

EMERGING INTERDISCIPLINARY RESEARCH (EIDR) PROGRAM

ONGOING AND COMPLETED IN 2017

(as of 30 December 2017)

KRA: TRANSPARENT, ACCOUNTABLE AND PARTICIPATORY GOVERNANCE

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
Towards good water governance for development: A multi-case analysis	Rola, Agnes	UPLB	CPAf	Policy makers, LGUs, national agencies, academe, NGOs, general public	EIDR (reprogrammed funds)	4 years	2012	2016	Ongoing- extended 8/30/2017	18,454,365.60	Pintor LL, Dizon JT, Rola AC, Quimbo MT and Dinh Ha Q. 2013. Allocation and usage of water for irrigation water governance in Sta. Cruz River watershed, Laguna, Philippines. International Journal of Ecology and Conservation 7, 70-87.	Assisted the river councils in Benguet and Laguna in the preparation of their water management plans
											Hall R, Lizada J, Dayo MH, Abansi C, David Mand Rola A. 2015. To the last drop: The political economy of Philippine water policy. Water Policy 17, 946-962. Doi: 10.2166/wp.2015.150.	Institutionalization of the Balili River System Revitalization Coalition (BRSRC)
											Rola AC, Pulhin JM, Tabios GQIII, Lizada JC and Dayo MHF. 2015. Challenges of water governance in the Philippines. Philippine Journal of Science 144, 197-208.	Proposed the revitalization of the Tigum-Aganan Watershed Management Board (TAWMB)
											Rola AC, Abansi CL, Arcala-Hall R, Lizada JC, Sison IML and Araral EK Jr. 2015. Drivers of water governance reforms in the Philippines. International Journal of Water Resources Development 32, 135-152. Doi: 10.1080/07900627.2015.1060196.	Sta. Cruz watershed stakeholders to prepare an investment plan on solid waste management
											Rola AC, Abansi CL, Arcala-Hall R and Lizada JC. 2016. Characterizing local water governance structure in the Philippines: Results of the water managers' 2013 survey. Water International 41, 231-250. Doi: 10.1080/02508060.2015.1113078.	Presentation of the project findings to Congress
											Abansi CL, Doble MCC, Cariño JK and Rola AC. 2016. Beyond prices: The cultural economy of water in the Cordillera highlands of Northern Luzon, Philippines. Asia Pacific Viewpoint 57, 280-293. Doi: 10.1111/apv.12126.	Mentoring of 3 PhD students
Computer-aided discovery of compounds for the treatment of tuberculosis in the Philippines	Billones, Junie	UPM	CAS	General public, medical/health practitioners, researchers	EIDR (reprogrammed funds)	4 years	2012	2016	Ongoing-extended 8/31/2017 Requested to return unexpended funds	38,221,750.00	Billones JB, Carrillo MCO, Organo VG, Macalino SJY, Emnacen IA and Sy BA. 2013. Virtual screening against <i>Mycobacterium tuberculosis</i> Lipoate Protein Ligase B (MtbLipB) and <i>In Silico</i> ADMET Evaluation of Top Hits. Oriental Journal of Chemistry 29, 1457-1468.	Set up of synthesis laboratory in UP Manila
											Billones JB and Valle AMF. 2014. Structure-based design of inhibitors against maltosyltransferase GlgE. Oriental Journal of Chemistry 30, 1137-1145.	Set up of computational facilities in UP Manila
											Clavio NAB and Billones JB. 2014. Virtual screening against <i>Mycobacterium tuberculosis</i> isocitrate lyase and <i>in silico</i> ADME-Tox evaluation of top hits. Journal of Chemical and Pharmaceutical Research 6, 727-738.	Establishment of a computer-aided drug discovery and development research group in UP Manila
											Billones J, Carrillo MC, Organo V, Macalino SJ, Emnacen I and Sy JB. 2014. Virtual screening against <i>M. tuberculosis</i> 7,8-Diaminopelargonic Acid Synthase (MtbBioA) and <i>In Silico</i> Toxicity Evaluation of Top Hits. Current Enzyme Inhibition 10, 105-112.	Research collaborations with Sophia University, Japan; Chulalongkorn University, Thailand; National University of Singapore, Singapore; Rutgers University, USA

