

**EMERGING INTERDISCIPLINARY RESEARCH (EIDR) PROGRAM**  
As of 24 April 2018

Program	CU/College/ Unit	Name	Designation	Start Date			End Date			Program Title	Total Budget	Publications	Mentoring/No. of students graduated			Other Outputs
				Year	Month	Day	Year	Month	Day				UP System	BS/BA	MS/MA	
EIDR 1	DIL CS MSI	Yap, Maria Helena	Professor 12	2012	August	1	2016 2017	August December (extension)	1 31	Social-ecological resilience on different spatial and temporal scales (Emphasis on the coast)	9,159,992.00	Wagner A, Yap DLT and Yap HT. 2015. Drivers and consequences of land use patterns in a developing country rural community. Agriculture, Ecosystems and Environment 214, 78-85.		2		Graduated 1 MS student from Karlsruhe Institute for Technology and 1 MS student from Ecole Normale Supérieure de Paris
												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. Restoration Ecology, doi:10.1111/rec.12395.				ABS-CBN video on Abra de Ilog, Mindoro
												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. Agriculture, Ecosystems and Environment 248, 96-104.				MOU between UP and Ecotone Resilience
												Azcuna M , Tun JO, Yap HY, and Concepcion GP. 2018. Callyspongia samarensis (Porifera) extracts exhibit anticancer activity and induce bleaching in Porites cylindrica (Scleractinia). Chemistry and Ecology, DOI: 10.1080/02757540.2018.1437148.				
EIDR 1	MIN CHSS Humanities Department	Quintero, Genevieve	Associate Professor 2	2012	August	1	2014 2015	August August (extension)	1 31	HULLUBATON: Putting together the Mandaya Dawot	2,941,741.58					Audio files of the Hullubaton (Gambong and Llumungtad) and Hullubaton (Buyag and Sadya)
																Video of the Mandaya Dawot
																Five Hullubaton texts have been recorded, transcribed and written down
																The Hullubatons have been translated into two languages: English and Visayan

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															Presentations in international conference	
EIDR 1	LB CPAf Institute for Governance and Rural Development	Rola, Agnes	Professor	2012	August	1	2016 2017	August August (extension)	1 31	Towards good water governance for development: A multi-case analysis	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.			3	Mentoring of 3 PhD students
												Hall R, Lizada J, Dayo MH, Abansi C, David M and 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.				Assisted the river councils in Benguet and Laguna in the preparation of their water management plans
												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.				Institutionalization of the Balili River System Revitalization Coalition (BRSRC)
												Rola AC, Abansi CL, Arcala-Hall R, Lizada JC, Siason IML and Araral EKJr. 2015. Drivers of water governance reforms in the Philippines. International Journal of Water Resources Development 32, 135-152. Doi:10.1080/07900627.2015.1060196.				Proposed the revitalization of the Tigum-Aganan Watershed Management Board (TAWMB)
												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.				Sta. Cruz watershed stakeholders to prepare an investment plan on solid waste management
												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.				Presentation of the project findings to Congress
												Rola AC, Pulhin JM, Arcala-Hall R. 2018. Water Policy in the Philippines vol. 8 springer, Cham.				

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EIDR 1	MAN CAS DPSM	Billones, Junie	Professor 1	2012	September	1	2016 2017	August August (extension)	31 31	Computer-aided discovery of compounds for the treatment of tuberculosis in the Philippines	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 ( <i>Mtb</i> LipB) and <i>In Silico</i> ADMET Evaluation of Top Hits. <i>Oriental Journal of Chemistry</i> 29, 1457-1468.	26	1		Set up of synthesis laboratory in UP Manila
												Billones JB and Valle AMF. 2014. Structure-based design of inhibitors against maltosyltransferase GlgE. <i>Oriental Journal of Chemistry</i> 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. <i>Journal of Chemical and Pharmaceutical Research</i> 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 ( <i>Mtb</i> BioA) and <i>In Silico</i> Toxicity Evaluation of Top Hits. <i>Current Enzyme Inhibition</i> 10, 105-112.				Research collaborations with Sophia University, Japan; Chulalongkorn University, Thailand; National University of Singapore, Singapore; Rutgers University, USA
												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.				
												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.				

