



Department of Science and Technology

BALIK SCIENTIST PROGRAM

(BSP)

BALIK SCIENTIST PROGRAM

- Established in 1975 to encourage overseas Filipino scientists, engineers, medical practitioners, technologists, and new doctorate degree graduates who are of Filipino descent, to return or reside in the Philippines, and to help accelerate the scientific, agro-industrial and economic development of the country
- Instituted to the Department of Science & Technology through the Executive Order No. 130 dated 25th of October 1993.

Types of Program

1. Short-Term Category

- a program utilizing the expertise of Filipino Scientists and Technologists with duration of thirty (30) to ninety (90) days.

2. Long-Term Category

- duration of at least two (2) years, up to three (3) years.

What are the Entitlements of BSP Awardees?

Type of Program	Entitlements
Short-term (30-90 days)	<ul style="list-style-type: none">- Daily Subsistence Allowance (DSA) of \$150 per day- Free round-trip international economy airfare
Long-term (2-3 years)	<ul style="list-style-type: none">-Free round trip international economy airfare for BSP awardee, spouse and two minor dependents-Reimbursement of excess baggage expenses up to 20kgs and 10kgs for 2 dependents-Duty-free importation of personal effects and professional instruments-No dollar importation of motor vehicle-Reimbursement of freight expenses not exceeding 2.5 tons volume weight-Exemption from payment of travel tax, visa, immigration and registration-Grant of non-immigrant visas (including the Awardee's dependents) by the Secretary of Justice-GIA for R&D project for approval of the DOST Secretary-Housing may be arranged through pre-determined host institutions

Number of BSP Awardees (1975 to present)

Y E A R	Number of Awardees with Completed Terms
CY 1975 – 2006	302
CY 2007 – Mar 2016	228 (206 Short-Term, 22 Long-Term)
T O T A L	530*

- ❖ Twenty-seven per cent (27%) or around 139 Balik Scientists have repatriated in the Philippines

Distribution of BSP Awardees by Countries

**North America,
177 (78%)
(Canada, USA)**

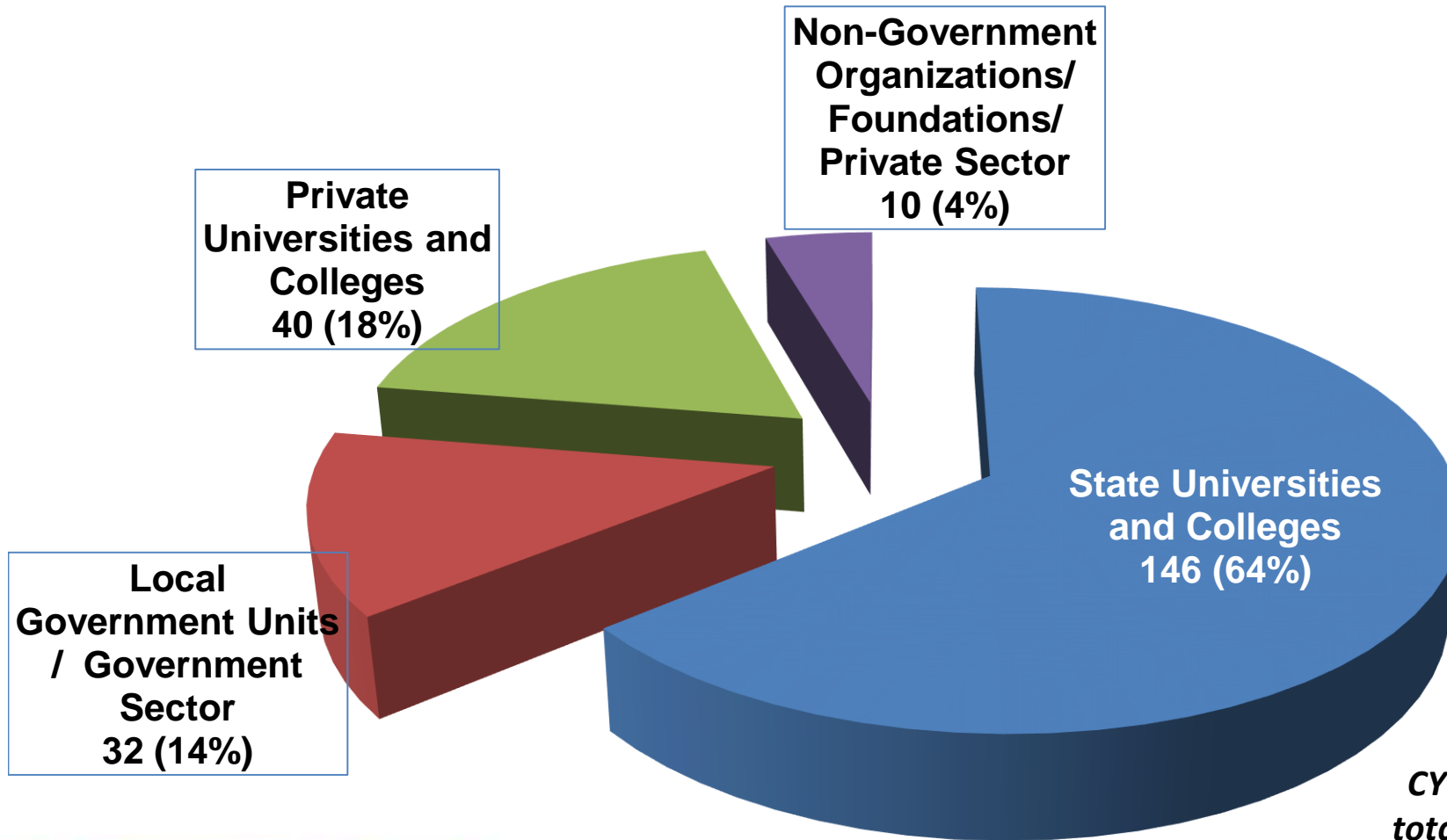
**Europe, 17
(7%)
(Sweden, Belgium,
Germany, Greece,
Austria, UK,
Switzerland,
The Netherlands)**

