

# ANNUAL REPORT 2018



## MAKING YOUR LIFE BETTER



Department of Science and Technology  
**PHILIPPINE COUNCIL FOR HEALTH RESEARCH AND DEVELOPMENT**

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# THE COUNCIL



**DOST-PCHRD**

The Philippine Council for Health Research and Development (PCHRD) is one of the three sectoral councils of the Department of Science and Technology (DOST). It is a forward-looking, partnership-based national body responsible for coordinating and monitoring research activities in the country.

PCHRD was created on March 17, 1982 through Executive Order No. 784. In 1987, Executive Order No. 128 reaffirmed its existence and relevance. This directive reorganized the National Science and Technology Authority into what is now the Department of Science and Technology.

#### OUR VISION

A healthy Filipino nation that benefits from research-based solutions and innovations

#### OUR MISSION

As the national coordinating body for health research, we provide central direction, leadership, and coordination of health S&T. To achieve this, we are committed to do the following:

- Formulate agenda, plans, policies, and strategies for health science and technology development;
- Mobilize resources to support health S&T development;
- Develop and strengthen capacity for health research;
- Support the development of affordable, accessible, and quality S&T-based solutions and innovations;
- Ensure the dissemination and utilization of health research outputs;
- Monitor and evaluate health S&T activities;
- Establish linkages and partnerships with local and international organizations
- Advocate an ethical health research culture

#### CORE VALUES

- **P**assion for excellence and innovation in public service
- **C**ulture of teamwork and collaboration
- **H**igh regard for work ethics and integrity
- **R**esponsive personal effectiveness
- **D**ynamic involvement in quality management system



## MESSAGE OF THE SECRETARY

The year 2018 brought with it another very sound performance by the Philippine Council for Health Research and Development (PCHRD) and one of our stronger funding years with over 500M pesos awarded to researchers and institutions in the country.

As the national coordinating body of health research, the Council has made significant advancements and research-based solutions and innovations to address health system needs.


Notable achievements from the Council's high impact projects and programs were provided in this annual report.

The Tuklas Lunas Program continues to make important leaps in drug discovery and development from local natural resources. From several major projects completed in 2018, we expect to support follow-up studies for the advancement of promising candidates into the next stage of development. We also continue to invest in Omic technology platforms to develop local technologies for personalized medicines, diagnostics, and therapeutics, para sa lunas na sakto sa Pilipino. Particularly for the Cardiovascular Genomics Program, initial findings showed that a percentage of genetic variations present in published literature are not seen in the Filipino participants of the program, highlighting the importance of ethnicity in predicting drug response on CVD medications.

With partnership as a way of life, PCHRD's work in the Philippine National Health Research System (PNHRS) and international community further strengthens the interconnections among researchers, policymakers, government agencies, international organizations and the public, making sure that the research results are widely disseminated to and utilized by the people and target beneficiaries.

The year ahead will be challenging as we look forward to implementing our programs and projects that will make a real difference to the lives of the community. It is clear that if we continue to work on health research impacts and outcomes we can position research at the heart of the health system and ensure that evidence is used for decision-making, policy, and practice.

In closing, I'd like to thank the men and women behind PCHRD and partners for the commitment, hard work and dedication that led to so many highlights in 2018.

  
**FORTUNATO T. DE LA PEÑA**  
Chair, PCHRD Governing Council and  
Secretary, Department of Science and Technology



## EXECUTIVE DIRECTOR'S REPORT

On behalf of the Governing Council, I am pleased to present the 2018 Annual Report of the Philippine Council for Health Research and Development (PCHRD).

As the country's lead agency for health research, PCHRD plays a crucial role in the generation of new knowledge and its translation into improved health of Filipinos, more effective health services and products, and a more vibrant and dynamic Philippine National Health Research System (PNHRS). Over the last year, we continued to work closely with the health research community, made improvements in our processes, and supported priority researches aligned with the National Unified Health Research Agenda (NUHRA) and the Harmonized National Research and Development Agenda (HNRDA).

On R&D, we invested 428 million in projects, 46 of which were implemented under the Tuklas Lunas program. We monitored 63 ongoing projects supported through our Regional Research Fund (RRF) which aims to build and strengthen research management capacities of our researchers in the regions.

Along the same path, PCHRD made great progress in fostering the creativity and productivity of health researchers. We invested 55.6 million in scholarship grants, research fellowships, and other assistance for capacity building. We supported 203 scholars through the Accelerated Science and Technology Human Resource Development Program (ASTHRDP). Our MD-PhD in Molecular Medicine Program welcomed 10 new scholars. We launched the Gelia T. Castillo Award to recognize change makers and highlight the innovativeness and responsiveness of various researches that are funded and implemented through PCHRD in addressing societal and health system challenges.


The Philippine Health Research Ethics Board (PHREB) continued its accreditation visits. As of December 2018, PHREB already accredited a total of 80 research ethics committees (RECs) in the country; Level 3, 47; Level 2, 20; Level 1, 13.

We continued to expand access to health research information and visibility in social media. Our national health research repository, the Health Research and Development Information Network (HERDIN), now contains 68,496 records. In Facebook, we were able to reach 68 million followers and make six million engagements.

The Council also sustained its momentum on health research promotion and utilization, with 69 million allocated for dissemination and information services. Fifteen policy instruments were produced to aid program managers and policymakers in generating evidence-informed measures.

In 2018, we successfully made the transition towards ISO 9001:2015. PCHRD's Quality Management System has been assessed as conforming to international standards and received certification from Certification International Philippines, Inc.

Allow me to close by expressing my gratitude to the health research community we serve and the men and women of PCHRD whose dedication allows us to deliver on our social contract to make the lives of Filipinos better through health research.

  
**JAIMIE C. MONTOYA MD, MSc, PhD, CESO III**  
Executive Director



**36<sup>TH</sup> PCHRD**  
**ANNIVERSARY**  
**Research on Social Innovations in Health**

On its 36th anniversary, the Philippine Council for Health Research and Development (PCHRD) showcased the importance of health research in empowering individuals and communities to achieve their optimum potential with the theme, Research on Social Innovations in Health. The celebration took place on 16 March 2018 at the Philippine International Convention Center (PICC), Pasay City.

Highlight of the program was the recognition of good social innovation practices in health including the winners of the 2017 Search for PHL Social Innovation in Health Initiative (SIHI) Solutions. The Call aims to honor innovations that demonstrate inclusivity, affordability, and effectiveness in health care in the country. The Gelia T. Castillo Award was also introduced during the plenary in honor of the contributions of Dr. Gelia T. Castillo, National Scientist, who pioneered the concept of participatory development. This award aims to recognize change makers and highlight the innovativeness and responsiveness of various researches that are funded and implemented through PCHRD in addressing societal and health system challenges.

A panel discussion was held to discuss opportunities and frameworks for social innovation in health research. Panelists include University of the Philippines (UP) Manila Professor Noel Juban, UP School of Economics Professor Aleli Kraft, Ateneo De Manila University Institute of Philippine Culture Research Associate Dennis Batangan, and Surigao del Norte Municipality of Del Carmen Mayor Alfredo Coro.

In the afternoon, parallel sessions were held: Engaged: Communicating Health Research in Everyday Language; PCHRD Scholars' Society Annual Convention and General Assembly; 6th Philippine Association of Medical Journal Editors General Assembly; Meeting on Social Innovation; Health Resiliency Consultation Meeting; and PNHRs Research Agenda Committee Meeting.



## Awarding



### Social Innovations for Health Initiative: Top Solutions

1. Inter-Island Health Referral System Strengthening through One Facility, One Health Service Boat Project (*Zumarraga Municipal Health Office*)
2. Seal of Health Governance (SOHG) (*Local Government Unit of Del Carmen*)
3. National Telehealth System (*National Telehealth Center*)
4. 6.60 Kada Araw na Hulog para sa Kalusugan ng Pamilya (*Philippine Health Insurance Corporation - Puerto Princesa*)
5. Integration of Mental Health Services in the Primary Health Care System in the Province of Camiguin (PCHRD-funded)
6. eHATID LGU: eHealth TABLET (Technology Assisted Boards for LGU Efficiency and Transparency) for Informed Decision-making for Local Government Units (PCHRD-funded)



The Gelia T. Castillo Award for Social Innovations in health (GCASIH) is looking for novel solutions in response to a priority health need within a geographical context and implemented by different cross-sectoral organizations,



### Visual Abstract Contest

Rank	Name
1st Place	Mr. Arizaldo Castro
2nd Place	Mr. Eric John Aguilar
3rd Place	Mr. Gabriel Potestades

The Council conducted the Visualize Health Research: Visual Abstract Contest which aims to translate PCHRD projects published in scholarly journals into visual abstracts and were posted in Facebook and Twitter. Winners of the contest were awarded during the PCHRD anniversary celebration.

### Accreditation of Research Ethics Committees

Accreditation Level	Research Ethics Committee
Level 3	1. Baguio General Hospital and Medical Center - Ethics Review Committee
	2. Far Eastern University – Nicanor Reyes Medical Foundation - Institutional Ethics Review Committee
	3. National Kidney and Transplant Institute - Research Ethics Committee
	4. Lung Center of the Philippines - Institutional Ethics Review Board
	5. St. Cabrini Medical Center – Asian Eye Institute - Ethics Review Committee
	6. University of the Philippines Manila - Research Ethics Board
Level 2	1. Tropical Disease Foundation - Institutional Review Board
	2. Batangas Medical Center - Research Ethics Review Committee
	3. Davao Medical School Foundation Hospital - Research Ethics Committee
	4. De La Salle University Manila - Research Ethics Review Committee
Level 1	1. Ateneo de Zamboanga University - Ethics Review Committee
	2. Bataan Peninsula State University - Peninsulares Research Ethics Committee
	3. University of San Agustin - Research Ethics Review Committee



The Philippine National Health Research System Week, celebrated every second week of August, serves as a platform for participants to discuss the current situation, challenges, and advancements related to improving health and equity through reinforced health research and innovation in the regions and local communities.

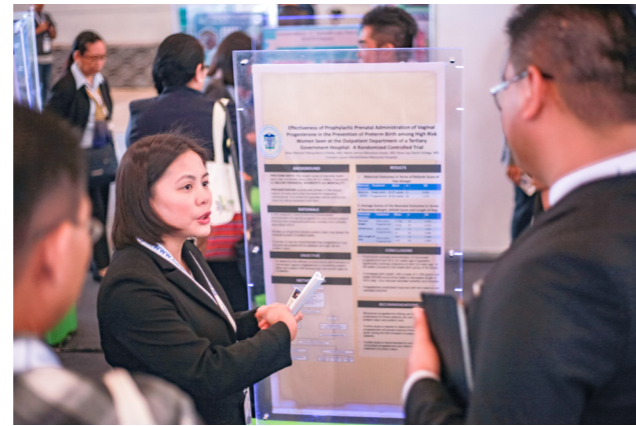
The 12th PNHRS Week celebration, co-organized with the Cordillera Regional Health Research and Development Consortium (CRHRDC), was held at the CAP-John Hay Trade and Cultural Center in Baguio City on 6-9 August. It was attended by more than 1000 stakeholders who participated in the plenary and parallel sessions.

This year's event theme, "Research and Innovation for Equity in Health," gives importance into transforming historical and ongoing inequity and uneven distribution of health resources through reinforced health research and innovation in the regions and local communities. The theme also reflects the System's support to the Philippine Health Agenda, "All for Health towards Health for All," wherein health research and innovation should be conducted for the benefit of everyone – regardless of one's socio-political, financial status, and cultural background.

Plenary and parallel sessions of the main conference covered topics including governance and equity in health, research and innovation for equity in health (experiences, issues, and challenges), assessment of traditional knowledge documentation program based on WIPO recommendations, translating research into public health programs (forum on sexual, reproductive health, HIV, teenage pregnancy and mental health) and strengthening research offices of higher education institutes (HEIs) and research and development institutions (RDIs).

Satellite events also featured sessions and workshops such as Translating Research into Policy, Research Presentation (Professional and Student categories), Updates on Ethics in Research, Understanding the Data Privacy Act in the Context of Health Research, and Communication Campaigns: Designing Effective Collaterals.





## Awards

### Research Presentation (Professional Category)

- First Phenotypic Characterizations of Aguinardo Phage Library Isolated from Dasmariñas, Cavite Creek Using Multidrug Resistant Bacteria Host Cells: Implications for Phage Therapy  
**SUPACHAI A. BASIT, RMT, PHD**  
Emilio Aguinaldo College of Cavite
- Second Antibiotic Resistance Profile of Gram Negative Bacilli Isolated from Selected Ants in Selected Level 1 Hospitals in Davao City  
**ANNA-LEE B. BANDOY**  
University of Immaculate Conception
- Third Analysis of the Health Status of ST Haiyan Affected Communities in the Island of Leyte  
**CHARLIE LABARDA, MD**  
University of the Philippines, School of Health Sciences

### Research Presentation (Student Category)

- First Growth Inhibition and Relative Shortening of Telomere Length by Mannosylerythritol Lipid Extracts From *Pseudozyma aphidis* t on Saos-2 Human Osteosarcoma Cell  
**Ms. Dinesse A. Labiros**  
University of San Carlos
- Second Modified Starch from Rice Bran as Adsorbent of Heavy Metals in Aqueous Solution  
**Ms. Faye Marion C. Sebastian**  
Nueva Ecija University of Science and Technology
- Third Synergistic Fungistatic Property of *Allium sativum* (Garlic) Clove and *Zingiber officinale* (Ginger) Rhizome Extracts on *Aspergillus flavus*  
**Ms. Krixia Laine S. Yu**  
Ateneo De Zamboanga University

### Best Consortium Website

Cordillera Regional Health Research and Development Consortium

## In the Regions

Following this year's PNHRS Week theme "Research and Innovation for Equity in Health," regional health research consortia held conferences in their regions.



Region 1

2018 Regional Research Conference, Research Dissemination Forum and Research Exhibit



Region IV-A

4th Multidisciplinary Research Forum



Region 7

3rd Central Visayas Health Research and Innovation Conference



Region 11

8th Health R&D Expo



Caraga

Caraga Health Research Forum



# INTERNATIONAL COLLABORATIONS

## ASEAN Network for Drugs, Diagnostics, Vaccines, and Traditional Medicines Innovation (ASEAN-NDI)

On 02 February 2018, a teleconference with DxH Hub Singapore was conducted to discuss the proposed collaboration with the Network on the creation of the ASEAN diagnostic development initiative. It was agreed that a policy committee that will draft the plans and agreements will be established.

A meeting between the Singapore and Philippine COST Chairs was conducted during the ASEAN-Japan STS Forum workshop in Cebu, Philippines on the 26 April 2018. The COST Chairs agreed that ASEAN-NDI may be used as the platform for cooperation on diagnostics development in ASEAN. A concept paper on the initiative was prepared, submitted, and presented to the ASEAN Subcommittee on Biotechnology (SCB) for endorsement to COST. A Strategic Planning Panel (SPP) that will be composed of the 10 member states will be organized to prepare the roadmap for the initiative.

On 15 October 2018, the Philippine Health Research Ethics Board (PHREB), through ASEAN-NDI, led the follow-up meeting of ASEAN member states held in Cebu to discuss the finalization of the draft terms of reference for the establishment of the ASEAN Network on Health Research and Public Health Ethics that will promote the ethical conduct of health research and public health activities in the region. Participants from the ASEAN member states presented their existing research ethics and public health ethics infrastructures for the past two years.

## Newton Agham

### Leaders in Innovation Fellowship Programme

PCHRD monitored this year's implementation of the Newton Agham Leaders in Innovation Fellowship Program implemented by Asian Institute of Management and UK's Royal Academy of Engineering. The Program is open to all academic researchers across the country and technology transfer officers with DOST-funded technology, who are in the process of developing a business plan for their technology or innovation. The program consists of a three-day launch in AIM, followed by a two-week training program in UK, and finally, a six-month course in AIM. The call for participants was launched last October 1. Ten researchers and five techno-transfer officers were eventually selected to be part of the program.



# BATTLE IN THE BLOOD



A DIGITAL MOBILE ADVOCACY GAME ABOUT HIV  
**DOWNLOAD NOW FOR FREE!**

### PCHRD-MRC UKRI Joint Health Research Call

#### Cycle 1

In 2018, six projects under the Medical Research Council (MRC) – UK and PCHRD Newton Agham collaboration continued implementation.

#### HIV Gaming, Engaging, and Testing (G.E.T.) Project

The HIV awareness game, "Battle in the Blood #BitB," was launched internationally at the 22nd International AIDS Conference in Amsterdam, The Netherlands on 23 - 27 July 2018. The application is now available for download at the Apple Store and Google Play Store for free. As an integral part of the project, partnerships were forged with Baguio City Social Hygiene Clinic, Davao Local Government Unit, Davao Social Hygiene Clinic, Klinika Bernardo, LoveYourself Anglo, LoveYourself Uni, 5/11 Kinika Ilonggo and several social hygiene clinics in Cagayan de Oro.

#### TB FIT: Impact Assessment of Diagnostic Algorithms and Tools for Multi-Drug Resistant and (MDR-TB) Drug Sensitive Tuberculosis (TB) in the Philippines

An operational model to assess impacts of different diagnostic algorithms for TB including currently available tools such as Xpert MTB/RIF and new tools such as Ultra and Omni has been developed. The results of modelling the different diagnostic algorithms can be used as basis for recommending a cost-effective strategy for correctly diagnosing drug sensitive and multi-drug resistant TB. Members of the National Tuberculosis Program (NTP) and project team from De La Salle Health Sciences Institute were trained to use the model so that the other provinces and regions in the country can also be efficiently modelled.

#### SEE AND SEQUENCE - Genomic surveillance of Antimicrobial Resistant and High-risk Pathogenic Clones within the Philippines

The project completed the retrospective sequencing of seven target organisms. The phylogenetic trees of the retrospective datasets in global context have been completed for all pathogens except for *S. aureus*. Optimization for the laboratory quality control is being done by the trained Antimicrobial Resistance Surveillance Reference Laboratory (ARSRL) staff. Library preparation was initially optimized and was sent to Sanger Institute for checking. DNA quality and quantity passed the quality control at Sanger and were reported to be appropriate for sequencing.

#### Structure Elucidation and Characterization of the Venus Kinase Receptors of a Philippine Isolate of *Schistosoma japonicum*

The project team used the fragment-based approach to model the entire Venus kinase receptor. The receptor was divided into three domains: Venus flytrap (extracellular), transmembrane, and tyrosine kinase (intracellular). The project tested the relationship of molecular structure with their binding energy and further confirmed the role of aromaticity in the high binding affinity of the ligand to the *Schistosoma japonicum* Venus flytrap.



#### Triple-D Targets: The UK-Philippines Dengue Diagnostic and Drug Targets Research Consortium

After three years of collaborative research, the study has successfully enrolled the required number of study participants from all identified disease categories taken at different timepoints during their hospitalization. The host proteomics and transcriptomics protocol was developed by the collaborators in University of Bristol and University of Glasgow and have also successfully identified a number of proteins that may have biomarker potentials in identifying dengue disease. The project is also geared towards identifying predictive biomarkers, whether patient would progress to more severe forms of the disease. Both collaborators from Glasgow and UP Manila have successfully done metagenomic sequencing and produced whole genome sequences of local dengue viruses. Most sequences have good quality and depth necessary for further variant analysis studies. All skillset and protocol for both sequencing and bioinformatics were transferred to researchers in UP Manila, Philippine Genome Center, The Medical City and Research Institute for Tropical Medicine (RITM). The final integration of results from all omics studies will be used in the in-silico identification of possible drug targets.

