

PhD Molecular Biology (UP Diliman)

Far Eastern University Nicanor Reyes Medical Foundation

*A Study on Kawasaki Disease: Its Association with the T-Cell Receptor V-Beta-2 Chain and Its Gene Segment, and the Clonality of the T- Cell Response*

**RESEARCH FELLOWSHIP GRANTEES**

**Ongoing**

**Ms. Constanca Carillo**

Sending Institution: University of the Philippines – College of Arts and Sciences

Host Institution: UP – National Institutes of Health

**Dr. Imelda Dakis**

Sending Institution: University of Santo Tomas

Host Institution: University of Santo Tomas

**TRAINING, SEMINARS, AND WORKSHOPS**

**Training-Workshop on “Good Clinical Practice Guidelines for Investigators”**

St. Luke’s Medical Center, Quezon City

December 18-19, 2007

**Basic Research Methods Training**

Marcian Business Hotel, Zamboanga City

December 17-20, 2007

**Seminar/Workshop on Ethics in Health Research**

December 8, 2007

The Medical City, Ortigas, Pasig City

**Basic Research Methods Training**

Mamitua Saber, Mindanao State University, Marawi City

October 23-26, 2007

**Seminar/Workshop on Ethics in Health Research**

October 11-12, 2007

Ago Medical and Educational Center, Bicol Christian College of Medicine, Legaspi City

**Seminar/Workshop on Ethics in Health Research**

August 9-10, 2007

Xavier University-Ateneo de Cagayan, Cagayan de Oro City

**Research Methods Course for 3<sup>rd</sup> Year Cardiology Fellows of St. Luke's Medical Center**

St. Luke's Heart Institute, St. Luke's Medical Center, Quezon City

July 14, 21, 28 and September 4, 2007

**Research Methodology Workshop for REPS**

NIH Conference Room, UP Manila

July 4, 2007

**Seminar-Workshop on Technical Writing**

Davao Medical School Foundation, Davao City

June 6-7, 2007

**Basic Research Methods for Medical Consultants and Medical Residents of Cardinal Santos Medical Center**

Cardinal Santos Medical Center, Quezon City

April 28-June 2, 2007

**Technical Review of the Research Proposals of the Cagayan Valley Health Research and Development Committee**

Pampangueña Hotel and Restaurant, Tuguegarao City, Cagayan

April 27, 2007

**Health Research Dissemination Forum and Launching of Region 1 Health Research Agenda**

Regional Education Learning Center

San Vicente, Pagudpud, San Fernando City, La Union

March 26, 2007

**Seminar/Workshop on Ethics in Health Research**

March 23-24, 2007

Cebu Doctors University Hospital, Cebu City

## LICENSING AGREEMENTS ENTERED INTO BY PCHRD

TITLE	LICENSEE/ENTERPRISE	DATE SIGNED
Transfer of production technologies for Ampalaya Tablet	<ul style="list-style-type: none"> <li>• Pascual Laboratories, Inc.</li> <li>• Herbs and Nature Corporation</li> <li>• Herbcare Corporation</li> <li>• Philippine Institute of Traditional and Alternative Health Care (PITAHC)</li> </ul>	16 March 2007
Transfer of production technologies for Ampalaya Tablet, Lagundi Tablet and Lagundi Pediatric Syrup	<ul style="list-style-type: none"> <li>• Qx Pharmaceutical, Inc.</li> </ul>	28 December 2007

## INTELLECTUAL PROPERTY REGISTRATION SUPPORTED/FILED BY PCHRD

INTELLECTUAL PROPERTY	TYPE	RESEARCHER/INVENTOR	STATUS
Patent application for “Automated Lateral Turning Bed Inclining & Reclining Mechanism”	Invention	De La Salle University	Patent filed on 04 April 2007
Registration of Mosquito Repellant Lotion from the leaves of “Atis” Process of Extraction and Improved Repellant Composition	Utility model	Ileana R. F. Cruz, Lilian De Las Llagas	Granted on 07 June 2007

## GIA-FUNDED DISSEMINATION ACTIVITIES

### Symposium on the Glycemic Index (GI)

13 December 2007

EDSA Shangri-La Hotel, Manila

### 5<sup>th</sup> Southeast Asian Congress of Medical Physics (SEACOMP)

21-23 November 2007

Thomas Aquinas Research Center

University of Santo Tomas

### Conference on Existing and Emerging Issues on Food Safety in Mindanao

11-12 October 2007

Grand Meng Seng Hotel, Davao City

**Dissemination Forum for the Research Project, “Strengthening the Utilization of Research for Greater Effectiveness of the Interlocal Health Zone in Southern Leyte: Responding to Health Emergencies and Disasters**

5 October 2007

Manila.

