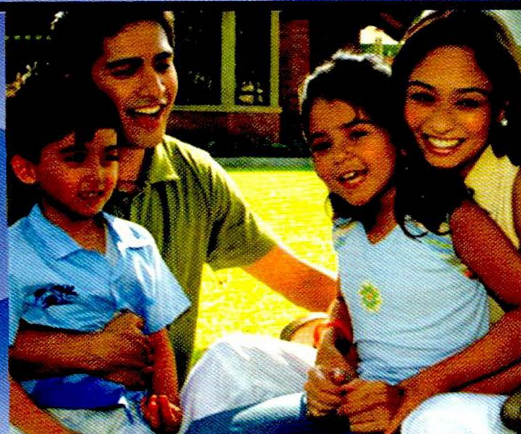
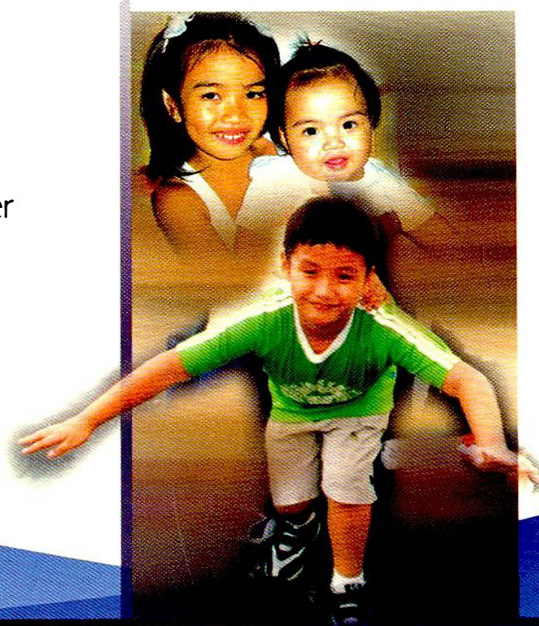




Philippine Council for Health Research and Development



25 Years of Making Lives Better  
for the Filipinos



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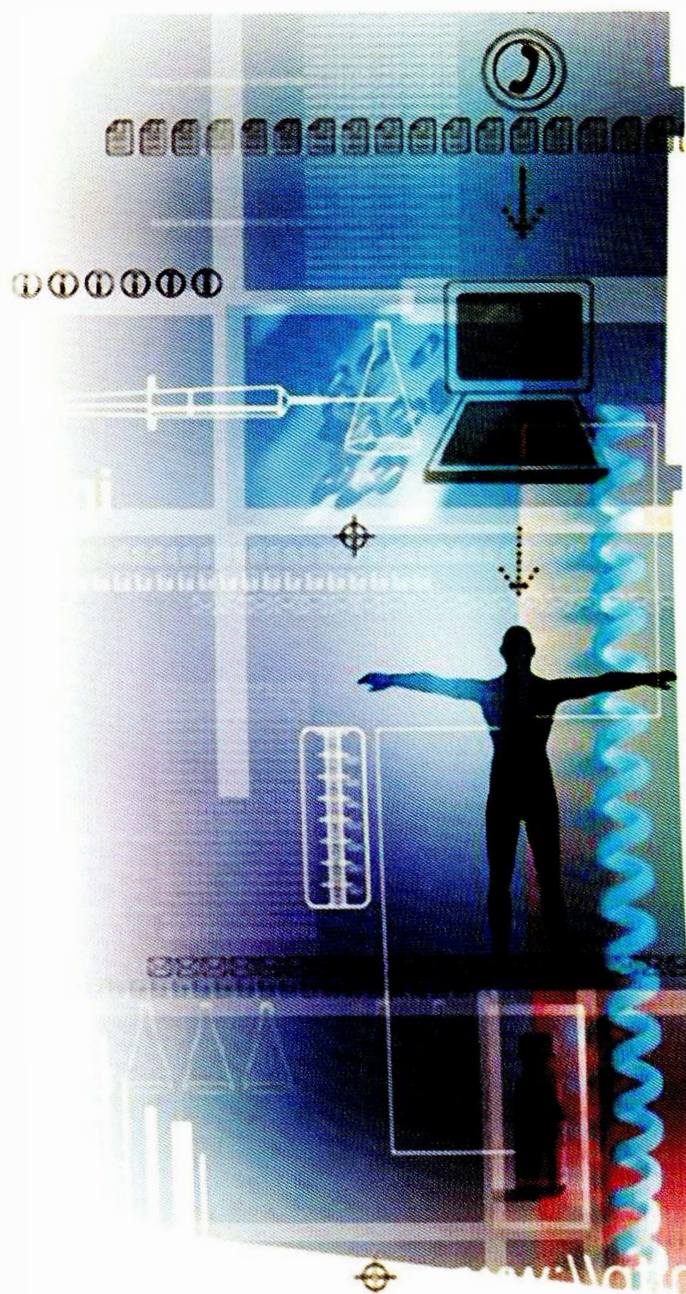
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## about PCHRD

The Philippine Council for Health Research and Development (PCHRD) 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, 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 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
- Practice 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





A handwritten signature in black ink, which appears to read 'Estrella F. Alabastro'.

