

**EMERGING INTER DISCIPLINARY RESEARCH PROGRAM (EIDR) LIST OF PUBLICATION  
as of October 12, 2018**

Program	CU/College/Unit	Name	Designation	Beneficiaries	Start Date			End Date			Program Title	Total Budget	Publications	No. of Mentored / Graduated Students			Other Outputs
					Year	Month	Day	Year	Month	Day				BS/BA	MS/MA	PhD	
EIDR 1	DIL CS MSI	Yap, Maria Helena	Professor 12	LGUs, coastal and rural communities, farmers, researchers	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	UP System		2		<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> <p>Locqueville, J, Yap, HT. Landsat time series to monitor swidden decline in a center of diversity (Philippines). Submitted to "Remote Sensing Applications: Society and Environment" (Under revision)</p> <p>Labao, AB, Naval Jr, PC, Yap, DLT, Yap, HT. Using deep-belief networks to predict work-shifting probabilities in a rural Philippine community to assist management approaches. For possible submission to "Conservation Biology".</p> <p>Olivares, J, Bantang, J, Yap, HT. Extracting complex network structures from a socioeconomic system in a high biodiversity area. For submission to a journal on complexity.</p>
EIDR 1	MIN CHSS Humanities Department	Quintero, Genevieve	Associate Professor 2	Researchers, academe, indigenous communities	2012	August	1	2014 2015	August August (extension)	1 31	HULLUBATON: Putting together the Mandaya Dawot	2,941,741.58				<p>Audio files of the Hullubaton (Gambong and Llumungtag) and Hullubaton (Buyag and Sadya)</p> <p>Video of the Mandaya Dawot and The Mandaya Balyans</p> <p>Five Hullubaton texts have been recorded, transcribed and written down</p> <p>The Hullubatons have been translated into two languages: English and Visayan</p> <p>Presentations in international conference</p>	
EIDR 1	LB CPAF Institute for Governance and Rural Development	Rola, Agnes	Professor	Policy makers, water districts, LGUs, national government agencies, academe, NGOs, general public	2012	August	1	2016 2017	August August (extension)	1 31	Towards good water governance for development: A multi-case analysis	18,454,365.60			3	<p>Mentoring of 3 PhD students</p> <p>Assisted the river councils in Benguet and Laguna in the preparation of their water management plans</p> <p>Institutionalization of the Balili River System Revitalization Coalition (BRSRC)</p> <p>Proposed the revitalization of the Tigum-Aganan Watershed Management Board (TAWMB)</p> <p>Sta. Cruz watershed stakeholders to prepare an investment plan on solid waste management</p> <p>Presentation of the project findings to Congress</p>	

																			Rola AC, Pulhin JM, Arcala-Hall R. 2018. Water Policy in the Philippines. Springer International Publishing.
EIDR 1	MAN CAS DP5M	Billones, Junie	Professor 1	General public, medical/health practitioners, researchers	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	<p>Billones JB, Carrillo MCO, Organo VG, Macalino SIY, Etnacen IA, Sy BA. 2013. Virtual screening against <i>Mycobacterium tuberculosis</i> Lipoate Protein Ligase B (Mtb LipB) and <i>In Silico</i> ADMET Evaluation of Top Hits. <i>Oriental Journal of Chemistry</i> 29, 1457-1468.</p> <p>Billones JB, Carrillo MCO, Organo VG, Macalino SIY, Etnacen IA, Sy JB. 2014. Virtual screening against <i>M. tuberculosis</i> 7,8-Diaminopelargonic Acid Synthase (Mtb BioA) and <i>In Silico</i> Toxicity Evaluation of Top Hits. <i>Current Enzyme Inhibition</i> 10, 105-112.</p> <p>Billones JB, Valle AMF. 2014. Structure-based design of inhibitors against maltosyltransferase GIG. <i>Oriental Journal of Chemistry</i> 30, 1137-1145.</p> <p>Clavio NAB, 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.</p> <p>Sampaco, A-RB III, 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, 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 SIY, Sy JBA, Etnacen IA, Clavio NAB, Concepcion GP. 2016. Towards antituberculosis drugs: <i>In silico</i> screening of synthetic compounds against <i>Mycobacterium tuberculosis</i> L,D-transpeptidase 2. <i>Drug Design, Development and Therapy</i> 10, 1147-1157.