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											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. Drug Design, Development and Therapy 10, 1147-1157.					
											Billones, JB, Carrillo, MCO, Organo, VG, Sy, JBA, Clavio, NAB, Macalino, SJY, Emnacen, IA, Lee, AP, Ko, PKL, Concepcion, GP. 2017. In silico discovery and in vitro activity of inhibitors against mycobacterium tuberculosis 7,8-diaminopelargonic acid synthase (Mtb BioA). Drug design development and therapy 11, 563-574.					
EIDR 1	DIL ASP	Mijares, Armand Salvador	Associate Professor 7	2012	September	1	2016 2018	August February (extension)	31 28	Palaeoenvironmental and biodiversity study of Mindoro Island: An archaeological science initiative	24,243,944.00	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. Australian Archaeology 75, 110-117.		2	2	Documentary film titled "Developing Archaeological Science: The Aklan Survey" in collaboration with Film Institute
											Pawlik AF, Piper PJ, Faylona MGG, Padilla SGJr, Carlos J, Mijares ASB, Vallejo Bjr, 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. Journal of Field Archaeology 39, 230-247.					
											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), Southern Asia, Australia and the Search for Human Origins, Cambridge Press, 135-147.					

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											Mijares ASB. 2015. Human Emergence and Adaptation to an Island Environment in the Philippine Paleolithic. In Kaifu et al. (eds), Emergence and Diversity of Modern Human Behavior in Paleolithic Asia. Texas A&M University Press, 171-181.					
											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. Journal of Archaeological Science 61, 149-157.					
											Pawlik AF. 2015. Detecting Traits of Modern Behavior through Microwear Analysis. In Kaifu et al. (eds), Emergence and Diversity of Modern Human Behavior in Paleolithic Asia. Texas A&M University Press, 183-198.					
											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.), Im Schatten von Angkor: Archäologie und Geschichte Südostasiens, Mainz: Philipp von Zabern, Germany, 21-29. ISBN: 9783805349222.					
											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 Südostasiens, Mainz: Philipp von Zabern, Germany, p. 30. ISBN: 9783805349222.					

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											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 Tridacna adze from Ilin Island, Mindoro, Philippines. <i>Antiquity</i> 89, 292-308.					
EIDR 2	DIL CS NIP	Tapang, Giovanni	Professor 3	2013	July	1	2015 2016	June June (extension)	30 30	Versatile Instrument System for Science Education and Research – Sensors and Modules (VISSER:SM)	13,288,784.00	Hilario PL, Villangca MJ and Tapang G. 2014. Independent light fields generated using a phase-only spatial light modulator. <i>Optics Letters</i> 39, 2036-2039.				40 handheld multichannel data acquisition system and plug and play analog and digital sensor for use in science laboratories
												Improso WDG, Hilario PLA and Tapang GA. 2014. Zero order diffraction suppression in a phase-only spatial light modulator via the GS algorithm. <i>OSA Technical Digest</i> , paper FTu4C.3.				Laboratory and instructional manuals for 40 experiments in biology, chemistry, physics, environmental science and engineering
												Carasco MCA, Pizarro JPP and Tapang G. 2015. Development of a microcontroller-based wireless accelerometer for kinematic analysis. <i>Journal of Mechatronics, Electrical Power and Vehicular Technology</i> 6, 1-8.				Development of software for control, user interface and analytical tools
												Bruzon DA, Tiongson JK, Tapang G and Martinez IS. 2017. Electroreduction and solubility of CO2 in methoxy-and nitrile-functionalized imidazolium (FAP) ionic liquids. <i>Journal of applied Electrochemistry</i> 47, 1251-1260.				Development of an LED-based spectrometer for advanced chemistry laboratory experiments
EIDR 2	LB CFNR Dept. of Forest Products and Paper Science	Acda, Menandro	Professor 11	2013	July	1	2017 2018	June June (extension)	30 30	Wood to energy: Use of fast growing plantation tree species as fuel pellets in the Philippines	18,003,000.00	Acda MN. 2015. Fuel pellets from downed coconut ( <i>Cocos nucifera</i> ) in super typhoon Haiyan. <i>Biomass and Bioenergy</i> 83, 539-542.		1	2	Set up of a wood pellet pilot plant in UPLB
												Acda MN. 2015. Physico-chemical properties of wood pellets from coppice short rotation tropical hardwoods. <i>Fuel</i> 160, 531-533.				
												Acda MN, Jara AA, Daracan VC, Devera EE. 2016. Opportunities and barriers to wood pellet trade in the Philippines. <i>Ecosystems &amp; Development Journal</i> 6, 27-31.				