ESTRELLA F. ALABASTRO, PhD

## 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 25th 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.



*Jaime C. Montoya*  
JAIME C. MONTOYA, MD, MSc



## 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 25th 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.



# PNHRS: The Next Level

## PHILIPPINE NATIONAL HEALTH RESEARCH SYSTEMS WEEK August 13-17, 2007

### Theme: Using Knowledge for Better Health

#### Plan of Activities

**13 August, Mon** Symbolic signing of Presidential Proclamation of PNHR Week @ Mulaacsaeng (PCHRD)

**14 August, Tues** 10AM, Presscon, "Benefits from Health Research" Ride with PCP Health Forum @ Annabel's (PCHRD;PCP) 2PM @ DAP, RTD on Communicating Research with the deans/heads of Communications Departments of Selected Universities towards enriching the curriculum (CHED;Capacity Building)

**15 August, Wed** 1PM @ AIM, Technology Commercialization: Strengthening Research to Industry Linkages (UP-NIH;PCHRD;AIM) 6PM Dinner, think tank from the private and industry sector (Resource Mobilization Committee)

**16 August, Thurs** Simultaneous regional forums on Research to Policy, to be convened by the Regional Health R&D Committees (RHRDCs)(DOH;PCHRD;DILG;SOME;RM) Region 4/Cavite LGU Region 3/Bulacan LGU Regions 1,2,6,7,8,11 DLSU-HSC Dasmariñas AUP Designated RHRDC convenor institution

**17 August, Fri** Forum on Communicating Research and Journal Publishing (CHED;PCHRD;Capacity Building;Technical Panel on Health Journal Publishing/Dr. Dina Nadera)



PNHRS | Philippine National Health Research System



Pres. Gloria Macapagal-Arroyo as Keynote Speaker, PCHRD's 25th Anniversary

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



1982

- PCHRD is created on 17 March 1982 through Executive Order No. 744

- The demand-pull strategy of Dr. Emil Q. Javier, Director General of the National Science and Technology Authority (the precursor of the Department of Science and Technology) sparks researchers to generate knowledge and innovations that respond to a felt need rather than create knowledge for its own sake

1983

- PCHRD sets up, using different approaches, research and development committees in Regions 7, 8, and 11
- The committee approach for regional health R&D development is tested in Region 8. This committee now serves as the model for other regional health R&D committees



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.



- A satellite project on acute respiratory infection is used as the core project for research capability development in Region 7. In Region 8, it was a schistosomiasis project.

In Region 11, herbal medicine research is adopted as the entry point for capability development.

## 1984

- Tablet forms of lagundi (*Vitex negundi* L.), yerba buena (*Mentha cordifolia* L.), tsaang gubat (*Ehretia microphylla* Lam.), and sambong (*Blumea balsamifera* L.) produced by the National Science and Technology Authority pilot plant are listed with the Bureau of Food and Drugs for mass distribution and use.

- The Ermita Health Science Community (EHSC) is organized with the University of the Philippines Manila as its nucleus.



PNHRS MOU Signing



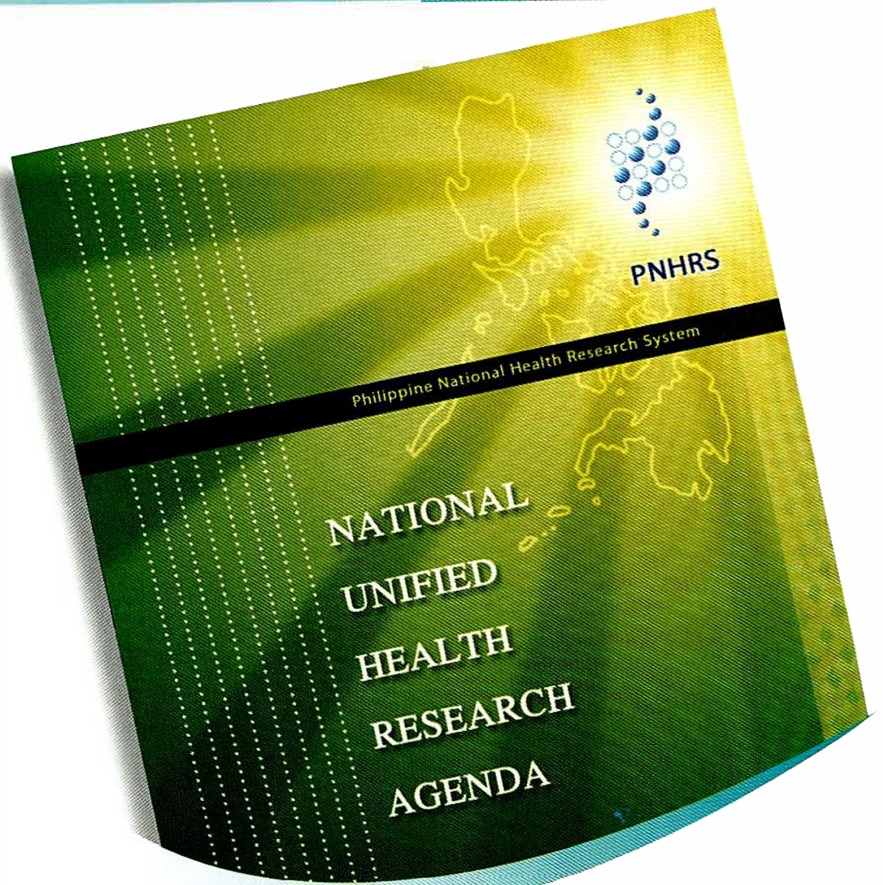
# PCHRD Gains In 2007 To Move Forward The PNHRS Vision

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

25  
• EHSC seeks to foster an interactive community of researches, and encourage the sharing of facilities and resources such as library, laboratory, and scientific equipment.

1985  
• The 2nd Health R&D Congress affirms the restructured National Health R&D Plan for 1985-1989.

• The Ministry of Health adopts PCHRD's herbal medicine production technology for its four production plants in Regions 2, 8, 11, and 12.

• The PCHRD Governing Council approves the National Guidelines for Biomedical Research Involving Human Subjects formulated by the National Ethics Committee.



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 6th 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. Further studies to confirm the results of the case study.

1986

• The Health Research and Development Information Network (HERDIN) is formally established with the signing of the memorandum of agreement between the three cooperators: PCHRD, Ministry of Health, and the University of the Philippines Manila. HERDIN responds to the need for health information in the research, academic, and health service delivery sectors.

• The Health Research and Development Committee in Region 6 (RHRDC-6) becomes the latest addition to PCHRD's health research network. RHRDCs serve as the structure through which PCHRD implements its research capability development program in the regions.