</p> <p>Billones, JB, Carrillo, MCO, Organo, VG, Sy, JBA, Clavio, NAB, Macalino, SIY, Etnacen, IA, Lee, AP, Ko, PKL, Concepcion, GP. 2017. <i>In silico</i> discovery and <i>in vitro</i> activity of inhibitors against <i>Mycobacterium tuberculosis</i> 7,8-diaminopelargonic acid synthase (Mtb BioA). <i>Drug Design, Development and Therapy</i> 11, 563-574.</p>	26	1	<p>Set up of synthesis laboratory in UP Manila</p> <p>Set up of computational facilities in UP Manila</p> <p>Establishment of a computer-aided drug discovery and development research group in UP Manila</p> <p>Research collaborations with Sophia University, Japan; Chulalongkorn University, Thailand; National University of Singapore, Singapore; Rutgers University, USA</p>			
EIDR 1	DIL ASP	Mijares, Armand Salvador	Associate Professor 7	Researchers, academe, indigenous communities	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	<p>Pawlik AF, Piper PJ, Faylona MGP, Padilla, SG Jr, Carlos J, Mijares ASB, Vallejo B Jr, Reyes M, Amano N, Ingicco T, 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 AF, Piper PJ, 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>		2	2	<p>Documentary film titled "Developing Archaeological Science: The Aklan Survey" in collaboration with Film Institute</p>		

												<p>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&amp;M University Press, 171-181.</p> <p>Neri LAM, Pawlik AF, Reepmeyer C, Mijares ASB, 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.</p> <p>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&amp;M University Press, 183-198.</p> <p>Pawlik AF. 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, 30. ISBN: 9783805349222.</p> <p>Pawlik AF. 2015. Vorgeschichte der Philippinen: Kulturelles Hinterland oder einfach nur paradiesisch? [Prehistory of the Philippines: Cultural backyard or simply paradiesial?]. 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.</p> <p>Pawlik AF, Piper PJ, Wood RE, Lim KKA, Faylona MGG, Mijares ASB, Porr M. 2015. Shell tool technology in Island Southeast Asia: an early Middle Holocene Tridacna adze from Ilin Island, Mindoro, Philippines. Antiquity 89, 292-308.</p>				
EIDR 2	DIL CS NIP	Tapang, Giovanni	Professor 3	Students, teachers, researchers	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	<p>Hilario PL, Villangca MJ, Tapang G. 2014. Independent light fields generated using a phase-only spatial light modulator. Optics Letters 39, 2036-2039.</p> <p>Improso WDG, Hilario PLA, Tapang G. 2014. Zero order diffraction suppression in a phase-only spatial light modulator via the GS algorithm. OSA Technical Digest, paper FTu4C.3.</p> <p>Carasco MCA, Pizarro JPP, Tapang G. 2015. Development of a microcontroller-based wireless accelerometer for kinematic analysis. Journal of Mechatronics, Electrical Power and Vehicular Technology 6, 1-8.</p> <p>Bruzon DA, Tionson JK, Tapang G, Martinez IS. 2017. Electroreduction and solubility of CO2 in methoxy-and nitrile-functionalized imidazolium (FAP) ionic liquids. Journal of Applied Electrochemistry 47, 1251-1260.</p>			<p>40 handheld multichannel data acquisition system and plug and play analog and digital sensor for use in science laboratories</p> <p>Laboratory and instructional manuals for 40 experiments in biology, chemistry, physics, environmental science and engineering</p> <p>Development of software for control, user interface and analytical tools</p> <p>Development of an LED-based spectrometer for advanced chemistry laboratory experiments</p>
EIDR 2	LB CFNR Dept. of Forest Products and Paper Science	Acda, Menandro	Professor 11	Agriculture industry, researchers	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	<p>Acda MN. 2015. Fuel pellets from downed coconut (<i>Cocos nucifera</i>) in super typhoon Haiyan. Biomass and Bioenergy 83, 539-542.</p> <p>Acda MN, Devera EE. 2015. Physico-chemical properties of wood pellets from forest residues. Journal of tropical forest Science 26, 589-595.</p>	2	2	Set up of a wood pellet pilot plant in UPLB

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																Acda MN, Jara AA, Daracan VC, Devera EE. 2016. Opportunities and barriers to wood pellet trade in the Philippines. Ecosystems & Development Journal 6, 27-31.								
