

Status of Health Research System in Luzon*



2008-2011

Presented by:

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Chair, CLHRDC Research Management Committee and
Executive Director, AUF Center for Planning, Research and Development



* excluding NCR

Mapping of RHRDCs in Luzon

Region 1 Health Research & Development Consortium

Cagayan Valley Health Research & Development Consortium

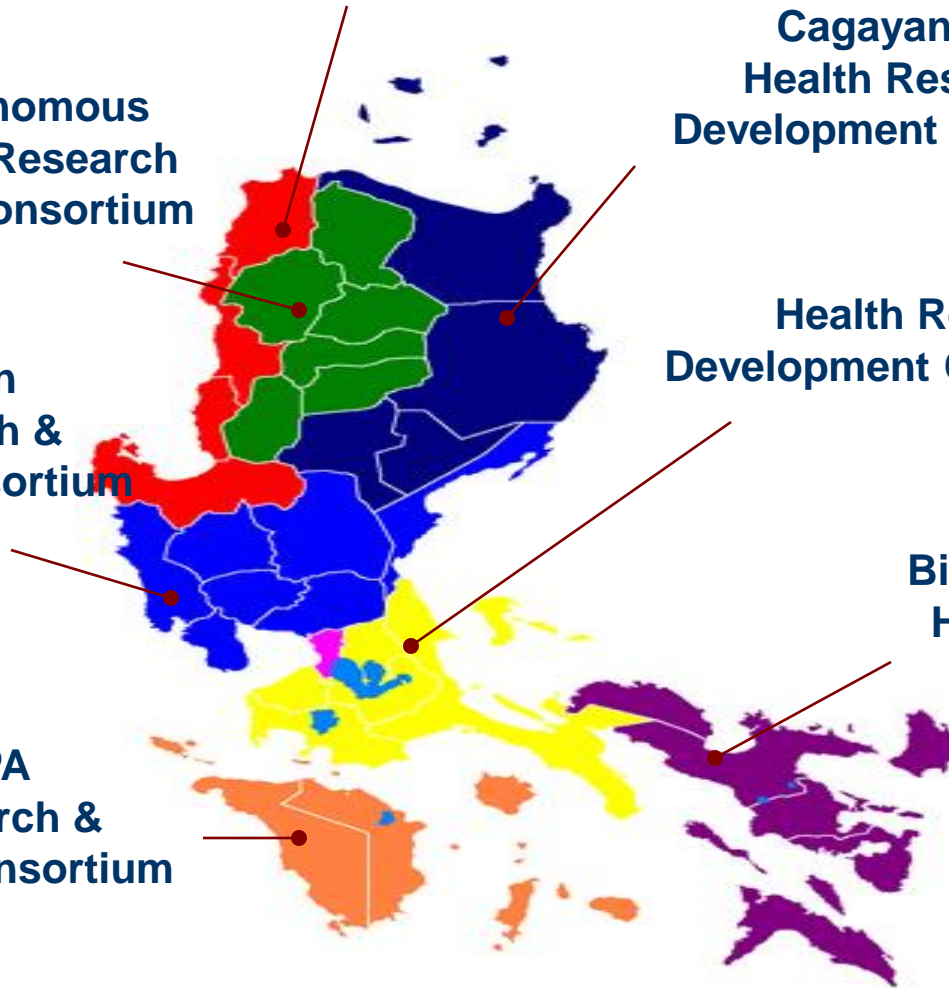
Cordillera Autonomous Region - Health Research & Development Consortium

Health Research & Development Consortium - IV

Central Luzon Health Research & Development Consortium

Bicol Consortium for Health Research & Development

MIMAROPA Health Research & Development Consortium

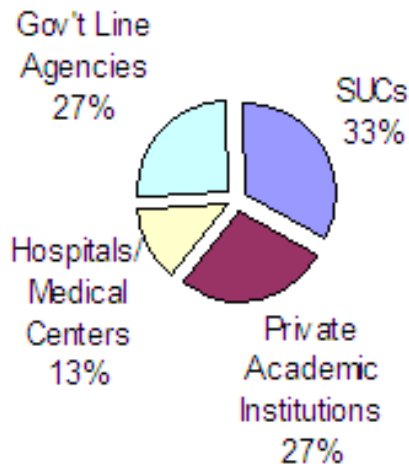


Profile of RHRDCs in Luzon

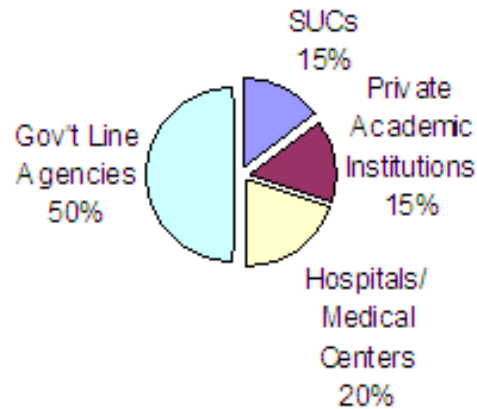
	Name of RHRDC	Year Started	No. of Member Agencies
CAR	Cordillera Regional Health Research and Development Consortium	2008	15
Region 1	Region 1 Health Research & Development Consortium	1989	20
Region 2	Cagayan Valley Health Research & Development Consortium	2006	18
Region 3	Central Luzon Health Research & Development	2008	17
Region 4A	Health Research & Development Consortium – IV	2008	8
MiMaRoPa	MiMaRoPa Health Research and Development Consortium	2010	14
Region 5	Bicol Consortium on Health Research & Development	2007	5