1987

• Results of the hepatitis B research of the University of the Philippines Manila Liver Study Group provides the rationale for including the immunization of hepatitis B high-risk groups in the Department of Health's Expanded Program on Immunization.



# PCHRD Gains In 2007 To Move Forward The PNHRS Vision



## Research Ethics

### Promoting a Strong and Responsible Health Research System

**G**uided 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.



• The campaign has successfully reduced the prevalence rate of schistosomiasis from 16 percent in 1982 to 9.6 percent in 1987.

• The Coco Oil Mission represented by PCHRD Executive Director Quintin L. Kintanar successfully lobbied in the US Congress for the dismissal of discriminatory labeling of three tropical oils, including coconut oil, as saturated fat. Such labeling would adversely affect coconut oil consumption in the US market, which is worth \$150 million annually.



# 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

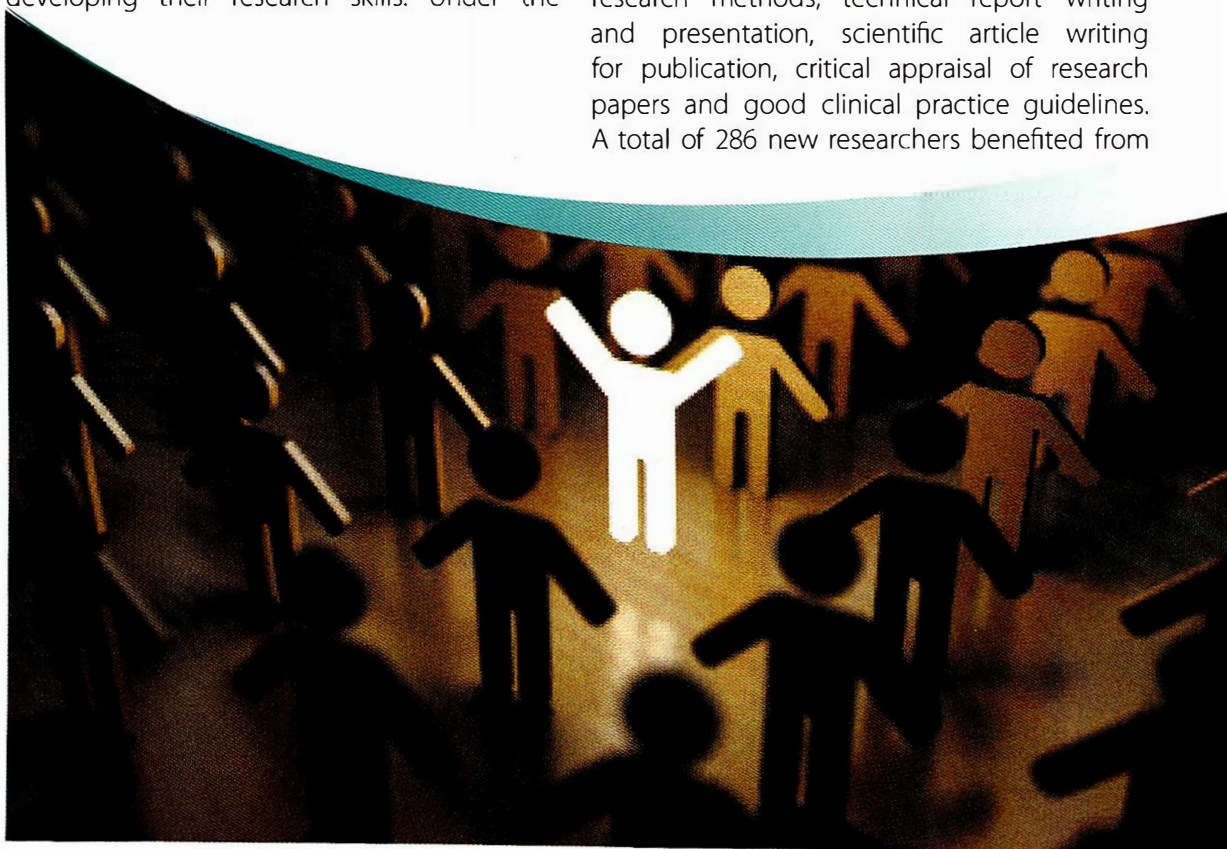


**1988**

- The 3rd National Health R&D Congress examines the relevance and responsiveness of PCHRD's programs to the needs of the major user of research results -- the Department of Health.

**1989**

- The procedures for the early detection and appropriate treatment of respiratory infections in children less than five years old are streamlined. These procedures form the core of the current nationwide program for the control of acute respiratory infections, which kill nearly 10 of every 1,000 Filipino infants.





# PCHRD Gains In 2007 To Move Forward The PNHRS Vision

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 PNHRS Best Mentor in Health Research was developed. The call for nomination for the award will be officially announced during the PCHRD 26th 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 P40,000 each in recognition of their promising researches in herbal medicine.

The second prize winners:

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 P20,000 each:

Mary Grace M. Galang, BS Chemistry, University of Santo Tomas, won for her research, "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."

Anna Ria B. Bautista, Cheryl An A. Buenviaje, Julianne Roi A. Buenviaje, BS Industrial Pharmacy, UP Manila College of Pharmacy, for their work on, "The Hemostatic Effect of Tinta tinta Ointment

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

#### 2nd Prize

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  
Warren S. Vidar  
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  
College of Pharmacy  
University of the Philippines Manila

#### 3rd 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  
Julianne Roi A. Buenviaje  
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  
College of Science  
University of Santo Tomas

25  
• A local version of antibiotic sensitivity discs that's half the price of those from the United States and Japan is developed. The paper discs enable sensitivity tests to be standardized, making laboratory monitoring and evaluation more efficient.

• The use of CD-ROM and electronic mail is demonstrated and promoted among information professionals in Metro Manila, Baguio City, San Fernando in Pampanga, Cagayan de Oro City, and Davan City.

• Training on information systems, including the use of CDS/ISIS version 2.3 (Computerized Documentation System/Integrated Set of Information Systems) are conducted for information workers in the country.