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
											<p>Sampaco A-RB III and Billones JB. 2015. Virtual screening of natural products, molecular docking and dynamics simulations on <i>M. tuberculosis</i> S-adenosyl-L-homocysteine Hydrolase. <i>Oriental Journal of Chemistry</i> 31, 1859-1865.</p> <p>Vios VSL and Billones JB. 2015. Cluster and multi-linear regression analyses guided identification of molecular descriptors that account for cyclooxygenase activities. <i>Journal of Chemical and Pharmaceutical Research</i> 7, 735-742.</p> <p>Billones JB, Carrillo MCO, Organo VG, Macalino SJY, Sy JBA, Emnacen IA, Clavio NAB and Concepcion GP 2016. Towards antituberculosis drugs: in silico screening of synthetic compounds against <i>Mycobacterium tuberculosis</i> L,D-transpeptidase 2. <i>Drug Design, Development and Therapy</i> 10, 1147-1157.</p>	Mentoring of 1 MS and 26 BS students
Palaeoenvironmental and biodiversity study of Mindoro Island: An archaeological science initiative	Mijares, Armand Salvador	UPD	ASP	Researchers, academe, indigenous peoples	EIDR (reprogrammed funds)	4 years	2012	2016	Ongoing-extended 2/28/2018	24,243,944.00	<p>Porr M, Mijares ASB, Pawlik A, Piper P and Padilla SJr. 2012. North of the Southern Arc- The Mindoro Archaeological Research Program: A summary of the 2010 and 2011 fieldwork activities. <i>Australian Archaeology</i> 75, 110-117.</p> <p>Pawlik AF, Piper PJ, Faylona MGPG, Padilla SGJr, Carlos J, Mijares ASB, Vallejo B Jr, Reyes M, Amano N, Ingicco T and Porr T. 2014. Adaptation and foraging from the Terminal Pleistocene to the Early Holocene: Excavation at Bubog on Ilin Island, Philippines. <i>Journal of Field Archaeology</i> 39, 230-247.</p> <p>Pawlik A, Piper P and Mijares ASB. 2014. Modern Humans in the Philippines: Colonization, Subsistence and New Insights into Behavioural Complexity. In M. Porr and R. Dennell (eds), <i>Southern Asia, Australia and the Search for Human Origins</i>, Cambridge Press, 135-147.</p> <p>Mijares ASB. 2015. Human Emergence and Adaptation to an Island Environment in the Philippine Paleolithic. In Kaifu et al. (eds), <i>Emergence and Diversity of Modern Human Behavior in Paleolithic Asia</i>. Texas A&M University Press, 171-181.</p> <p>Neri LAM, Pawlik AF, Reepmeyer C, Mijares ASB and Paz VJ. 2015. Mobility of early islanders in the Philippines during the Terminal Pleistocene/Early Holocene boundary: pXRF-analysis of obsidian artefacts. <i>Journal of Archaeological Science</i> 61, 149-157.</p> <p>Pawlik AF. 2015. Detecting Traits of Modern Behavior through Microwear Analysis. In Kaifu et al. (eds), <i>Emergence and Diversity of Modern Human Behavior in Paleolithic Asia</i>. Texas A&M University Press, 183-198.</p> <p>Pawlik A. 2015. Vorgeschichte der Philippinen: Kulturelles Hinterland oder einfach nur paradiesisch? [Prehistory of the Philippines: Cultural backyard or simply paradisaical?]. In A. Reinecke and M. Tjoa-Bonatz (eds.), <i>Im Schatten von Angkor: Archäologie und Geschichte Südostasiens</i>, Mainz: Philipp von Zabern, Germany, 21-29. ISBN: 9783805349222.</p>	<p>Documentary film titled "Developing Archaeological Science: The Aklan Survey" in collaboration with Film Institute</p> <p>Mentoring of 2 MA and 2 PhD students</p>