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											Rojo MJA, Acda MN. 2016. Interspecific Agonistic behavior of <i>Macrotermes gilvus</i> (Isoptera: Termitidae): Implication on termite baiting in the Philippines. Journal of Insect Behavior 29, 273-282.					
											Acda MN. 2016. Physical and chemical properties of fuel pellets from agricultural residues. The Philippine Agricultural Scientist 99, 283-287.					
											Bajo PJr and Acda M. 2017. Fuel pellets from a mixture of rice husk and wood particles. Bioresources 12, 6618-6628.					
											Romano AD and Acda MN. 2017. Feeding preference of the drywood termite <i>Cryptotermes cynocephalus</i> (Kalotermitidae) against industrial tree plantation species in the Philippines. Journal of Asia-Pacific Entomology 20, 1161-1164.					
											Jara AA, Daracan VC, Devera EE, Acda MN. 2016. Techno-financial analysis of wood pellet production in the Philippines. Journal of tropical forest science 28, 517-526.					
EIDR 2	LB CFNR Dept. of Social Forestry and Forest Governance	Gata, Ma. Larissa Lelu	Assistant Professor	2013	July	15	2015 2016	July July (extension)	14 15	Exploring a theory of engaged collaboration across borders among transnational advocacy networks	3,417,620.00	Gata MLLCP. 2016. Philippines, Families. In Shehan C. (ed), The Wiley Blackwell Encyclopedia of Family Studies, 1-5. John Wiley and Sons, Inc.	1	1	Copyright application of the Community-based Information Database System	
															Community-based Strategies to Climate Change Adaptation: A Teaching-Learning Module for Inclusive Development. [online platform]	
															Online discussion forum for local discussion groups	
															Hosted 1 USAID Global Research and Innovation Fellowship Network Fellow	

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EIDR 2	LB CA Food Science Cluster	Castillo-Israel, Katherine Ann	Assistant Professor	2013	July	15	2015 2016	July May (Extension)	15 15	The use of the ethylene antagonist 1-methylcyclopropene (1-MCP) to prolong the shelf-life of minimally processed fruits and vegetables	4,002,448.00	Bernardino MA, Castillo-Israel KAT, Serrano EP, Gandia JBL, and Absulio WL. 2016. Efficacy of 1-methylcyclopropene (1-MCP) post cutting treatment on the storage quality of fresh-cut 'Queen' pineapple (Ananas comosus (L.) Merr.cv. 'Queen'). International Food Research Journal 23, 667-674.	8	7		Patent application for 1-MCP on fresh-cut pineapple. The technology can extend the shelf-life of the fruits by 1-2 days.
												Castillo-Israel KAT, Gandia JBL, Velez ACG, Absulio WL and Bainto LC 2015. Storage quality of fresh-cut Philippine "Carabao" mango (Mangifera Indoxa L. cv. 'Carabao') fruits with 1-Methylcyclopropene (1-MCP) post-cutting treatment. International Food Research Journal 22, 2196-2202.				
												Relox PE, Castillo-Israel, KAT, Serrano, EP, Absulio WL and Gandia JBL. 2015. Efficacy of 1-methylcyclopropene post-cutting treatment on fresh-cut papaya (Carica papaya L. cv. 'Sinta') storage quality using two packaging forms. International Food Research Journal 22(3), 910-917.				
EIDR 2	MAN CM	Paz-Pacheco, Elizabeth	Professor 1	2013	August	1	2015 2017	July December (extension)	31 30	Clinical and autoimmune characteristic of early onset diabetes in young adult Filipinos	11,507,605.00				Scorecard to predict type 1 and type 2 diabetes	
EIDR 2	MAN CAS Dept. of Behavioral Sciences	Estacio, Leonardo	Associate Professor 5	2015	February	1	2018 2018	January April (Extension)	31 30	Drug use and behavioral health among young people in metro manila: A baseline cum intervention study	16,673,384.25		3		Mentoring of 3 masteral students	
															Established the Behavioral Health and Addictions research group in UP Manila	
															Research partnership agreement with DOH, Dangerous Drugs Board, treatment and rehabilitation centers	
															Training curriculum/module for community volunteers and treatment providers	



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															Preparation of a software/program that aids in data collection and analysis	
															Community-based treatment model for drug users	
EIDR 2	DIL CSWCD	Claudio, Sylvia	Professor 8	2013	July	20	2015 2016	July June (extension)	19 30	One UP health benefits action research: Towards a gendered universal health care sectoral model utilizing an Information Technology System	6,535,650.00	(Output of porject is a policy paper submitted to data privacy commission, GSIS, SSS, Philhealth, and UP Diliman Health Centers)			Setting up of the One UP Health website	
															Key informant interviews with Barangay UP, UP HRDO, UHS, GSIS, SSS, PhilHealth, PCSO	
EIDR 3	MAN CM	Sia, Isidro	Professor 12	2014	April	1	2016 2016	April December (extension)	30 31	Towards an enhanced health care system by community managed health programs (CMHPs) to achieve better health outcomes: a community participatory research for advocacy to local government units (LGUs), Department of Health (DOH), Philippine Institute for Traditional and Alternative Health Care (PITAHC), and Philippine Insurance Corporation (PhilHealth)	19,999,855.92			Established "Best Practice Guidelines" for the management of 10 common community diseases		
	DIL NCPAG	Co, Edna	Professor												Established linkages with PhilHealth and DOH-HPDPB	