#### ENSURE: Enhanced surveillance for control and elimination of malaria in the Philippines

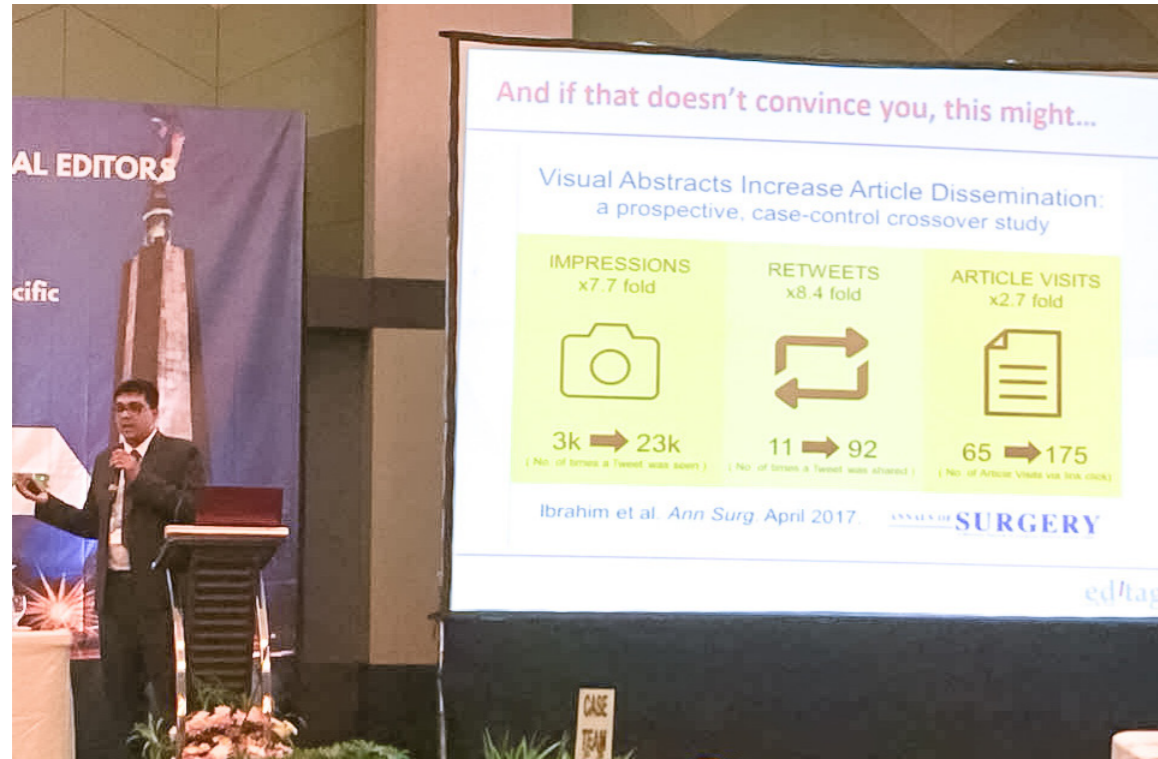
The project completed data and blood sample collection for the three study sites namely, Palawan, Occidental Mindoro, and Bataan. A total of 9,570 survey participants were included in the rolling cross-sectional surveys in the three provinces. The project is also halfway to completing the drug resistance and whole genome sequencing analyses. For the health systems component, health facility assessment was conducted in nine barangays in Rizal and Palawan. Data collected from this component was considered for the surveillance framework currently being developed particularly for the study sites.

## Cycle 2

The Joint Health Research call on Communicable and Non-Communicable Diseases (Newton Agham Cycle 2) between the Medical Research Council (MRC) – UKRI and PCHRD received 46 concept proposals, 43 were recommended to the next stage of evaluation, and 12 concept proposals were shortlisted to proceed to full proposal development.

During the joint PH-UK final panel evaluation, the following proposals were selected:

Filipino PI / Organization	UK PI/ Organization	Project Title
Prof Fortunato Sevilla III/ University of Santo Tomas	Professor Lisa Hall/ University of Cambridge	Affordable near-patient diagnostics to distinguish infectious diseases in the Philippines (AND2ID in Ph)
Dr. Mary Elizabeth G. Miranda/ Field Epidemiology Training Program Alumni Foundation, Inc. (FETPAFI)	Dr. Katie Hampson/ University of Glasgow	SPEEDIER - Surveillance integrating Phylogenetics and Epidemiology for Elimination of Disease: Evaluation of Rabies Control in the Philippines
Dr. Mari Rose A. de los Reyes/ RITM	Professor Taane Clark/ LSHTM	Using Tuberculosis host-pathogen genetic interactions to improve diagnostics in the Philippines
Dr. Vachel Gay V. Paller/ UP Los Banos	Dr. Martha Betson/ University of Surrey	ZooTRIP. Zoonotic transmission of intestinal parasites: implications for control and elimination
Dr. Mario Antonio L. Jiz II/ RITM	Dr. Helena Helmy/ LSHTM	Cellular immunity and resistance to schistosomiasis in the Philippines
Dr. Paolo Antonio S. Silva/ UP Manila - Phil Eye Research Institute	Tunde Peto/ Queens University, Belfast	The UK-Philippines Remote Retinal Evaluation Collaboration in Health: Diabetic Retinopathy (REACH-DR)



## APAME 2018 and WPRIM Meeting

On 17-19 July 2018, the Joint Meeting of the Asia Pacific Association of Medical Journal Editors (APAME) and the Western Pacific Region Index Medicus (WPRIM) was held in Bogor, Indonesia. It was followed by the annual APAME Convention where Asia Pacific region's medical and science journal editors, authors, researchers, librarians, and publishers participate in a series of lectures and workshops.

APAME aims to upgrade the quality of scholarly publications in medicine and the health sciences in the Asia Pacific Region and to promote collaboration and exchange of information and knowledge among stakeholders.

As a focal institution and active participant in the development of WPRIM, the Council contributed 761 articles to the WPRIM database in 2018. To date, the Philippines was able to contribute 4,445 articles in the database from the 20 local journals indexed by WPRIM.

## Southeast Asia-Europe Joint Funding Scheme for Research and Innovation (SEA-EU-JFS)

The Southeast Asia-Europe Joint Funding Scheme for Research and Innovation (SEA-EU-JFS) was started in 2017 to enhance research and innovation cooperation between the two regions. The SEA-EU JFS is a joint funding instrument under which national, regional and local funding agencies and ministries from SEA and Europe come together to fund bi-regional research and innovation projects.

The JFS second joint call was launched in June 2018 with focus on the thematic areas of Bioeconomy and Infectious Diseases. The Philippines is one of the participating countries in the SEA-EU JFS with the PCHRD as one of the funding agencies for the Infectious Diseases thematic area.

Two proposals on development of diagnostic kits for infectious diseases passed approval by the DOST Execom on 22 November 2018.

## e-Asia Joint Research Program

The e-ASIA Joint Research Program (e-ASIA JRP) aims to develop a vibrant and collaborative research community in Science and technology, to promote innovation in the East Asian region, and to contribute to the region's economic development. The member organizations of the e-ASIA JRP, including the Philippines, agreed to implement a joint call for proposals of multilateral cooperative research activities.

In 2018, four (4) proposals were processed and endorsed by PCHRD to the e-ASIA Joint Research Program.

## Clinical Research Fellowship Program on Hepatology

The Clinical Research Fellowship Program of the Council in partnership with the Hepatology Society of the Philippines and Fondazione Italiana Fegato (Italy), successfully took off in 2017, with Dr. Peter Reyes as the first fellow. During his six (6) months stint (October 15, 2017- April 15, 2018) at the University of Trieste, Italy, Dr. Reyes completed two (2) research projects, "The Role of Circulating Cytokeratins on Early and Intermediate Stages of Hepatocellular Carcinoma and Glycogen synthase 2" and "Glycogenin 1 Expressions on Metabolic, Hepatitis C and Hepatitis B-related Hepatocellular Carcinoma." Dr. Reyes was also able to publish results of his research in the Hepatoma Research Journal and the International Liver Cancer Association 2018 Book of Abstracts. Dr. Reyes is now affiliated with Corazon Locsin Montelibano Memorial Regional Hospital, Bacolod City.

## Clinical Research Fellowship Program on Infectious Disease

Through the Clinical Research Fellowship Program of the Council, Dr. Jose Carlo Valencia was able to conduct his fellowship in Mayo Clinic from 12 March to 25 May 2018. During his engagement in the US, Dr. Valencia was able to complete the research project, "Destination Joint Spacers, Reinfection and Antimicrobial Suppression" and presented the said project during the 2018 Infectious Disease Week held on October 3-7, 2018 in San Francisco, California. He also attended the Infectious Disease Fellows Forum on April 26, 2018 and presented three abstract posters for the studies entitled: a) Prevalence of sexually-transmitted infections and its treatment outcomes among adults with HIV infection seen in a university hospital in the Philippines b) It's not always Tuberculosis: Cytomegalovirus polyradiculopathy and encephalitis in two Filipino men with advanced HIV infection and c) Double Trouble: *Pneumocystis jirovecii* pneumonia (PJP) and salmonellosis in an HIV-seronegative Filipino male with Lupus nephritis.



# NATIONAL COLLABORATIONS

## AHEAD-HPSR

### Advancing Health through Evidence-Assisted Decisions with Health Policy and Systems Research (AHEAD-HPSR) Program

The DOH's Advancing Health through Evidence-Assisted Decisions with Health Policy and Systems Research (AHEAD-HPSR) Program is an improved strategy to implement the Department's medium-term health policy and systems research agenda and its ecosystem.

In 2018, the AHEAD-HPSR Program supported five institutional projects on patient safety, healthy ageing, health literacy and interventions for mental health illness. Initial accomplishments of the institutional projects were presented in the DOH's 17th National Health Research for Action on September 19, 2018.

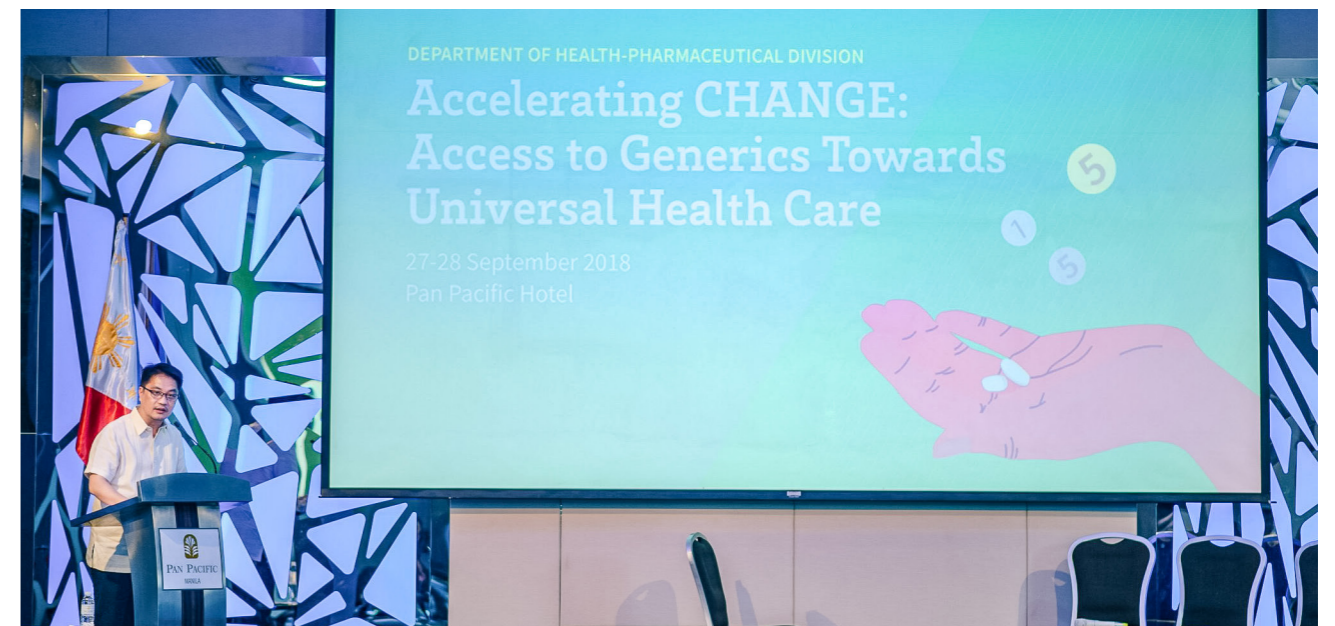
A call for proposals for funding generated 14 proposals in which 10 have started implementation in 2018. Topics of the studies include health literacy, mental health survey, infectious diseases surveillance, primary care, clinical practice guidelines mapping, quality of generic medicine, incentives for frontline health workers, and alcohol-related research.

### 17th National Health Research Forum for Action: FULL SPEED AHEAD

The 17th National Health Research Forum for Action: FULL SPEED AHEAD was held on September 19- 20, 2018 at the Edsa Shangri-La Hotel, Mandaluyong City. The forum aims to provide a platform to advance conversations and collaborations among researchers, policymakers, and policy entrepreneurs, as well as to highlight the central role of health policy and systems research (HPSR) in accelerating and sustaining Universal Health Coverage. The forum consisted of presentations of different HPSR studies, as well as the strategies the DOH is implementing to enhance the country's HPSR capability.

### DOH-PhilHealth

The PCHRD co-organized the Accelerating CHANGE: Access to Generics Towards Universal Health Care Forum with the DOH was conducted on 27-28 September 2018 at the Pan Pacific Hotel, Manila. The forum featured researches on the six pillars of the Philippine Medicines Policy 2018 -2022 summarized as C- Commitment to safety, efficacy, and quality H- ealth literacy and empowerment A - availability and affordability N -etworking and partnerships G- ood governance, accountability and transparency and E -nsuring responsible use.



## DOH-PITAHC Traditional and Alternative Health Care Research Management

The Traditional and Alternative Health Care (TAHC) project ensures effective and efficient mobilization of the Philippine Institute for Traditional and Alternative Health Care (PITAHC)'s resources and implementation of its research projects and activities.

Under its research management component, PCHRD completed a total of six R&D projects.

## DOH Research Fellowship Program

In its commitment to produce a critical mass of health systems researchers, health sector leaders, policy analysts, and program managers, the Department of Health in partnership with the PCHRD, implemented the DOH Research Fellowship Program. At present, there are two batches of Research Fellows. The first batch of 35 Fellows undertakes either Health Policy and Systems Research (HPSR) and Performance Measurement and Operations Research (PMOR) tracks while the second batch of 15 Fellows takes up HPSR only.

Batch I and Batch II Research Fellows attended trainings, conferences, and other capacity building activities that promote learning and strengthening of their skills. The Research Fellows attended a total of 61 trainings in 2018. The trainings allowed for enrichment of the capacities of the HPSR fellows on health care financing, health research impact, health technology assessment, health in all policies and health equity while the PMOR fellows focused on procurement, logistics, hospital and financial management.

During the two-year program, the Research Fellows from the HPSR and PMOR tracks are expected to produce both collaborative and individual research outputs. A total of 12 researches of the Research Fellows under the HPSR and PMOR tracks were posted and presented during the 17th National Health Research Forum for Action with the theme, "Full Speed AHEAD: Accelerating Universal Health Care through Health Policy and Systems Research," which was held on September 19-20, 2018 at the EDSA Shangri-la Manila, Mandaluyong City. Ten out of the 12 studies were presented during the parallel sessions while two researches were presented during the poster presentation.

## 2018 DOH Research Internship Program

In addition to the Research Fellowship Program, DOST-PCHRD and DOH-HPDPB launched the Health Policy Systems Research (HPSR) Internship Program in 2018. The two-year internship program is offered to highly qualified applicants who demonstrate interest in health policy and systems research in the context of research to policy translation. Graduates of the HPSR Internship Program may proceed to apply to the DOH Research Fellowship Program. To date, 10 research interns were already admitted to the program. The Research Interns are expected to produce technical reports/papers on health policy and systems research.

# PhilHealth STUDIES

## DOH-PhilHealth

In 2018, five projects were approved for funding under the PhilHealth STUDIES Program. Eight projects were completed in 2018, namely: Implementation of Interventions for the I3QUIP STUDY: A Quality of Care Assessment; Facility-Based Intervention Costing for the 48 Highest Disease Burdens in the Guaranteed Health Benefits Package of the Department of Health and the Philippine Health Insurance Corporation; Cost-Utility Analysis of Colorectal Cancer Screening in the Philippines; Protecting against Financial Catastrophe: Evaluation of Z Benefit Packages in Providing Financial Risk Protection and Improving Clinical Outcomes; Health Conditions, Health Seeking Behavior and Access to Insurance among Overseas Filipino Workers; Assessment of the PhilHealth CARES Project (January-August 2017); Assessment of PhilHealth Accounts Management Strategy (PAMS); and Development of a Diagnosis Related Group-System Based Global Budget Payment Mechanism.

On 27 November, the PhilHealth STUDIES Forum 2018 was held at Marco Polo Hotel, Ortigas, with the theme "Knowledge Discoveries in PhilHealth Data: Maximizing Use for Policy Making." The forum served as a platform for health researchers to present their findings and provide key recommendations to PhilHealth's program managers and staff.

## PhilHealth STUDIES Forum

On 27 November, the PhilHealth STUDIES Forum 2018 was held at Marco Polo Hotel, Ortigas, with the theme "Knowledge Discoveries in PhilHealth Data: Maximizing Use for Policy Making." The forum served as a platform for health researchers to present their findings and provide key recommendations to PhilHealth's program managers and staff.





# RESEARCH PROGRAM MANAGEMENT



## Tuklas Lunas

The Tuklas Lunas Program continues to make important leaps in advancing the discovery and development of health products from local natural resources. In 2018, a total of 46 projects implemented by 22 institutions are supported under the program, while 24 new projects were approved for implementation.

Several major projects were completed in 2018 and are expected to have follow-up studies for the advancement of promising candidates into the next stage of development either as functional food, herbal supplement or drug candidate:

- The pre-clinical (animal testing) of a fixed dose combination of three plants as possible treatment for dengue showed very promising results. Phase 1 clinical testing is expected to start in 2019.
- From their completed Phase 1 study, the Central Luzon State University - Tuklas Lunas Development Center (CLSU-TLDC) has prioritized four (4) local and edible mushroom species with promising bioactivities. In their phase 2 study, these four (4) species are being developed as functional food. They are also expanding their work to include studying wild edible and poisonous mushrooms as possible sources of anti-pain, anti-hypertensive, and anti-diabetic, and anti-cancer agents.
- The Central Mindanao State University (CMU)-TLDC has identified five (5) species with promising potential as anti-inflammatory agents. For their phase 2 program, these ferns will be pursued under three parallel initiatives: (1) coming up with fern-based functional food, (2) development of ointment for inflammation, and (3) isolating new compounds from ferns as possible anti-inflammatory drug candidates
- Projects implemented by the UP Diliman - Institute of Chemistry under the program "Discovery and Development of Health Products: Disease-Specific Bioactive Hits from Terrestrial Organisms" have determined priority semi-pure extracts that have potential activity for diabetes, pain, inflammation, cholesterol-lowering and hypertension. The priority extracts are now being pursued under a follow-up program to isolate, purify and determine the structure of the activate constituents.
- In its marine drug discovery program, Mindanao State University - Iligan Institute of Technology discovered several sponge species with promising anti-cancer activity. Under its Phase II study, MSU-IIT TLDC will determine the compound responsible for the activity. Their work on studying marine organisms as possible sources of treatment of cancer will also be expanded to seahorse and pipefishes.
- The program "Discover and Development of Health Products (Marine Component) implemented by the UP-Marine Science Institute has also been recently completed. It has discovered, characterized and synthesized a number of neuroactive peptides. The program has also elucidated a number of compounds, including, novel ones, with potential activity against ESKAPE-bacteria and cancer cell lines.

In its 1st year of implementation, the project of University of San Agustin entitled, "Metabolomics-driven Discovery of Antimicrobial Leads from Marine Sediment-Derived Actinomycetes of Iloilo", actinobacteria isolate crude extracts were tested against ESKAPE pathogens. Three (3) bioactive hits have been identified and subjected so far for large scale production. Isolation, purification and dereplication of these bioactive hits are ongoing.

New studies approved in 2018 include the Phase II of the Mariano Marcos State University - TLDC project wherein the anti-inflammatory potential of 11 plant indigenous in the Ilocos Region will be confirmed with the intent of developing anti-inflammatory products while the study of Cagayan State University will study plants from Region II that were reported to have folkloric use as antimicrobials and/or anti-pain.