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
											<p>Pawlik A. 2015. Frühe Seefahrer: Die Eroberung der Inselwelt jenseits des Sundalandes [Early seafarers: the conquest of the island world beyond Sundaland]. In A. Reinecke and M. Tjoa-Bonatz (eds.), Im Schatten von Angkor: Archäologie und Geschichte Südasiens, Mainz: Philipp von Zabern, Germany, p. 30. ISBN: 9783805349222.</p> <p>Pawlik A, Piper PJ, Wood RE, Lim KKA, Faylona MGPG, Mijares ASB and Porr M. 2015. Shell tool technology in Island Southeast Asia: an early Middle Holocene <i>Tridacna</i> adze from Ilin Island, Mindoro, Philippines. <i>Antiquity</i> 89, 292-308.</p>	
Social-ecological resilience on different spatial and temporal scales (Emphasis on the coast)	Yap, Maria Helena	UPD	CS	LGUs, coastal and rural communities, farmers, researchers	EIDR (reprogrammed funds)	4 years	2012	2016	Ongoing- extended 12/31/2017	12,758,792.00	<p>Wagner A, Yap DLT and Yap HT. 2015. Drivers and consequences of land use patterns in a developing country. <i>Agriculture, Ecosystems and Environment</i> 39, 78-85.</p> <p>Benjamin CS, Punongbayan AT, Dela Cruz DW, Villanueva RD, Baria MVB and Yap HT. 2016. Use of Bayesian analysis with individual-based modeling to project outcomes of coral restoration. <i>Restoration Ecology</i>, doi:10.1111/rec.12395.</p> <p>Labao AB, Naval Jr PC, Yap DLT and Yap HT. 2017. Influencing rural livelihood switching through equipment assets for agroecosystems to alleviate pressure on resources. <i>Agriculture, Ecosystems and Environment</i> 248, 96-104.</p>	<p>Graduated 1 MS student from Karlsruhe Institute for Technology and 1 MS student from Ecole Normale Supérieure de Paris</p> <p>ABS-CBN video on Abra de Ilog, Mindoro</p> <p>MOU between UP and Ecotone Resilience</p>
Wood to energy: Use of fast growing plantation tree species as fuel pellets in the Philippines	Acda, Menandro	UPLB	CFNR	Agriculture industry, researchers	EIDR (reprogrammed funds)	4 years	2013	2017	Ongoing- extended 6/30/2018	18,000,003.00	<p>Acda MN. 2015. Fuel pellets from downed coconut (<i>Cocos nucifera</i>) in super typhoon Haiyan. <i>Biomass and Bioenergy</i> 83, 539-542.</p> <p>Acda MN. 2015. Physico-chemical properties of wood pellets from coppice short rotation tropical hardwoods. <i>Fuel</i> 160, 531-533.</p> <p>Acda MN, Jara AA, Daracan VC, Devera EE. 2016. Opportunities and barriers to wood pellet trade in the Philippines. <i>Ecosystems & Development Journal</i> 6, 27-31.</p> <p>Rojo MJA, Acda MN. 2016. Interspecific Agonistic behavior of <i>Macrotermes gilvus</i> (Isoptera: Termitidae): Implication on termite baiting in the Philippines. <i>Journal of Insect Behavior</i> 29, 273-282.</p> <p>Acda MN. 2016. Physical and chemical properties of fuel pellets from agricultural residues. <i>The Philippine Agricultural Scientist</i> 99, 188-192.</p> <p>Bajo PJ and Acda M. 2017. Fuel pellets from a mixture of rice husk and wood particles. <i>Bioresources</i> 12, 6618-6628.</p>	Set up of a wood pellet pilot plant in UPLB
Development of laboratory scale production protocols for recombinant enzymes towards commercialization	Garcia, Roberta	UPLB	CA	Farmers, researchers, industry	EIDR (reprogrammed funds)	4 years	2015	2019	Ongoing	9,358,900.00		Mentoring of 1 MS student
Conduction in disordered materials in the low-frequency region	Tapia, Alvin Karlo	UPLB	IMSP	Researchers, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	3,046,988.00 *2,325,614.00	Dahonog LA and Tapia AKG. 2017. Electrical properties of Al-, Cu-, Zn-rice husk charcoal junctions. <i>IOP Journal of Physics: Conference Series</i> 817, 012015. doi:10.1088/1742-6596/817/1/012015.	Conducted a workshop on THz spectroscopy