**Dissemination Forum for the Research Project, “Strengthening the Utilization of Research for Greater Effectiveness of the Interlocal Health Zone in Southern Leyte: Responding to Health Emergencies and Disasters”**

3 September 2007

Tacloban City

**20<sup>th</sup> Anniversary Celebration of the Nutrition Research Information Network**

12-13 July 2007

Food and Nutrition Research Institute

Department of Science and Technology

Bicutan, Tagig City

**2<sup>nd</sup> National Convention Outstanding Young Scientists, Inc.**

10 July 2007

Manila Hotel, Manila

**29<sup>th</sup> Annual Scientific Meeting (ASM)**

11-12 July 2007

Manila Hotel, Manila

**AsiaSense 2007-Asian Conference on Sensors**

5-7 June 2007

University of Santo Tomas

**Printing of the proceedings of the 3<sup>rd</sup> UP Global Health Course**

10-15 April 2007

**Consultative meetings and writing of the National Vaccine Research and Development Plan (NVRDP)**

February 2007

**2007 Symposium on Coconut Oil: State of the Art**

7 February 2007

Traders’ Hotel, Manila

**TECHNOLOGY FAIRS/EXHIBITS**

**DCI@25 Exhibit**

15 November 2007

Crowne Plaza Hotel, Ortigas City

**National Seminar-workshop on Grassroots Innovation**

17-18 October 2007

University Hotel, University of the Philippines Diliman

**“MARPE” Natural Health Products Expo**

5-7 October 2007

Megatrade Hall I, SM Megamall, Mandaluyong City

**Kabisig National Government and Foreign Embassies Expo 2007**

17-21 September 2007

SM Mall of Asia, Pasay City

**NSTW Technology Fair and Open Houses**

17-20 July 2007

Robinson's Place Manila

**29<sup>th</sup> Annual Scientific Meeting (ASM)**

11-12 July 2007

Manila Hotel

**Independence Day Exhibit**

June 12, 2007

Department of Tourism, Manila

**AsiaSense 2007-Asian Conference on Sensors**

June 05 - 07 2007

Thomas Aquinas Research Center

University of Santo Tomas, Manila

**Negosyong Pinoy Expo 2007**

20-23 April 2007

Gateway Hall, Araneta Center, Cubao, Quezon City

**Exhibit on Iodine Meter**

28 March 2007

University of Santo Tomas, Manila

**Familyang OFW's – SME's Summer Expo 2007**

*“Kabuhayan at Negosyo, Tugon sa OFW Reintegration Problem”*

23 – 25 March 2007

Philippine Trade Training Center, Pasay City

**28<sup>th</sup> National Conference of Employers Exhibition**

*“Reaching Out: Competitiveness, Partnerships, Reforms”*

20 – 21 March 2007

Centennial Hall, Manila Hotel

**PCHRD 25<sup>th</sup> Anniversary Exhibit**

16 March 2007

Crowne Plaza Hotel, Quezon City

***“Galing ng Pinoy sa Negosyo, Daan sa Pag-asenso***

21-26 February 2007

Mega Trade Hall, SM Megamall

**2nd Annual Philippine Biotechnology Venture Summit**

10-12 January 2007

Ateneo Graduate School of Business, Rockwell, Makati City

**FORUM/ CONFERENCES/ SYMPOSIA/ ROUNDTABLE DISCUSSIONS ORGANIZED/  
SPONSORED**

**Symposium on Glycemic Index (GI)**

13 December 2007

Manila.