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EIDR 3	LB Agricultural Systems Cluster	Garcia, Jose Nestor	Associate Professor	2015	May	1	2017 2017 2018	June December (Extension) March (Extension)	30 30 31	Interdisciplinary research and development for the germplasm characterization, production and utilization of Gabing San Fernando for feeds	9,979,732.00	Cayabyab BF, Villavicencio EB, Limosinero RL, Villancio VT, Garcia JNM. 2017. Survey of insect pests and diseases of gabing San Fernando, xanthosoma sagittifolium (L.) schott and melet in selected areas of Luzon and Zamboanga City, Philippines. journal of the international society for southeast asian agricultural sciences 23, 94-102.	2	1		Presentations in international and national conferences
EIDR 3	BAG CS Dept. of Mathematics and Computer Science	Collera, Juancho	Associate Professor 4	2014	May	1	2016	April	30	Bifurcations in laser networks with Sn symmetry	930,240.00	Buono PL and Collera JA. 2015. Symmetry-breaking bifurcations in rings of delay-coupled semiconductor lasers. Society for Industrial and Applied Mathematics Journal on Applied Dynamical Systems 14, 1868-1898.				Presentations in international conferences
												Collera JA. 2016. Symmetry-breaking bifurcations in laser systems with all-to-all coupling. Mathematical and Computational Approaches in Advancing Modern Science and Engineering, 81-88.				

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											Domogo AA and Collera JA. 2016. Classification of codimension-one bifurcations in a tetrad of lasers with feed forward. International Conference on Fundamental and Applied Sciences (AIP Conference Proceedings), vol. 1787, issue 1, 10.1063/1.4968141.					
EIDR 3	LB CEM Dept. of Economics	Cuevas, Agham	Associate Professor 6	2014	April	1	2015 2015	April September	30 30	Identifying transaction costs and assessing their effects in agriculture: The case of farmers' market participation in the Philippine rice sector	1,137,000.00	Cuevas A and Clarete RL. 2015. Effect of transaction costs on farmers' market participation in the Philippine rice sector. Philippine Journal of Crop Science 40, 35-44.				
												Cuevas AC. 2016. Effects of transaction costs on rice farmers' adoption of certified seeds in the Philippines. Journal of Economics, Management and Agricultural Development 2, 1-13.				
EIDR 3	LB NIMBB BIOTECH	Aggangan, Nelly	Scientist I (SCS)	2015	March	1	2018	February	28	Assessment of the effects of combining biochar fertilizer and vermicompost on soil quality and crop production	10,500,000.00				Patent application for Mykorich	
EIDR 4	DIL CS NIMBB	Saloma, Cynthia	Professor 4	2014	May	1	30 30	April April	2016 2017	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	5,684,600.00	Amosco M, Villar VAM, Naniang JMA, David-Bustamante LMG, Jose PA and Palmes-Saloma CP. 2016. VEGF-A and VEGFR1 SNPs associate with preeclampsia in a Philippine population. Clinical and Experimental Hypertension 38, 578-585.				Presentation in an international conference
EIDR 4	DIL CS IB	Rivera, Windell	Professor 6	2014	November	1	2018	November	30	Recombinant protein expression and immunological characterization of de-antigenized human influenza H3 hemagglutinin	16,346,364.00				Plasmid expansion using <i>E. coli</i> NovaBlue strain	
															Propagation of induced transfected- <i>Drosophila</i> S2 cells	

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EIDR 4	DIL CS MSI	Conaco, Ma. Cecilia	Professor 12	2014	July	1	2016 2017	June June (extension)	30 30	Exploring the molecular mechanisms underlying the stress response and interspecies interactions of the soft coral, <i>Heliopora coerulea</i>	5,225,670.00	Atrigenio MA, Aliño PM and Conaco C. 2017. Influence of the blue coral <i>Heliopora coerulea</i> on scleractinian coral larval recruitment. <i>Journal of Marine Biology</i> 2017, 6015143.	1		2	Developed an assembly of the <i>H. coerulea</i> reference transcriptome, comparative gene complement and gene history analysis, differential gene expression analysis, description of the blue coral growth response under different controlled temperatures and a year-long monitoring of <i>in situ</i> growth of <i>H. coerulea</i> colonies in Bolinao, Pangasinan
																Presentations in national conferences
EIDR 4	DIL CEngg Dept. of Chem Engineering	Pajarito, Bryan	Associate Professor	2014	July	1	2016	August	31	Effects of shaped filler reinforcement on the diffusion behavior of liquids in polymer composites	2,893,000.00	Pajarito BB, Dang-Awan DF, Felipe, MAA and Handa KC. 2016. Sorption and degradation behaviour of epoxy composites reinforced with amine-coated polyester triangular bars in acid environment. <i>Key Engineering Materials</i> 705, 93-97.	5			Presentations in international conferences
												Pajarito BB, Dang-Awan DF, Felipe, MAA and Handa KC. 2016. Desorption behavior of epoxy/amine-coated polyester triangular bar composites pre-exposed to acid environment. <i>Materials Science Forum</i> V, 3-7.				
EIDR 5	LB NIMBB BIOTECH	Fernando, Lilia	University Researcher II	2014	November	1	2016	October	31	Development of a nanoparticle-based biosensor for the rapid detection of <i>Escherichia coli</i> O157:H7 Strain Sakai	2,499,800.00					Presentations in international and national conferences
EIDR 5	LB CAS Institute of Chemistry	Torio, Mary Ann	Associate Professor 4	2015	July	10	2019	July	9	Protein engineering of the major storage protein og mungbean enhanced with bioactive peptides exhibiting hypocholesterolemic activity	10,000,000.00			4	1	Submitted a manuscript to KIMIKA for review.
EIDR 5	DIL CS Institute of Mathematics	Lemence, Richard	Associate Professor 5	2015	June	8	2017 2018	June June (extended)	7 7	Automated constructions of phylogenetic trees and networks of languages in the greater central Philippines by a feature-sensitive metric	9,393,000.00					