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
Clinical and autoimmune characteristic of early onset diabetes in young adult Filipinos	Pacheco, Elizabeth	UPM	CM	Diabetic patients, researchers, medical practitioners	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing-extended 12/31/2017	11,507,605.00	Sebastian CS, Herrera MU and Tapiak KG. 2017. Electrophoretic deposition of zinc oxide on graphite drawn on paper. IOP Journal of Physics: Conference Series 817, 012004. doi:10.1088/1742-6596/817/1/012004.	Presentations in a regional conference Mentoring 2 MS students
Recombinant protein expression and immunological characterization of de-antigenized human influenza H3 hemagglutinin	Rivera, Windell	UPD	CS	General public, pharmaceutical companies, researchers	EIDR (reprogrammed funds)	4 years	2014	2018	Ongoing	16,346,364.00		Plasmid expansion using <i>E. coli</i> NovaBlue strain Propagation of induced transfected- <i>Drosophila</i> S2 cells
Analysis of susceptibility variants (Single Nucleotide Polymorphisms or SNPs) in candidate genes to unravel the genetic basis of preeclampsia (pregnancy-induced hypertension) among Filipino women	Saloma, Cynthia	UPD	CS	General public, health/medical practitioners, researchers	EIDR (reprogrammed funds)	2 years	2014	2016	Ongoing-extended 4/30/2017	5,684,600.00	Amosco M, Villar VAM, Naniang JMA, David-Bustamante LMG, Jose PA and Palmes-Saloma CP. 2016. <i>VEGF-A</i> and <i>VEGFR1</i> SNPs associate with preeclampsia in a Philippine population. Clinical and Experimental Hypertension 38, 578-585.	Presentation in international conference
Mathematical analysis of climate-based malaria transmission model with age-structure human population	Addawe, Joel	UPB	CS	Researchers, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	1,018,280.00	Addawe J and Pajimola AK. 2016. Dynamics of climate-based malaria transmission model with age-structured human population. AIP Conference Proceedings 1782, article no. 040002.	Presentations in international and national conferences
Assessment of the effects of combining biochar, biofertilizer and vermicompost on soil quality and crop production	Aggangan, Nelly	UPLB	BIOTECH	Farmers, researchers, agriculture industry	EIDR (reprogrammed funds)	3 years	2015	2018	Ongoing	10,500,000.00		Patent application for Mykorich
Interdisciplinary research on arts and culture of the Philippines	Buenconsejo, Jose	UPD	CM	Researchers, academe, general public	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	9,629,925.00		Saysay Himig anthology of recorded Philippine transcultural music Staged "Divata ng Bayan" and "Putri Anak" at the Cultural Center of the Philippines Two manuscripts (Saysay Himig & Philippine Modernities: 1880-1941) have been accepted for publication by the UP Press.
Philippine Studies on Primary Care- Pilot study in UP Diliman	Dans, Antonio	UPM	CM	General public, health/medical practitioners, researchers	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing-extended 12/16/18	16,013,212.00		Submitted article to Asia Pacific Journal of Public Health for review.
Control aspects of the cardiovascular-respiratory system	delos Reyes, Aurelio V	UPD	CS	General public, health/medical practitioners, researchers	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing, year 2 with DOST	1,620,786.00 *965,645.40	Calderon PGB, Habib M, Kappel F, delos Reyes VAA. 2017. Control aspects of the human cardiovascular-respiratory system under a nonconstant workload. Mathematical Biosciences 289, 142-152.	Presentation in international conferences