**Asia, 20 (9%)
(Japan, China, South
Korea, Thailand,
Singapore)**

**Australia,
14 (6%)**

***CY 2007-Mar 2016
total scientists: 228***

Distribution of BSP Awardees per Host Institution



*CY 2007-Mar 2016
total scientists: 228*

THE THREE SECTORAL COUNCILS OF THE DOST:

- Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD)
- Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD)
- Philippine Council for Health Research and Development (PCHRD).

BSP FOR THE HEALTH SECTOR

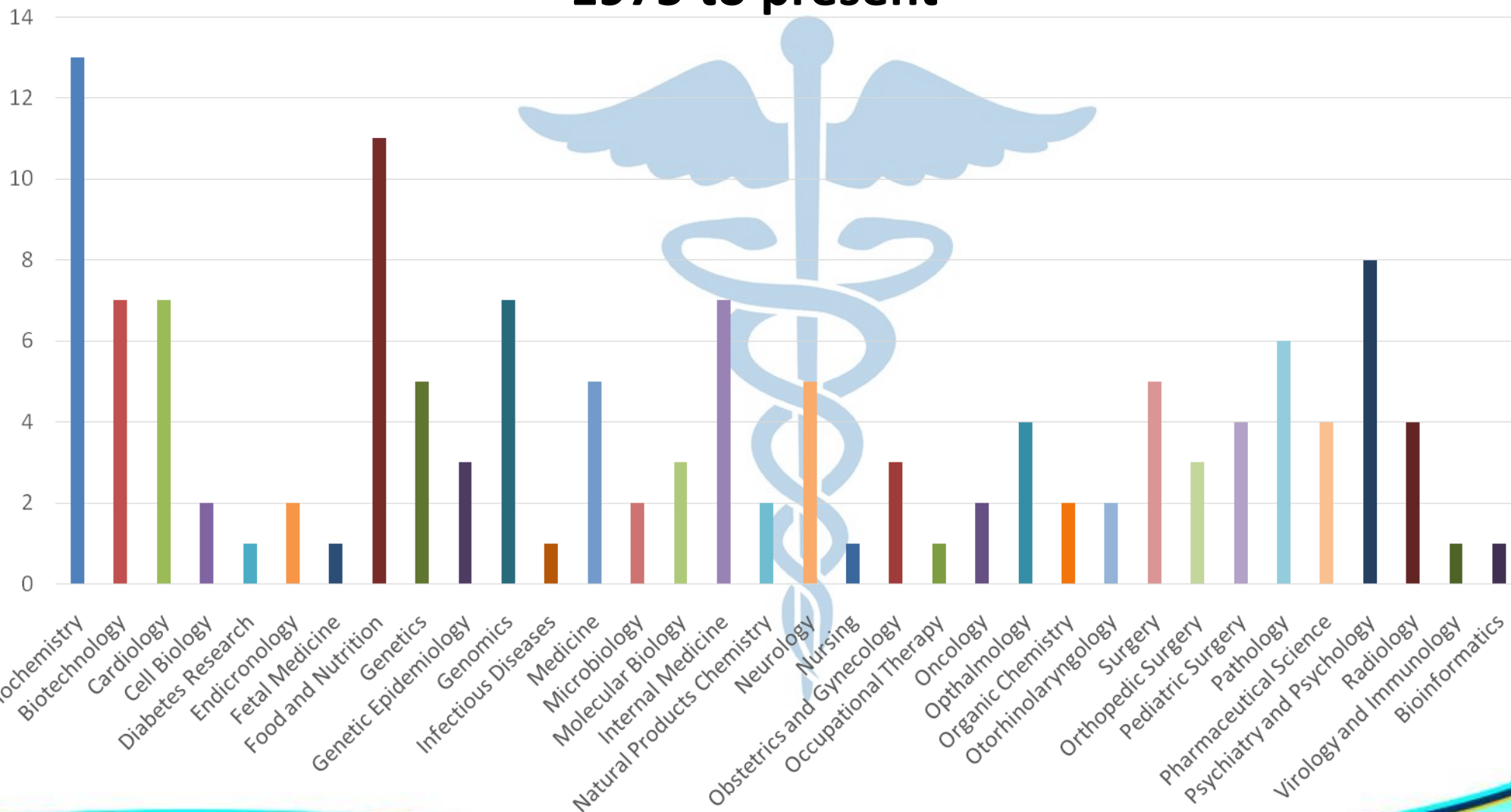


Number of BSP Awardees for the Health Sector (1975 to present)

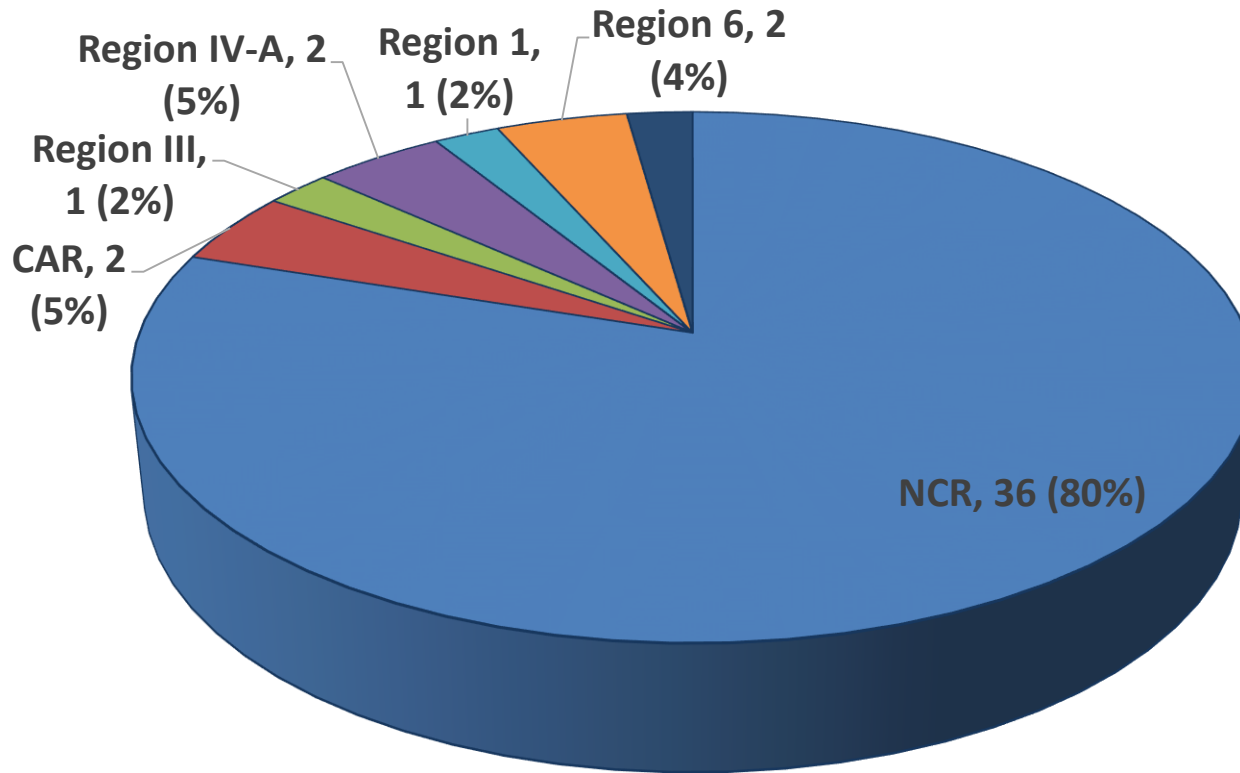
Y E A R	Number of Awardees
CY 1975 – 2006	90
CY 2007 – May 2016	45 (35 Short-Term, 10 Long-Term)
T O T A L	135