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EIDR 5	BAG CSS Dept. of Social Anthropology	Salvador-Amores, Analyn	Associate Professor 5	2016	April	1	2018	April	1	Anthropological, mathematical symmetry and technical characterization of Cordillera textiles	5,327,000.00				Developed a catalogue of Cordillera textiles (currently housed at the Museo Kordilyera) in UP Baguio	
															Designed a portable reflectance transformation imaging (PRTI) setup	
EIDR 5	BAG CS Dept. of Mathematics and Computer Science	Addawe, Joel	Associate Professor 6	2015	July	15	2017	July	14	Mathematical analysis of climate-based malaria transmission model with age- structured population	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.		2		Presentations in international and national conferences
EIDR 5	BAG CS Dept. of Mathematics and Computer Science	Bacani, Jerico	Associate Professor 6	2014	August	1	2016	July	31	The analysis of Bernoulli free boundary problem using the velocity method and second-order perturbation of identity technique	2,090,560.00	Bacani JB and Rabago JFT. 2015. On the second-order shape derivative of the Kohn- Vogelius objective functional using the velocity method. International Journal of Differential Equations, Article ID 954836.		1		Presentations in international and national conferences
												Bacani JB and Peichl G. 2016. The second- order eulerian derivative of a shape functional of a free boundary problem. IAENG International Journal of Applied Mathematics 46, 425-436.				
												Rabago JFT, Bacani JB. 2017. Shape optimization approach to the bernoulli problem : A lagrangian formulation. IAENG international journal of applied mathematics 47, 417-424.				
EIDR 5	LB BIOTECH	Tambalo, Richard	University Researcher II	2014	November	1	2016	October	31	Overexpression, purification and characterization of a recombinant thermo-stable endoglucanase for effective hydrolysis of lignocellulosic materials	2,500,000.00				Invention disclosure for "A recombinant thermo-acid stable endoglucanase for potential application in the high temperature-dilute acid hydrolysis of lignocellulosic materials"	

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															Patent application to be filed for "Use of thermo-acid stable endoglucanase in the high temperature-acid hydrolysis of lignocellulosic materials"	
EIDR 5	LB CA Institute of Plant Breeding	Garcia, Roberta	Associate Professor 7	2015	April	1	2019	March	31	Development of scale-up production methodologies for recombinant enzymes towards commercialization	9,358,900.00			1		
EIDR 6	DIL CAL Dept. of English and Comparative Literature	Ick, Judy Celine	Professor 8	2016	March	8	2018	March	7	Philippine performance archive: Ritual, dance, theatre	19,715,132.00	Tiatco, Sir Anril P, Jem R. Javier and Madilene Landicho. 2018. Recuperating and reimagining the palo-palo in Batanes, Philippines: From colonial legacy to a performance of solidarity and friendship. In asian theatre journal 35 (1) , 1-18.	2	6	Archive and digital internet database of Philippine performances	
															UPOU Forum on Digital Humanities	
EIDR 6	LB CAS Institute of Biological Sciences	Lantican, Nacita	Assistant Professor	2015	December	16	2017	December	15	Molecular and culture-based characterization of bacterial community from Manleluag Alkaline Spring in Pangasinan	7,473,016.00 *2,976,005.00			1	2	<ul style="list-style-type: none"> <li>Collection of bacteria which can produce enzymes and/or bioactive compounds of industrial importance;</li> <li>Experimental protocol on next-generation sequencing of metagenomic 16S rDNA for bacterial community profiling.</li> <li>Experimental protocol on metaproteomic analyses of bacterial communities. Bioinformatic analyses pipeline for next-generation sequencing and metaproteomic data.</li> <li>Laboratory-scale optimization and production, and downstream processing protocols for enzymes and/or bioactive compounds</li> </ul>