Since several Tuklas Lunas projects are now elucidating the structure of purified compounds with verified bioactivity, PCHRD has approved a program that will set-up suite of assays required by regulatory authorities for studying how these compounds will be absorbed, metabolized, distributed, excreted and will cause toxicity (ADMET) in the body upon ingestion. With the availability of these assays, the best form/iteration of the compounds that can be applied for an investigational new drug application (IND) can be determined.







## Functional Foods

In 2018, the project, “Potential Presence of Antihypertensive Peptides in Select Philippine Fermented Food: Phase I: Screening of Select Philippine Fermented Food containing Angiotensin I Converting Enzyme (ACE) Inhibitory Peptides,” released initial data on the screened thirteen (13) fermented food samples. Based on the preliminary results, commonly consumed food products such as fish sauce (patis), longganisa (intestine casing) and white cheese (kesong-puti, carabao-based) are reported to contain high protein and peptide content compared to other samples tested. Data on preliminary ACE inhibitory activity, gastrointestinal digestion, fractionation, and purification of the lyophilized fermented food samples are yet to be confirmed. The results of the first phase support the initial claim that the consumption of these types of Philippine fermented food may have health benefits specifically on the prevention of hypertension.

New projects also started this year such as the program on local berries, “Philippine Indigenous Berries: Bioactive components and in vitro biochemical activities,” which is currently implemented by the University of the Philippines Los Baños. This program will focus on the characterization, toxicity assessment and efficacy studies of bignay and lipote on obesity and associated metabolic disorders. In addition, a project on the Development of Mushroom-Based Functional Foods started at the Central Luzon State University as component project of the program, “Myko-mining and Myko-pharming of wild edible and poisonous mushrooms in Luzon island, Philippines for their medicinal properties.” The project will study five (5) species of mushrooms and will look into nutritional profiling, product development and microbial safety assessment of mushroom and mushroom-based products as functional foods. The said crops are included in the list of the PCHRD Functional Food Research Priority Commodities.

Another project, “Antihypertensive Activity of Peptides from Mango (*Mangifera indica* L. cv. ‘Carabao’) in Selected Provinces in the Philippines” of the University of the Philippines Los Baños will cover different mango producing regions in the Philippines such as Batangas and Zambales from Luzon, Guimaras from Western Visayas, and Davao from Mindanao. This project will further discover bioactive compounds in mango fruit for prevention of high risk diseases, and developments of better and safer treating agents for cardiovascular diseases.

## Diagnostics

Increasing cases of HIV in the Philippines and resistance to one of the main drugs for HIV led to the implementation of a project on Development of Rapid Diagnostic for Detecting Lamivudine Resistance. This project, which will hopefully produce an affordable and accurate near point of care diagnostic kit or platform for rapid detection of HIV resistance to lamivudine and other retrovirals, is part of a UP Manila program on Responding to the Philippine HIV Epidemic.

There are diseases that are sometimes misdiagnosed due to its similarity in symptoms. Such is the case for the diseases paragonimiasis and tuberculosis. The former disease is often misdiagnosed as the latter and the current methods of detection is not available in many rural setting. To address this, PCHRD, in 2018, funded a project by UP Manila on the Development of Low-Cost Point of Care Diagnostics for Simultaneous Detection of *Paragonimus westermani* and *Mycobacterium tuberculosis*.

In 2018, a prototype kit on the detection of house dust mite *S. pontifica*, a species prevalent in tropical countries, was done at the Research Center for Natural and Applied Sciences of the University of Santo Tomas. The project also paved the way to future applications of the lateral flow immunoassay for the rapid determination of analytes in environment and medical diagnostics.

## Omic Technologies for Health Research

The five-year Program on “Genomic Researches on Hypertension, Coronary Artery Disease and Dyslipidemia towards the Development of Individualized Diagnostic and Therapeutic Strategies” have identified possible genetic markers among 3,000 Filipino participants that are associated with hypertension, high cholesterol, stroke and heart attack, as well as with poor response to medications used for the treatment of these diseases. Genes/ gene variants were also identified indicating specific drug response of Filipino patients to selected medications against cardiovascular diseases- some with novel findings. These markers may be developed into diagnostic kits specific for Filipino cardiovascular patients after further analysis and validation tests have proven their use.

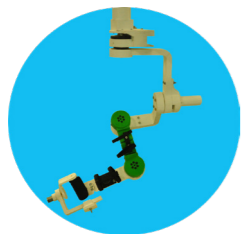
Findings on the program about colorectal cancer entitled “Detection and Functional Characterization of KRAS, NRAS, PIK3CA, BRAF, and PTEN gene mutations in Filipino Colorectal Cancer Patients,” indicate gene variations related to disease risk and development of colorectal cancer among Filipinos outside of what is currently known in the literature. Results from the program are seen to pave the way towards development of a diagnostic test/therapeutic technologies that can predict drug response/efficacy prior to actual treatment specifically for Filipino colorectal cancer patients.

Results of a completed project on Sepsis and Gene Expression point to specific genes that are significantly activated on patients with sepsis developing complications from those who did not. The expression signatures of these genes also differ whether the patient went to respiratory failure, septic shock, or multiple organ failure. While validation in more patients is needed, the findings offer opportunities for early intervention of septic complications. A parallel project on Leptospirosis and gene expression indicate that increased activity of genes called defensins in Filipino patients can be an early indicator of leptospirosis development and even organ complications in already-leptospirotic patients.

2018 also saw the approval of new endeavors in Omic Technologies, with projects moving beyond the study of genes and genomes, into proteomics and integration of AI-technologies into genomics. DOST and PCHRD approved the programs on: “Early CANCER Detection in the LivEr of Filipinos with Chronic Hepatitis B Using AI-Driven Integration of Clinical and Genomic Biomarkers (CANDLE Study)” which will establish clinical and genomic profile of Filipino population for early detection of liver cancer, and then will develop an AI-driven detection system for the early diagnosis of liver cancer among chronic hepatitis B cases; and “Clinical proteomics for cancer initiative: A proteomics-based discovery of non-small cell lung cancer (NSCLC) biomarkers and drug targets in the Philippines (CIPC)” which will analyze the all the proteins related to NSCLC using high-resolution proteomics analysis.

In order to be in pace with the rapidly evolving and diversifying field of ‘Omics,’ the DOST and PCHRD approved the programs “A Proposal to Establish the Philippine Genome Center - Protein, Proteomics and Metabolomics Facility (PPM)” and “Enhanced Capability Building in R&D in Genomics,” which are expected to expand the research arsenal of the Philippine Genome Center (PGC). The establishment of PPM hopes to provide a venue for researchers, students, and industry to have access to basic protein-based services and in-depth analysis of target proteomes and metabolome.





**Agapay Project**  
ROBOTIC EXOSKELETONS FOR REHABILITATION



**TAYÔ PROJECT**  
Robotic Rehabilitation for the Trunk and Lower Extremity



**LAPARA PROJECT**  
Robotic Articulating Laparoscopic Instrument

## Biomedical Engineering and Health Technology

For 2017-2022, one of the identified research areas under the National Unified Health Research Agenda (NUHRA) theme, Global Competitiveness and Innovation in Health, is Biomedical Products and Engineering. This research priority area specifically addresses the need for locally developed reliable, safe and affordable biomedical devices.

With the help of the Philippine Biomedical Device Innovation Consortium (PBDIC), several innovation opportunities, in which some already had initial R&D activities done, were identified and listed as priority technologies for (1) respiratory failure support, (2) artificial body part replacement (prosthesis), (3) rehabilitation medicine, (4) minimally-invasive surgical procedures, (5) contraception and birth control, (6) orthopedic surgery, (7) post-operative care, (8) spinal disorders, (9) eye health, (10) wound care, (11) primary health care, and (12) PWD-assistive devices.

To identify existing technologies/capabilities of the industry/manufacturing sector that may match the suggested innovation opportunities identified, the PCHRD conducted an Industry Research Forum on Philippine Biomedical Device Innovation. During the Forum, there was information exchange between industry and R&D stakeholders to better appreciate the biomedical devices market/industry in the country. Possible collaborations between the research community and industry were identified and strategies to initiate a research-based biomedical devices industry in the country were recommended.

Currently, PCHRD is working on developing a new roadmap for Biomedical Devices and Engineering research area based on the strategies and recommendations from consultations with different stakeholders. This is also in concurrence with the recently approved Philippine Bioengineering Institute that aims to accelerate the development of biomedical devices by providing world-class facilities and services to research universities and institutions, enabling them to transform their ideas into market-ready products.

## Dengue and other Arboviruses

To address the significant health concern on dengue, the DOST-PCHRD collaborated with Institut Pasteur International Network scientist in the development of three (3) Work Packages (WPs) with program title “Dengue Vector Control Program” which aims to understand changes in dengue transmission pattern under change in climate and environment. The following work packages are on its 2nd year of implementation.

Work Package 1 (WP1): *Aedes genome project and adaptation to cold weather and high altitude* (*Aedes* Adaptation Genomics Program) will produce several, fully assembled, well-annotated, new *Ae. aegypti* and *Ae. albopictus* genome sequences from epidemiologically relevant populations in the Philippines. The expected outcome is a genome reference panel that will significantly improve genomic resources for dengue research and be used to study the genetic basis of adaptation to environmental change, such as *Ae. albopictus* adaptation to cold weather and high altitude.

Work Package 2 (WP2): Program on Horizontal Auto-Dissemination of Pyriproxifen Larvicide (AD-PPF) for Dengue Mosquito Control Trials in the Philippines aims to provide evidence-based epidemiological proofs of efficacy relevant to the “real world” operational, political, economic and epidemiological transmission settings; to work with the public health authorities from the start, which will facilitate large-scale national deployment of successful intervention methods; and to test the entomological efficacy of several promising novel technologies.

Work Package 3 (WP3): Identification of Dengue and other arboviruses vertebrate and mosquito reservoirs aims to characterize the arboviral diversity and keystone vertebrate and mosquito species in Luzon, Visayas and Mindanao. This will generate the necessary information to establish which animal species are contributing most to viral epidemiology, the impact of island biogeography and environmental perturbation and the risk of transmission to man and domestic animals.

## Disaster Risk Reduction and Climate Change Adaptation

With the dearth of DRR-CCA research in health, the Council focused on developing the capacity to generate, translate and establish research programs for disaster risk reduction policies, programs, and services using standard concepts, methods, and frameworks. Through its Capacity Building on Health Research in Disaster program and increased information dissemination regarding DRR-CCA priority areas for funding, a total of 95 research proposals were generated from the workshops, 52 of which were submitted to PCHRD for possible funding. Nine out of 52 proposals submitted were approved for funding. Aside from the proposals generated from the DRR workshops, one (1) non-workshop proposal was approved for funding.

In 2018, an Advisory Group was organized to help mobilize actors and conduct the activities identified in the proposed roadmap for DRR-CCA in health.





## ICT in Health

The Medical Teleparasitology Project (MTP) completed its implementation in 2018. It is an ICT-based diagnostic parasitology system that provides diagnostic reference and assistance, and continuing education to medical technologists (MTs) for accurate and timely diagnosis of parasitic infections. It connects medical technologists in peripheral laboratories to diagnostic parasitologists based in Manila. Its features include a database of cases referred and a map of reported parasitic infections in the selected areas, which can be used for the surveillance of parasitic infections in the Philippines. The project trained 127 health care professionals within three regions (CAR, Region IX, and Region XI).

In 2018, 11 projects were funded under the ICT for Health Research and Development priority. These include the development of an electronic medical record system module for patients with X-linked Dystonia Parkinsonism, a data privacy toolkit for research involving human participants, a web-based palliative care service platform for pediatric patients with cancer, and a telepsychiatry system, among others.

The Council supported the eHATID2 Project which developed an LGU-based interoperability layer to be implemented in the municipality of Pulilan, Bulacan. Through the interoperability layer, citizens' information from civil registries and health-related databases are easily reviewed and evaluated for ease of processing and release of the health certificates and work permits from the municipal hall.

The Aruga sa Batang may Cancer (ABC) Initiative Program created a registry for pediatric patients with cancer and developed a web-based platform offering learning materials for primary caregivers and healthcare professionals. As well, the said program will establish a telemedicine system and offer home care to make palliative care services more accessible to pediatric patients with cancer.



## Regional Research Fund (RRF)

The Regional Research Fund (RRF) is a strategy to encourage new researchers to be actively involved in health research activities without having to compete with more experienced researchers. These RRF projects are intended to build up the capabilities of individual researchers in designing, implementing, and managing health research projects.

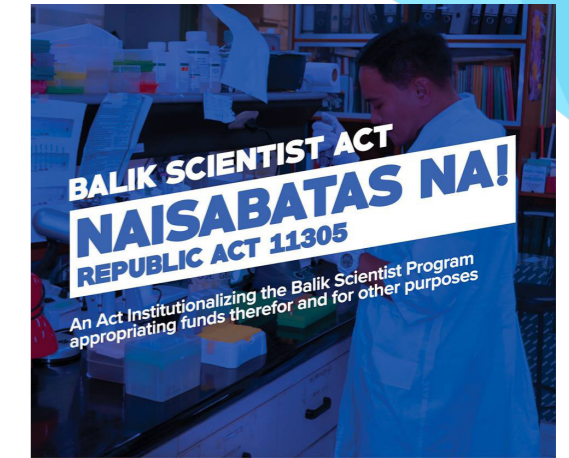
There are 63 ongoing projects and 9 completed projects under the program. The Council also supported 12 new projects in 2018.

### Completed Projects

Region	Project Title	Implementing Agency
I	Anti-thrombocytopenic Activity of Formulated Papaya ( <i>Carica papaya</i> ) and Guava ( <i>Psidium guajava</i> ) Capsule on Sprague Dawley ( <i>Rattus norvegicus</i> ) Rat	Virgen Milagrosa University Foundation
I	Cancer Chemopreventive Activity of Isolated Bioactive Secondary Metabolites of <i>Sorghum bicolor</i>	Virgen Milagrosa University Foundation
III	Prototype Development of the Irrigation, Drainage and Drying of Wounds	University of the Assumption
IV-A	Health-Risking Social Behaviors, Protective Factors, and Mental Health among Adolescents: Basis for School-Based Mental Health Program	De La Salle Health Sciences Institute
XI	Linking the Epidemiology of Dengue Fever to Climatic Variability, Population Density and Social Dynamics in Southern Mindanao	Davao Medical School Foundation
XI	Development and Validation of HPLC-DAD Methods for the Analysis of Fresh and Commercial <i>Blumea balsamifera</i> (Sambong), <i>Carmona retusa</i> (Tsaang gubat) and <i>Vitex negundo</i> (Lagundi)	Ateneo de Davao University
XI	Bioactive Metabolite Screening of <i>Nephrolepis cordifolia</i> Plant and its associated Fungal Endophytes Against Methicillin-Resistant <i>Staphylococcus aureus</i>	University of the Immaculate Conception
XI	Metal Sequestration in Simulated Gastro-intestinal Fluid in Vitro and Cytotoxicity Study of Tamarind ( <i>Tamarindus indica</i> L.) Rind Formulated Capsule	University of the Immaculate Conception
XI	Investigation of Possible Inhibitory Action of Philippine crocodile ( <i>Crocodylus mindorensis</i> ) serum on Human Immunodeficiency Virus Type-1 Infectivity in vitro – Prior To and After Attachment to Human Peripheral Blood Mononuclear Cells	University of the Immaculate Conception



# CAPACITY BUILDING



## Balik Scientist Program

The Balik Scientist Program (BSP) is a brain gain initiative of DOST which aims to encourage highly-trained overseas Filipino scientists to return to the Philippines. To date, there are 53 awarded Balik Scientists under PCHRD.

On 15 June 2018, the Republic Act No. 11035 or the Balik Scientist Act, which will provide more incentives to foreign-based Filipino scientists who will go back to the country to share their expertise, was signed into law by President Rodrigo Duterte. PCHRD spearheaded some of the regional consultations to finalize the Implementing Rules & Regulations (IRR) of the law. The IRR was published on October 6, 2018 and became effective on October 22, 2018.

On October 26, 2018, PCHRD hosted the 4th Balik Scientist Annual Convention with the theme "Balik Scientists: Catalysts for Global Innovation and Competitiveness" in coordination with the Philippine Council for Industry, Energy, and Emerging Technology Research and Development (DOST-PCIEERD), Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD) and the Office of the Undersecretary for Scientific and Technical Services at the Philippine International Convention Center (PICC), Manila.

## DOST Accelerated S&T Human Resource Development Program

In 2018, fifteen scholars obtained their MS and PhD degrees while four of the MD-PhD Molecular Medicine scholars from the pioneer batch successfully earned their dual degrees.

### Distribution of scholars

Status	DOST-SEI funded (PCHRD monitored)	DOST-PCHRD funded
<b>Completed</b>		
PhD	4	
MS	11	
MD-PhD	4	
<b>Ongoing</b>		
PhD	23	
MS	89	8
MD-PhD	51	19
<b>New</b>		
MS		3
MD-PhD		10

### List of MD-PhD graduates and their dissertation

Name of scholar	Title of Dissertation
Dr. Fresthel Monica M. Climacosa	Development and Characterization of Microbe-binding Peptides for Neutralization and Screening for Microbial Contaminants
Dr. Ruby Anne N. King	Effects of Thermal Treatment and Selected Irreversibly Binding Small Molecules on Human Complement Activity
Dr. Jonnel B. Poblete	The Molecular Epidemiology of Mycobacterium tuberculosis Isolates from Suburban and Rural Communities in the Philippines
Dr. Bobbie Marie M. Santos	Effects of Hapten-Labelled Polymerized Oligopeptides on Fibrin Clot Formation and Degradation in Quiescent Human Plasma



## MD-PhD in Molecular Medicine Program and MS Molecular Medicine Program

Ten new scholars were supported under the MD-PhD Molecular Medicine and three new scholars for the MS Molecular Medicine.

### List of New MD-PhD Molecular Medicine Scholars

1. Bolinas, Dominic Karl M.
2. Chua, John Josept R.
3. Cruz, Joana Marie C.
4. De Sagon, Scott Dean P.
5. Grecia, Mary Nicole I.
6. Malaluan, Michael Roy V.
7. Razal, Rozel B.
8. Reyes, Michael Sigfrid S.
9. Sanico, Thea Coleen F.
10. Teh, Treena Rica D. A.

### List of New MS Molecular Medicine Scholars

1. Antalan, David III
2. Garcia, Joshua Roberto
3. San Valentin, Erin Marie

### List of 3rd batch MD-PhD scholars who passed the 2018 Physician Licensure Examination

1. Dr. Criselda Jean G. Cruz
2. Dr. Angelo Augusto M. Sumalde
3. Dr. Maria Isabel C. Idolor
4. Dr. Ana Joy P. Padua
5. Dr. Joyce Ann H. Robles

## DOST-PCHRD Undergraduate Thesis Grant in Natural Products

The DOST-PCHRD Undergraduate Thesis Grant in Natural Products is given to promote a research culture in natural products to increase the number of researchers and later on build a pool of researchers/experts specializing in the field. The program supports the Drug Discovery and Development Program of the Council which aims to develop safe, effective and affordable alternative drugs from the country's natural resources. Out of the 22 thesis proposals received by the Council, 14 undergraduate students qualified as grantees of the Award coming from regions I, II, IV-B, IX, XI, CAR and NCR. The grantees' research projects commenced in August 2018 and will end by May 2019.



## Research Enrichment Program (Sandwich Research Program)

This Program is designed for ongoing MS and PhD ASTHRDP scholars who have approved research proposals and/or have completed their academic course and intend to conduct research work in a foreign university identified by/or acceptable to DOST.

In 2018, two MD-PhD scholars from the 3rd Batch successfully completed their Research Enrichment Program abroad and have returned to the Philippines.