Composition of Luzon RHRDCs

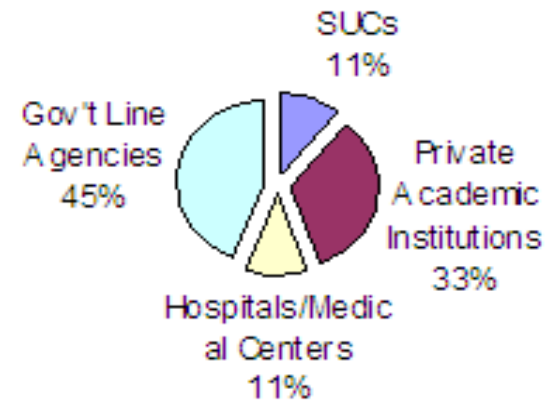
CAR



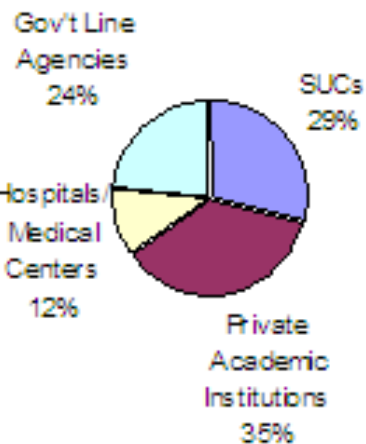
Reg 1



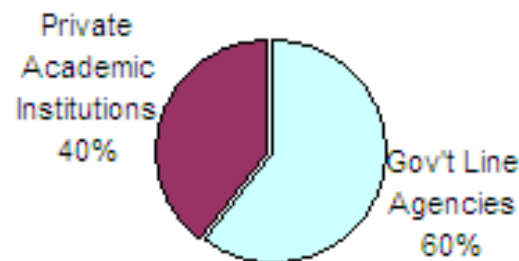
Reg 2



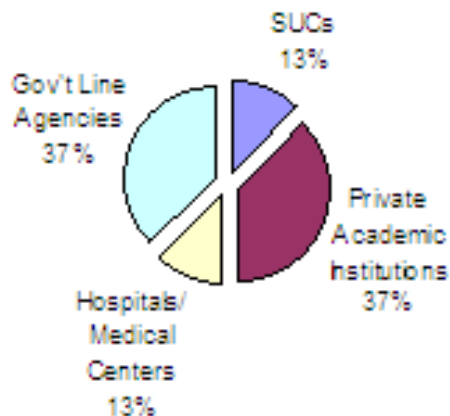
Reg 3



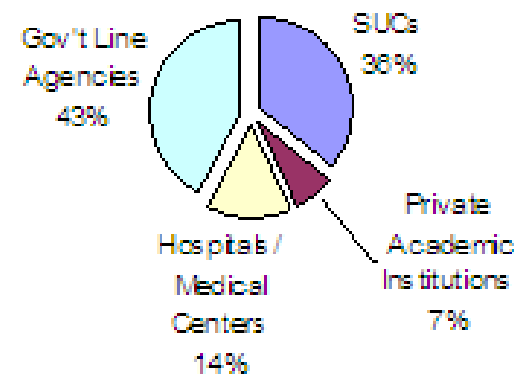
Reg 5



Reg 4-A



MiMaRoPa



R&D Activities

2008-2011





RRF Projects, 2008-2011

Total = 23

R1= 6

R2= 6

Project Title	Implementing Institution
1. The State of Health Research in Region 1	University of Northern Philippines
2. Impact of Health Workers Migration to DOH Retained Hospitals in Region 1: A Pilot Study	Mariano Marcos Hospital and Medical Center
3. The Anti-Inflammatory, Analgesic and Antipyretic Properties of Mahogany Leaves Extract	Virgen Milagrosa University Foundation
4. Mapping of Traditional Medicinal Plants in Pugo, La Union	DMMMSU-South La Union Campus
5. Level of Acceptability of Roles and Performance of Barangay Health Workers: Its Impact to the Delivery of Basic Health Services	University of Northern Philippines
6. Factors Associated with the Level of Knowledge, Attitude and Behavior on CVD Among Young Adults	Mariano Marcos State University- College of Health Sciences
7. The Anti-Rabies Campaign in Cagayan and Isabela: An Assessment	University of La Salette
8. Microbial Analysis on the Quality of Drinking Water Sources in Metro Santiago: Its Implication in the Preventive Management of Water-Borne Diseases	University of La Salette



RRF Projects, 2008-2011

Project Title	Implementing Institution
9. Improving Enrollment Practices of LGUs in the Sponsored Programs of PHIC in Region 2	St. Paul University Philippines
10. Assessment on the Implementation of Tuberculosis Program Among Children in Santiago City	University of La Salette
11. The Prevalence of Stress and Diabetes among Top-Level Managers in Metropolitan Santiago City	University of La Salette
12. The Public-Private Mixed Directly Observed Treatment, Short-Course Chemotherapy (PPMD) Strategy of the National Tuberculosis Control Program (NTP) in Region 2	Cagayan Colleges Tuguegarao
13. Patient's Knowledge on Tuberculosis and the Determinants of Treatment Compliance	University of Regina Carmeli
14. Patient and Health System Factors as Predictors to Delay in Tuberculosis Detection and Treatment in Region III	Holy Angel University
15. Mobile e-Health for Health Centers	Angeles University Foundation
16. Pharmacological Studies in Selected Medicinal Plants in Region III	Angeles University Foundation



R3= 4



RRF Projects, 2008-2011

Project Title	Implementing Institution
17. Acute Oral Toxicity of Pure Extract of <i>Smallanthus sonchifolius</i> in Rodents	De La Salle - Health Sciences Institute
18. Acute Oral Toxicity of Pure Extract of <i>Smallanthus sonchifolius</i> in Rodents Using Up- and-Down Method	De La Salle - Health Sciences Institute
19. Epidemiology of <i>Plasmodium falciparum</i> , <i>P. vivax</i> , and zoonotic <i>P. knowlesi</i> in Southern Mindanao, the Philippines: Geographical distribution, mutations in genes that confer drug resistance, and factors that affect emergence and transmission in the population (UPLB)	UP Loa Banos
20. The Relationship of Climate Change and Geographical Features to the Occurrence of Dengue and Malaria in Region IV	De La Salle - Health Sciences Institute and De La Salle Dasmaringas
21. Participatory Assessment of Vulnerability to Climate Change and Disaster Preparedness of Communities in Ternate, Cavite, Luzon, Philippines	De La Salle Dasmaringas
22. Antimicrobial and Antifungal Properties of Yacon (<i>Smallanthus sonchifolius</i>) (DLSHSI)	De La Salle - Health Sciences Institute
23. The Effects of Mind-Body Interventions in Alleviating Postpartum Depression Syndrome (DLSHSI)	De La Salle - Health Sciences Institute