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
Drug use behavioral health among adolescents in Metro Manila	Estacio, Leonardo	UPM	CAS	Health care providers, researchers, general public	EIDR (reprogrammed funds)	3 years	2015	2018	Ongoing	16,673,384.25		Mentoring of 3 MS students
Interdisciplinary research and development for the production and utilization of Gabing San Fernando (<i>Xanthosoma sagittifolium</i> (L) Schott, Melet) for food, feeds and fuel	Garcia, Jose Nestor	UPLB	CA	Farmers, researchers, industry	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	9,979,732.00		Presentations in international and national conferences
Profiling and functional characterization of novel mutations in the EGFR cellular proliferation and cell survival pathways among Filipino young-onset, sporadic colorectal cancer patients	Garcia, Reynaldo	UPD	CS	General public, health/medical practitioners, researchers	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	9,207,623.00 *11,083,255.57		Presentations in international and local conferences
Development of bioactive cyclotides from Philippine biodiversity	Hernandez, Christine	UPD	CS	Researchers, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	7,499,048.00 *7,793,007.00		Mentoring of 3 MS students
Wavefront Engineering Research: Suppression of spurious diffraction orders	Hilario, Paul Leonard Atchong	UPD	CE	Researchers, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	2,500,000.00		
The Mass Transit System in Metro Manila: From Tranvia to MRT, 1879-2014	Jose, Ricardo	UPD	CSSP	Policy makers, LGUs, national agencies, academe, general public	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	10,075,688.00		MOA with National Archives of the Philippines (NAP) Presentations in national conferences
Towards a molecular level understanding of essential oil: Protein interactions and their applications as insect biocontrol agents	Junio, Hiyas	UPD	CS	Researchers, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	9,841,772.00 *10,159,000.00		Mentoring of 3 MS and 1 BS students
Crowdsourced sensing for student engagement in Science Education (CrowdSSENSE)	Lamorena-Lim, Rheo	UPD	CS	General public Researchers, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing-extended 5/24/2018	7,723,672.00		Fabrication of sensing kits from identified parts and generated design

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
Automated constructions of phylogenetic trees and networks of languages in the Greater Central Philippines by a feature-sensitive metric	Lemence, Richard	UPD	CS	Academe, researchers	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	9,393,000.00		
Conus structural exogenomics program	Lluisma, Arturo	UPD	CS	Researchers	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing-extended until 5/31/2018	9,385,376.00		Mentoring of 1 PhD and 6 MS students
Communicating Science and Technology Research and Development at the University of the Philippines	Pernia, Elena	UPD	CMC	Researchers, academe	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	16,516,910.90		
Bugkos: Putting equitable development at the center of the Asian Century	Raquiiza, Antoinette	UPD	AC	Policy makers, LGUs, national agencies, academe, NGOs, general public	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing-extended 2/15/2018	5,449,780.00		Public forum on comparative politics and economic development between the Philippines and Thailand
Anthropological, Mathematical Symmetry and Technical Characterization of Cordillera Textiles	Salvador- Amores, Analyñ	UPB	CSS	Academe, indigenous communities	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	5,327,000.00		Developed a catalogue of Cordillera textiles (currently housed at the Museo Kordilyera) in UP Baguio
Protein engineering of the major storage protein of mungbean enhanced with bioactive peptides exhibiting hypocholesterole- mic activity	Torio, Mary Ann	UPLB	CAS	Researchers	EIDR (reprogrammed funds)	4 years	2015	2019	Ongoing	10,000,000.00		Submitted a manuscript to KIMIKA for review.
TiO ₂ -based nanomaterials and nanocomposites as photoelectrocatalysts for the removal and sensing of synergistic organic pollutants	Yago, Allan	UPD	CS	Researchers, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	13,082,004.00 *2,534,004.00		Mentoring of 1 MS student
Integrative genomics analysis workbench for Rice Science	Yap, John Michael	UPD	CE	Farmers, researchers, industry	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	582,004.00 *518,443.10		
University of the Philippines in the Last Two Decades	Barrios, Erniel	UPD	CS	General public, researchers, academe, national agencies	EIDR (reprogrammed funds)	1 year	2016	2017	Ongoing	5,544,424.00		
Reinforcing local applications of omics technology and bioinformatics	Bautista, Anita	UPD	CS	Researchers, academe	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing-extended 7/14/2018	16,615,096.00		
Data Science and Society: Application in Public Education	David, Clarissa	UPD	CMC	Academe, national agencies	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing-extended 10/18/2018	8,955,796.00		