Name of Scholar	Duration of the Program	Host Institution
Ms. Sheriah Laine M. De Paz	November 2017-April 2018	Nagoya City University Graduate School of Medical Sciences (Japan)
Mr. Josept Mari S. Poblete	June 2017-April 2018	The Ohio State University Wexner Medical Center (USA)

### List of Scholars (batch 2 and 3) with approved applications to the Sandwich Research Program

Name of Scholar	Duration of the Program	Host Institution
Mr. Ian Kim Tabios (Batch 3)	February 2018- February 2019	Dokkyo Medical University, Tochigi, Japan
Dr. Mark Joseph M. Abaca (Batch 2)	January -March 2019	University of California Los Angeles (UCLA) School of Medicine, USA
Dr. Francis James Gordovez (Batch 2)	May 2018- April 2020	US National Institute of Mental Health
Dr. Joy Vanessa D. Perez (Batch 2)	September 2018-May 2019	MD Anderson Cancer Center, Houston, Texas
Dr. John Carlo Reyes (Batch 2)	October 2018- April 2019	National Center for Global Health & Medicine, Tokyo, Japan
Dr. Raniv D. Rojo (Batch 2)	September 2018-May 2019	MD Anderson Cancer Center, Houston, Texas

## Capacity Building Program – Disaster Risk Reduction

To develop capacity to generate, translate and utilize research findings for disaster risk reduction policies, programs, and services, PCHRD conducted a three-phase series of health research disaster workshops as follows: Phase I - Orientation to Concept and Principles, Phase 2 - Development of a Research Proposal, and Phase 3- Presentation of Research proposal for Technical Review. By the end of Phase III, the participants are expected to submit their proposals to PCHRD for technical evaluation and possible funding.

In 2018, 120 participants from 51 institutions were trained, generating 47 research proposals on disaster risk reduction.



## National Medical Writing Workshop

To capacitate young researchers in preparing a journal article intended for publication in a scholarly peer-reviewed journal, the Council, in partnership with the Philippine Association of Medical Journal Editors (PAMJE) and Asia Pacific Association of Medical Journal Editors (APAME), organized the National Medical Writing Workshops and Writeshops for Young Researchers in the regions.

Conducted in Legazpi City and Baguio City, the 13th and 14th workshops were participated by 71 young researchers. Through the guidance of the faculty and mentor-facilitators, health researchers improve their manuscripts and developed them into journal articles. To date, 94 trainees from the 14 workshops were able to publish their papers in peer-reviewed journals.



### Obesogenic Factors Influencing Overweight among Asian Children and Youth

Iza Donna Ramos Togbo

Medical Specialists and Diagnostic Center, Philippine Women's University, Manila, Philippines

**ABSTRACT** Obesity is a public health dilemma worldwide. The prevalence of childhood obesity is increasing tremendously in the world. Overweight children and youth are probable to develop diseases in the later years. This study described the obesogenic factors influencing overweight among Asian children and youth. The study also determined the association of these factors to children and youth weight status. This narrative review obtained thirty-four pertinent articles published between 2010 and 2018. The data were extracted from Google Scholar, EBSCO, and PubMed. Numerous reviewed articles identified obesogenic factors influencing overweight among Asian children and youth as follows: familial factors, food retail environment, Westernization, food advertisement, and unhealthy food choices in school. Familial factors comprise parenting style and socioeconomic status. Food retail environment results were gathered from Thailand, China, Philippines, Saudi Arabia, and Korea. The effect of Westernization was seen in four cities of India and China. Influences of food advertisement were studied in Korea, Thailand, Singapore, and Malaysia. Unhealthy food choices in school were evident in South Asia, China, India, and Malaysia. These five factors are considered and an appropriate health program must be established to address this health problem.

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Published: 24-12-18

**KEYWORDS:** Eating habits, obesity, overweight



# ETHICS



## Philippine Health Research Ethics Board (PHREB)

The PHREB Committee on Standards and Accreditation (CSA) implements policies and guidelines for the registration and accreditation of research ethics committees (RECs) in the Philippines. There are eight (8) level 1, Ten (10) level 2, and thirteen (13) level 3 accredited institutions in 2018. To date, PHREB accredited a total of 80 RECs in the country.

Through its Committee on Information Dissemination, Training, and Advocacy (CIDTA), PHREB conducted 52 training programs on basic research ethics, good research practice, and Standard Operating Procedures. Participants of the trainings include REC members, researchers, and university faculty members.

With the establishments of Regional Ethics Monitoring Boards (REMBs), the PHREB conducted a series of institutional visits, advocacy activities and trainings on accreditation in Regions I, VI, and XI. REMBs were established to assist the PHREB in protecting the rights, safety and welfare of human participants in health-related research particularly in the regions.

## National Ethics Committee

In 2018, the NEC reviewed 31 research proposals wherein 16 projects were approved. Eight proposals are still under review. All research proposals were submitted online through the Philippine Health Research Ethics Portal.

## PHREB 2nd Biennial Conference

On 27-28 November 2018, PHREB held its 2nd National Conference at the Philippine International Convention Center with the theme, "Addressing Current Challenges in Research Ethics." The conference serves as a platform for Research Ethics Committees (REC), researchers, research coordinators, policy makers, faculty members, and students of research to discuss the current situation, challenges, and advancements in research ethics.







# RESEARCH DISSEMINATION AND UTILIZATION

## Technology Transfer

Two PCHRD-funded projects, Sticky Trap for *Aedes aegypti* mosquitoes and Agapay (Robotic Exoskeleton Project) were selected to participate in the first Filipinnovation Entrepreneurship Corps (FEC) Program on 19 February 2018. The month-long training program was funded by DOST-PCIEERD in partnership with De La Salle University, RTI International, and USAID STRIDE Program.

FEC is an experiential training program for researchers to rapidly define the commercial and societal value of their research. This is based on the successful US National Science Foundation I-Corps™ program. The Principal instructors, Mr. Jim Chung from George Washington University and Bob Storey from Johns Hopkins University, are both Nationally Certified Instructors for the National Science Foundation's iCorps Program.

Meanwhile, proponents of PCHRD-funded technologies on Ginhawa/ReliefVent and Axis Knee System pitched in their technologies during the DOST-DTI Inclusive Innovation Conference 2-3 October 2018. Both technologies generated interest from DTI which pledged to assist in getting applicable tax incentives and promotion.

PCHRD, through the assistance of TAPI, has filed 21 copyright applications of its internally-generated computer programs, as well as copyright and trademark protection for program logos and names, such as the Tuklas Lunas Program and HERDIN, subjected seven technologies to valuation, and conducted 6 IP training sessions for internal and external clients.



Developed by a team of critical care specialists, biomedical engineers, software specialist, and biomed technicians, Reliefvent is an affordable, safe, and effective ventilator that can be used for both children and adults.



Axis Knee is a world-class, cost-effective, safe, and affordable total knee replacement system made for Filipino and Asian knees. It is the best option to treat osteoarthritis when medication and therapy are no longer effective.



Republic of the Philippines  
**HOUSE OF REPRESENTATIVES**

Quezon City, Metro Manila

**SEVENTEENTH CONGRESS**

House Bill No. \_\_\_\_

Introduced by \_\_\_\_\_

**AN ACT  
 ESTABLISHING PHILIPPINE eHEALTH SYSTEMS AND SERVICES IN THE DELIVERY  
 OF HEALTH SERVICES USING INFORMATION AND COMMUNICATIONS  
 TECHNOLOGIES AND APPROPRIATING FUNDS THEREOF**

## Research to Policy

*“Accelerating Opportunities: Translating Research into Policy”*

This satellite session during the 12th PNHRS Week aimed to raise awareness on how certain strategies influence public policy, discuss the barriers and opportunities in translating research to policy, and to affect change on the current policy environment in health research. The morning session featured a sharing of best practices with Alberto G. Romualdez, Jr. Health Research Award (AROHRA) winners whose respective studies were translated into policies. In the afternoon workshop, the Regional Health Research and Development Consortia came up with a Research to Policy Plan on specific regional projects/programs following an output format derived from the lessons learned in the morning session.

### Inputs to Policymaking

The Council actively participates in policy development processes in Congress through submission of position papers for proposed legislations on eHealth, National Integrated Cancer Control Program, Philippine Big Data Center, tobacco control, and utilization of Philippine genetic resources, among others.

In 2018, there were 11 policy instruments, 5 policy position papers, 6 omnibus policies (DOH-HSRM), and 4 policy briefs produced.

## Strengthening Research Utilization in the Regions

To ensure that our efforts as a System are geared towards a common goal, the Council continued to visit the Research Utilization Committees (RUCs) in the regions to align their targets to the PNHRS RU targets. To date, PCHRD assisted 10 Regional Health Research Consortia:

- Central Visayas Consortium for Health Research and Development (CVCHRDC), January 23-24, 2018
- Zamboanga Consortium for Health Research & Development (ZCHRDC), February 19, 2018
- Region I Health Research and Development Consortium (R1HRDC), October 16, 2018
- Central Luzon Health Research and Development Consortium (CLHRDC), October 17, 2018
- Metro Manila Health Research and Development Consortium (MMHRDC), October 26, 2018
- Health Research and Development Consortium Region IV-A (HRDC-IVA), November 16, 2018
- ARMM Health Research Consortium, November 22, 2018
- Eastern Visayas Health Research & Development Consortium (EVHRDC), November 27, 2018
- Cagayan Valley Health Research and Development Consortium (CVHRDC), December 10, 2018
- MIMAROPA Health Research and Development Consortium (MHRDC), December 13, 2018

## 4th Philippine Health Care and Social Media Summit

PCHRD co-organized the “Healthcare & Social Media Summit 2018” on 9 June 2018 at the Grand Regal Hotel, Davao City. With the theme “Social Media and Health Professions Education: Shaping the Future through Research and Innovation,” the 4th Summit ventures into the innovative use of social media in health professions education and research. Organized in collaboration with #HealthXPh and Alliance for Improving Health Outcomes, the Summit was attended by 150 educators, researchers, and health stakeholders.



9 June 2018  
 Grand Regal Hotel, Davao City  
 #hcsmp2018

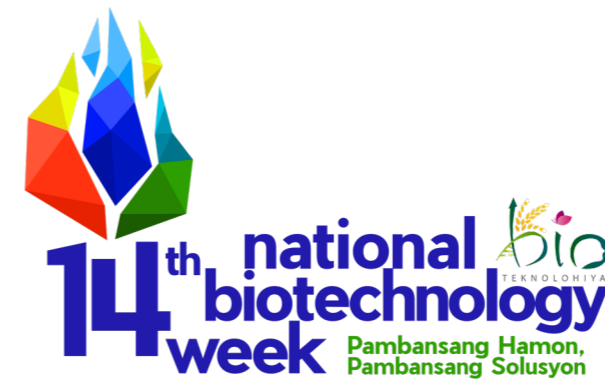
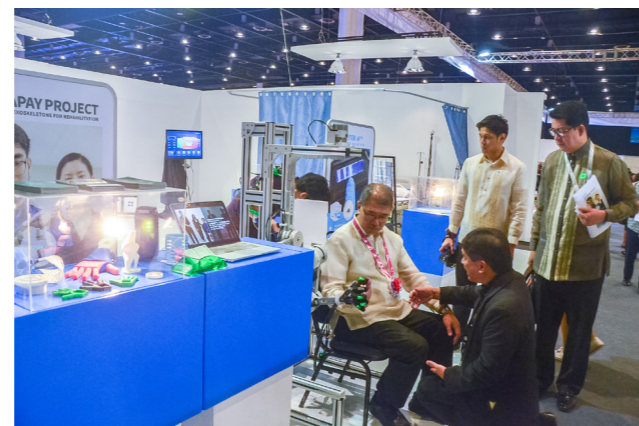
Admission  
 is FREE!

## National Science and Technology Week (NSTW)

The Philippine Council for Health Research and Development (PCHRD) led the “STI at Home” cluster during the National Science and Technology Week 2018 on 17-21 July 2018 at the World Trade Center, Pasay City. For this year’s celebration, PCHRD featured four newly-supported health technologies:

- *Feasibility Analysis of Syndromic Surveillance using Spatio-Temporal Epidemiological Modeler (FASSTER)* - a user-friendly tool for disease modeling and syndromic surveillance visualization of dengue, typhoid fever, and measles;
- *Agapay* - a 3D-printed wearable robot which provides post-stroke and injured patients with a cost-efficient and high-performance rehabilitation system;
- *Omic Technologies for Health* - a program which aims to utilize ‘Omic’ technology platforms in crafting local technologies which can be developed into personalized medicines, diagnostics, and therapeutics; and
- *ReliefVent* - a compact, affordable, safe, and effective intensive care unit (ICU) ventilator that can be used for both children and adults.

PCHRD also showcased the Biotek-M, a local and cheaper confirmatory test for dengue diagnosis which is a gold medal awardee of the 46th International Exhibition of Inventions Geneva, and Tuklas Lunas, a program which is envisioned to produce world-class medicines derived from the Philippine biodiversity, leveraging on local expertise.



## National Biotechnology Week (NBW)

The Department of Science and Technology (DOST), in partnership with six executive departments of the government, held the 14th National Biotechnology Week celebration on 13-17 November 2018 at the World Trade Center Hall D, Pasay City. The PCHRD was the host of the celebration.

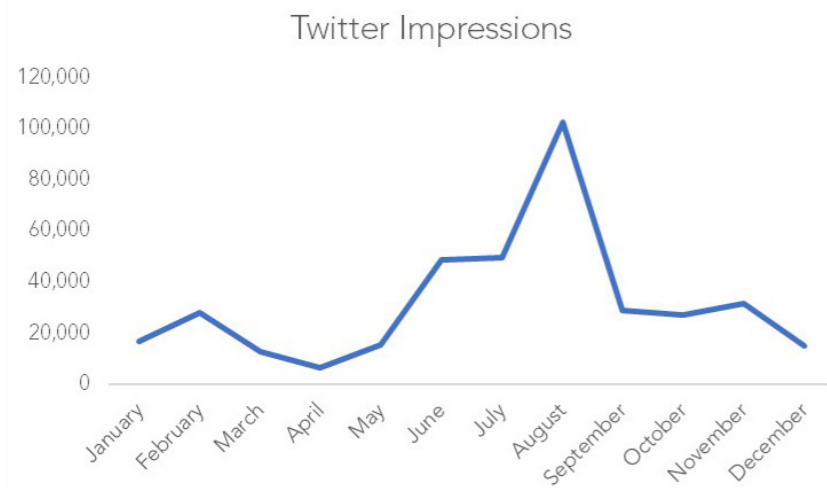
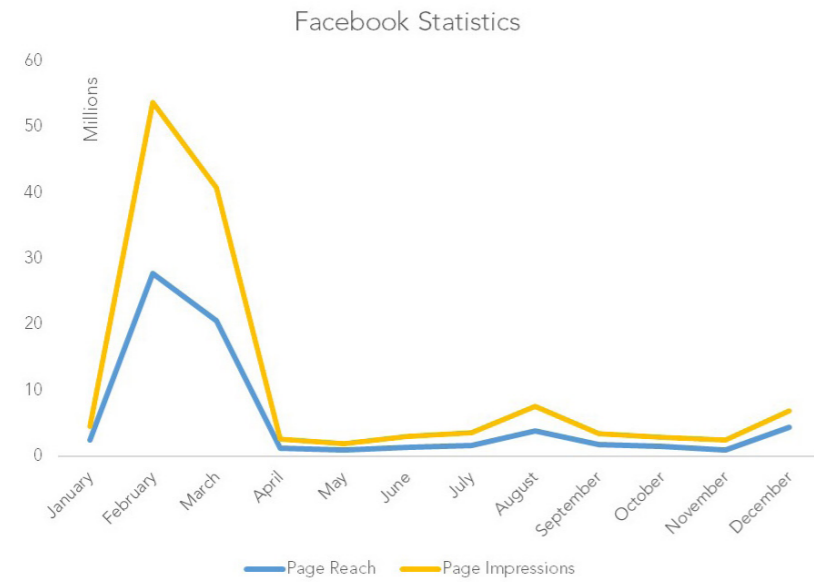
With the theme “Bioteknolohiya: Pambansang Hamon, Pambansang Solusyon,” the 14th NBW celebration highlighted the valuable role and potential benefits of biotechnology to agriculture and food security, nutrition and health, sustainable environment, and economic growth and recognize how biotechnology is both a challenge and solution to our nation’s pressing problems.

Among the other participating agencies include the Department of Health (DOH), Department of Agriculture (DA), Department of Environment and Natural Resources (DENR), Department of Education (DepEd), Department of Trade and Industry (DTI), Department of Interior and Local Government (DILG), and Commission on Higher Education (CHED).

## Social Media

PCHRD continues to maximize the use of social media to create content, ensure health research information awareness and dissemination, promote the Council's and PNHRs' activities and services, and reach its stakeholders.

In 2018, PCHRD's Facebook reached more than 65 million and engaged more than six million people. Meanwhile, the PCHRD twitter account has accumulated 383,143 impressions.



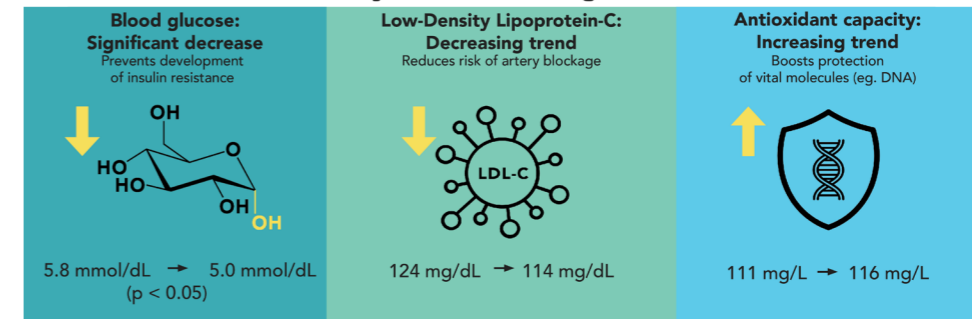
## Visual Abstract Winning Entries

PCHRD awarded the winners of the visual abstract contest during its 36th Anniversary. The contest was launched to disseminate health research results to the public.

Similar to the actual text abstract of a research article, visual abstract is meant to convey the key findings of the study in an artistic format.

### First Place

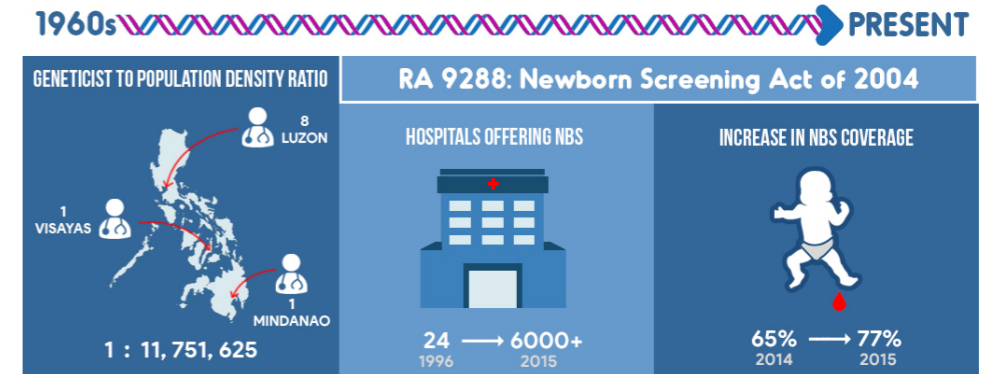
#### Effects of consuming Malunggay-leaves-supplemented food in humans w/ moderately raised serum glucose & cholesterol levels



Prolonged and daily consumption of malunggay (leaves or powder) may help control and manage cardiovascular diseases and diabetes mellitus. Sagum, RS et al. *Food and Public Health*. 2014.