R IVa= 7





Institutional Ethics Review Boards per Region*

Region	Name of IERB
1	Mariano Marcos Memorial Hospital and Medical Center Region 1 Medical Center
2	Cagayan Valley Health Research and Development Consortium Cagayan Valley Medical Center
4A	DLSU-Health Sciences Institute Independent Ethics Committee Lipa Medix Medical Center
MiMaRoPa	Ospital ng Palawan Unciano Medical Center
5	Ago Medical and Education Center Aquinas University of Legazpi Bicol Medical Center Bicol Regional Training and Teaching Hospital Center for Health and Development-Bicol

*PHREB database



Capacity Building Activities

2008-2011



Capacity Building Activities, 2008-2011

Activity	Venue and Date
Seminar Workshop on Research Methods for Herbal Medicine Research	Casa Angela, Tuguegarao City April 22-25, 2008
Training on Basic Research Methods in Region 5	AMEC-BCCM, Legaspi City November 4-5, 2008
Training on Basic Research Methodology: Towards Developing and Writing Research Proposals	CHD-CAR, Baguio City November 25-27, 2008
CLHRDC Training Needs Assessment Workshop and Lecture Workshop	Angeles University Foundation March 9, 2009
Working with Literature and Developing Research Frameworks	CHD-CAR, Baguio City March 24, 2009
Institutional Review Board and Ethics Training	Angeles University Foundation May 27, 2009
Training Seminar on Intellectual Property Rights	San Juan, La Union June 29-30, 2009
Seminar-Workshop on Writing Research Proposals	Angeles University Foundation July 8-9, 2009
Research Methods Training workshop	De La Salle-Health Sciences Institute September 10-12, 2009
Writeshop of Research Proposals	St. Paul University, Tuguegarao City September 11, 2009



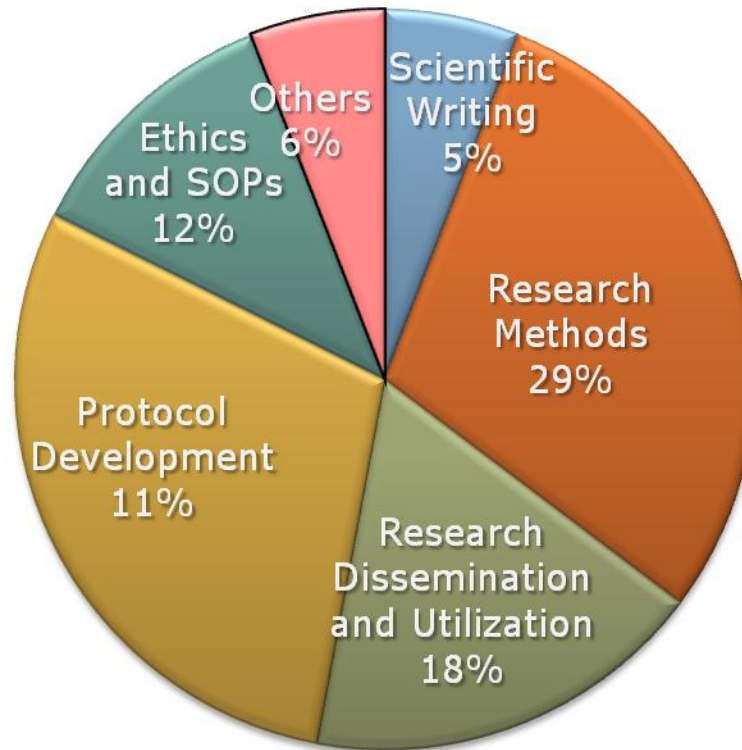


Capacity Building Activities, 2008-2011

Activity	Venue and Date
Writershop on Health Research Proposals	Angeles University Foudation September 22-24, 2009
Writershop on on Protocol Development	St. Paul University, Tuguegarao City November 5-6, 2009
Research Proposal Writershop	De La Salle Lipa, Batangas November 10, 2009
Seminar Workshop on Ethics in Health Research	MMM&MC, Ilocos Norte November 23-25, 2009
Training on HERDIN Neon	DOST Regional Office No. 3 February 15-17, 2010
Training and Workshop on Research Methods	Bataan Peninsula State University June 16-17, 2010
Training on Statistics and Data Analysis	DOH-CAR, Baguio City January 27-28, 2011
Training on Writing for Publication	Sagada, Mountain Province May 7-8, 2011
Training on Qualitative Data Analysis	UP Baguio May 23-25, 2011



Capacity Building



Advanced Laboratories/Facilities

Type of Laboratory/Facility	Institution/Agency
Parasitology Lab, Chemistry Lab, Microbiology Lab, Radiologic Technology Lab	Medical Colleges of Northern Philippines
Sputum Culture Lab	DOH-CHD Cagayan Valley
Medical Technology Lab	University of La Salette
Biochemical Assessment Lab, Biochemical, Microbiological, Bioassay Lab Screening Test for Medicinal Plants	Cagayan Valley Herbal Processing Plant
Chemical and Microbiological Lab	DOST Regional Office No. 2
Food Testing Lab	Bulacan State University
Regional Center for Phytochemical testing -Microbial Analysis and other Bioassay Testing	Tarlac state University
DNA Lab, Pharmacy Lab Adv. Biochem/Natural Products chemistry for purity of compounds and chemicals; Accredited Animal House;	Angeles University Foundation
Microbiology/ parasitology Lab, Chemistry Lab	Holy Angel University
Chemistry Lab, Biology Lab, Physics Lab, Anatomy and Physiology Lab, Nursing Arts Lab	University of the Assumption
Chemistry Lab	Systems Plus College Foundation