**3<sup>rd</sup> Biotechnology Week**

24 – 30 2007

Department of Environment and Natural Resources, Quezon City

**5<sup>th</sup> Southeast Asian Congress of Medical Physics (SEACOMP)**

21-23 November 2007

Thomas Aquinas Research Center

University of Santo Tomas, Manila

**Press Conference on Fourmula Kontra Paputok '07**

12 November 2007

Nolasco High School, Tondo, Manila

**Roundtable Discussions on Innovation in the Health Sector**

18 October 2007

Asian Institute of Management, Makati City

**National Seminar-Workshop on Grassroots Innovation**

17-18 October 2007

University Hotel, University of the Philippines Diliman

**Conference on Existing and Emerging Issues on Food Safety in Mindanao**

11-12 October 2007

Grand Meng Seng Hotel, Davao City

**Seminar-Workshop on Ethics in Health Research**

11 October 2007

Ago Medical School, Bicol Region



**PCHRD-DOST Press Conference on Pharmaceuticals and Herbal Medicine**

10 October 2007

Sulo Hotel, Quezon City

**2<sup>nd</sup> Multipartite Forum on Research Strengthening for Avian Influenza and Other Emerging Infections**

11 October 2007

Pan Pacific Hotel, Manila

**Dissemination Forum for the Research Project, “Strengthening the Utilization of Research for Greater Effectiveness of the Interlocal Health Zone in Southern Leyte: Responding to Health Emergencies and Disasters”**

5 October 2007

Manila

**Forum on Communicating Research and Journal Publishing Technical Panel on Health Journal Publishing**

17 August 2007

Advanced Science and Technology Institute, Quezon City

**Research to Policy Forum with Local Government Units (LGUs)**

16 August 2007

Pan Pacific Hotel, Manila

**Research in the Market Place, Creating Research-based Enterprises**

15 August 2007

Asian Institute of Management, Makati City

**Press conference, “Benefits from Health Research”**

14 August 2007

Annabel's Restaurant, Quezon City

**NSTW Scientific Meetings**

16 July 2007

Dusit Hotel Nikko, Makati City

**29<sup>th</sup> Annual Scientific Meeting (ASM)**

11-12 July 2007

Manila Hotel, Manila

**2<sup>nd</sup> National Convention Outstanding Young Scientist, Inc.**

10 July 2007

Manila Hotel, Manila

**Symposium on Business in Research**

15 May 2007

New World Renaissance Hotel, Makati City

### **Technology Presentation of Iodine Meter**

28 March 2007

University of Santo Tomas, Manila

### **PCHRD-PCP Joint Press Conference on Cheap Medicines Act**

13 March 2007

Annabel's Restaurant, Quezon City

### **PCHRD-PCP Joint Press Conference on PNHR Bill**

27 February 2007

Annabel's Restaurant, Quezon City

### **PCHRD-PCP Joint Press Conference on Avian Flu**

06 February 2007

Annabel's Restaurant, Quezon City

### **2007 Symposium on Coconut Oil: State of the Art**

07 February 2007

Traders Hotel Manila, Pasay City

### **3<sup>rd</sup> Annual Philippine Biotechnology Venture Summit**

10-12 January 2007

Ateneo Graduate School of Business, Rockwell, Makati City

### **PRESS RELEASES**

- *DOST eyes herbal medicine industry expansion*, Philippine Daily Inquirer, 18 October 2007
- *Just because it's 'natural' doesn't mean it's safe*, Philippine Daily Inquirer, 07 October 2007
- *Ten medicinal plants*, Philippine Daily Inquirer, 07 October 2007
- *DoST exec: We should produce our own vaccines*, Manila Bulletin, 15 August 2007
- *Meet TRON, the science mascot*, Philippine Star, 15 July 2007
- *MMHSC opens exhibit on health products at Robinsons Ermita*, Commuter Express, 17 July 2007
- *UP Manila opens health exhibit*, Tempo, 17 July 2007
- *The medicinal value of the ampalaya*, The Manila Bulletin, 17 April 2007
- *Ampalaya in the treatment of diabetes*, Manila Bulletin, 16 April 2007
- *Ampalaya Leaf Tablet for Type II Diabetes*, Prime Newsweek, 8 April 2007
- *License agreement*, Manila Bulletin, 6 April 2007
- *Pascual Laboratories to develop Ampalaya drug*, Manila Times, 28 March 2007
- *Pascual Lab to make amplya drug*, Manila Bulletin, 28 March 2007
- *Hope for diabetics from Pascual Lab*, Business Mirror, 28 March 2007
- *Pascual Lab to sell ampalaya tablets*, Malaya 28 March 2007
- *Loss of traditional knowledge on medicinal plants feared*, Prime Newsweek, 26 March- 01 April 2007
- *Palace happy over gains in job creation*, Malaya, 17 March 2007