### Second Place

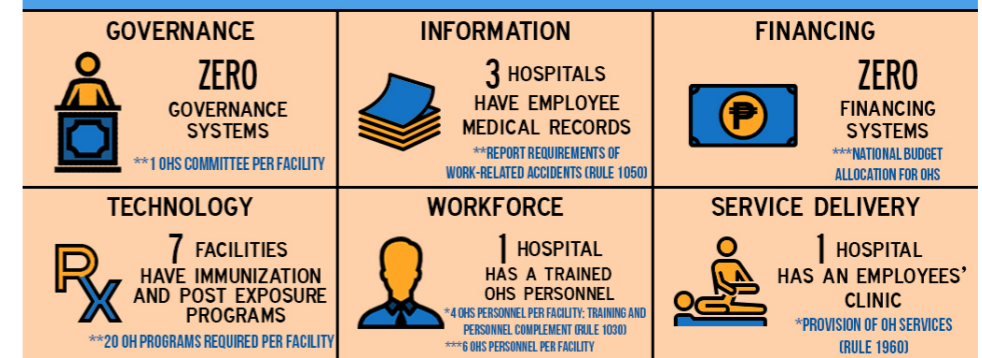
#### GENETICS AND GENOMIC MEDICINE IN THE PHILIPPINES



PADILLA, C.D., CUTIONGCO-DE LA PAZ, E.M. *MOLECULAR GENETICS & GENOMIC MEDICINE*. 2016.

### Third Place

#### OCCUPATIONAL HEALTH SYSTEMS (OHS) ACCROSS 19 SELECTED PUBLIC HEALTHCARE FACILITIES IN THE PHILIPPINES



HERNANDEZ ET AL. *ACTA MEDICA PHILIPPINA*. 2014 \* PHILIPPINE OCCUPATIONAL SAFETY AND HEALTH STANDARDS \*\* DEPARTMENT OF HEALTH AO 2012-0020 \*\*\* GLOBAL STANDARDS

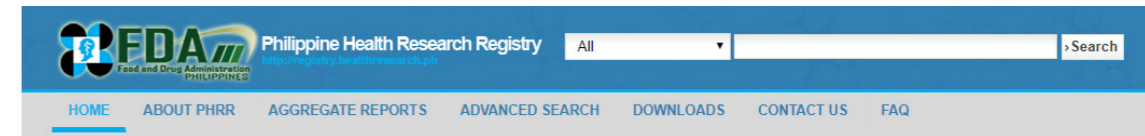


# INFORMATION RESOURCES

## Philippine Health Research Registry (PHRR)

As a publicly-available research database that allows researchers to upload, edit, and update information, a total of 619 researches had been registered in PHRR since 2012. Four hundred three (398) of the researches were clinical trials and 221 were non-clinical studies. The Council is coordinating with the World Health Organization (WHO) to link the registry with their clinical trials platform.

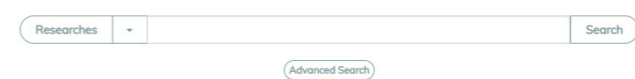
Number of Registered Studies	New	Total to date
Clinical Trial	35	398
Non-clinical Studies	29	221
TOTAL	64	619



## Health Research and Development Information Network (HERDIN)

At present, the Health Research and Development Information Network (HERDIN) database has 68,565 research articles, with 4,218 new records added in 2018.

As part of the Council and the DOST Information Product Service Program that aims to increase awareness and accessibility of health research information, HERDIN on Tour visited 18 institutions in the country.



## Traditional Knowledge Digital Library

The Philippine Traditional Knowledge Digital Library or TKDL is the national electronic database consisting of databases on traditional knowledge and practices on health of the indigenous and cultural communities of the Philippines.

At present, more than 19,000 plant preparations used for traditional healing from 3,196 medicinal plants were documented through 614 traditional healers and 928 informants; and 1,249 traditional healing practices were documented from the 44 ethnolinguistic groups from Luzon, Visayas and Mindanao. The information documented on traditional knowledge and practices on health, disease and healing is accessible through the Philippine Traditional Knowledge in Health Digital Library (TKDL)Library ([www.tkdjph.com](http://www.tkdjph.com)).





# RESOURCE MOBILIZATION

## PCHRD Status of Funds FY 2018

Particulars	Allotment	Expenditures	Utilization Rate
<b>General Appropriation from Government (GAA-RA No 10964)</b>			
General Administration and Support	19,123,000	18,174,772	95.04%
Operations	8,462,326	8,299,164	98.07%
<b>Grants-in-Aid</b>			
Research and Development	428,448,642	428,448,642	100.00%
Capacity Building	55,666,912	55,666,912	100.00%
S & T Services	69,627,446	69,627,446	100.00%
Automatic Appropriations (Retirement & Life Insurance Premium)	2,885,000	2,799,636	97%
Pension and Gratuity Fund	1,227,887	1,227,886	100%
<b>Total Fund from National Government</b>	<b>585,441,213</b>	<b>584,244,458</b>	<b>99.80%</b>

## Funds from other sources

Particulars	Amount	Expenditures	Utilization Rate
DOH - AHEAD HPSRM	161,218,969.20	144,908,014.86	90%
DOH - 2015 Health System Research Management	52,281,351.30	41,115,042.85	79%
DOH - National TB Prevalence Survey	2,541,560.33	3,046.50	0%
DOH - Pharmaceutical Division	5,594,347.70	945,620.30	17%
DOST - Balik Scientist Program	15,090,000.00	6,485,752.25	43%
DOST - Central Office	8,334,104.46	3,793,785.97	46%
DOST - Dengue Vector Control Research Program	139,076,952.00	109,272,825.80	79%
DOST - Science Education Institute	32,168,014.32	28,769,506.54	89%
DOST - TAPI	1,000,000.00	938,000.00	94%
Philippine Insurance Corporation	93,330,038.24	64,872,600.26	70%
PITAHC	21,850,000.00	18,543,764.44	85%
<b>Total Trust Fund from Other Sources</b>	<b>532,485,337.55</b>	<b>419,647,959.77</b>	<b>79%</b>



# INSIDE PCHRD

## Human Resource

As of 31 December 2018, the Council has employed 96 technical staff and 35 administrative and support staff, 2 with doctorate degrees, 22 with master's degrees, 99 with bachelor degrees, 6 with post high school diplomas, and 2 with elementary diploma.

## ISO 9001: 2015

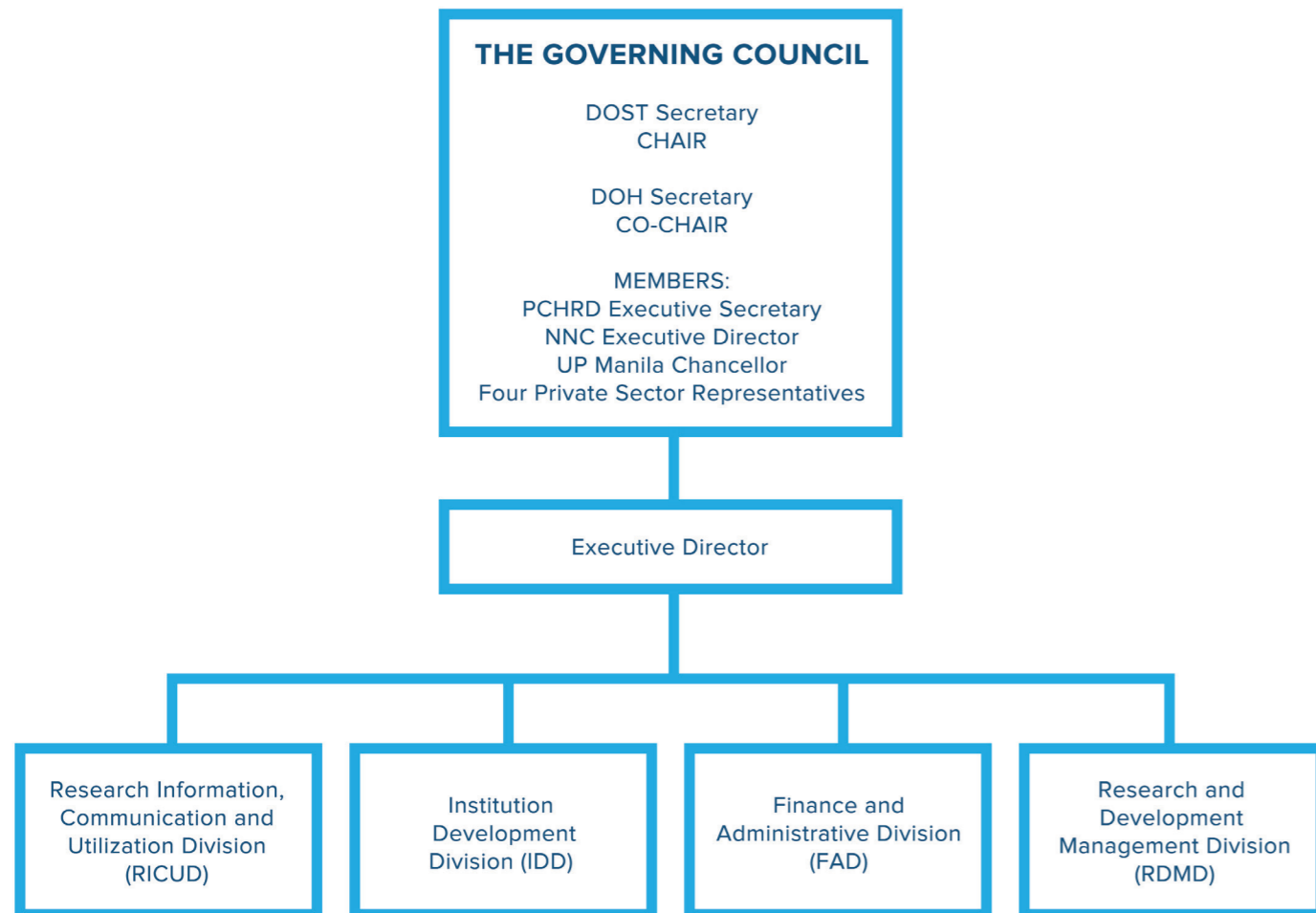
In 2018, PCHRD's Quality Management System has been assessed as conforming to ISO 9001: 2015 and received certification from Certification International Philippines, Inc.







## Organizational Structure



# ANNEXES

## Funded Projects

### COMPLETED:

#### Tuklas Lunas

Establishment of a standard reference material (SRM) herbal DNA barcode library of *Blumea balsamifera* (sambong) and *Ehretia microphylla* (tsaang gubat) for quality control measures in the Philippines  
University of Santo Tomas, Research Center for the Natural and Applied Sciences

High-throughput Multi-omics Discovery of Bioactive Marine Compounds and Establishment of a Marine Chemical Library and Informatics Facility  
Marine Science Institute, University of the Philippines Diliman

In Vitro Equivalence Testing of Selected Generic Essential Medicines Eligible for BCS-based Biowaivers  
University of the Philippine-Manila

“Peptides and Small Molecules as Antidiabetic Drugs “  
Institute of Chemistry, University of the Philippines Diliman

Project 2: Anti-Pain and Anti-Neurodegeneration Drug Candidates: Discovery and Development  
University of the Philippines Diliman

Project 3: Anti-Infective and Anti-Cancer Drug Candidates: Discovery and Development  
University of the Philippines Diliman

The Impact of Speech and Lip Reading Training and Adjustment Counseling on the Elderly Individual's Ability to Cope with Mild Sensorineural Hearing Loss  
St. Luke's Medical Center

Synthesis of Deguelin Derivatives as Anticancer  
Institute of Chemistry, University of the Philippines Diliman

Synthesis of Imidazole-Based Antifungal Agents  
Institute of Chemistry, University of the Philippines Diliman

#### ICT in Health

Medical Teleparasitology for Laboratory Diagnosis of Parasitic Infections in the Philippines: Optimization and Expansion of Implementation towards Policy Formulation  
College of Public Health University of the Philippines Manila

#### Disaster Risk Reduction

The state of health and health-related researches in disaster risk reduction and management in the Philippines for the period 1946 - 2016: A Literature Review  
Symmetrix

Mapping of health risks from agents of disasters and extreme events in the Philippines: Focus on environment, climate change, seismic hazard, communal infrastructures, and selected human activities  
De La Salle University Manila

A Review of Climate and Health Research in the Philippines: Mapping the Themes, Actors, and Gaps  
Alliance for Improving Health Outcomes, Inc.  
Regional Research Fund

Anti-thrombocytopenic Activity of Formulated Papaya (*Carica papaya*) and Guava (*Psidium guajava*) Capsule on Sprague Dawley (*Rattus norvegicus*) Rat  
Virgen Milagrosa University Foundation

Cancer Chemopreventive Activity of Isolated Bioactive Secondary Metabolites of *Sorghum bicolor*  
Virgen Milagrosa University Foundation

Prototype Development of the Irrigation, Drainage and Drying of Wounds  
University of the Assumption

Health-Risking Social Behaviors, Protective Factors, and Mental Health among Adolescents: Basis for School-Based Mental Health Program  
De La Salle Health Sciences Institute

Linking the Epidemiology of Dengue Fever to Climatic Variability, Population Density and Social Dynamics in Southern Mindanao  
Davao Medical School Foundation

Development and Validation of HPLC-DAD Methods for the Analysis of Fresh and Commercial *Blumea balsamifera* (Sambong), *Carmona retusa* (Tsaang gubat) and *Vitex negundo* (Lagundi)  
Ateneo de Davao University

Bioactive Metabolite Screening of *Nephrolepis cordifolia* Plant and its associated Fungal Endophytes Against Methicillin-Resistant *Staphylococcus aureus*  
University of the Immaculate Conception

Metal Sequestration in Simulated Gastro-intestinal Fluid in Vitro and Cytotoxicity Study of Tamarind (*Tamarindus indica L.*) Rind Formulated Capsule  
University of the Immaculate Conception

Investigation of Possible Inhibitory Action of Philippine crocodile (*Crocodylus mindorensis*) serum on Human Immunodeficiency Virus Type-1 Infectivity in vitro – Prior To and After Attachment to Human Peripheral Blood Mononuclear Cells  
University of the Immaculate Conception

#### Other Priority Areas

An Observational Study on the Effects of Ballroom Dancing among Filipino Elderly with Mild Cognitive Impairment  
St. Luke's Medical Center

Community-and Home-Based Balance Training Intervention for Filipino Elderly at Risk for Falls  
St. Luke's Medical Center

Genetic Researches on Systemic Lupus Erythematosus Development  
University of the Philippines-Manila, National Institutes of Health-Institute of Child Health and Human Development

Species Diversity Analysis of *Schistosoma japonicum* and *Oncomelania hupensis quadrasi* Isolated from Endemic Provinces in the Philippines  
University of the Philippine Manila

Non-Pharmacological Home-Based Treatment for Dementia  
St. Luke's Medical Center-Memory Center

#### ONGOING

#### Tuklas Lunas

Project 1: Anti-diabetic Bioactive Hits from Priority Bioactive Extracts

Project 2: Anti-Hypertensive and Cholesterol-Lowering Bioactive Hits from Priority Extracts

Project 3: Anti-Inflammatory and Anti-Pain Bioactive Hits from Priority Extracts

Development of Novel Nanomedicine (*Redox Nanoparticles*) for the Protection of Radiotherapy Patients and Nuclear Workers

Project 1: Polydopamine Nanofilms as Surface Modifiers for Possible Anti-Microbial Application

Project 2: Polydopamine-Based Nano/Micro-Encapsulants and Particles for Molecular Loading and Controlled-Release Application

Enzyme Inhibitory Activity and In Vitro Bioactivities and Toxicities of Bioactive Extracts, Bioactive Hits, Drug Candidates and Dosage Forms

Formulation of Anti-Inflammatory Herbal Drugs for Pre-clinical and Clinical Development

Project 6: Chemical Standardization of *Moringa oleifera Lam* by Chromatographic Fingerprinting and Bioactive Compounds Analysis

Confirmatory and Orthogonal Assays to Eliminate Artefactual Drug Bioactivities (Phase 2): Expanded Suite of Assays to include Multiple Hallmarks of Cancer

Herbal Extracts from Palawan for Bioactivity and Toxicity Assays

Herbal Extracts from Northern Samar for Bioactivity and Toxicity Assays

Herbal Extracts from Panay Island for Bioactivity and Toxicity Assays

Herbal Extracts from Sierra Madre Mountain Range for Bioactivity and Toxicity Assays

Project 4: Acute toxicity Studies of *Moringa oleifera Aqueous* and Ethanol Leaf Extracts

Project 5: Anti-hypertensive Activity of *Lyophilized Aqueous* and *Ethanol Moringa oleifera* Leaf Extract in Sprague-Dawley Rats

Standard Protocols for Drug Discovery and Development Research

Integrative Laboratory Animal Testing of Medical Devices for Abdominal and Musculo-skeletal Disorders Program Project 1: Renovation of Laboratory Animal Surgical Facility

DDHP Bioactive Hit Proj 8. Isolation and Structure Elucidation of Bioactive Components From Herbal Extracts From Benguet for Anti-Diabetes

DDHP Bioactive Hit Proj 9. Isolation, Purification, and Structure Elucidation of Potential Anti-Cancer Compounds From Bioactive Extracts

DDHP Bioactive Hit Proj 10. Anti-cancer Bioactive Hits From Bioactive Extracts

DDHP Bioactive Hit Proj 12: Bioactive plant compounds as immunotherapeutic agents for secondary immunodeficiency disorders

DDHP Bioactive Hit Proj 13: Isolation of Compounds from Selected Plants Extracts Collected by UPD-IB Toxic to Cancer Cell Lines

Project 1 - Development and Validation of TLC Methods for Chemical Standardization of Plant Extracts with Anti-Diabetic and Anti-Hypertensive Properties

Project 4 - Formulation of Standardized Herbal alpha-Glucosidase Inhibiting Extracts for Pre-Clinical and Clinical Development

Project 5 - Standardized Dosage Forms of Biologically Active Extracts Suitable for Use in Pre-clinical and Clinical Development

Project 6 - Evaluation of xanthine oxidase inhibition activity of the formulated tablet from the ethanolic extracts of selected medicinal plants for gout

Project 7 - Formulation of Anti-Hypertensive Standardized Herbal Extracts for Pre-clinical and Clinical Development

Metabolomics-Driven Discovery of Antimicrobial Drug Leads from Marine-Sediment Derived Actinomycetes of Iloilo

Exploring the Potentials of Philippine Ferns and Lycopods as Therapeutics for Chronic Inflammation and Cancer

Mykoming of Mushroom and Allied Species in Central Luzon for their Medicinal Properties

Project 1: Characterization of Mango (*Mangifera indica*) Peel and Passion Fruit Derived Pectin as Pharmaceutical Binder

Project 2: Pectin Extraction from Passion Fruit Peel (*Passiflora edulis*) as Pharmaceutical Excipient

Project 3: Characterization of the Extracted Mucilaginous Substance of Selected Philippine Vegetables and Fruits as Pharmaceutical Binder

Project 4: Toxicological Screening of Plant-derived Excipients

Promoter-Based Drug Screen for Prostate Cancer Therapy

Philippine Biorepository Network  
Seedbanking for Long-Term Sustainable Conservation and Utilization of Philippine Medicinal Plant

Establishment of a Philippine Medicinal Plants Garden as a Biobanking Facility

Project 2 - Chemical Profiling and Standardization of Medicinal Plants

Project 3 - Formulation of Anti-Inflammatory Herbal Drugs for Pre-clinical and Clinical Development

Comparison of Selected Medicinal Plant Extracts of Mindanao from Conventional Solvent Extraction versus Supercritical Carbon Dioxide (SC-CO<sub>2</sub>) Extraction and Identification of Bioactive Compounds

A Randomized Control Trial on the Efficacy of Psidium guajava Gargle versus Normal Saline Solution in Improving Clinical Outcomes among Patients diagnosed with Acute Tonsillopharyngitis (Project 2)

In vitro Toxicity Testing of Plant Extracts with Bioactivity against Diabetes Mellitus

Project 1. Ethnomycology, Mycophagy and Mykopharming of Wild Edible and Poisonous Mushrooms

Project 2. In Vitro Enzyme-based Screening of Mushrooms for Anti-pain, Anti-hypertensive, and Anti-diabetic Properties