Research Information Dissemination/ Utilization Activities

2009-2010





Research Information and Communication Utilization Activities

CVHRDC Health Research Forum	St. Mary's University, Bayombong Nueva Vizcaya April 14, 2010
Health Research Forum	Santiago, Tuguegarao City March 7, 2011
Health Research Forum and Poster Exhibit	Holy Angel University April 13, 2011
Maintenance of RHRDC Website/ Database	Cagayan Valley Health Research and Development Consortium



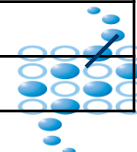


R&D Agenda



Research Agenda, 2012-2014

Broad R&D Area	CAR	I	II	III	IV-A	IV-B	V
Health Service Delivery	/	/	/	/	/	/	
Health Financing	/	/					
Drug Discovery and Development				/	/	/	
Health promotion and disease prevention							
Maternal and Child Health	/	/					
Health Governance		/					
Traditional/Herbal Medicine	/		/				/
Community Health		/					
Hospital Equipment							
Infectious Diseases				/	/	/	
Environment and Climate Change		/					
Lifestyle related diseases	/	/	/				
ICT in Health			/				
Occupational and Environmental Health Risks				/	/	/	
Diagnostics							
Genomic/Molecular Technology	/			/	/	/	
Functional Food	/	/					
Health Research Capability							





Research & Development in the Philippines : Where are we?

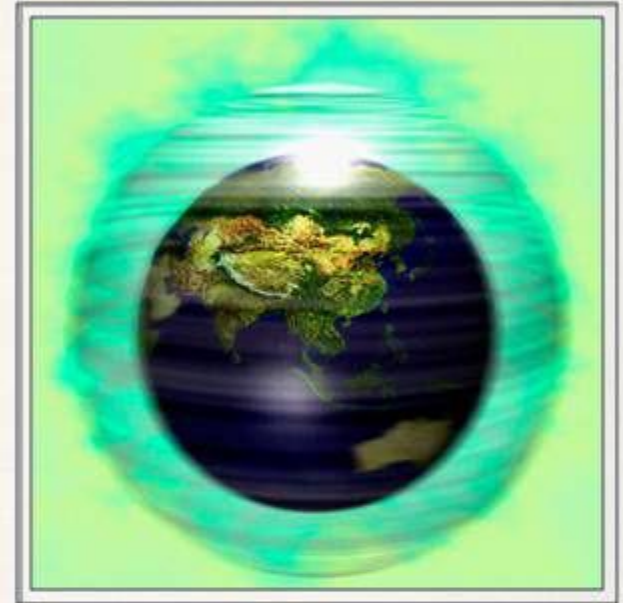


Benchmarking Research Performance of the Philippines

Workshop on Research
Performance Evaluation and
Support

Professor Peter Haddawy
Vice President for Academic Affairs

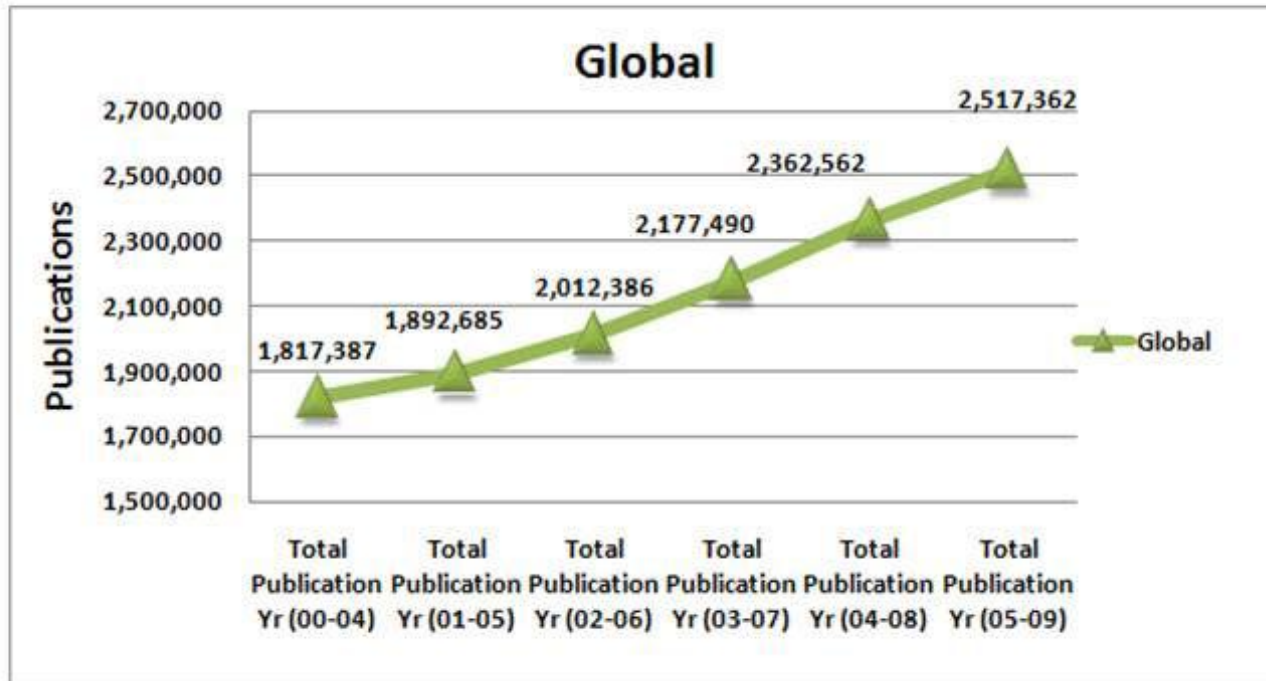
haddawy@ait.asia
Asian Institute of Technology