BSP Awardees per Field of Specialization (Health)

1975 to present

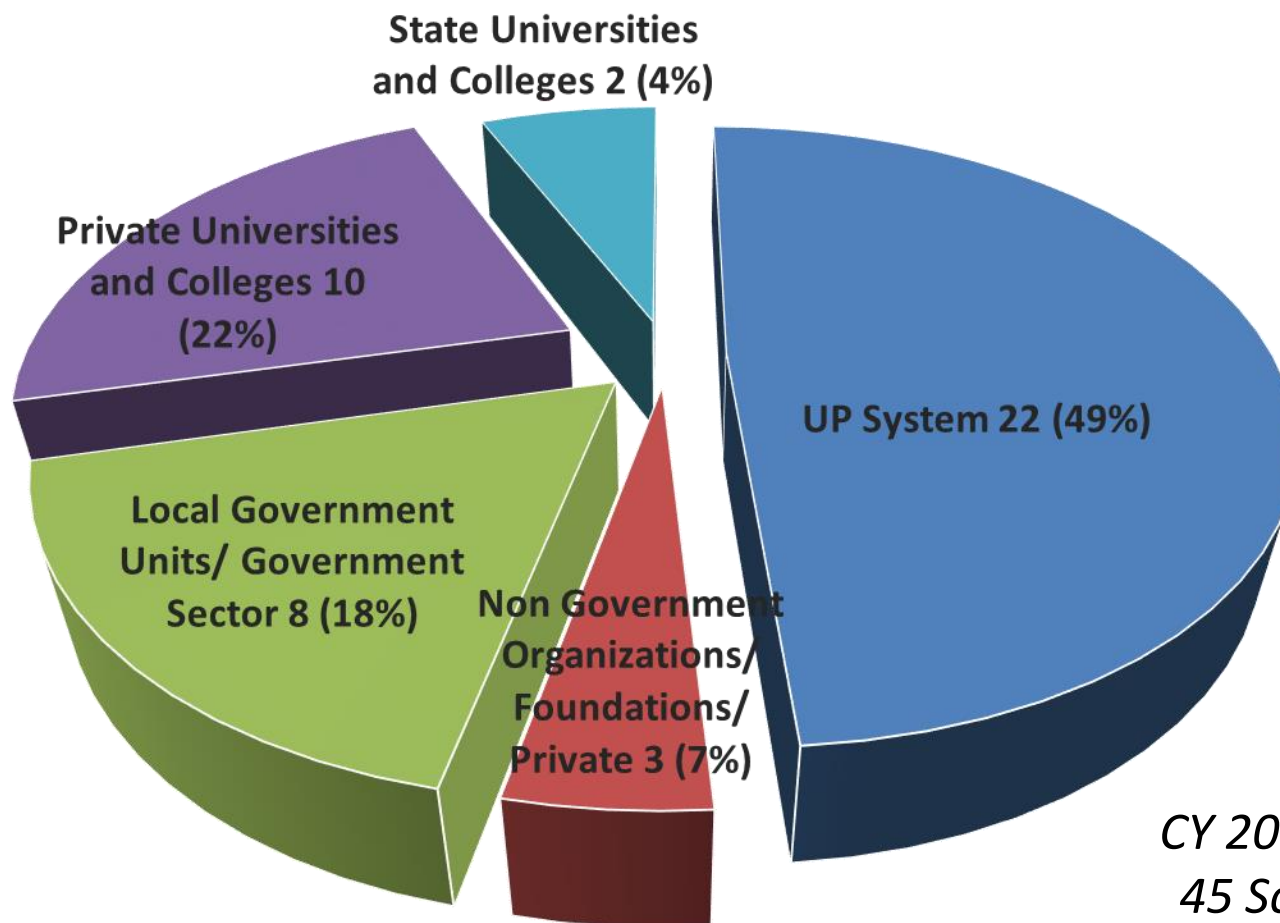


Distribution of BSP Awardees for the Health Sector per Region



*CY 2007 – May 2016
45 Scientists for the
Health Sector*

Distribution of BSP Awardees for the Health Sector per Host Institution

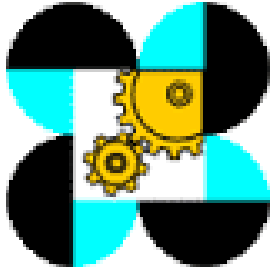


*CY 2007 – May 2016
45 Scientists for the
Health Sector*

State Universities and Colleges



Government Sector



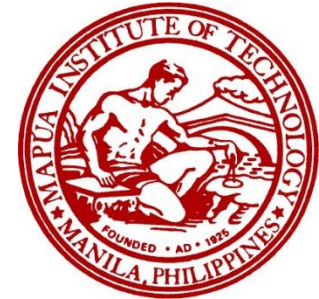
Republic of the Philippines
Department of Health
Kagawaran ng Kalusugan
ISO 9001:2008 CERTIFIED



Keeping the nation healthy through expertise and technology



Private Institutions



Non-Government Organizations (NGOs)

- Philippine Foundation for Lung Health Research and Development, Inc.
- Children for Breastfeeding Inc.

What are expected from BSP Awardees?

- Must have an R&D involvement in an existing or approved/pipeline project/program that addresses the DOST priority areas.
- Submit to DOST discovery, innovation, design, model or process relating to or arising from work on a research project funded by DOST while engaged as Balik Scientist Awardee and abide by the rules governing intellectual property rights as observed by DOST and the Host Institution.

What are expected from BSP Awardees?

- Carries out the enumerated activities contained in the approved TOR (Terms of Reference/work plan/agenda) and delivers the expected outputs.
- Recommends other activities/programs to enhance his/her engagement and other relevant undertakings to help achieve the objectives of the BSP.
- Submits Quarterly Progress Report, submits Terminal Report and conducts Exit Report Presentation.