2007 PCHRD-Gruppo Medica Awardees

from the Dried Alcoholic Extract of *Eclipta alba* (L.) Hask (Asteraceae)."

## 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 Marican Business Hotel in Zamboanga City (for the island provinces of Basilan, Sulu and Tawi-tawi).



MOA Signing with  
Pfizer Philippines, Inc.  
and UPM-National  
Institutes of Health



1990

- DOST Secretary Ceferino L. Follosco advocates a market-oriented S&T philosophy. Health programs and projects are thus assessed in terms of the returns on investment they will bring to society.
- The 4th National Health R&D Congress focuses on research utilization.
- The Science and Technology Coordinating Council approves the Philippine Pharmaceutical Action Plan. PCHRD thus focuses its research efforts on the development of the identified priority pharmaceuticals, namely strategic pharmaceuticals, antibiotics, vaccines and biologicals, drugs from medicinal plants and marine resources, diagnostic reagents as well as medical devices, equipment, and laboratories for animal breeding.



# PCHRD Gains In 2007 To Move Forward The PNHRS Vision

## Structure/Organization Monitoring and Evaluation

### Fostering Regional Partnerships

**B**ased on the recommendation of the PNHRS 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



1991

- HERDIN databases are made available online using dialup packet switching technology. This development gives researchers, health professionals, program planners and implementers, policymakers, students, and teachers better access to health and related information.

1992

- PCHRD identifies and supports seven institutions with the greatest potential to become centers of excellence in research and training. These are Cebu Institute of Medicine, Davao Medical School Foundation, Far Eastern University Nicanor Reyes Medical Foundation, Manila Central University Filinvest, D. Tanchoco Medical Foundation, University of Santo Tomas Faculty of Medicine and Surgery, University of the East Ramon Magsaysay Memorial Medical Center, and the University of the Philippines College of Medicine





#### 1993

- The S&T Agenda for National Development or STAND 2000 espouses four major product and service groups which need S&T intervention. Under the basic domestic needs category the health sector identifies drugs, reagents, vaccines, biomedical devices, nutritional products, and traditional areas of concern as its research agenda for 1993-1998.

#### 1994

- The PhP14 million assistance to UP Manila's Institute for Socio-biomedical Research paves the way for the creation of the National Institutes of Health, a national facility for collaborative research.
- The reduction of the expensive cataract surgical set from 10-12 pieces to just six pieces is envisioned to make cataract surgery more affordable and prevent 1.6 million Filipinos with cataract from going blind each year.

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.

### 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 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.



# PCHRD Gains In 2007 To Move Forward The PNHRS Vision

## 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.



Dr. Jaime Barron, Municipal Health Officer, San Pedro, Laguna

  
• Excellence in undergraduate research is recognized through awards given by private organizations namely Gruppo Medica, Inc. and the Pharmaceutical HealthCare Association of the Philippines.

• Internet access is made available, opening a vast information resource to members of the health research network.

#### 1995

• The locally developed cerebrospinal fluid shunt promises to be a godsend to children with congenital hydrocephalus. Made of locally available materials and crafted with local tools, it costs 20-30 percent less than imported shunts.



## Ensuring Technology Transfer, Adoption, and Use

### License Agreements



Signing of License Agreement

• The production technologies for lagundi tablet and sambong tablet are transferred to Pascual Laboratories, Inc.

• Lagundi tablet is indicated for the relief of mild to moderate bronchial asthma and cough. Sambong tablet is a potent remedy for kidney stone dissolution and is an effective diuretic for those with edema.

#### 1996

• Lagundi and sambong tablets are launched in the market as Ascot® and Re-Leaf®, respectively. Ascot costs up to 79 percent less than its commercial counterpart in the same therapeutic category. Re-leaf is 40-92 percent cheaper than its commercial counterpart. It could save patients from undergoing lithotripsy, a surgical procedure which costs PhP50,000-70,000.

• The hemoglobinometer which measures the hemoglobin content of blood is enhanced into a photometer to measure bilirubin, glucose, urea, and cholesterol levels.

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



# PCHRD Gains In 2007 To Move Forward The PNHRS Vision

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 of the individuals 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, Binan, 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.



- DOST, United Laboratories, Inc., and the University of the Philippines sign a memorandum of agreement to produce the single enantiomer of (S)-(+)-ibuprofen using chirotechnology. The resulting technologies will reduce the cost of the raw material for ibuprofen, a non-steroidal anti-inflammatory drug.

- The first Outstanding Health Research Award (OHRA) is given to the UP Manila Liver Study Group (UPM-LSG) and the Health Finance Development Project of the Department of Health. UPM-LSG's comprehensive study on hepatocellular carcinoma provided the basis for DOH's policy on hepatitis B immunization. The Health Finance Development Project studied the economics of implementing a national health insurance program.





## 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.

**1997**

• Ascof and Re-Leaf win the Silver Medal (medicine category) at the 25th International Exhibition of Inventions, New Techniques, and Products held in Geneva, Switzerland. The two products also garner for its manufacturer, Pascual Laboratories, Inc., the Golden Shell Award Rising Star citation given by the Department of Trade and Industry for their huge potential in the international market.

• The diagnostic kit to test antibodies against the hepatitis B core antigen is completed. It wins the Third Prize in the Creative Research Likha Awards given during the National Inventors' Week.