January 2010

Medicine

Global Trend

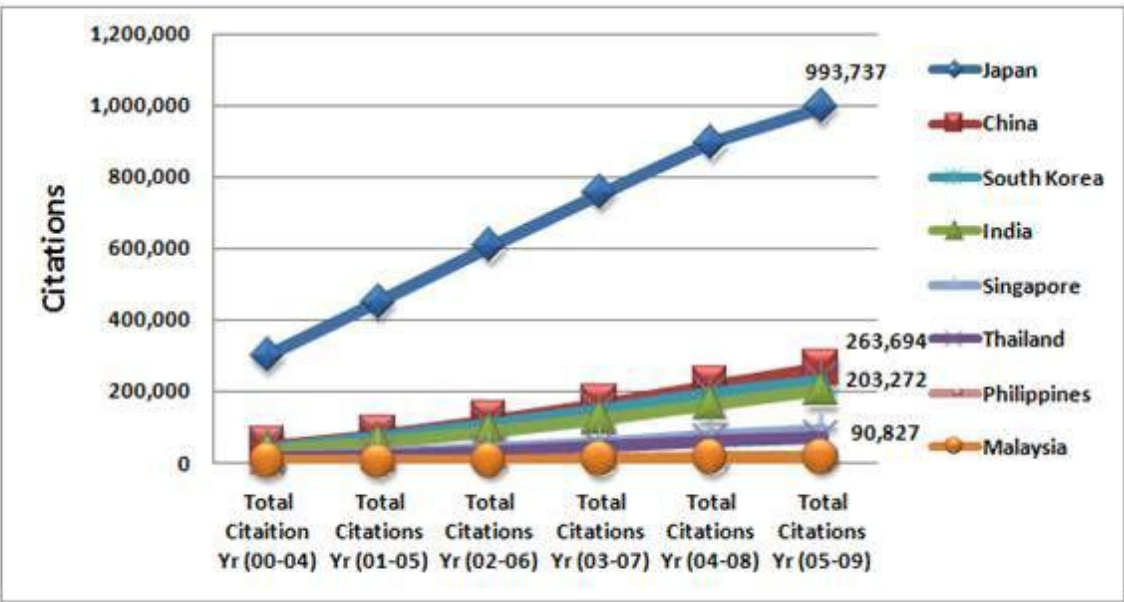
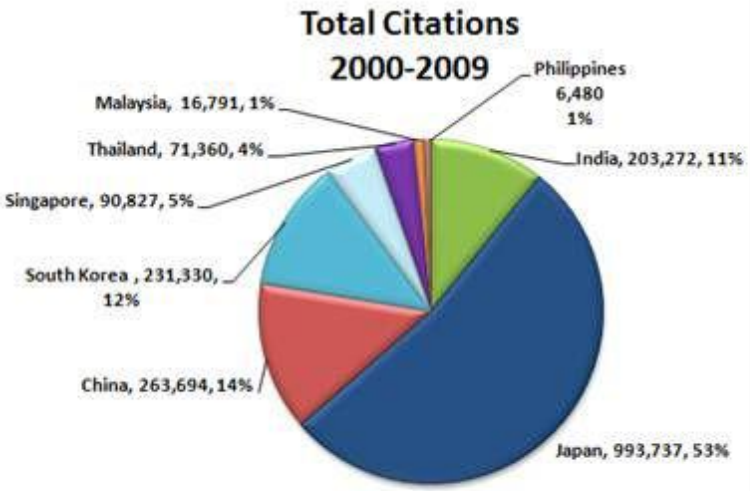
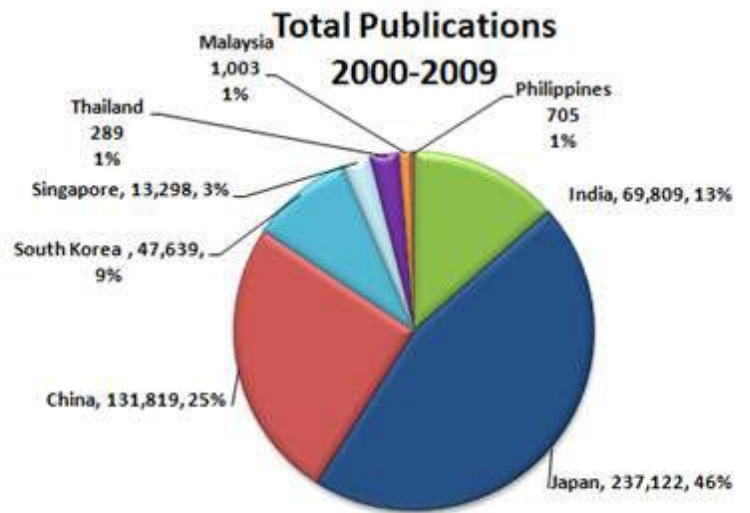
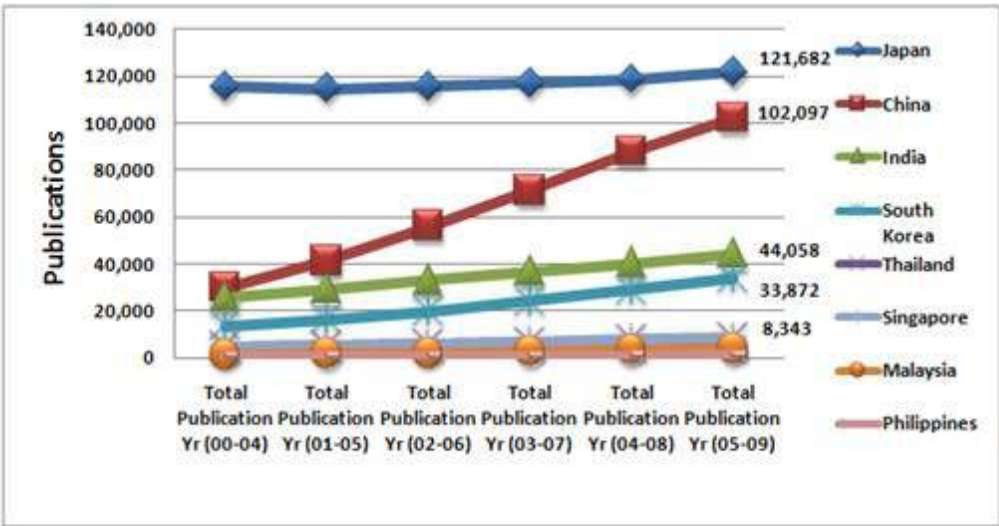