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EIDR 6	DIL CS NIP	Estacio, Elmer	Professor 1	2016	March	21	2018	March	20	Creating cost-effective sensors and devices to understand climate change in the Philippines using archaeological and present data	15,102,773.08	Delos Santos R, Ozawa S, Mag-usara V, Azuma S, Tuico A, Copa V, Salvador A, Yamamoto K, Somintac A, Kurihara K, Kitahara H, Tani M, Estacio E. 2016. Cherenkov-pahse-matched nonlinear optical detection and generation of terahertz radiation via GaAs with metal-coating. Optic express 24, 24980-24988		1	1	
												Delos Santos R, Ozawa S, Mag-usara V, Azuma S, Tuico A, Copa V, Salvador A, Yamamoto K, Somintac A, Kurihara K, Kitahara H, Tani M, Estacio E. 2016. Cherenkov-type generation and detection of terahertz radiation in a GaAs with metal-coat structure. 2016 41st international conference on infrared, milimeter, and terahertz waves (IRMMW-THZ).				
EIDR 6	LB SESAM	Espaldon, Ma. Victoria	Professor 12	2015	November	26	2017	November	27	Ten years after the Millenium Ecosystem Assessment of Laguna de Bay: Towards a sustainable future	9,930,328.00 *10,130,342.60		4			Mentoring of graduate students from UP NIGS 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
EIDR 6	DIL CS MSI	Lluisma, Arturo	Research Professor 3	2015	December	1	2017 2018	November May (extension)	30 31	Conus structural exogenomics program	9,385,376.00	Barghi N, Concepcion GP, Olivera BM, Lluisma AO. 2016. Structural features of conopeptide genes inferred from partial sequences of the Conus tribblei genome. Molecular genetics and genomics 291, 411-422.		6	1	
												Barghi N, Concepcion GP, Olivera BM, Lluisma AO. 2016. Characterization of the complete mitochondrial genome of conus tribblei walls, 1977. Mitochondrial DNA part A 27, 4451-4452.				

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											Barghi N, Concepcion GP, Olivera BM, Lluisma AO. 2015. Comparison of the venom peptides and their expression in closely related conus species: Insights into adaptive post-speciation Evolution of conus exogenomes. View researchID and orcid 7, 1797-1814.					
EIDR 6	DIL CSSP Third World Studies Center	Jose, Ricardo	Professor 12	2015	October	1	2017 2017	September December (extension)	30 30	The mass transit system in Metro Manila: From tranvia to MRT, 1879-2014	10,075,688.00			6	MOA with National Archives of the Philippines (NAP)	
															Launched a video documentary entitled "Tranvia: Ang Mga Riles ng Kamaynilaan"	
															Presentations in international and national conferences	
EIDR 6	LB CA Institute of Food Science and Technology	Flores, Floirendo	Associate Professor 2	2016	February	1	2018	January	31	<i>In vitro</i> release properties and <i>in vivo</i> biochemical activities of microencapsulated anthocyanin extracts prepared with duhat ( <i>Syzygium cumini</i> (L.) and bignay ( <i>Antidesma bunius</i> (L) Spreng)	3,374,136.00 *3,148,624.00					
EIDR 6	DIL CMC	David, Clarissa	Professor 1	2015	October	20	2017 2018	October October (extension)	19 19	Data science and society: Application in public education	8,955,796.00					
EIDR 6	DIL CS NIMBB	Garcia, Reynaldo	Professor 8	2015	November	25	2017	November	24	Profiling and functional characterization of novel mutations in EFGR cellular proliferation and cell survival pathways among Filipino young-onset, sporadic colorectal cancer patients	9,207,623.00 *11,083,255.57		2	4	1	Out of the 51 wildtype and canonical mutants targeted, a total of 32 gene constructs of NRAS, PIK3CA, PTEN, BRAF, KRAS and MEK1 have been successfully cloned into the mammalian expression pTarget.
															Presentations in international and local conferences	
EIDR 6	LB CFNR Institute of Renewable Natural Resources	Bantayan, Nathaniel	Professor 7	2016	January	7	2018	January	6	Forest Canopy Observation, Positioning and Investigation (Forest CANOPI) Program: Developing Forest Canopy Science in the Philippines	9,909,703.00 *10,892,983.00		6			Conducted tree inventory and detailed topographic mapping