# PCHRD Gains In 2007 To Move Forward The PNHR Vision

## 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.

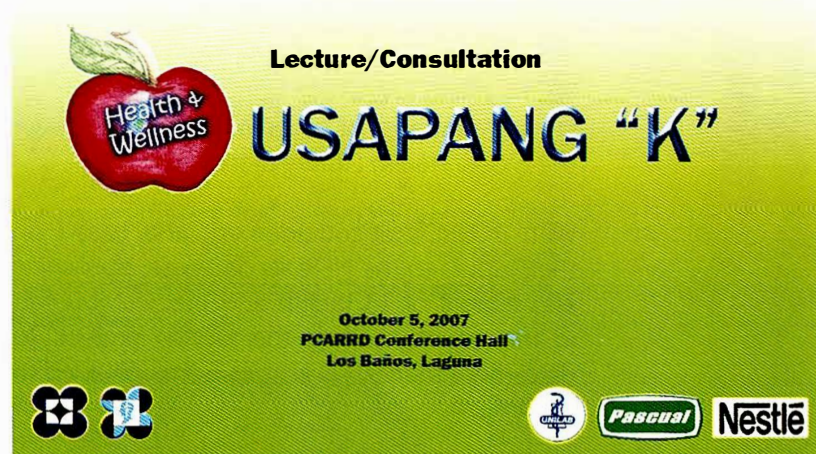
PCHRD released 30 press releases in the print media and 21 interviews on television and 22 on radio. Twelve articles were published online.

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.

Department of Science and Technology  
Philippine Council For Health Research and Development



- The production technology for akapulko lotion, an antifungal from Cassia alata leaves, is transferred to Pascual Laboratories, Inc. Akapulko lotion is estimated to cost 62 percent less than its commercial counterpart.

- A low-cost process that mixes provitamin A (beta-carotene) with coconut oil in quantities below toxic levels but high enough to correct vitamin A deficiencies among Filipinos is expected to help prevent about 17 Filipino children from going blind everyday due to Vitamin A deficiency.



# 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.

### AN ACT INSTITUTIONALIZING THE PHILIPPINE NATIONAL HEALTH RESEARCH SYSTEM, ESTABLISHING THE PHILIPPINE NATIONAL HEALTH RESEARCH FUND PROVIDING FOR ITS ADMINISTRATION AND FOR OTHER PURPOSES

By virtue of Executive Order No. 128, the Department of Science and Technology through the Philippine Council for Health Research and Development, is mandated to (1) provide central direction, leadership and coordination of scientific and technological efforts; (2) formulate and implement policies, plans, programs and projects for the development of scientific and technological activities in the public and private sectors; and (3) ensure that the results of scientific and technological activities are properly

• Vitamin A fortification technology for coconut oil (CNO) is adopted by San Pablo Manufacturing Corp., the manufacturer of Minola cooking oil. Vitamin A fortification of CNO is expected to help address the problem of Vitamin A deficiency. In the Philippines, 17 children go blind everyday due to lack of Vitamin A, their vision permanently destroyed. One out of 25 preschoolers suffers from night blindness and Bitot's spots.

• Diagnostic kits for cost-effective diagnosis of schistosomiasis and hepatitis using the dipstick technology are developed.

• A universal testing machine (UTM) which costs PhP7.4 million is purchased and installed at the University of the Philippines-Philippine General Hospital through PCHRD's coordination efforts. The UTM will enable the testing of locally developed biomedical device prototypes. This will allow researchers to assess and harness the full potential of these devices.

## 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 14th Congress to boost the meager resources now available for public health research. The bill, sponsored by Representatives Joseph Emilio Abaya (1st District, Cavite), Arthur Pingoy, Jr. (2nd District, South Cotabato), Aurelio Gonzales, Jr. (3rd 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

**T**he 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

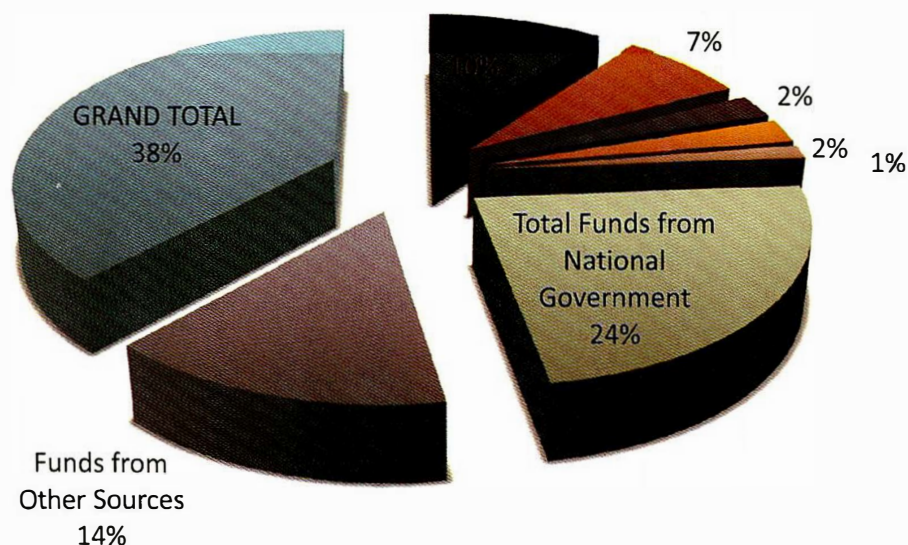
PARTICULARS	ALLOTMENT	EXPENDITURES	% OF UTILIZATION
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## General appropriations from Government

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	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>



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.

- The technology for the production of lagundi pediatric syrup is adopted by Pascual Laboratories, Inc. and Gruppo Medica, Inc.

- PCHRD sets up the health R&D committee in Region 1 (composed of Ilocos Norte, Ilocos Sur, La Union, and Pangasinan). PHRDC-1 is PCHRD's research capability development arm in Region 1.

- The HERDIN database is repackaged in CD-ROM. The first of its kind in the country, HERDIN (CD-ROM contains in a single disk over 26,000 records of Philippine health researches and full-text articles from 61 journals.



## 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. Sanial**

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



- The PCHRD-commissioned evaluation of the National Integrated Research Program on Medicinal Plants (NIRPROMP) recommends new directions to strengthen the herbal medicine program. It also pushes for the implementation of NIRPROMP's multidisciplinary approach in the Visayas and Mindanao.

- Building on the gains of HERDIN, PCHRD launches the e-Health information village. e-Health is a one-stop information resource on the Net where information users can access specialty databases, electronic journals, advisories, and directories.