39% Increase in Publications

Data source: Scopus

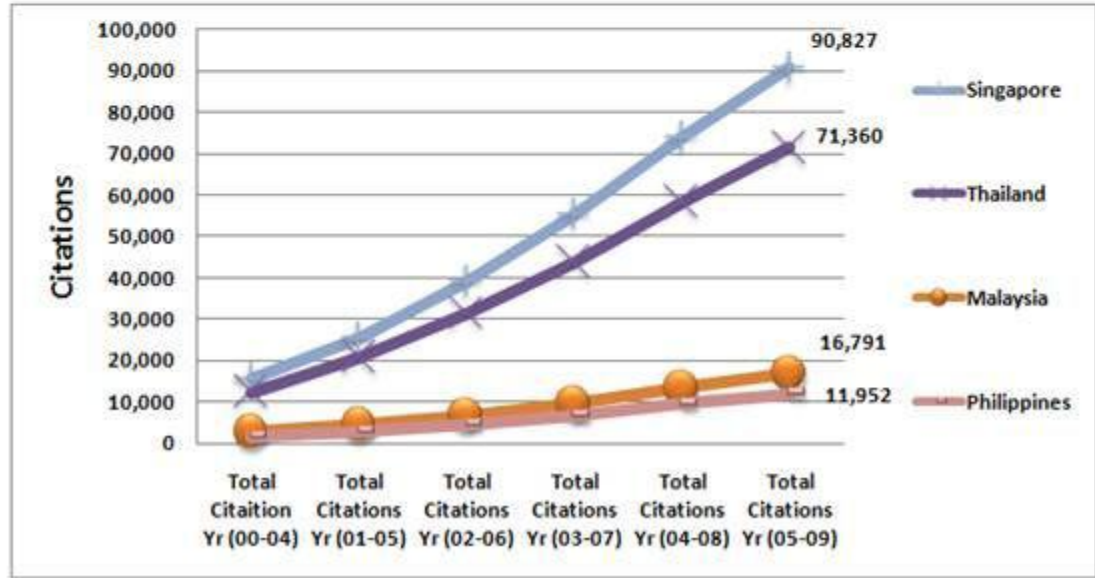
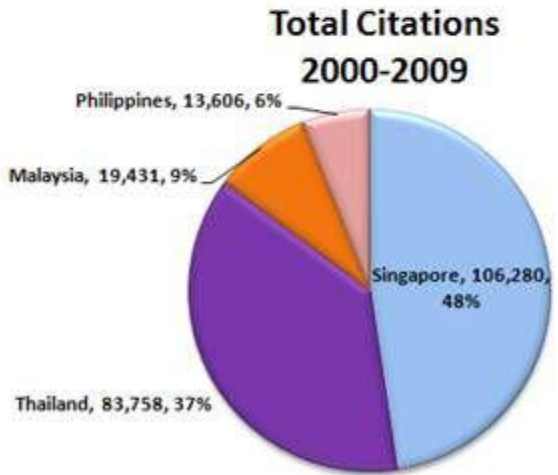
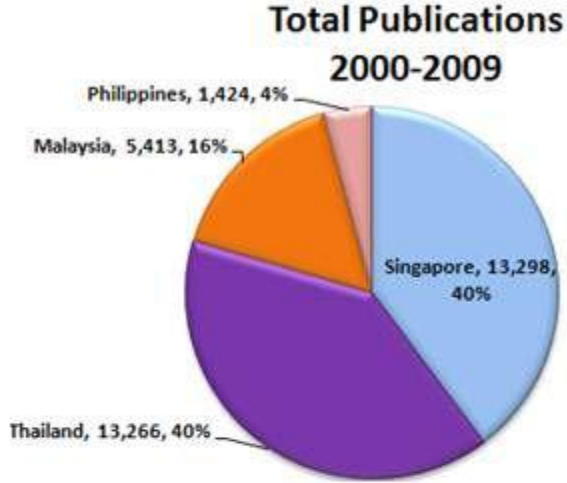
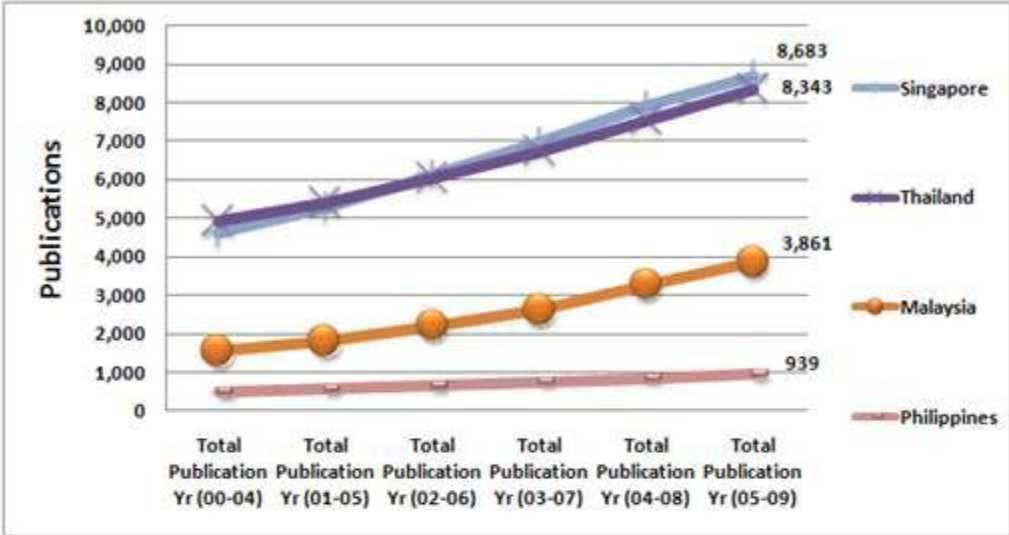
Medicine