What are the responsibilities of the Host Institution?

- Ensure the R&D involvement of the Balik Scientist as specified in the Terms of Reference or Workplan and to other activities that may require the Scientist's expertise.
- Monitor and evaluate the activities of the Balik Scientist Awardee and make proper recommendations to DOST-PCHRD as warranted.
- Provide suitable environment, adequate and available equipment and facilities to ensure a productive stay of the Balik Scientist Awardee.

What are the responsibilities of the Host Institution?

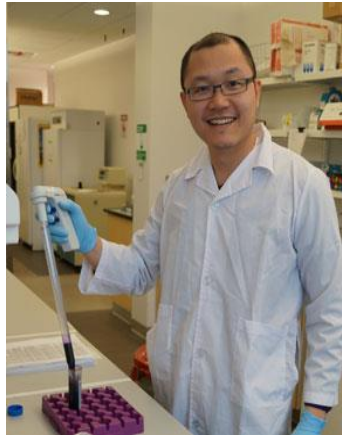
- Submit accomplished Assessment Survey **immediately** after the visit of the Balik Scientist is finished.
- Coordinate the Exit Report Presentation of the Balik Scientist. The main Host Institution shall be in charge of the Balik Scientist's Exit Report Presentation **at least a week before the end of the Balik Scientist's engagement.**

What are the application requirements?

- Accomplished Balik Scientist Application Form (BSP Form 1)
- Endorsement letter from the Host Institution, addressed to the respective Council Heads
- Terms of Reference (Form 2A for Short-term; Form 2B for Long-term)
- Medical Certificate
- Valid Professional Regulation Commission (PRC) License or PRC Clearance/Special Temporary Permit
- Copy of Diploma or Certificate of Academic Achievement
- Copy of the applicant's passport
- Most recent and detailed Curriculum Vitae

Balik Scientists and their Engagements/ Accomplishments

In the Field of Health



DR. MICHAEL VELARDE

PhD in Physiology and Biophysics

University of Arkansas for Medical Sciences, Little Rock AR

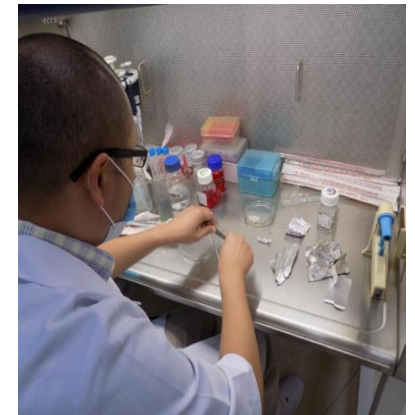
Area of Expertise: Aging and Age-related Diseases