### 1999

- The year-long bottom-up consultations conducted throughout the country for the formulation of the National S&T Agenda culminates in the 5th National Health S&T Congress.



# PCHRD Officials

## Executive Director

**Dr. Jaime C. Montoya**  
jcm@pchrd.dost.gov.ph

## Division Heads

### Finance and Administrative Division

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

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

### Research Management and Development Division

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

## Ms. Ma. Elizabeth R. Cajigas

(April – June; October – December 2007)  
Officer-in-Charge  
bethr@pchrd.dost.gov.ph

### Human Resources and Institution Development Division

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

### Research Information, Communication, and Utilization Division

**Ms. Merlita M. Opeña**  
Chief  
mmo@pchrd.dost.gov.ph



• The PCHRD CD-ROM Development Team is recognized and given the Sen. Ramon M. Magsaysay, Jr. Award for IT Innovation in Health.

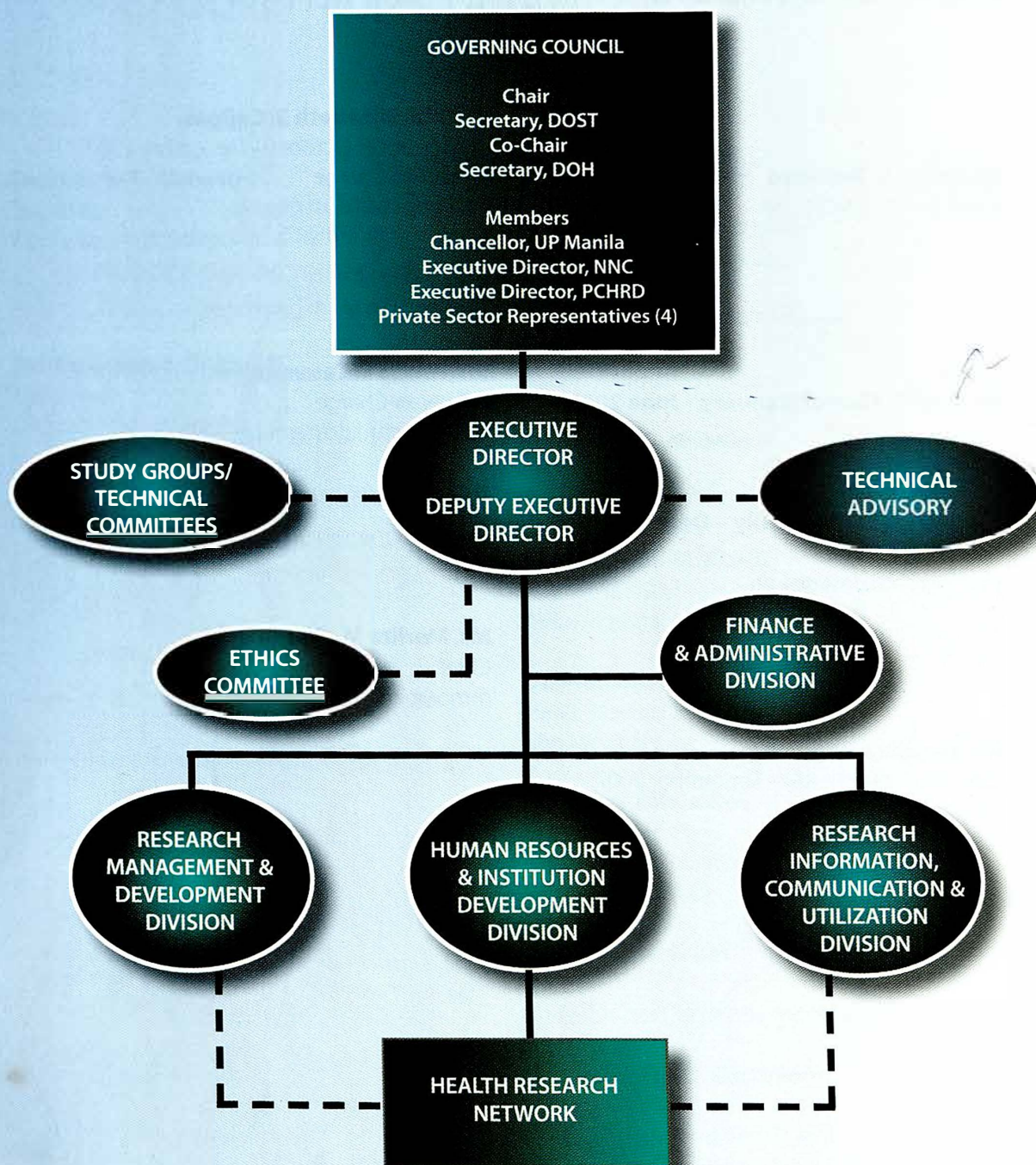
## 2000

• In the biomedical research category, OHRA is given to the Newborn Study Group of the National Institutes of Health, University of the Philippines Manila led by Drs. Carmencita Padilla and Carmelita Domingo. Their work on newborn screening provided baseline data on preventable genetic diseases of the newborn, a tool for the early detection and management of congenital disorders that can lead to mental retardation and death.

• Dr. Thelma Tupasi of the Tropical Disease Research Foundation bagged the OHRA in the health services research category for her 1997 National TB Prevalence Survey. Results of the study raised the level of understanding of the tuberculosis problem in the country, pointing to the need for public and private sector collaboration in the implementation of the National TB Control Program's directly observed therapy (DOT).



# Organizational Structure





## 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



• PCHRD formally launches the twinning program, a mechanism that enables Metro Manila-based medical school to work with a region-based medical institution in a handholding strategy to develop research capability.

## 2001

• PCHRD supports the Antibody and Molecular Oncology Researchers (AMOR) from the University of the Philippines, Far Eastern University, and Ateneo de Manila University. AMOR seeks to develop the Filipino capability to produce anti-cancer drugs that will put the country at the cutting edge of biotechnology research.