China, Japan, South Korea, India, Singapore, Malaysia, Thailand and Philippines



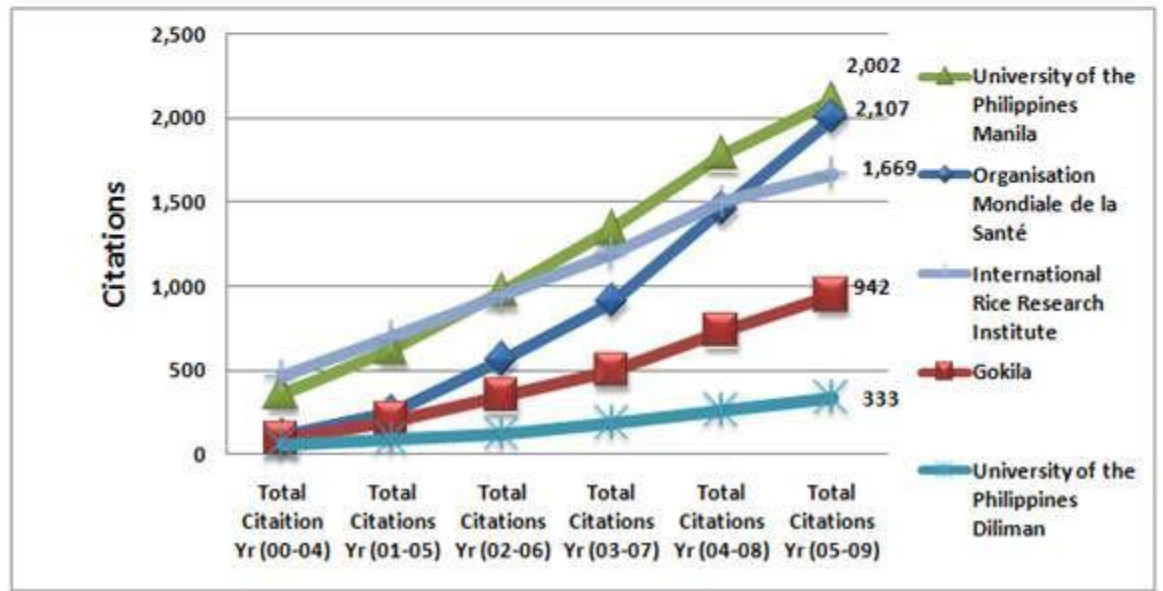
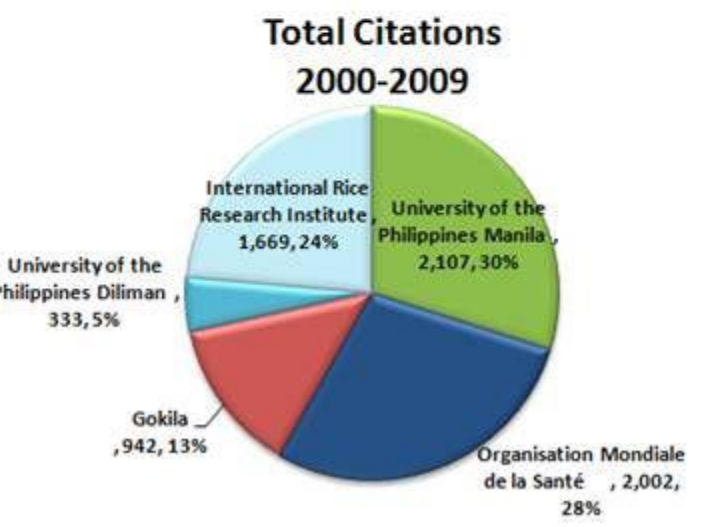
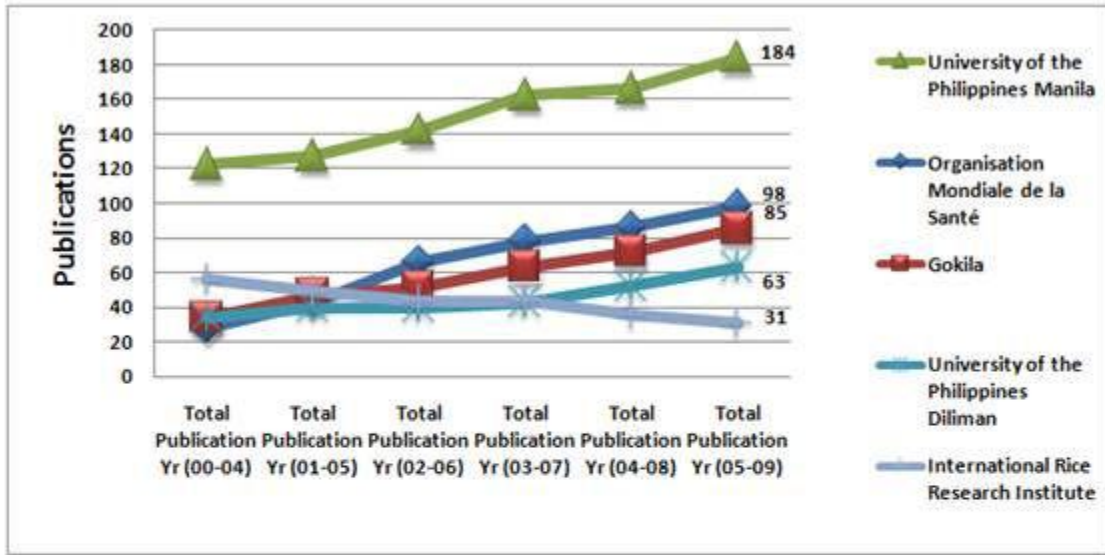
Medicine