Project 3. Molecular Identification, Toxicity Profiling and Anti-Cancer Screening of Mushrooms Luzon Island, Philippines

Project 1: Anti-Inflammatory and Toxicity Profile of Ethanolic Extracts from Indigenous Plants of Ilocos Norte

#### Omic Technologies for Health

Functional characterization of novel mutations in downstream effectors of the EGFR Signaling Pathway among Filipino colorectal cancer patients

Evaluation of Candidate Genomic Variations as Pharmacogenetic Markers for Commonly Used Oral Hypoglycemic Agents among Filipinos

Pharmacogenetic Studies on some Commonly-Used Drugs for Hypertension, Dyslipidemia, and Coronary Artery Disease Among Filipinos

The Prevalence of Genetic Polymorphisms Associated with the Risk for the Development of Hypertension, Dyslipidemia, and Coronary Artery Disease Among Filipinos

Correlation of Candidate Genomic Variations for Susceptibility and Risk Assessment of Type 2 Diabetes Mellitus and its Related Medical Conditions

Transcriptional Profiling and Pathway Analyses for Complications of Type-2 Diabetes Mellitus

Quantitative Molecular Signatures and Predictors of Sepsis and the Development of its Complications using Gene Expression Markers and Pathway Analyses

Quantitative Molecular Signatures and Predictors of Leptospirosis and the Development of its Complications using Gene Expression Markers and Pathway Analyses

IMP-XDP: Investigations on the Molecular Pathogenesis of X-linked Dystonia Parkinsonism

Blood and placental gene expression in gestational diabetes mellitus: potential identification of early biomarkers

Screening and assessment of clinical outcomes of non-familial, sporadic, microsatellite stable young-onset colorectal cancer patients

Mutational profiling of KRAS, NRAS, PIK3CA, BRAF and PTEN genes in Filipino young-onset sporadic colorectal cancer patients

Functional characterization of novel mutations in downstream effectors of the EGFR Signaling Pathway among young-onset Filipino colorectal cancer patients

See and Sequence' - Genomic surveillance of antimicrobial resistant and high-risk pathogenic clones within the Philippines

Structure Elucidation and Characterization of the Venus Kinase Receptors of a Philippine Isolate of Schistosoma japonicum

Responding to the Philippine HIV Epidemic: An HIV Drug Resistance Surveillance Library and Development of Molecular Diagnostics for Drug Resistance Detection Part 2: Analysis and Prevalence of Pre-treatment Drug Resistance

Genetic Researches on Systemic Lupus Erythematosus Development

HIV G.E.T (Gaming, Engaging and Testing) Project

Project 1: Assembly and Archiving of Clinical Samples for Proteomic Analysis

Project 2: Sample Processing for Proteomic Analysis and Functional Characterization and Early Clinical Confirmation of Biomarker Application

Project 3: Proteomic analysis of aberrant protein expression in Non-Small Cell Lung Cancer (NSCLC)

#### Functional Food

Philippine Sweet Potato Flour as a Functional and Technological Food Ingredient

Potential Presence of Antihypertensive Peptides in Select Philippine Fermented Food

Project 4. Development of Mushroom-Based Functional Foods

Angiotensin I-Converting Enzyme (ACE) Inhibitory Peptides from Mangoes (*Mangifera indica* L. cv. 'Carabao') in Selected Provinces in the Philippines

#### Diagnostics

Development of Low Cost Point of Care Diagnostics for Simultaneous Detection of *Paragonimus westermani* and *Mycobacterium tuberculosis* using RPA Technology

Frequency of Lysosomal Storage Disorders Among Patients Suspected to have the Clinical Features of these Diseases at the Philippine General Hospital

Development of Label- Free Novel Detection of Dengue NS-1

Triple-D Targets: The UK-Philippines Dengue Diagnostic and Drug Targets Research Consortium

Evaluation, Validation and Field Testing of the St. Luke's Medical Center Dengue Point-of-Care Test

Field Integrated Novel Diagnostics for Flaviviruses (FIND-Flaviviruses)

Dengue and Other Arboviruses

Project 1: Assembly and Annotation of Aedes Genomics from Philippines Samples

Project 2: Phenotypic and Genetic Adaptation of Aedes aegypti to Hot or Cold Conditions in the Philippines

Project 3: Functional Genomics of Aedes aegypti: gene expression and adaptation to Heat

Project 1: Performance of an Innovative Auto-Dissemination of Insecticides (InDAI) for Dengue Mosquito Control in the Philippines

Efficacy of Auto Dissemination in Reducing Dengue Incidence in the Philippines

Factors Affecting the Acceptability of an Innovative Auto Dissemination of Insecticides for Reducing Dengue Incidence in the Philippines

Project 4: Effect of AD-PPF on the Dengue Incidence Through the Use of Den NS1, IgG, IgM Rapid Test

A Study of Mosquitoes of Makiling Forest Reserve (MFR) Area with Characteristic Land Use and Survey of their Arbovirus Diversity through Vector-enabled Virome Sequencing (VEVS)

Detection and Characterization and Characterization of Arboviruses from Mosquito Samples

#### Mental Health

Defining the Philippine Mental Health Research Agenda Through Multi-stakeholder Consultation

#### ICT in Health

Roll-out of 1,000 RxBox Telehealth Device in Selected Rural Health Centers in the Philippines  
Department of Science and Technology Regional Office IV-A

eHealth Analytics for Data-driven Decision-making  
Institute of Philippine Culture, Ateneo de Manila University

Feasibility Analysis of Syndromic Surveillance using a Spatio-Temporal Epidemiological Modeler (FASSTER) for early detection of diseases  
Ateneo de Manila University

Project 1: Generation of Pediatric Oncology Registry through Baseline Survey and Situational Analysis regarding the availability and extent of pediatric palliative care services in the Philippines and the Development of a Web-based Palliative Care Service Platform (component project of Aruga sa Batang may Cancer (ABC) Initiative Program: A Web-based Pediatric Palliative Care Service Provider in the Philippines)  
University of the Philippines Open University

Project 2: Development and Delivery of Online Training Materials for Healthcare Professionals on Palliative Care for Children with Cancer through the Web-based Palliative Care Service Platform (component project of Aruga sa Batang may Cancer (ABC) Initiative Program: A Web-based Pediatric Palliative Care Service Provider in the Philippines)  
University of the Philippines Open University

eHealth Training on Unified Resources Online (eTURO)  
Ateneo de Manila University

EMR for XDP Care: Design, Development, and Implementation of an Electronic Health Information System for X-linked Dystonia Parkinsonism  
National Telehealth Center, University of the Philippines Manila

Data Privacy Toolkit for Research Involving Human Participants in the Philippines: A Participatory Action Research Project  
Social Sciences and Philosophy Research Foundation, Inc.

Assessing Health Technologies Contributions to Health Governance and Program Management in the Philippines: Philippine Component of the Health Technologies for Informed Decision-making of Local Governments (HATID ASEAN) Project in Three ASEAN Countries  
Ateneo de Manila University

Telehealth Services for the Treatment of Psychiatric Conditions  
Southern Philippines Medical Center

Effect of RxBox on Patient and Health Information Outcomes in Philippine RHUs  
University of the Philippines Manila

#### Disaster Risk Reduction and Climate Change Adaptation

##### Workshop Proposals

Assessment of the Quality of Water, Sanitation and Hygiene Practices of Households in the Province of Quirino: A Basis for Interventions for the Prevention of Flood-associated Diseases and Hazards  
Quirino State University

Loop-Mediated Isothermal Amplification (LAMP) Detection for Schistosoma japonicum in Environmental and Flood Waters: Risk-Based Surveillance of Suspected Transmission Sites  
Central Luzon State University

Development of microfluidic paper-based analytical devices ( $\mu$ PADs) for the detection of pathogens in water as a disaster-risk preventive tool  
Nueva Vizcaya State University

Influence of Habitat and Climate Variables on Dengue Vectors in Cagayan de Oro City  
Xavier University

Camfant: Retorted Ready-To-Eat Complementary Food For 6-12 Month's Old Infant  
Eastern Visayas State University

Assessment of the Safety Level of Level 1 Government Hospitals in Region 8 Based on DOH's Hospital Safety Index  
Schistosomiasis Control and Research Hospital

Risk Assessment of Common Health Problems in Core Shelters of Tuguegarao City  
Cagayan State University – Andrews

Assessment of Regional and Local Development Outcomes and Health and Health-Related Indicators for DRR in Region 1  
National Economic and Development Authority

Heavy Metals Assessment in Drinking and Deep Well Waters in Marawi City – Post Siege  
Mindanao State University Marawi

##### Non-workshop Proposals

Development of Health Index: Vulnerability to Extreme Environmental Events (D-HIVE) for Marinduque Island  
Mapua University

Project 1: Creation and Pilot Testing of Disaster Resource Mapping and Damage Assessment Software (Web-based and Android App-based)  
University of the Philippines Manila

Project 2: Mental Health Triaging for Evacuation Center and Camp Management  
University of the Philippines Diliman

Project 3: Simulation-Based Learning Laboratory  
University of the Philippines Manila

##### Other Priority Areas

Development of an Animal Model for Use in Radiation Research and Establishment of the Radiation Biology Research Center: Core Facility for Radiobiological Research

Impact assessment of diagnostic tools for multi-drug resistant and (MDR-TB) drug sensitive tuberculosis (TB) in the Philippines

ENSURE: Enhanced surveillance for control and elimination of malaria in the Philippines

Comparison of the Different Brain Collection Techniques and Evaluation of the Spinal Cord and Mixed Brain Tissues as Specimen for Rabies Diagnosis

Incidence of HIV in a cohort of men who have sex with men in Metro Manila

Emerging Disciplinary Research Program: Control Aspects of the Cardiovascular-Respiratory System

The COPD Profile and Survival (CPASS) Study

Prevalence of Iron Deficiency Anemia and Thalassemia in the National Capital Region, Philippines: Implications on Policies on Anemia

Impact assessment of the project entitled: "Towards a Sustainable Control and Elimination of Schistosomiasis in the Philippines"

TIPS 3 (The International Polycap Study 3): A Randomized Double-Blind Placebo-controlled Trial for the Evaluation of a Polypill Low Dose Aspirin and Vitamin D supplementation in primary prevention.

Prospective Urban and Rural Epidemiological Study (PURE)

Prevalence Survey for Leptospirosis Among Animals In Iloilo Province

An Intensive Community-Based Lifestyle Intervention Program for the Prevention of Type 2 Diabetes Mellitus among some Filipinos in San Juan, Batangas, Philippines  
Institutional Grant for Invigorating Basic Research on Health Sciences

#### Regional Research Fund

##### Region 1

Platelet Augmenting, Nephroprotective and Hepatoprotective Activities of Sweet potato (*Ipomoea batatas*) Extract  
Virgen Milagrosa University Foundation

Bacterial Property of *Zingiber officinale* (Ginger) Against *Staphylococcus aureus*, Methicillin Resistant *Staphylococcus aureus*, *Escherichia coli* and Extended Spectrum Beta Lactamase *Escherichia coli*  
University of Northern Philippines

##### Region 2

Evaluation of Anti-diabetic Property of Cacao (*Theobroma cacao* L.) Extract in a Mouse Model of Diabetic Type II  
Cagayan State University

The Safety and Efficacy of Mansanita Leaves in the Dissolution of Gallstones  
Saint Paul University Philippines

Botanical Survey and Laboratory Assay of Garden Plants as Mosquito Repellents  
Isabela State University-Cabagan Campus

The Immunomodulating Acton of *Ganoderma lucidum* and *Chrysanthemum indicum* Linn and their Preclinical Evaluation in Lowering Atherosclerosis Risk Factors in Hypercholesterolemic Rats  
Saint Mary's University

##### Region 3

The Anti-Hyperglycemic Properties of the Ethyl Acetate and Hexane Extracts from Kondol Leaves (*Benincasa hispida Cogn*)  
Angeles University Foundation

Kinect-Operated Bed: Innovative Posture Detection and Bedsores Preventing Device  
Systems Plus College Foundation

Analgesic Activity of *Canaga odorata* (Lam.) Hook F & Thomson Leaves Decoction  
University of the Assumption

Anti-diarrheal Potential of Cainito (*Chrysophyllum cainito*) for Young Individual  
Pampanga State Agricultural University

Comparative Antidiabetic Properties of Red Rice and Black Rice Extracts and Germinated Brown Rice (*Oryza sativa*) using Diabetic Mice Models Basis for Drug Formulation and Optimization  
Pampanga State Agricultural University

#### Region 4A

The Validity Of Hba1c In The Diagnosis Of Type 2 Diabetes Mellitus Among Individuals At Risk Seen In The Outpatient Clinics Of De La Salle University Medical Center: A Cross-Sectional Study  
De La Salle Health Sciences Institute

Antimicrobial Screening of Ethnobotanically Important Indigenous Medicinal Plants used by the Aeta of Quezon Province  
Manuel S. Enverga University Foundation

Radiation Safety among Radiology Nurses: Policy Formulation and Program Development  
De La Salle Health Sciences Institute

#### Region 4B

Efficacy of *Ixora coccinea* Stem and Leaves as Anti-Inflammatory and Anti-Bacterial Agent in the Healing of Open Wound  
Marinduque State College

Implementation of Essential Intrapartum and Newborn Care Protocol in Puerto Princesa City and Palawan Province  
Palawan State University

Implementation of Essential Intrapartum and Newborn Care Protocol in Romblon  
Romblon State University

Implementation of Essential Intrapartum and Newborn Care Protocol in Oriental Mindoro  
Mindoro State College of Agriculture and Technology

#### Region 5

Survey and Bioassay Investigation of Plants for Diabetes Used by Folk Healers in the Rural Areas of Albay  
Bicol University-Tabaco Campus

Phytochemical Screening, Antimicrobial and Gastroprotective Activity Studies on the Fruit Peels of Selected Varieties of Banana in Albay  
Bicol University-Tabaco Campus

Effects of 4Ps on Selected Child Health Indicators in Western Visayas  
Department of Health Regional Office VI

#### Region 6

Knowledge about Hypertension and Care Management Practices of Residents in Leganes, Iloilo  
West Visayas State University

Factors Affecting the Decision to Seek Facility-Based Delivery among Women along the Magapa-Suague River Basin in Janiway, Iloilo  
West Visayas State University

Health-Seeking Behavior among Residents along the Magapa Suague River Basin in Janiway, Iloilo  
West Visayas State University

Caregiving Experiences of Family Caregivers of Adults with Severe Mental Illness  
West Visayas State University

Factors Affecting Nutritional Status of Children in Gawad Kalinga Villages in the Province of Iloilo  
West Visayas State University

Antibacterial and Antifungal Activity of Snake Plant (*Sansevieria trifasciata*) Leaf Extract  
Iloilo Doctors College

Modelling Dengue Prevalence in Iloilo Using Hierarchical Generalized Linear Models  
University of the Philippines Visayas

Involvement in Advocacy Activities for HIV AIDS of Medical Students in Western Visayas  
West Visayas State University

Antiangiogenic Properties of *Sargassum sp.* Extracts in Duck Chorioallantoic Membrane (CAM)  
St. Paul University Iloilo

Health Seeking Behavior and Socio Economic Profile of the Select Indigenous Peoples (IPs) Communities in Negros Occidental: Basis for Policy Review  
University of St. La Salle Bacolod

#### Region 8

Correlation between cavitory chest x-ray findings with gene expert negative and AFB sputum culture results  
Eastern Visayas Regional Medical Center

Analysis of the health status of ST Haiyan affected communities in Eastern Visayas  
University of the Philippines Manila School of Health Sciences

Chips consumption as a Risk Factor for UTI among School Children in Tacloban City Meat-Based Street Foods  
Eastern Visayas State University

Assessment of the Prevalence of Foodborne Pathogens from Selected Cities of Leyte  
Visayas State University (VSU)

#### Region 9

Analysis of Maternal Health Practices of Sama-Bajao in Zamboanga City: Implications to Current Maternal Health Care (Phase I)  
Ateneo Research Center, Ateneo de Zamboanga University

Diagnostic Accuracy of Serum Potassium Predictor (SE\_PO) in Predicting Serum Potassium among Pediatric Patients Diagnosed with Acute Gastroenteritis Seen at Zamboanga City Medical Center  
Zamboanga City Medical Center

#### Region 10

Demographic Variables and Child Caring Practices of Less Fortunate Households in Relation to Child Morbidity and Mortality Rate in the Selected Cities in Region X  
Mountain View College

Health Mapping of Selected Heavily Commercialized Agriculture Areas in Bukidnon  
Mountain View College

Impact of Tropical Typhoon Sendong on Iligan Survivors: Groundwork for Mitigation and Adaptation Programs with Emphasis on Health  
Iligan Medical Center College

Health Services Utilization and Customer Satisfaction in the Inter local Health Zones in Lanao del Norte, Region X  
Mindanao State University-Iligan Institute of Technology

Utilization of Health Information for Policy Formulation, Priority Setting and Resource Allocation in the Iligan City and Oroquieta Inter-local Health Zones to meet National Health Goals  
Mindanao State University-Iligan Institute of Technology

Child Labor in Dump and Quarry Sites of Key Cities in Region 10: effects on the Physical Health of Working Children  
Mindanao State University-Iligan Institute of Technology

Indigenous Knowledge Management on Medicinal Plants and Animals for Maternal and Child Care Among the Mamanuas in Lake Mainit, Surigao del Norte  
Mindanao State University-Iligan Institute of Technology

#### Region 11

Adequacy of Philhealth Insurance case rate coverage for medicines in pediatric patients with pneumonia admitted in a government hospital  
San Pedro College and Southern Philippines Medical Center

Linking the Epidemiology of dengue fever to climatic variability, population density and Social dynamics in Southern Mindanao  
Davao Medical School Foundation

Development and Validation of HPLC-DAD Methods for the Analysis of fresh and commercial *Blumea balsamifera* (Sambong), *Carmona retusa* (Tsaang gubat) and *Vitex negundo* (Lagundi)  
Ateneo de Davao University (ADDU)

Bioactive Metabolite Screening of *Nephrolepis cordifolia* Plant and its Associated Fungal Endophytes Against Methicillin-Resistant *Staphylococcus aureus*  
University of the Immaculate Conception (UIC)

Metal Sequestration in Simulated Gastro-Intestinal Fluid in Vitro and Cytotoxicity Study of Tamarind (*Tamarindus indica L.*) Rind Formulated Capsule  
University of the Immaculate Conception (UIC)

Investigation of Possible Inhibitory Action of Philippine crocodile (*Crocodylus mindorensis*) serum on Human Immunodeficiency Virus Type-1 Infectivity in vitro – Prior To and After Attachment to Human Peripheral Blood Mononuclear Cells  
University of the Immaculate Conception (UIC)

Investigation of possible Inhibitory Action of Philippine Crocodile (*Crocodylus mindorensis*) Serum on Human Immunodeficiency Virus Type-1 Infectivity in Vitro-prior to and after Attachment to Human Peripheral Blood Mononuclear Cells  
University of the Immaculate Conception

Ecology of Emerging Zoonotic Pathogens from Bats in Malagos, Davao City  
University of the Philippines Mindanao

Ectoparasites of Avian Species Visiting Selected Fruit Orchards of Davao City: Detection of Possible Zoonoses  
San Pedro College

#### Region 12

Capacities and Needs Assessment for Health Emergency Management Among Conflict-affected and Disaster-prone LGUs Along the Ligawasan Biodiversity Wetlands Reserve (LBWR)  
Mindanao State University-General Santos City Campus

Levels of Mercury in Water Sludge in Rivers and Waterways and Terrestrial Plants in Small-scale Mining and Ore Processing Areas at T'boli, South Cotabato  
Notre Dame of Marbel University

Antioxidant properties, acetylcholinesterase inhibition, and hydroxyapatite screening of marine shipworm (*Teredora princepsae*)  
Mindanao State University-General Santos City

Dengue Prevention and control measures among selected cities of Region 12  
Notre Dame University

Health emergency preparedness of local government units of SOCSARGEN  
Notre Dame of Dadiangas University  
Prevalence and care of mentally challenged children in Region 12  
Notre Dame University

STD/HIV Knowledge, Attitudes, and High Risk Behavior practices among ethnic and non-ethnic public high school students in Sarangani province  
Mindanao State University-General Santos City

Access and utilization of medicine among the elderly in General Santos city  
Mindanao State University-General Santos City

Level of Halal knowledge and Halal practices of small food establishments (SFE) vendors in the selected urban areas of Region 12  
Mindanao State University-General Santos City

The knowledge and practices on the prevention and management on water borne diseases among residents of flood prone areas in Region 12  
Notre Dame University

Programs on drugs and substance abuse prevention and law enforcement in two (2) cities in Region 12: An empirical study  
Mindanao State University-General Santos City

#### NCR

Association Between Tumor Necrosis Factor-Alpha-308 G/A Polymorphism and Chronic Obstructive Pulmonary Disease in Patients of the University of Santo Tomas Hospital  
University of Santo Tomas

AMP-Protein Kinase Activity of Selected Philippine Plants with Known Anti-Diabetic Property  
University of Santo Tomas

Bioluminescent Enzyme Immunoassay for the Rapid and Specific Detection of Rabies Virus  
Far Eastern University-Dr Nicanor Reyes Medical Foundation

#### CARAGA

Freshwater copepod species: Comparative biological control activity against dengue-carrier mosquitoes  
Caraga State University

Ultrastructural Characterization of Snail-associated digenic parasites in rice fields surrounding Lake Mainit, Philippines: Implications for transmission and control of schistosomiasis and other snail transmitted diseases  
Caraga State University

Factors associated with Acceptability of mass drug administration for morbidity control of schistosomiasis in Butuan City, Philippines  
Father Saturnino Urios University

#### CAR

Bacterial Antibiotic Resistance Pollution in the Balili River  
University of the Philippines Baguio

Quantification of Antibiotic Resistance Genes of Enterobacteriaceae from an Organic Farm and their Products in Benguet  
University of the Philippines Baguio

## List of Scholars for Accelerated S&T Human Resource Development Program

MD-PhD in Molecular Medicine

COMPLETED:

Climacosa, Freshthel Monica M.