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
On the decomposition of matrices related to symmetric or skew symmetric bilinear forms and its relation to some known matrices	DelaCruz, Ralph John	UPD	CS	Researchers, academe	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	1,555,200.00		Mentoring of 1 MS student
In vitro release properties and in vivo biochemical activities of microencapsulated anthocyanin extracts prepared with duhat (<i>Syzygium cumini</i> (L.)) and bignay (<i>Antidesma bunius</i> (L.) Spreng)	Flores, Florendo	UPLB	CA	General public, health practitioners, food processing industry, fruit industry, academe, researchers	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing; Year 2 with DOST	3,374,136.00 *3,148,624.00		
Philippine performance archive: Ritual, dance, theatre	Ick, Judy Celine	UPD	CAL	Academe, students	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	19,715,132.00		Archive and digital internet database of Philippine performances UPOU Forum on Digital Humanities
Molecular and culture-based characterization of bacterial community from Manleluag Alkaline Spring in Pangasinan	Lantican, Nacita	UPLB	CAS	Researchers	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	7,473,016.00 *2,976,005.00		
Learning Tourism Destinations: Creating functional partnerships and initiating positive change for sustainable tourism development in local economies	Mena, Miguela	UPD	AIT	General public, LGUs, national agencies, academe	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	5,456,000.00		Presentations in international conferences MOA with Holy Name University
Promoting Rice and White Corn Combination as Food Staple for Filipinos	Salazar, Artemio	UPLB	CA	General public, researchers, general public, NGOs, national agencies	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing	13,905,000.00		
Efficacy of copper-based hollow kapok fiber nanocomposite for environmental purification	Balela, Mary Donabelle	UPD	CE	Researchers, academe, industry	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	3,046,988.00 *2,325,614.00	Dahonog LA and Tapia AKG. 2017. Electrical properties of Al-, Cu-, Zn-rice husk charcoal junctions. IOP Journal of Physics: Conference Series 817, 012015. doi:10.1088/1742-6596/817/1/012015. Sebastian CS, Herrera MU and Tapia KG. 2017. Electrophoretic deposition of zinc oxide on graphite drawn on paper. IOP Journal of Physics: Conference Series 817, 012004. doi:10.1088/1742-6596/817/1/012004.	Conducted a workshop on THz spectroscopy Presentations in a regional conference
Forest Canopy Observation, Positioning and Investigation (Forest CANOPI) Program: Developing Forest Canopy Science in the Philippines	Bantayan, Nathaniel	UPLB	CFNR	LGUs, national agencies, academe, researchers	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing; Year 2 with DOST	9,909,703.00 *10,892,983.00		Conducted tree inventory and detailed topographic mapping

Program Title	Name of Proponent	CU	Unit	Beneficiaries	Funding Sources	Duration (Years)	Start	End	Status (completed, ongoing, terminated)	Total Program Budget	Publications	Other Outputs (e.g. masteral/doctoral students graduated, patent filed, book, policy paper, etc)
												Conducted the Forest Canopy Genomics Workshop Presentations in international conferences
Ten years after the millennium ecosystem assessment of Laguna de Bay: Towards a sustainable future	Espaldon, Ma. Victoria	UPLB	SESAM	General public, LGUs, LLDA, researchers, students	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	9,930,328.00 *10,130,342.60		Mentoring of graduate students from UPNIGS and UPLB SESAM Hosting of three fellows from the Pan Asia Risk Reduction Fellowship Program Convened a science and policy forum with the Laguna de Bay stakeholders
From genes to ecosystems: Understanding fruit bat species and genetic diversity and its ecological interactions with plants in tropical lowland forests, Palanan, Isabela, Philippines	Ong, Perry	UPD	CS	Researchers, national agencies, academe	EIDR (reprogrammed funds)	2 years	2015	2017	Ongoing; Year 2 with DOST	10,351,180.00 *13,496,462.20		
Literacy, literature and translation for people empowerment program	Tolentino, Roland	UPD	CAL	Academe, students	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	8,072,000.00		
Creating cost-effective sensors and devices to understand climate change in the Philippines using archaeological and present data	Estacio, Elmer	UPD	CS	General public Researchers, academe	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	15,102,773.08		Mentoring of 1 PhD and 1 MS students
UP wellness initiative for seniors and elders	de la Vega, Shelly Ann	UPM	CM	Senior citizens, UP employees, health/medical practitioners, researchers	EIDR (reprogrammed funds)	2 years	2016	2018	Ongoing	19,820,880.00		Mentoring of 2 MS students
Recombinant buffalo antibodies as a resource for diagnostics and therapeutics: Proof-of-concept and applications in Schistosomiasis	Opulencia, Rina	UPLB	CAS	Farmers, rural communities, LGUs, researchers,	EIDR (reprogrammed funds)	2 years	2017	2019	Ongoing	4,639,840.00		

*Budget from DOST