Singapore, Malaysia, Thailand and Philippines



Medicine

Top Universities in Philippines





STATE OF RESEARCH IN CENTRAL LUZON 2006-2011





Environmental Scan : Central Luzon

Number of schools under the zone
(HEIs with graduate programs)

41

(Data sample size = 32 HEIs)

**Graduate programs with the highest
enrolment & graduates**

- 1. Education**
- 2. Business** (mostly master's degree)
- 3. Agriculture**





Faculty Profile for Region 3 (32 out of the 41 HEIs)

BS/AB	2088	42.1%
MS/MA/ M_	2255	45.5%
PhD./DSc	615	12.4%





Faculty Profile 1

HEIs with the highest number of PhD

	#	(% of the zone)
CLSU	111	18 %
TSU	86	14 %
BSU	59	10 %
	subtotal	42 %

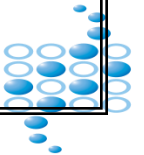




Faculty Profile 2

HEIs with the highest number of master's degree holders

	#	(% of the zone)
HAU	268	12%
BSU	239	11%
AUF	237	11%
	Subtotal	33%



**Number of researches published in ISI journals
(across disciplines and across institution)**

Disciplines	2006	2007	2008	2009	2010	2011	total
Medicinal Plants		1 (AUF)		1 (PAC)	1 (CLSU)		3
Parasitology			3 (CLSU)	1 (CLSU)		2 (CLSU)	6
Ecology					2 (CLSU)		2
Animal Science	1 (CLSU)	3 (CLSU)	2 (AUF) 3 (CLSU)	1 (AUF) 2 (CLSU)	1 (CLSU)	1 (AUF)	14
Environmental Research		3 (CLSU)	1 (CLSU)				4
Agri(Aqua)culture	4 (CLSU)	3 (CLSU)	2 (CLSU)				9
Health Sciences		1 (CLSU)		1 (AUF)	1 (AUF)		3
Physical Sciences						1 (BSU)	1
Total	5	11	11	6	5	4	42

5-year total

Central Luzon State University = 31

Angeles University Foundation = 7

Pampanga Agricultural College = 1

Bulacan State University = 1





ISI Publication / year / PhD

CLSU	:	6.6 / year / 111 PhD	=	0.059
AUF	:	1.4 / year / 34 PhD	=	0.041
PAC	:	0.2 / year / 29 PhD	=	0.007
BSU	:	0.2 / year / 59 PhD	=	0.003

Central Luzon	:	8.4 / year / 615 PhD	=	0.014
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Quality of publication produced across HEIs (citation counts mainly from SCOPUS)

Institution	Year						Total
	2006	2007	2008	2009	2010	2011	
CLSU	2	9	31	33	52	26	153
AUF			5	4	4		13
							166





WHERE DID WE GO WRONG?

“The Philippines, however, has yet to accept the established measures of research performance. Most of our researchers are still engaged in the production of gray literature. This is the main cause of our R&D problems. Symptoms are seen at all levels of our R&D endeavor, including graduate training, writing books and manuals, giving research grants and awards, decision making, disseminating scientific information, and implementing development programs...”



**Absent or weak research culture in the academe
(especially directed to the graduate programs)**

**Research-directed
curricula; processes;
outputs**

**graduate school policies should
lead towards attainment of
international norms of research
performance**

**Strengthening
mentoring /
mentor re-tooling**

**Formation of consortia and its
various forms of networking or
collaborative work**


**Management support
towards research**

**faculty development programs;
research support, logistics, and
incentives; policies**


**Individual self-
assessment**

**determination, perseverance,
and willingness to learn**





The proper outcome/output of research in an academic setting:

- a. publication (ISI-indexed / Scopus-listed journals)*
 - b. patent (also “publication” and a “legal document” with direct financial gain from the use of IPR)*
 - c. research-to-policy outcomes (still publication; more within the realm of “extension work”)*
- 



Restructuring and Retooling Efforts in Response to PNHR-SOME Assessment*

- ❖ Review of RUHRA and refocusing of research efforts on top priority areas (Regions CAR, 1, 2 3)
- ❖ Organizational adjustments to ensure efficient manning of day to day activities (Regions CAR, 2, 3)
- ❖ Establishment of internal monitoring and activity tracking system
- ❖ Increased commitment from heads of agencies (Region 4B)
- ❖ Expansion of membership and reorganization (Regions 4A, 4B and 5)
- ❖ Preparation of strategic plans





Next Steps

- ❖ Continue laying out of strategic directions upon which operational plans will be based
- ❖ Establish priority research programs and regional anchors/lead institutions
- ❖ Actively engage the more skilled and experienced researchers in the regions to focus research efforts on bigger-scale projects with potential to create greater health impacts → *e.g., several regional institutions (DLSU-HSI, AUF, SPU, MMSU) are being eyed to become potential partners under PCHRD-DOST's Drug Discovery and Development program*
- ❖ Encourage other institutions to intensify R&D efforts





Next Steps

- ❖ Increase multi-institution involvement and resource sharing efforts
- ❖ Balance R&D foci to cover social sciences, operational and biomedical research concerns
- ❖ Identify health R&D experts and mentors pool
- ❖ Institutionalize regular reporting of health R&D projects/resources/activities by member-institutions
- ❖ Institutionalize adoption of health R&D database
- ❖ Expand membership to include other institutions with health R&D activities





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Thank You!