MD-PhD in Molecular Medicine, UPM

**King, Ruby Anne N.**  
MD-PhD in Molecular Medicine, UPM

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MD-PhD in Molecular Medicine, UPM

**Santos, Bobbie Mary M**  
MD-PhD in Molecular Medicine, UPM

#### ONGOING:

**Abaca, Mark Joseph M.**  
MD-PhD in Molecular Medicine, UPM

**Abrilla, Aedrian A.**  
MD-PhD in Molecular Medicine, UPM

**Altavas, Patrick Josemaria D.**  
MD-PhD in Molecular Medicine, UPM

**Aquino, Inah Marie C.**  
MD-PhD in Molecular Medicine, UPM

**Asis, Joannes Luke B.**  
MD-PhD in Molecular Medicine, UPM

**Barcena, Allan John R.**  
MD-PhD in Molecular Medicine, UPM

**Barzaga, Arnold Dominic A.**  
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**Cadacio, Jessa Louise C.**  
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**Cruz, Christian Alfredo K.**  
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**Cruz, Criselda Jean**  
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MD-PhD in Molecular Medicine, UPM

**Custodio, Christian Jirard Z.**  
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**Dela Rosa, Jared Gabriel L.**  
MD-PhD in Molecular Medicine, UPM

**De Paz, Sheriah O.**  
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**Dungog, Cecile C.**  
MD-PhD in Molecular Medicine, UPM

**Fernandez, Natasha Andrea**  
MD-PhD in Molecular Medicine, UPM

**Gampoy, Eloina Faye S.**  
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**Gordovez, Francis James A.**  
MD-PhD in Molecular Medicine, UPM

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MD-PhD in Molecular Medicine, UPM  
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MD-PhD in Molecular Medicine, UPM

**Josol, Vivien Joyce D.**  
MD-PhD in Molecular Medicine, UPM

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MD-PhD in Molecular Medicine, UPM

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MD-PhD in Molecular Medicine, UPM

**Malabad, John Carlo M.**  
MD-PhD in Molecular Medicine, UPM

**Manalo, Rafael Vincent M.**  
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**Nakpil, Aurora S.**  
MD-PhD in Molecular Medicine, UPM

**Oliveras, Rommel R.**  
MD-PhD in Molecular Medicine, UPM

**Olotu, Mojisola Christine B.**  
MD-PhD in Molecular Medicine, UPM

**Ona, Kevin Austin L.**  
MD-PhD in Molecular Medicine, UPM

**Ornos, Eric David B.**  
MD-PhD in Molecular Medicine, UPM

**Pasion, Genmar Cyrus S.**  
MD-PhD in Molecular Medicine, UPM

**Padua, Ana Joy P.**  
MD-PhD in Molecular Medicine, UPM

**Perez, Joy Vanessa D.**  
MD-PhD in Molecular Medicine, UPM

**Perias, Glenmarie Angelica S.**  
MD-PhD in Molecular Medicine, UPM

**Poblete, Josept Mari S.**  
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**Pollo, Brian Andrich L.V.**  
MD-PhD in Molecular Medicine, UPM

**Quebral, Elgin Paul B.**  
MD-PhD in Molecular Medicine, UPM

**Relador, Ruth Joy L.**  
MD-PhD in Molecular Medicine, UPM

**Reyes, Jeremiah V.**  
MD-PhD in Molecular Medicine, UPM

**Reyes, John Carlo B.**  
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**Reyes, Lia Angela E.**  
MD-PhD in Molecular Medicine, UPM

**Robles, Joyce Ann H.**  
MD-PhD in Molecular Medicine, UPM

**Rojo, Raniv D.**  
MD-PhD in Molecular Medicine, UPM

**San Juan, Florence Gianina**  
MD-PhD in Molecular Medicine, UPM

**Santos, Jerico R.**  
MD-PhD in Molecular Medicine, UPM

**Salvador, Paul Benedict U.**

MD-PhD in Molecular Medicine, UPM

**Salvan, Maria Rosewyn Anne R.**  
MD-PhD in Molecular Medicine, UPM

**Sumalde, Angelo Augusto M.**  
MD-PhD in Molecular Medicine, UPM

**Severino, Mary Elise L.**  
MD-PhD in Molecular Medicine, UPM

**Sianoya, Abraham C.**  
MD-PhD in Molecular Medicine, UPM

**Sison, Simaco I.**  
MD-PhD in Molecular Medicine, UPM

**Solidum, Jea Giezl N.**  
MD-PhD in Molecular Medicine, UPM

**Tabios, Ian Kim B.**  
MD-PhD in Molecular Medicine, UPM

**Tan, Joanne Jennifer E.**  
MD-PhD in Molecular Medicine, UPM

**Tantengco, Ourlad G.**  
MD-PhD in Molecular Medicine, UPM

**Tumampo, Cherry Joy F.**  
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**Uy, Charles Patrick D.**  
MD-PhD in Molecular Medicine, UPM

**Uy, Mary Nadine Alessandra R.**  
MD-PhD in Molecular Medicine, UPM

**Velasco, Adrian Jonathan D.**  
MD-PhD in Molecular Medicine, UPM

**Vidal, Manuel S. Jr.**  
MD-PhD in Molecular Medicine, UPM

**Villanueva, Annavi Marie G.**  
MD-PhD in Molecular Medicine, UPM

**Vista, Fatima Ericka S.**  
MD-PhD in Molecular Medicine, UPM

**Zamora, Pia Regina F.**  
MD-PhD in Molecular Medicine, UPM

#### DOCTORAL DEGREE

##### COMPLETED:

**Amosco, Melissa De Lumen**  
PhD Molecular Biology & Biotechnology, UPD

**Guce-Bigol, Ursela P.**  
PhD Biochemistry, UPM

**Obusan, Marie Christine M.**  
PhD Environmental Science, UPD

**Pastor, Christ John M.**  
PhD Biochemistry, UPM

##### ONGOING:

**Ang, Mary Jean C.**  
PhD Medical Microbiology, UPM

**Bacudio, Ana Maria A.**  
PhD Medical Microbiology, UPM

**Baco, Fortunata L.**  
PhD Epidemiology, UPM

**Bondoc, Jonah L.**  
PhD Environmental Science, UPD

**Bonifacio, Julie Charmain O.**  
PhD Biology, UPD

**Cruz, Rogelio S.**  
PhD Biological Science, UST

**Cuarto, Ceazar Ryan U.**  
PhD Chemistry, UST

**Dimaguiba, Justin Rachelle P.**  
PhD Biology, SLU

**Encarnacion, Richard I.**  
PhD Molecular Biology and Biotechnology, UPD

**Galvez, Eleanor J.**  
PhD Health Promotion, UPM

**Gregorio, Ernesto Ramos Jr.**  
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**Hipol, Regina Lourdes B.**  
PhD Botany, UPLB

**Lardizaval, Mechelle P.**  
PhD Biology, SLU

**Maramag, Cherry C.**  
PhD Epidemiology, UPM

**Malecosio, Serafin O. Jr**  
PhD Epidemiology, UPM

**Miranda, Sheila De Vera**  
PhD Pharmacy, UST

**Ongpoy, Romeo C. Jr.**  
PhD Pharmacy, UST

**Oruga, Myra Dela Pena**  
PhD Health Promotion And Education, UPM

**Ramirez, Ma. Anna Rita M.**  
PhD Nutrition, UPD

**Sabinay, Stephen G.**  
PhD Molecular Biology and Biotechnology, UPLB

**21. Safra, Sheila Arelli G.**  
PhD Health Promotion and Education, UPM

**22. Sucoi, Yusuf A.**  
PhD Environmental Science, UPLB

**23. Varona, Gracia F.**  
PhD Parasitology, UPM

#### MASTER'S DEGREE

##### COMPLETED:

**Bautista, Tomas D.**  
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**Del Rosario, Glenn Sandee C.**  
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**Hernandez, Maria Christa A.**  
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**Perez, Jean H.**  
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**Quingking, Cherie Grace G.**  
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**Rebugio, Jesamine F.**  
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**Sarabia, Katherine Pearl B.**  
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**Serdina, Jan Michael B**  
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**Solana, MarikkaThaena V.**  
MS Clinical and Family Medicine, UPM

**Solidum, Andrew James A.**  
MS Molecular Medicine, SLMCCM

**Soriano, Simonette C.**  
MS PH Epidemiology, UPM

**Tayco, Crimson C.**  
MS Molecular Biology and Biotechnology, UPD

**Teh, Davidson B.**  
MS PH Epidemiology, UERMMC

**Teruel, Patricia Lyanne A.**  
MS Molecular Medicine, SLMCCM

**Toledo, Franklin U.**  
MS Applied Physics, UST

**Tuballes, Rehjin L.**  
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**Usman, Lourdes Consolacion R.**  
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**Uy, Hilda T.**  
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**Valenzuela, Madonna M.**  
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**Visda, Ann N.**  
MS Molecular Medicine, SLMCCM

**William, Karmille-Allyson D.**  
MS PH Epidemiology, UERMMC

**Yap, Kristine Jeanne A.**  
MS Medical Microbiology, UPM

**Zimmer, Mary Christine G.**  
MS Molecular Medicine, SLMCCM

## Regional Training Seminars and Workshops

### MD-PhD in Molecular Medicine

**Basic Ethics Training**  
January 24-25, 2018  
San Pedro College

**Accreditation Orientation Training**  
San Pedro Hospital and Metro Davao Medical and Research Center Inc. – Anda Riverview Medical Center Inc.  
February 4, 2018  
**Basic Ethics Training**  
Ateneo de Manila University  
February 8-9, 2018

**Basic Ethics Training**  
Department of Health Region III  
February 14-15, 2018

**Basic Ethics Training**  
Bataan General Hospital  
February 21-22, 2018

**GRP Training**  
South Manila Educational Consortium  
March 1-2, 2018

**Basic Ethics Training**  
Dr. Jose Fabella Memorial Hospital  
March 6-7, 2018

**SOP Training**  
Caraga Health Research and Development Consortium  
March 7-8, 2018

**Accreditation Orientation Training**  
San Lazaro Hospital  
March 11, 2018

**Basic Ethics Training**  
UP Open University  
March 14-15, 2018

**Basic Ethics Training**  
Region IV Health Research and Development Consortium  
March 21-22, 2018

**GRP Training**  
East Avenue Medical Center  
April 5-6, 2018

**SOP Training**  
Cordillera Regional Health and Research Development Consortium  
April 12-13, 2018

**Accreditation Orientation Training**  
Bicol Regional Training and Teaching Hospital  
April 16, 2018

**GRP Training**  
Philippine Association of Private Schools, Colleges, and Universities  
April 17-18, 2018

**Basic Ethics Training**  
Miriam College  
April 23-24, 2018

**Basic Ethics Training**  
Region XI USC  
April 25-26, 2018

**GRP Training**  
Southern Isabela General Hospital  
April 25-26, 2018

**Basic Ethics Training**  
Caraga Health Research and Development Consortium  
May 3-4, 2018

**SOP Training**  
ARMM Health Research and Development Consortium  
May 9-10, 2018

**Basic Ethics Training**  
University of the Philippines Cebu  
May 10-11, 2018

**GRP Training**  
National Children's Hospital  
May 17-18, 2018

**Basic Ethics Training**  
Cagayan Valley Health Research and Development Consortium  
May 24-25, 2018

**GRP Training**  
Saint Louis University  
May 28-29, 2018

**Basic Ethics Training**  
Amai Pakpak Medical Center (located in ARMM, under RegionX)  
June 6-7, 2018

**Basic Ethics Training**  
DOST VI  
June 18-19, 2018

**Basic Ethics Training**  
Cebu Technological University  
June 25-26, 2018

**SOP Training**  
Asian Hospital Medical Center  
June 26, 2018

**GRP Training**  
DOST MIMAROPA  
June 28-29, 2018

**Basic Research Ethics Training**  
Cordillera Regional Health Research and Development Consortium  
July 9-10, 2018

**Good Research Practice Training**  
East Avenue Medical Center, East Avenue  
July 11-12, 2018

**Basic Research Ethics Training**  
ManilaMed Medical Center  
July 12-13, 2018

**SOP Writeshop for IERCs**  
RHRDC XI  
July 16-17, 2018

**Basic Research Ethics Training**  
Region 1 Health Research and Development Consortium  
July 25-26, 2018

**Basic Research Ethics Training and SOP Training**  
Zamboanga Consortium for Health Research and Development  
July 30-31, 2018

**Orientation Training**  
Mary Mediatrix Medical Center Research Ethics Review Committee  
August 12, 2018

**Orientation Training**  
Perpetual Succour Hospital Institutional Ethics Review Board  
August 15, 2018

**Basic Research Ethics Training**  
DOH-CAR  
August 15-16, 2018

**Basic Research Ethics Training**  
MIMAROPA Health Research and Development Consortium  
August 23-24, 2018

**Orientation Training**  
Chinese General Hospital and Medical Center Research Ethics Review Board  
August 28, 2018

**SOP Workshop**  
Central Luzon Health Research and Development Consortium  
September 5-6, 2018

**Good Research Practice**  
Ateneo de Davao University  
September 11-12, 2018

**Good Research Practice**  
DOH-CAR  
September 11-12, 2018

**Basic Research Ethics Training**  
Mindanao State University – Iligan Institute of Technology (ARMM)  
September 18-19, 2018

**Basic Research Ethics Training**  
Center for Skin Research Testing and Product Development Inc. (NCR)  
September 21-22, 2018

**Basic Research Ethics Training / SOP Workshop**  
Central Visayas Research Ethics Committee (VII)  
September 25-26, 2018

**Training Workshop on Standard Operating Procedures for IERCs**  
Cebu Institute of Medicine  
September 25-26, 2018

**Good Research Practice**  
National University  
October 1-2, 2018

**Basic Research Ethics Training**  
Ateneo de Manila University  
October 8-9, 2018

**Basic Research Ethics Training**  
Ateneo De Naga University  
October 11-13, 2018

**Training on Good Clinical Practice**  
DOST 7  
October 23, 2018

**Basic Research Ethics Training**  
Cebu Normal University  
October 24-25, 2018

**Good Research Practice**  
College of St. Benilde  
October 29-30, 2018

**Basic Research Ethics Training**  
Palawan State University  
November 6-7, 2018

**Basic Research Ethics Training**  
Holy Cross of Davao College  
November 15-16, 2018

**Basic Research Ethics Training**  
19-20 November 2018

**Lecture-Discussion on Ethics in Health Research**  
December 19-20, 2018

## Media Mileage

Print

**WHO scientist to deliver PCHRD@36's keynote address**  
Diyaryo Pinoy  
March 5, 2018

**Test kit for dengue out in 3 regions soon**  
The Philippine Star  
June 4, 2018

### NEW LAB BOOK LAUNCH

- Malaya  
June 15, 2018
- Manila Bulletin  
June 16, 2018
- Philippine Daily Inquirer  
June 24, 2018
- The Philippine Star  
June 27, 2018

**DOST Collection of plants for drugs completed**  
The Philippine Star  
July 29, 2018

**Battle in the Blood joins the AIDS International Conference**  
The Manila Times  
August 9, 2018

**PCHRD taps DLSU's medical school in multimillion TB study**

- The Standard  
August 21, 2018
- Business Mirror  
August 23, 2018

**PCHRD taps DLSHSI in Multimillion TB Study**

- Business Mirror  
August 23, 2018
- Manila Bulletin  
September 8, 2018

**Dengvaxia won't be used again, unless...**  
The Philippine Star  
September 9, 2018

**Telemedicine now offered in Calabarzon**  
The Standard  
September 13, 2018

**DOST funded robotic arm prototype aids stroke patients**  
Manila Bulletin  
October 12, 2018

**DOST to spearhead 14th National Biotechnology Week**  
People's Monitor  
November 13, 2019

**DOST scholars run Asean's first nutrient-testing lab**

- People's Tonight  
December 5, 2019
- Business Mirror  
December 10, 2019

**DOST scholars run Asean's first nutrient-testing lab**

- Business Mirror  
December 10, 2019
- Philippine Daily Inquirer  
December 13, 2019

**Philippines stresses biodiversity efforts in UN confab**  
People's Journal  
December 11, 2019

**PCHRD taps DLSHSI in TB study**  
Philippine Daily Inquirer  
December 22, 2019

Online

**PHL Science dept bares 5 major achievements in 2017**  
Business Mirror  
January 7, 2018  
<https://businessmirror.com.ph/phl-science-dept-bares-5-major-achievements-in-2017/>

**Siquijor PSTC announces new projects for 2018**  
Philippine Information Agency  
January 11, 2018  
<http://pia.gov.ph/news/articles/1003920>

**DOH demands P1.4-B refund from Sanofi over 'defective' Dengvaxia**  
Inquirer  
January 12, 2018  
<https://newsinfo.inquirer.net/959768/doh-demands-p1-4-b-refund-from-sanofi-over-defective-dengvaxia>

**Health dept demands P1.4-B refund**  
The Manila Times  
January 13, 2018  
<http://www.manilatimes.net/health-dept-demands-p1-4-b-refund/373959/>

**DOST: More science, technology to Siquijor; MSMEs, healthcare, education to get boost**  
Manila Bulletin  
January 15, 2018  
<https://news.mb.com.ph/2018/01/15/dost-more-science-technology-to-siquijor-msmes-healthcare-education-to-get-boost/>

**DOH wants Sanofi Pasteur to refund P1.4B for unused Dengvaxia vaccine**  
Business Mirror  
January 15, 2018  
<https://businessmirror.com.ph/doh-wants-sanofi-pasteur-to-refund-p1-4b-for-unused-dengvaxia-vaccine/>

**Sanofi responds positively to govt's P1.4B reimbursement request for unused Dengvaxia**  
InterAksyon  
January 15, 2018  
<http://www.interaksyon.com/sanofi-responds-positively-to-govts-p1-4b-reimbursement-request-for-unused-dengvaxia/>