• The yerba buena tablet proves to be statistically comparable to the standard drug paracetamol as analgesic for acute to severe post-operative pain, post-dental extraction, episiotomy, and breast biopsy.

• Along with Pascual Laboratories, Inc. and Gruppo ... Medica, Lloyd Laboratories, Inc. engage in co-manufacturing and co-marketing of la gundi tablet and lagundi pediatric syrup as cough remedy and asthma control, sambong tablet as diuretic, and akapulko lotion as antifungal.



## **Study on Sub-acute Schlerosing 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



• PCHRD, together with the Food and Nutrition Research Institute and San Pablo Manufacturing Corporation, sign a tripartite memorandum of agreement on developing the technology for Vitamin A fortification of margarine. Food fortification with Vitamin A is envisioned to eliminate Vitamin A deficiency as a public health problem.

• A learning caravan held at the pilot sites of the multipurpose community telecenters (MCTs) in Lanao del Norte (Region 12) and Agusan del Norte (CARAGA) serves as an evaluation and learning activity among stakeholders. Key players from the MCT sites share experiences and lessons learned, noting the different environments of the MCTs.

2002

• HERDIN is made available to the public, for free, through [www.herdin.ph](http://www.herdin.ph), enhancing access to health research and related information. In just four months, the number of HERDIN subscribers jumps by 400 percent.





• Two researches get the 2002 OHRA for the biomedical research category. One is the Dengue Research Program of St. Luke's Medical Center for developing diagnostic reagents and kit for dengue fever detection. The other is Dr. Edward Wang's research work that provides an alternative to amputations and limb loss due to bone cancer through bone transplant using allografts and limb-saving surgeries.

• In the health services delivery category, the Helminthiasis Study Group of the University of the Philippines Manila bags the OHRA for its research on the widespread occurrence of death among children due to soil-transmitted helminthiasis and its implications on the nutritional status and mental health of children.

## 2003

The Philippine National Health Research System (PNHRS) is established through a memorandum of understanding signed by DOST Secretary Estrella E. Alabastro and DOH Secretary Manuel A. Dayrit. PNHRS is tasked to promote and enhance cooperation between and among organizations and networks to pool and share resources; develop capacity for knowledge creation, management, and use; and avoid research duplication and thus deliver responsive solutions to the country's health problems.

## 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



• PNHRS, through DOH-Health Policy Development and Planning Bureau (HPDPB) and DOST-PCHRD, holds the 4th Health Research for Action National Forum. The forum seeks research inputs that will feed into the following outcomes: better defined priority policies that are eventually adopted, improved health service delivery, and easier access to health services.

• The PNHRS programs are conceptualized. Six technical working groups are formed to implement these programs: research management; ethics; capacity building; research utilization; resource mobilization; and structure/organization, monitoring and evaluation.

### 2004

• PNHRS holds the 1st PNHRS Assembly back to back with the 5th Health Research for Action National Forum. The assembly gets stakeholders' inputs to the mechanisms, governance, structures, resources and action plans necessary for an effective, efficient and equitable operation of PNHRS.





- The forum highlights three areas of health gains to which research could most contribute: 1) reduction in the burden of disease either through reduced prevalence or incidence, reduced severity of illness, or reduced adverse consequences of illness; 2) greater equity in access to and use of outcomes derived from healthcare; and 3) improvement in efficiency of healthcare provision.

- The First National Assembly of Institutional Ethics Review Committees (IERCs) in the Philippines is convened under the sponsorship of the UP-Fogarty Bioethics Project in collaboration with DOH-HPDPB and PCHRD. About 50 representatives of IERCs all over the country respond to the call to improve ethics review in the country.

- PCHRD scholars who successfully completed their theses/dissertations and post-graduate education for the period 2000-2004 are awarded medals of recognition.

- HERDIN Network of Networks (NeON) goes on trial run at the University of Northern Philippines. HERDIN NeON is a distributed system that will fan out among partner-institutions the responsibility and capacity for content development using an open-source software. This gives the partners greater stake in determining the type and quality of data inputted in the HERDIN database.

**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*

#### Dissertation

**Ms. Bella Panlilio**

PhD Chemistry (UST)  
Angeles University Foundation  
Isolation and Structural Elucidation of the Antitubercular Constituents from *Momordica charantia* Linn.



• PHRS, through DOST-PCHRD, DOH, and the Commission on Higher Education conduct regional and zonal consultations with various stakeholders in order to craft a national unified health research agenda (NUHRA) for 2006-2010. As the one single blueprint for health research initiatives in the country, NUHRA will help rationalize investments in health R&D, reduce wasteful and unnecessary duplication of efforts, maximize resource utilization, and ultimately provide responsive solutions to the country's health needs.

• Results of completed projects of the Regional Health Research and Development Committees are disseminated through an inter-regional presentation. Two timely studies on dengue fever, a disease spread by the mosquito *Aedes aegypti* which is prevalent in the country during the rainy season, were presented.

### 2006

• The Philippine Health Research Ethics Board (PHREB) evolves from the PHRS Technical Working Group (TWG) on Ethics and is formally constituted on 17 March 2006. PHREB is mandated "to ensure that all phases of health research adhere to universal ethical principles that value the protection and promotion of the dignity of health research participants."





- A task force composed of representatives from the National Ethics Committee and the TWG on Ethics revise the old ethical guidelines for research and draft new ones. These include special guidelines on clinical trials, herbal medicine research, complementary and alternative medicine, epidemiological studies, social and behavioral research, investigations involving traumatized populations, HIV/AIDS research, studies on assisted reproductive technology, genetic research, and international/collaborative research. The new version titled National Ethical Guidelines for Health Research is launched on 28 September 2006 during the 7th Health Research for Action National Forum.

- PNHRIS firms up the National Unified Health Research Agenda 2006-2010 and launches it during the 7th Health Research for Action National Forum.