																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, 517-528.								
																Rojo MIA, 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.								
																Bajo P Jr, Acda MN. 2017. Fuel pellets from a mixture of rice husk and wood particles. Bioresources 12, 6618-6628.								
																Romano AD, 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.								
EIDR 2	LB CFNR Dept. of Social Forestry and Forest Governance	Gata, Ma. Larissa Lelu	Assistant Professor	Researchers, academe, NGOs	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								
EIDR 2	LB CA Food Science Cluster	Castillo-Israel, Katherine Ann	Assistant Professor	Food processing industry, researchers	2013	July	15	2015 2016	July May (Extension)	15 15	The use of the ethylene antagonist 1-methylcyclopropane (1-MCP) to prolong the shelf-life of minimally processed fruits and vegetables	4,002,448.00	Castillo-Israel KAT, Gandia JBL, Velez ACG, Absulio WL, Bainto LC. 2015. Storage quality of fresh-cut Philippine "Carabao" mango ( <i>Mangifera Indoxa</i> L. cv. 'Carabao') fruits with 1-Methylcyclopropane (1-MCP) post cutting treatment. International Food Research Journal 22, 2196-2202.  Relox PE, Castillo-Israel KAT, Serrano EP, Absulio WL, Gandia JBL. 2015. Efficacy of 1-methylcyclopropane post-cutting treatment on fresh-cut papaya ( <i>Carica papaya</i> L. cv. 'Sinta') storage quality using two packaging forms. International Food Research Journal 22(3), 910-917.  Bernardino MA, Castillo-Israel KAT, Serrano EP, Gandia JBL, Absulio WL. 2016. Efficacy of 1-methylcyclopropane (1-MCP) post cutting treatment on the storage quality of fresh-cut 'Queen' pineapple ( <i>Ananas comosus</i> (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.								
EIDR 2	MAN CM	Paz-Pacheco, Elizabeth	Professor 1	General public, medical/health practitioners, researchers	2013	August	1	2015 2017 2018	July December (extension) December (extension)	31 30 31	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	Health care providers, researchers, general public	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  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	Health care practitioners, UP employees, researchers	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							Setting up of the One UP Health website  Key informant interviews with Barangay UP, UP HRDO, UHS, GSIS, SSS, PhilHealth, PCSO  (Output of project is a policy paper submitted to data privacy commission, GSIS, SSS, Philhealth, and UP Diliman Health Centers)
EIDR 3	MAN CM DIL NCPAG	Sia, Isidro / Co, Edna	Professor 12/ Professor	General public, health care providers, LGUs, government agencies, researchers	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	Co E, Caragay RN, Lopez JC, Sia IC, Estacio L, Lam H, Madamba JS, Abola RI, Villena MF. 2018. Scaling up primary health care in the Philippines: lessons from a systematic review of experiences of community-based health programs. Acta Medica Philippina 52, 153-161.  Lam H, Sia IC, Lopez JC, Caragay RN, Estacio L, Co E, Madamba JS, Abola RI, Maybituin CM, Velasco DC. 2018. Community-managed health programs for better health outcomes: Preliminary report of community participatory research in Murcia and Isabela, Negros Occidental, Philippines. Acta Medica Philippina 52, 146-152.  Lopez JCF, Caragay RN, Sia IC, Lam H, Estacio L, Co E, Madamba JS, Velasco DC. 2018. Catalyzing development of best practice guidelines for community-managed health programs: Case study of a community-academic partnership (Accepted for publication in Acta Medica Philippina)					Established "Best Practice Guidelines" for the management of 10 common community diseases  Ang mga community health workers ng mga CMHP ng Tanay, Rizal; Sorsogon City at Gubat, Sorsogon; Murica at Sipalay, Negros Occidental; Sinacaban, Aloran, at Tudela, Misamis Occidental; Midsayap, North Cotabato; Patikol at Jolo, Sulu; at Quezin City; at Sina IC Isidro, RN Caragay, RM Galang. 2015. Best practice guidelines ng mga community-managed health programs (CMHPs) sa pagagamot ng sampung karaniwang sakit sa komunidad. Ouezon City: IMAN (Desktop publication)	