**14th National Medical Writing Workshop and 7th Writeshop for Young Researchers**  
Facebook  
January 16, 2018  
[https://www.facebook.com/henrylito.tacio?hc\\_ref=ARTNgtLpTXMCqEt56w7M3qbVhJDOZvZ\\_co6OtCOK1V\\_WRkb6ajQv7T2yGGwfDZfoFE&fref=nf](https://www.facebook.com/henrylito.tacio?hc_ref=ARTNgtLpTXMCqEt56w7M3qbVhJDOZvZ_co6OtCOK1V_WRkb6ajQv7T2yGGwfDZfoFE&fref=nf)

**Sanofi asks DOH chief for meeting**

Tempo  
January 17, 2018  
<http://tempo.com.ph/2018/01/14/sanofi-asks-doh-chief-for-meeting/>

**DLSU student develops robotic arm for stroke rehab**

ABS-CBN News  
January 18, 2018  
<http://news.abs-cbn.com/video/business/01/18/18/dlsu-student-develops-robotic-arm-for-stroke-rehab>

**Sanofi positively responds to D.O.H.'s request**

Business Mirror  
January 25, 2018  
<https://businessmirror.com.ph/sanofi-positively-responds-to-d-o-h-s-request/>

**PCSO chief tells Cam to sue him in court**

The Manila Times  
January 25, 2018  
<http://www.manilatimes.net/pcso-chief-tells-cam-sue-court/376296/>

**Agapay project develops robotic arm prototype for stroke patient rehab**

Good News Pilipinas  
January 26, 2018  
[https://www.goodnewspilipinas.com/agapay-project-develops-](https://www.goodnewspilipinas.com/agapay-project-develops-robotic-arm-prototype-for-stroke-patient-rehab/)

[robotic-arm-prototype-for-stroke-patient-rehab/](https://www.goodnewspilipinas.com/agapay-project-develops-robotic-arm-prototype-for-stroke-patient-rehab/)

**Sotto to Duque: DOH, not PAO, should take lead in Dengvaxia probe**

Rappler  
January 31, 2018  
<https://www.rappler.com/nation/194919-sotto-duque-doh-not-pao-lead-probe-dengvaxia>

**10 Happy Healthier Heart Tips- DOST PCHRD**

diaryongtagalog.net  
February 6, 2018  
<http://www.diaryongtagalog.net/agm/>

**10 small steps to a healthier heart**

Business Mirror  
February 11, 2018  
<https://businessmirror.com.ph/10-small-steps-to-a-healthier-heart/>

**WHO scientist to speak at PCHRD 36th yr celebration**

Business Mirror  
March 4, 2018  
<https://businessmirror.com.ph/who-scientist-to-speak-at-pchrd-36th-yr-celebration/>

**R&D council highlights value of social innovations in health**

Philippine News Agency  
March 16, 2018  
<http://www.pna.gov.ph/articles/1029011>

**DOH, DOST to fund dengue-related studies**

Philippine Canadian Inquirer  
March 17, 2018  
<http://www.canadianinquirer.net/2018/03/17/doh-dost-to-fund-dengue-related-studies/>

**Breathing new life into the Lung Center**

Philippine Inquirer  
March 18, 2018  
<http://newsinfo.inquirer.net/976128/breathing-new-life-into-the-lung-center>

**6 Filipino female scientists who are improving the way we live**

CNN Philippines  
April 4, 2018  
<http://cnnphilippines.com/life/culture/2018/04/02/filipino-female-scientists.html>

**Health research leaders in the Philippines recognize the impact of social innovation in health**

TDR  
May 9, 2018  
<http://www.who.int/tdr/news/2018/philippines-impact-of-social-innovation-in-health/en/>

**Scientists: Boracay environmental woes traced to weak governance**

Business Mirror  
May 13, 2018  
<https://businessmirror.com.ph/scientists-boracay-environmental-woes-traced-to-weak-governance/>

**DOST-PCHRD calls for Thesis Grant Applications**

Claire Delfin Media  
May 19, 2018  
<http://clairedelfinmedia.com/dost-pchrd-calls-for-thesis-grant-applications/>  
Philippine Information Agency  
May 20, 2018  
<http://pia.gov.ph/news/articles/1008107>  
The Daily Guardian  
May 17, 2018  
<https://theguardian.net/community-news/dost-pchrd-calls-for-thesis-grant-applications-2/>  
The Guardian Daily  
March 19, 2018  
<https://theguardian.net/community-news/dost-pchrd-calls-for-thesis-grant-applications/>

**DOST arm helps boost PH researchers' capabilities**

Philippine News Agency  
May 24, 2018  
<http://www.pna.gov.ph/articles/1036111>  
PTV News  
May 24, 2018  
<https://www.ptvnews.ph/dost-arm-helps-boost-ph-researchers-capabilities/>

**Newborn screening: Science saves lives**

Business Mirror  
June 3, 2018  
<https://businessmirror.com.ph/newborn-screening-science-saves-lives/>

**Test kit for dengue out in 3 regions soon**

Philippine Star  
June 4, 2018  
<https://www.philstar.com/headlines/2018/06/04/1821414/test-kit-dengue-out-3-regions-soon>

**Screening the new born, starting a healthy new life**

SunStar Manila  
June 9, 2018  
<http://www.sunstar.com.ph/article/1747150/Manila/Feature/Screening-the-new-born-starting-a-healthy-new-life>

**Semicon, Mangga at Mina pinag usapan sa Agham Bayan**

diaryongtagalog.net  
June 21, 2018  
<http://www.diaryongtagalog.net/agrikultura/semicon-mangga-at-mina-pinag-usapan-sa-aghambayan-benepisyaryo-sa-repomang-agrario-sa-boracay-rehab-mga-ati-dar-aghambayan-inilunsad/>

**D.O.S.T.: All-around policy approach means better health for Filipinos**

Business Mirror  
June 24, 2018  
<https://businessmirror.com.ph/d-o-s-t-all-around-policy-approach-means-better-health-for-filipinos/>

**Mental Health Law encourages R&D on mental health**

Philippine Information Agency  
June 27, 2018  
<http://pia.gov.ph/news/articles/1009563>

**Battle in the Blood' to premier at 2018 Int'l AIDS Conference in The Netherlands**

Manila Bulletin  
July 2, 2018  
<https://technology.mb.com.ph/2018/07/02/battle-in-the-blood-to-premier-at-2018-intl-aids-conference-in-the-netherlands/>

**Game on for HIV/AIDS awareness**

Daily Tribune  
July 13, 2018  
<http://tribue.net.ph/index.php/2018/07/13/game-on-for-hiv-aids-awareness/>

**Baguio to host Health Research Consortiums Nat'l Conference**

Philippine Information Agency  
July 30, 2018  
<http://pia.gov.ph/news/articles/1010980>

**Baguio to host health research week**

Manila Bulletin  
July 31, 2018  
<https://news.mb.com.ph/2018/07/31/baguio-to-host-health-research-week/>

**State U gets P35-M fund for research on 11 plants as herbal meds**

Philippine News Agency  
August 7, 2018  
<http://www.pna.gov.ph/articles/1043967>

**PCHRD taps DLSU's medical school in multimillion TB study**

Manila Standard  
August 10, 2018  
<http://manilastandard.net/lifestyle/home-living/273499/pchrd-taps-dlsu-s-medical-school-in-multimillion-tb-study.html>

**PCHRD taps DLSHSI in multimillion TB study**

Business Mirror  
August 15, 2018  
<https://businessmirror.com.ph/pchrd-taps-dlshsi-in-multimillion-tb-study/>  
Philippine Graphic  
September 11, 2018  
[https://media-meter.net/api/media\\_api/print\\_pdf?cmx\\_hash=982b3dd30e4c5fea36df80ce358da76c&val=t](https://media-meter.net/api/media_api/print_pdf?cmx_hash=982b3dd30e4c5fea36df80ce358da76c&val=t)

**Philippines gives importance to IP valuation**

OpenGov  
September 26, 2018  
<https://www.opengovasia.com/philippines-gives-importance-to-ip-valuation/>

**PH to host ASEAN Science Ministers meeting**

Philippine News Agency  
October 5, 2018  
<http://www.pna.gov.ph/articles/1050164>

**Science researchers urged to apply for innovation training in UK**

Philippine News Agency  
October 15, 2018  
<http://www.pna.gov.ph/articles/1051129>

**Low-cost ventilator for ICU patients proposed**

Manila Bulletin  
October 4, 2018  
<https://news.mb.com.ph/2018/10/03/low-cost-ventilator-for-icu-patients-proposed/>

**Sec Dela Peña shared innovations, other DOST programs at S&T Week**

Philippine Information Agency  
October 17, 2018  
<https://pia.gov.ph/news/articles/1013984>

**Sec Dela Pena shared Innovations, Other DOST Programs at S&T Week**

Metro Cebu  
October 18, 2018  
<http://metrocebu.news/2018/10/sec-dela-pena-shared-innovations-other-dost-programs-at-st-week>

**Tuburan coffee farmers eye 3-in-1 variant**

Sunstar  
October 21, 2018  
<https://www.sunstar.com.ph/article/1770213>

**Fujifilm PH advocates early detection for breast cancer**

Manila Standard  
October 31, 2018  
<http://manilastandard.net/spotlight/279326/fujifilm-ph-advocates-early-detection-for-breast-cancer.html>  
Philstar Global  
November 16, 2019  
<https://www.philstar.com/lifestyle/business-life/2018/11/16/1867983/fujifilm-philippines-advocates-early-detection-breast-cancer>

**Cellphones: Cancerous or not?**

Sunstar  
November 3, 2018  
<https://www.sunstar.com.ph/article/1772335/Cebu/Lifestyle/Cellphones-Cancerous-or-not>

**CHED exec says health research should benefit people**

PTV News  
November 8, 2019  
<https://www.ptvnews.ph/ched-exec-says-health-research-should-benefit-people/>  
Sunstar  
November 11, 2019  
<https://www.sunstar.com.ph/article/1773533/Cagayan-De-Oro/Feature/DOST-hosts-the-National-Biotechnology-Week-2018>

**DOST, CHED support health R&D in WV**

The Daily Guardian  
November 12, 2019  
<https://theguardian.net/community-news/dost-ched-support-health-rd-in-wv/>

**A Nobel Prize Winner Is Visiting The Philippines. Here's What You Need To Know**

FlipScience  
November 13, 2019  
<https://www.flipscience.ph/news/nobel-prize-roberts-philippines/>

**Public urged to learn about biotech thru exhibits**

Philippine News Agency  
November 13, 2018  
<http://www.pna.gov.ph/articles/1053758>

**Surviving colon cancer**

Manila Standard  
November 15, 2019  
<http://manilastandard.net/opinion/columns/pop-goes-the-world-by-jenny-ortuoste/280525/surviving-colon-cancer.html>

**DOST backs W. Visayas health research**

Manila Bulletin  
November 18, 2019  
<https://news.mb.com.ph/2018/11/19/dost-backs-w-visayas-health-research/>

**Nobel Sentiments: 11 Epic Quotes From Sir Richard J. Roberts**

Flip Science  
November 21, 2018  
<https://www.flipscience.ph/news/features-news/11-quotes-nobel-sir-roberts/>

**A Nobel knight: Sir Richard J. Roberts on Pinoy biotechnology, curiosity, and GMOs**

GMA News Online  
November 21, 2019  
<https://www.gmanetwork.com/news/scitech/science/675615/a-nobel-knight-sir-richard-j-roberts-on-pinoy-biotechnology-curiosity-and-gmos/story/>

**PHL left behind by neighbors in health diagnostics R&D**

Business Mirror  
November 25, 2018  
<https://businessmirror.com.ph/phl-left-behind-by-neighbors-in-health-diagnostics-rd/>

**PH, Aussie university ink MOU on R&D, education**

Philippine News Agency  
November 27, 2019  
<http://www.pna.gov.ph/articles/1055109>

**Changing the world, one mouth at a time**

Panay News  
November 27, 2019  
<https://www.panaynews.net/changing-the-world-one-mouth-at-a-time/>

**There's a way to combat HIV through a mobile game**

CNN Philippines  
December 1, 2018  
<http://cnnphilippines.com/lifestyle/2018/12/01/combating-hiv-mobile-game.html>



**DOST scholars run nutrient-testing lab**  
Manila Standard  
December 4, 2019  
<http://www.manilastandard.net/news/national/282132/dost-scholars-run-nutrient-testing-lab.html>

**Scientists urged to explore untapped plants for food, medicine**  
PTV News  
December 7, 2019  
<https://ptvnews.ph/scientists-urged-to-explore-untapped-plants-for-food-medicine/>

#### Television

**Agapay Project**  
ANC  
January 15, 2018

**Dengvazia**  
News5  
January 15, 2018

**Axis Knee System**  
DOSTv  
January 26, 2018

**Newton Agham Program**  
DOSTv  
January 16, 2018

**Biotek-M**  
Philippine Genome Center  
March 20, 2018

**PCHRD Anniversary**  
DOSTv  
April 3, 2018

**Interview with Dr. Jaime Montoya**  
GMA-7  
June 4, 2018

**PNHRS Week**  
DOSTv  
August 24, 2018

**PNHRS Week**  
DOSTv  
August 29, 2018

#### Radio

**PNHRS Week**  
DWDD  
August 1, 2018

**PNHRS Week**  
Net25  
August 3, 2018

**PNHRS Week**  
Radyo Pilipinas  
August 5, 2018

## BSP Awardees

#### Short Term

**Dr. Romulo J. De Castro**  
Biomedical Research and Informatics  
University of the Philippines - Manila and University of the Philippines - Los Baños

**Dr. Cheryl P. Andam**  
Microbial Ecology, Evolution and Genomics  
National Institute for Molecular Biology and Biotechnology (BIOTECH), University of the Philippines - Los Baños

**Dr. Albert B. Flavier**  
Microbial Biotechnology, Bioinformatics  
Marine Science Institute, University of the Philippines - Diliman

**Dr. Arnulfo C. Rosario, Jr.**  
Medical Informatics  
Philippine National Ear Institute, National Institutes of Health, UP  
Manila

## HERDIN on Tour Visited Institutions

Universidad de Zamboanga  
Zamboanga City Medical Center  
Zamboanga Consortium for Health Research and Development (ZCHRD)  
Philippine Orthopaedic Association  
Adamson University  
Matias H. Aznar Memorial College of Medicine, Inc. (MHAMCM)  
Fellows Philippine  
Obstetrics and Gynecology Society, Inc (FPOGS)  
University of San Jose Recoletos  
Ago Medical and Educational Center- Bicol Christian College of Medicine (AMEC-BCCM)  
Divine World College of Legazpi (DWCL)  
Bicol University  
Father Saturnino Urios University  
Saint Joseph Institute of Technology  
Butuan Doctor's College  
Caraga State University

## PCHRD Personnel

#### PCHRD Officials

**Jaime C. Montoya, MD, MSc, PhD, CESO III**  
Executive Director

#### Division Chief

**Paul Ernest N. De Leon**  
Research and Development Management Division

**Merlita M. Opeña**  
Research Information, Communication and Utilization Division

**Carina L. Rebulanan**  
Institution Development Division

**Edgar F. Ortiz**  
Finance and Administrative Division

#### Office of the Executive Director

**Manalo, Eliza D.**

**Tumlos, Vincent John H.**

**Laureano, Eric B.**

**Martinez, Gerlie P.**

**Ramos, Angelene B.**

#### Research and Development Management Division

**Taguiang, Ma. Rosella L.**

**Cajigas, Ma. Elizabeth R.**

**Dumol, Cecile G.**

**Gelera, Guidditta L.**

**Pacho, Mary Ann I.**

**Bulao, Melissa C.**

**Tumlos, Pearl Kathleen C.**

**Guaring, Rogelio II V.**

**Gepanaga, Jose Joy J.**

**Abarintos, Vernalyn R.**

**Almonte, Andrea Mae L.**

**Balbedina, Janine Marie B.**

**Bartolome, Jay Vee C.**

**Buan, Raizsa Sharmi E.**

**Crisostomo, Mer-va F.**

**Cruz, Clairezelle Maclaime I.**

**Cruz, Ervinna M.**

**Dalugdog, Arnestie F.**

**Daval-Santos, Jude A.**

**De Los Santos, Joanna Marie B.**

**Depatillo, John Philip P.**

**Eugenio, Maica Ann A.**

**Gaela, Venus Marie A.**

**Galinato, Mark Gabriel M.**

**Gaylan, Christine Mae D.**

**Guerbo, Cindy Grace A.**

**Hipe, Alyanna Maachah P.**

**Laya, Marianne Joy G.**

**Lozada, Lemuel D.**

**Mendoza, Ana Veronica C.**

**Mogol, Evita Linda M.**

**Morada, Keshia Gem L.**

**Nacario, Alyssa Gail G.**

**Pagsuyuin, Sherna Joanna T.**

**Parena, Aeron Jade S.**

**Pia, Earl Clyde Matthew A.**

**Punzalan, Shiela Luz M.**

**Sabellano, Janel A.**

**Sanchez, Claridel H.**

**Santiago, Richelle L.**

**Soria, Marie Claire A.**

**Tamayo, Kathleen B.**

**Tordesillas, Carlo Adrian Ephraim T.**

**Vedan, Ron Carlo C.**

**Verano, Aldrick B.**

#### Research Information, Communication and Utilization Division

**Maronito, Roselle L.**

**Intia, Maria Violeta G.**

**Garcia, Uilyann C.**

**Manaig, Magdalena P.**

**Bahala, Renante G.**

**Marco, Mylene B.**

**America, Joana A.**

**Rausa, Rolly C.**

**Molina, Ronel D.**

**Principe, Jeverly Ann S.**

**Suerte, Jessica Marie R.**

**Sumague, Marie Antoniette V.**

**Zamora, Kristine Dominique M.**

**Lavapie, Neil Jerome P.**

**Itulid, Ana Ciaren H.**

**Alondra, Kaye Angela D.**

**Ando, Fhela P.**

**Bacud, Judy Ann G.**

**Basierto, Lemuel E.**

**Baurile, Ladylove May B.**

**Cenon, Grace Ann A.**

**Cornea, Hector Neil**

**Dimailig, Catherine Joy C.**

**Dug-A, Shallymar A.**

**Espiritu, Fatima G.**

**Gumbao, Princess Jane M.**

**Hasta, Marc Enrico O.**

**Jumalon, Nathaniel John U.**

**Lagrimas, Faye Margaret S.**

**Legaspi, Chadli Jed T.**

**Lolong, Ronald Ryan D.**

**Mabutas, Ezra Lyre L.**

**Martin, Marc C.**

**Milan, Nigeliann E.**

**Pariño, Renzell Ann M.**

**Pedraza, Alysya Marie D.**

**Principe, Jeverly**

**Quitanes, Arsenio Jr. M.**

**Razal, Reuben Andrew R.**

**Reyes, Clarissa B.**

**Sagayap, Charmaine**

**Soldevilla, Kevin Leonard D.**

**Tabanao, Temy**

**Trinidad, Janine Rose E.**

**Ubpon, Mohammad Faidz U.**

#### Institution Development Division

**Catameo, Anicia P.**

**Berroya, Marie Jeanne B.**

**Santos, Wilma I.**

**Roja, Lucila E.**

**Parungao, Nico Angelo C.**

**Elechosa, Sabrina Arra P.**

**De Leon, Paula Jane A.**

**Balbuena, Maria Belen A.**

**Abad, Angeline P.**

**Aguila, Dean Ryan C.**

**Arcibal, Rosan Sherell S.**

**Cambonga, John Marc R.**

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Reodica, Maria Teresa C.  
Sacro, Louie Vic N.  
Sornillo, Bianca Joyce T.  
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## Quality Policy

We are committed to provide research-based solutions and innovations in health, based on the balance scorecard set by the Council, within the highest standards of professionalism, within our core competency and available resources, in accordance to customer requirements, and in adherence to ethical standards, applicable regulatory and statutory requirements.

We commit to continually improve the effectiveness of our QMS to enhance customer satisfaction.

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