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															Conducted the Forest Canopy Genomics Workshop	
															Presentations in international conferences	
EIDR 6	DIL AIT	Mena, Miguela	Professor 3	2016	February	1	2018	January	31	Learning tourism destinations: Creating functional partnerships and initiating positive change for sustainable tourism development in local economies	5,456,000.00			4	Presentations in international conferences	
															MOA with Holy Name University	
EIDR 6		Opulencia, Rina		2017	September	15	2019	September	14	Recombinant buffalo antibodies as a resource for diagnostics and therapeutics: Proof-of-concept and applications in Schistosomiasis	₱ 4,639,840.00					
EIDR 6	DIL CS Institute of Chemistry	Junio, Hiyas	Assistant Professor 6	2015	November	13	2017	November	12	Towards a molecular level understanding of essential oil-protein interactions and their applications as insect biocontrol agents	9,841,772.00 *10,159,000.00	Dacanay FND, Ladra MCJA, Junio HA and Nellas RB. 2017. Molecular affinity of mabolo extracts to an octopamine receptor of a fruit fly. Molecules 22,1677	1	3		
EIDR 6	DIL CS Institute of Chemistry	Hernandez, Christine	Associate Professor 5	2015	October	27	2017	October	26	Development of bioactive cyclotides from Philippine biodiversity	7,499,048.00 *7,793,007.00			3		
EIDR 6	DIL CS Institute of Biology	Ong, Perry	Professor 11	2015	December	18	2017	December	17	From genes to ecosystems: Understanding fruit bat species and genetic diversity and its ecological interactions with plants in tropical lowland forests, Palanan, Isabela, Philippines	10,351,180.00 *13,496,462.20	Duya MR, Fidelino J and Ong P. 2017. Spatial heterogeneity of fruit bats in a primary tropical lowland evergreen rainforest in northeastern Luzon, Philippines. ACTA Chiropterologica 19, 305-318.				
EIDR 6	DIL CS Institute of Chemistry	Lamorena-Lim, Rheo	Associate Professor 3	2015	November	25	2017 2018	November May (extension)	24 24	Crowdsourced sensing for student engagement in Science Education (CrowdSENSE)	7,723,672.00			1	Fabrication of sensing kits from identified parts and generated design	

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EIDR 6	DIL Asian Center	Raquiza, Antoinette	Associate Professor 3	2015	December	1	2017 2018	November February (Extension)	30 2	Bugkos: Putting equitable development at the center of the Asian Century	5,449,780.00				3	Public forum on comparative politics and economic development between the Philippines and Thailand
EIDR 6	DIL CS Institute of Chemistry	Yago, Allan Christopher	Assistant Professor 5	2015	November	9	2017	November	8	TiO <sub>2</sub> based nanomaterials and nanocomposites as photoelectrocatalysts for the removal and sensing of synergistic organic pollutants	13,082,004.00 *2,534,004.00				1	Mentoring of 1 MS student
EIDR 6	DIL CEngg Dept. of Computer Science	Yap, Jan Michael	Assistant Professor 2	2015	July	29	2017	July	28	Integrative genomics analysis workbench for rice science	582,004.00 *518,443.10					
EIDR 6	DIL CS Institute of Mathematics	de los Reyes, Aurelio V	Associate Professor	2015	August	13	2017	August	12	Control aspects of the cardiovascular-respiratory system	1,620,786.00 *965,645.40	Calderon PGB, Habib M, Kappel F, de los Reyes V AA. 2017. Control aspects of the human cardiovascular-respiratory system under a nonconstant workload. Mathematical Biosciences 289, 142-152.			1	Presentation in international conferences
EIDR 6	DIL CEngg DMMME	Balela, Mary Donnabelle	Associate Professor 1	2015	December	1	2017	November	30	Efficacy of copper-based hollow kapok fiber nanocomposite for environmental purification	3,046,988.00 *2,325,614.00	Agcaoili A, Ishihara K and Balela, MD. 2015. Preparation of Polyacrylonitrile-Kapok Hollow Microtubes Decorated with Cu Nanoparticles. MATEC Web of Conferences 27, 02008.			2	
EIDR 6	LB CAS Institute of Mathematical Sciences and Physics	Tapia, Alvin Karlo	Assistant Professor	2015	December	4	2017	December	3	Conduction in disordered materials in the low-frequency region	2,211,000.00 *291,325.00	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.	2			Conducted a workshop on THz spectroscopy
												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.				Presentations in a regional conference
EIDR 6	DIL CS Institute of Mathematics	de la Cruz, Ralph John	Assistant Professor 5	2016	January	1	2018	December	30	On the decomposition of matrices related to symmetric or skew symmetric bilinear forms and its relation to some known matrices	1,555,200.00	de la Cruz RJ, Merino DI and Paras AT. 2017. Skew phi polar decompositions. Linear Algebra and its Applications 531, 129-140.			1	