BSP Award: Short-Term Program (February 25 – March 26, 2015)

Host Institution: Institute of Biology, University of the Philippines Diliman

Affiliation: Buck Institute for Research on Aging (Novato, CA)

- Helped the Institute of Biology, UPD develop its program to serve as a National Center of Excellence in Biology in the area of Biodiversity.
- Analysis of herbal extracts to determine the extracts' ability to inhibit inflammatory cytokine secretion in senescent cells.
- Reviewed manuscript involving the compounds and cellular senescence.
- Series of lectures on special topics about cellular senescence to faculty and students



Primary Cell Culture

In the Field of Health

DR. ROMULO DE CASTRO JR.

PhD in Human Biological Chemistry & Genetics

University of Texas Medical Branch

Area of Expertise: Bioinformatics, Neuroscience and Immunology

BSP Award: Short-Term Program (July 1 – September 28, 2015)

Host Institution: UP Manila

Affiliation: Technology Lead 3R Biosystems, San Diego, California



- His expertise was tapped in developing informatics tools for biochemical and other health-related applications.
- Assisted the researchers of UP Manila on the project, Sampung Halamang Gamot (10HG).



1st DOST Balik Scientist Program Research Symposium
COE Amphitheater, MSU-IIT
November 5-6, 2015

In the Field of Device Innovation Testing and Animal Laboratory Development

DR. ALFREDO ACOSTA

Doctor of Medicine, University of the Philippines, College of Medicine

Area of Expertise: Pediatric Surgery and Device Innovation Testing

BSP Award: Short-Term Program

Phase 1: November 25 – December 15, 2015

Phase 2: June 15 – August 22, 2016

Host Institution: UP-NIH

Affiliation: Phil-University of California, San Francisco (UCSF)
Collaboratory on Device Innovation, UCSF Pediatric Device Consortium



- Consulted by UP Manila for the development of the network of animal laboratory in UP Manila College of Medicine and National Institutes of Health, UP Los Baños College of Veterinary Medicine, and UP Diliman Veterinary Hospital.
- Consultant to the Philippine Biomedical Device Innovation Consortium
- Will be conducting information campaign in multimedia (video and radio interview) re: Device Innovation



Dr. Acosta (left), along with representatives from UP-NIH and the DOST BSP, talks with Ms. Grace Felicio of Unilab during one of the visits to local animal laboratories.

In the Field of Genetic Counseling

MS. MERCY Y. LAURINO, MS CGC



MS in Genetic Counseling, University of Colorado Health Sciences Center

Area of Expertise: Genetic Counseling

BSP Award: Short-Term Program

Phase 1: August 1 - 15, 2014

Phase 2: November 24 – December 5, 2014

Phase 3: August 27– September 20, 2015

Host Institution: University of the Philippines - Manila

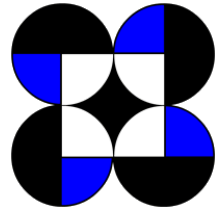
Affiliation: Seattle Cancer Care Alliance

- Collaborated with Dr. Carmencita Padilla in developing the MS Genetic Counseling program for the country.
- BSP Awardee in 2012, 2013 and 2014, Ms. Laurino conducted these subsequent visits to strengthen ongoing collaborations and assist the medical geneticists at the Institute of Human Genetics-National Institutes of Health in improving the current delivery of clinical medical genetics service in the country, and continuous review of the MSGC curriculum with other geneticists.
- Continuous supervision of genetic counselling students in their clinical rotations and review case reports. Also served as the adviser for the thesis proposal and final defence of MSGC students.



Our invitation to scientists abroad, to join in the country's quest for national growth and development through science, technology and innovation!

Balik Puso, Balik Pilipinas, Balik Scientist!



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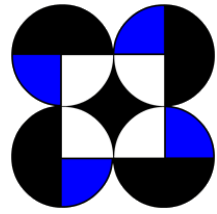
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Website: <http://bsp.dost.gov.ph>

email: pchrd.bspsecretariat@gmail.com



<https://www.facebook.com/balikscientistprogram>



Thank you!