- *Health Research and Development Exhibits*, Manila Bulletin, 17 March 2007
- *New ampalaya classification to benefit local farmers*, Manila Bulletin, 12 March 2007
- *Philippines learns lesson on biopiracy*, Manila Bulletin, 11 March 2007
- *Docs say political medical missions dangerous to health*, Philippine Daily Inquirer, 2 March 2007
- *DOST pushes dev't of health research for cheaper drugs*, Philippine Star, 28 February 2007
- *DOST, DOH to intensify research to lower cost of medicines in RP*, Manila Bulletin, 28 February 2007
- *Filipino herbal experts now fighting biopiracy*, Manila Bulletin, 18 February 2007
- *Dr. Jose P. Rizal Awards for Excellence: Tsinoy doctor devotes life to medicine, community service*, The Manila Times, 16 February 2007
- *Herbal research at medicines sa Health Forum ngayon*, People's Balita, 13 February 2007
- *Govt back alternative medicine*, Manila Standard Today, 8 February 2007
- *Banta ng Avian Flu, tinatalakay*, People's Balita, 7 February 2007
- *PCHRD Hymn Contest, bukas na*, People's Balita, 29 January 2007
- *Revalidating Ampalaya*, Manila Bulletin, January 13, 2007

## TV FEATURES/INTERVIEWS

- Dr. Jaime C. Montoya, Herbal Medicine & Pharmaceuticals, UNTV, Sulo Hotel, Quezon City, 10 October 2007
- Benefits of Health Research, GMA-7, Annabel's Restaurant, August 14, 2007
- Benefits of Health Research, ABC-5, Annabel's Restaurant, August 14, 2007
- Benefits of Health Research, Annabel's Restaurant, ABS-CBN 2, August 14, 2007
- Dr. Jaime C. Montoya, Outstanding Young Scientist, ABS-CBN 2, June 10, 2007
- PCHRD 25th Anniversary, ABS – CBN, 16 March 2007
- PCHRD 25th Anniversary, Channel 13, 16 March 2007
- PCHRD 25th Anniversary, Channel 9, 16 March 2007
- Dr. Gemiliano Aligui, Cheap Medicines, GMA-7, 13 March 2007
- Dr. Jaime C. Montoya, PNHR Bill, ABS-CBN 2, 27 February 2007
- Dr. Marilyn Lorenzo, PNHR Bill, ABC-5, 27 February 2007
- Dr. Eliseo Banaynal, Herbal Medicines, GMA-7, 13 February 2007
- Dr. Isidro Sia, Herbal Medicines, RPN-9, 13 February 2007
- Herbal Medicines, Dr. Nelia Cortes Maramba, GMA, 13 February 2007
- Dr. Nelia Cortes Maramba, Herbal Medicines, RPN-9, 13 February 2007
- Dr. Dave Catbagan (DA), Avian Flu, ABC-5, 06 February 2007
- Dr. Dave Catbagan (DA), Avian Flu, GMA-7, 06 Feb 2007
- Dr. Dave Catbagan (DA), Avian Flu, TV Patrol, ABS-CBN 2, 06 February 2007
- Dr. Remigio Olveda (RITM), Bird Flu, ABS-CBN 2, 06 February 2007
- Dr. Remigio Olveda (RITM), Avian Flu, RPN 9, 06 February 2007
- Dr. Remigio Olveda (RITM), Bird Flu, ABC-5, 06 February 2007

## **RADIO FEATURES/INTERVIEWS**

- Ms. Rose Taguiang, Herbal Medicines, DZEM, 17 October 2007
- Dr. Jaime C. Montoya, Pharmaceuticals & Herbal Medicines, DZMM, 10 October 2007
- Dr. Jaime C. Montoya, Pharmaceuticals & Herbal Medicines, DZXQ, 10 October 2007
- Dr. Jaime C. Montoya, Herbal Medicines, DWBL, 10 October 2007
- Dr. Jaime C. Montoya, Pharmaceuticals, DZRH-RN, 10 October 2007
- Dr. Jaime C. Montoya, Herbal Medicines, DZEM, 10 October 2007
- Dr. Jaime C. Montoya, Cheaper Medicines, DZAR-Sunshine Philippine Movement, 03 September 2007
- Ms. Merlita Opeña, PNHRS, DZEM, Annabel's Restaurant, Quezon City, 14 August 2007
- Dr. Jaime C. Montoya, NSTW 2007, DZME, Frontline ng Masa, 17 July 2007
- PCHRD's 25<sup>th</sup> Anniversary, DWBL, 17 March 2007
- PCHRD's 25<sup>th</sup> Anniversary, DZRB, 17 March 2007
- PCHRD's 25<sup>th</sup> Anniversary, DZXQ, 17 March 2007
- PCHRD's 25<sup>th</sup> Anniversary, Bago Yan Ah! DZMM, 18 February 2007
- Dr. Nelia Cortes Maramba, Herbal Medicines, DWBC – AM, 13 February 2007
- Dr. Nelia Cortes Maramba, Herbal Medicines, DWSS, 13 February 2007
- Dr. Nelia Cortes Maramba, Herbal Medicines, Radio Veritas, 13 February 2007
- Dr. Isidro Sia, Herbal Medicines, Radio Veritas Asia, 13 February 2007
- Dr. Isidro Sia, Herbal Medicines, DWBL, 13 February 2007
- Dr. Dave Catbagan, Bird Flu, Radio Veritas, 07 February 2007
- Dr. Remigio Olveda, Avian Flu, DWBC-AM, 07 February 2007
- Dr. Dave Catbagan, Bird Flu, DWSS, 06 February 2007
- Dr. Remigio Olveda, Avian Flu, Radio Veritas Asia, 06 February 2007