- The Cagayan Valley Health Research and Development Consortium (CVHRDC) is formalized in April 2006. CVHRDC consists of 18 institutions in Cagayan Valley that have agreed to strengthen cooperation, complementation of activities, and resource sharing toward more vigorous R&D efforts.

- Virgin coconut oil is found to be an excellent feeding supplement that lowers by half the sepsis rates suffered by premature babies, or those that weigh less than 1,500 grams. Common among very low birth weight infants, sepsis is a major cause of deaths among newborns.

## 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

#### **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

#### **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

## Dissertation

#### **Mr. Jose Mallari**

PhD Biological Sciences (UST)  
Manila Central University  
Production of Biodegradable Polybeta-  
hydroxybutyrate 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

## 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



2007

- President Gloria Macapagal-Arroyo proclaimed every second week of August as PNHRS Week to promote exchange of health research and information among health stakeholders in support of the government's health policy and programs.
- The PNHRS Bill was filed during the 14th Congress, both in the Lower House and in the Senate. The proposed Bill that seeks to secure sufficient and stable funds from the income of revenue-generating government institutions.
- Four regional health research consortia were established: 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.



## 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

### Basic Research Methods Training

Mamitua Saber, Mindanao State University, Marawi City  
October 23-26, 2007

### Research Methods Course for 3rd 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, Pagudpod, San Fernando City, La Union  
March 26, 2007

### 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>•Herbs and Nature Corporation</li> <li>•Herbicare 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

• PCHRD signed license agreements on the transfer of production technologies for Ampalaya Tablet with Pascual Laboratories, Inc., Herbs and Nature Corporation, Herbicare Corporation and Philippine Institute of Traditional and Alternative Health Care.

• Another license agreement was signed on the transfer of production technologies for Ampalaya Tablet, Lagundi Tablet and Lagundi Pediatric Syrup with Qx Pharmaceutical, Inc.

• HERDIA 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.



## 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 Repellent Lotion from the leaves of "Alis" Process of Extraction and Improved Repellent Composition	Utility model	Ileana R. F. Cruz, Lilian De Las Llagas	Granted on 07 June 2007

## 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

## 20th 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

## 2nd National Convention Outstanding Young Scientists, Inc.

10 July 2007  
Manila Hotel, Manila

## 29th 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 3rd UP Global Health Course

10-15 April 2007

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

February 2007

## GIA-FUNDED DISSEMINATION ACTIVITIES

### Symposium on the Glycemic Index (GI)

13 December 2007  
EDSA Shangri-La Hotel, Manila

### 5th 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.



**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

**29th 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

**Pamilyang 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

**28th National Conference  
of Employers Exhibition  
"Reaching Out: Competitiveness,  
Partnerships, Reforms"**

20 – 21 March 2007  
Centennial Hall, Manila Hotel

**PCHRD 25th 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.

### **3rd Biotechnology Week**

24 – 30 2007

Department of Environment and  
Natural Resources, Quezon City

### **5th 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

### **2nd 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

**29th Annual Scientific Meeting (ASM)**

11-12 July 2007

Manila Hotel, Manila

**2nd 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 o  
n 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

**3rd 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 ampalaya 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
- **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

#### 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



- **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 25th Anniversary**  
DWBL, 17 March 2007

- **PCHRD's 25th Anniversary**  
DZRB, 17 March 2007

- **PCHRD's 25th Anniversary**  
DZXQ, 17 March 2007

- **PCHRD's 25th 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

- 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

## 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 PNHRWeek, 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

## 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 Work for You

The Department of Science and Technology is celebrating its 50th 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.

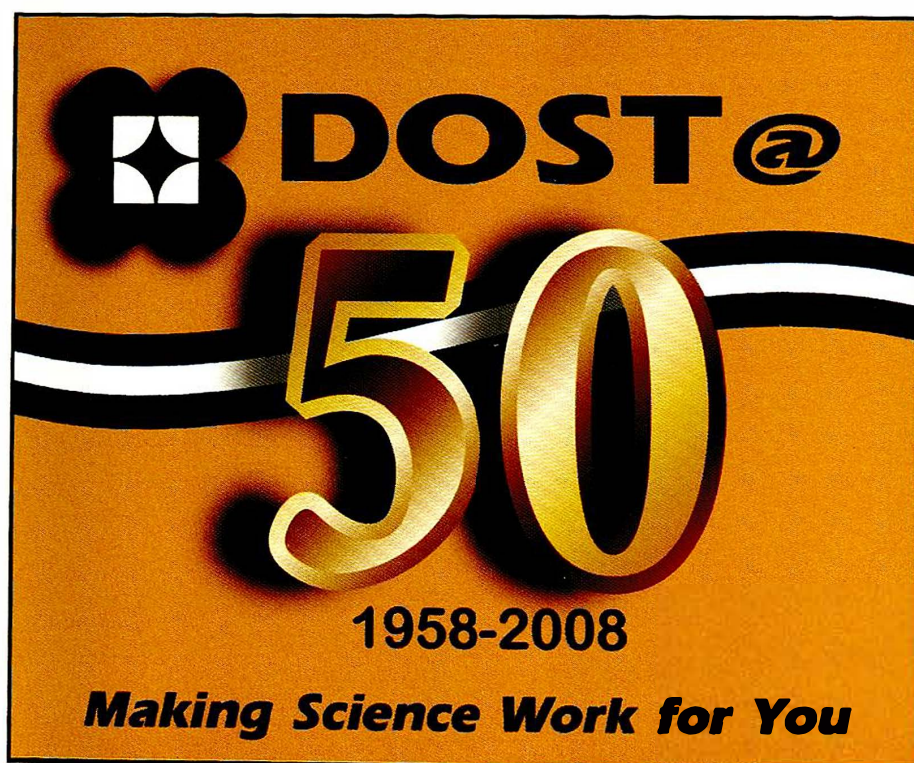
In 1982, the NSDB was revamped into the National Science and Technology Authority and accorded broader policy-making and program implementing functions.

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 50th anniversary celebration.









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