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											de la Cruz RJ and Granario D. 2016. The phi S polar decomposition when the cosquare of S is nonderogatory. Electronic Journal of Linear Algebra 31 , 754-764.					
EIDR 6	DIL CEngg EEEI	Hilario, Paul Leonard Atchong	Assistant Professor	2015	December	7	2017	December	6	Wavefront Engineering Research: Suppression of spurious diffraction orders	2,500,000.00					
EIDR 7	MAN College of Medicine	Dans, Antonio Miguel	Professor 12	2015	December	17	2017 2018	December December (extension)	16 16	Philippine Studies on Primary Care-Pilot study in UP Diliman	16,013,212.00		1		Submitted article to Asia Pacific Journal of Public Health for review	
EIDR 7	DIL College of Music Dept. of Musicology	Buenconsejo, Jose	Professor 2	2015	December	18	2017 2018	September May (extension)	23 31	Interdisciplinary research on arts and culture of the Philippines	9,629,925.00	1. Buenconsejo, Jose, Ed. Philippine Modernities: Music, Performing Arts, and Language. Quezon City: University of the Philippines Press, 2017. 2. Tan, Arwin, ed. Saysay Himig: Anthology of Readings in Philippine Music History. Quezon City: University of the Philippines Press, 2018. 3. Tan, Arwin, ed. Anthology of Transcultural Philippine Music. 3 CD's. Quezon City: UP College of Music, 2016. 4. Maranan, Ed. Libretto of Diwata ng Bayan. 5. Sinco, Carmela. Music of Diwata ng Bayan (conductor's score and parts and piano-vocal score). 6. Villasis, Enrique and Juan Ekis. "Original" (Text) of Putri Anak 7. de la Peña, Verne. Music of Putri Anak				Saysay Himig anthology of recorded Philippine transcultural music  Staged "Diwata 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
EIDR 7	OU	Alfonso, Grace	Professor Emeritus	2015	October	1	2016 2017	September May (extension)	30 31	Multimedia and multidisciplinary teaching and learning materials	9,500,000.00				Production of 100 Master Voices (multimedia materials for GE courses). Some of the videos are already available at TVUP (tvup.ph)	

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EIDR 7	MAN College of Medicine	de la Vega, Shelly Ann	Professor	2016	October	1	2018	September	30	UP wellness initiative for seniors and elders	19,820,880.00			2		
EIDR 7	LB CPAf Institute for Governance and Rural Development	Dizon, Josefina	Research Professor	2015	December	15	2017	December	14	Promoting rice and white corn combination as food staple for Filipinos	13,905,000.00		1	1	2	
EIDR 7	DIL School of Statistics	Barrios, Erniel	Professor 12	2016	January	14	2017 2017	January December	15 30	University of the Philippines in the last two decades	5,544,424.00					
EIDR 7	DIL CS NIMBB	Bautista, Ma. Anita	Assistant Professor 7	2016	January	15	2018 2018	January June	14 14	Reinforcing local applications of omics technology and bioinformatics	16,615,096.00			1		
EIDR 7	DIL CMC	Tolentino, Roland	Professor	2016	May	23	2018	May	22	Literacy, literature and translation for people empowerment program	8,072,000.00					
EIDR 7	DIL CMC	Pernia, Elena	Professor 9	2016	February	1	2019	January	31	Communicating science and technology research and development at the University of the Philippines	16,516,910.90					
EIDR 8	Visayas CM	Fernandez, Cheryl Joy	Assistant Professor 1	2017	November	2	2019	November	1	Promoting sustainable tourism in the small islands in the visayas	₱ 3,702,046.40					
EIDR 8	DIL CME	Ocon, Joey	Assistant Professor	2018	January	29	2020	January	28	Zinc-air battery: Oxygen electrocatalyst research and prototype design and development	₱ 2,399,124.00					
EIDR 8	DIL Bio	Velarde, Michael	Associate Professor 5	2018	January	2	2020	January	1	Development of in Vivo and in Vitro Models for the Study of Endometriosis in the Philippines	₱ 9,917,464.00					
EIDR 8		Arreola, Sheryl Lozel		2018	March	1	2020	February	29	Structural and Prebiotic Studies of Galacto- and Hetero- Oligosaccharides formed by Lactobacillus Delbrueckii Subsp. Bulgaricus Dsm 20081 Bgalactosidase	₱ 3,100,000.00					
EIDR 8		Nuesca, Guillermo		2018	February	1	2020	January	31	Polydopamine nanocoatings and nanoparticles research for the target beneficial applications	₱ 3,120,139.60					

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EIDR 8		Sigua, Ricardo		2018	April	1	2020	March	31	How safe are our roads? The components of post-crash response, safe roads and safe vehicles in road management, road safety index, and road legislations and management in making our roads safer	₱ 9,927,964.00					
EIDR 8		Gabriel, Alonzo A.														

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\* Budget from DOST