## **WEBSITE ARTICLES**

- DOST Launches Usapang K, 02 October 2007
- Cheap Medicine Bill to be Tackled in House Plenary Before Recess, 20 September 2007
- Nominations Now Open for 2008 Philippine Federation of Chemistry Societies (PFCS) Awards, 18 September 2007
- Finland's Millennium Technology Prize Nomination Period Closing on 01 October, 13 September 2007
- Scientists Develop New Test for Liver Cancer, 09 August 2007
- Using Knowledge for Better Health is Theme of First PNHRS Week, 08 August 2007
- Research and Technology must be more industry-friendly, 28 May 2007
- BioAsia 2007 to Take Off in Thailand in November 2007, 27 May 2007
- DOST Intensifies Balik Scientist Program, 20 April 2007
- PGMA Reaffirms Government Commitment to Basic Drug Research, 18 April 2007
- Arroyo Trumpets Creating a Million Jobs in '07, 18 April 2007
- Pres. Gloria Arroyo's Speech during PCHRD's 25th Anniversary, 21 March 2007

## **PUBLICATIONS**

### **Print**

- 2006 PCHRD Annual Report
- PCHRD Coffeetable Book

### **Non-Print**

- Symposium on Business in Research, New World Renaissance Hotel, Makati City
- Research in the Market Place, Creating Research-based Enterprises, AIM Makati City
- RTD on Innovation in the Health Sector, Asian Institute of Management (AIM)

## **DOST@50: Making Science for You**

The Department of Science and Technology is celebrating its 50<sup>th</sup> anniversary around the theme, “Making Science Work for You” and has lined up a series of activities until June 2008.

It has recently unveiled a jubilee banner and a mascot named Tron that dances to the tune of a new DOST jingle called “*Lift Your Head High*” to promote interest in science and technology among Filipino youth. Tron debuted during last year’s National Science and Technology Week opening rites held at Dusit Hotel in Makati City.

The science community also commissioned Dr. Ramon Acoymo, dean of UP College of Music to re-arrange the DOST hymn, which will be launched in time for the opening of DOST Exhibit and “TienDOST” on June 9 at the Bicutan science complex.

The busy day will be followed by “*Gabi ng Ginintuang SinAg*”, a cultural night anticipated to be rich in memorable performances to be held in UP Theatre.

Meanwhile, the spotlight will again focus on the science achievers during the awarding ceremony set June 10 in Malacañang.

Fun and festivities will enliven the science community when it holds game shows and sports fest on June 11, and participation to the Independence Day parade of floats on June 12 in Rizal Park. The activities will be capped by a grand reunion and awarding of agency floats on June 13 in Bicutan.

The activities are designed to promote public awareness in science and technology and its important role in national economic development.

DOST traces its roots to the National Science Development Board established in 1958 mainly based on the report of Dr. Frank Co Tui, who was tasked by Pres. Ramon Magsaysay to survey the state of S&T in the Philippines. The report was completed during the Garcia administration.

In 1982, the NSDB was revamped into the National Science and Technology Authority and accorded broader policy-making and program implementing functions.

The NSTA was elevated to Cabinet level following EDSA II and becomes the Department of Science and Technology in response to increasing demands for S&T-based intervention in national development.

DOST has mandate to provide central direction, leadership, and coordination of all S&T activities in the country and support for national development priorities. It has now 16 regional offices and 87 Provincial S&T Centers that provide S&T services to people and industries in the regions.

Philippine Council for Health Research and Development Executive Director Jaime Montoya chairs the committee in-charge of the year-long activities for the 50<sup>th</sup> anniversary celebration.