EIDR 3	LB Agricultural Systems Cluster	Garcia, Jose Nestor	Associate Professor	Farmers, researchers, industry	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.  De Chavez HD, Villavicencio EB, Villancio VT, Garcia JNM, Bulatao MJ, Villavicencio ML, Bondad JJ. 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 (Submitted to ISSAAS).  Mateo JM, Villavicencio ML, Ignacio RM, Villancio VT, Bulatao MJ, De Chavez H, Garcia JNM. Survey of insect pests and diseases of gabing San Fernando (Xanthosoma Sagittifolium (L.) Schott, Melet) Corms and its potentials as food and feed substitute for cassava (Manihot Esculenta Crantz) (Submitted to Philippine Journal of Crop Science).	2	1	Manuscripts being prepared for publication  De Chavez, HD, Villavicencio, EB, Villancio, VT, Garcia, JNM, Bulatao, MJ, Villavicencio, ML, Bondad, JJ. Propagation techniques for rapid establishment and production of gabing San Fernando (Xanthosoma Sagittifolium (L.) Schott & Melet)  Garcia, JNM, Villavicencio, EB, De Chavez, HD, Villancio, VT. Use of cut portions of corms and small cormels as propagation methods for multiplication of gabing San Fernando (Xanthosoma Sagittifolium (L.) Schott & Melet)  Adiova, CB, Bulatao, MJ, Cruz, RM, Garcia, JNM, Villancio, VT, Raro, RI. Utilization of gabing San Fernando corms (Xanthosoma Sagittifolium (L.) Schott & Melet) as partial energy source for growing-finishing pigs  Bulatao, MJ, Cruz, RM, Garcia, JNM, Villancio, VT, Limosinero, RL,			
EIDR 3	BAG CS Dept. of Mathematics and Computer Science	Collera, Juancho	Associate Professor 4	Researchers, academe	2014	May	1	2016	April	30	Bifurcations in laser networks with Sn symmetry	930,240.00	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.						

												Domogo AA, 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) 1787, issue 1, 10.1063/1.4968141.				
EIDR 3	LB CEM Dept. of Economics	Cuevas, Agham	Associate Professor 6	Farmers, rice producers, entrepreneurs, researchers	2014	April	1	2015 2015	April September (Extension)	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, 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	Agangan, Nelly	Scientist I (SCS)	Farmers, researchers, agriculture industry	2015	March	1	2018 2019	February February (Extension)	28 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	General public, health/medical practitioners, researchers	2014	May	1	2016 2017	April April (Extension)	30 30	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, Naniong JMA, David- Bustamante LMG, Jose PA, Palmes-Saloma CP. 2016. VEGF-A and VEGFR1 SNPs associate with preeclampsia in a Philippine population. Clinical and Experimental Hypertension 38, 578-585.			
EIDR 4	DIL CS IB	Rivera, Windell	Professor 6	General public, pharmaceutical companies, researchers	2014	October	1	2018	October	31	Recombinant protein expression and immunological characterization of de- antigenized human influenza H3 hemagglutinin	16,346,364.00		2	Plasmid expansion using <i>E. coli</i> NovaBlue strain  Propagation of induced transfected-Drosophila S2 cells	
EIDR 4	DIL CS MSI	Conaco, Ma. Cecilia	Professor 12	Researchers, academe	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>Helopora coerulea</i>	5,225,670.00	Atrigenio MA, Aliño PM, Conaco C. 2017. Influence of the blue coral <i>Helopora coerulea</i> on scleractinian coral larval recruitment. Journal of Marine Biology 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
EIDR 4	DIL CEngg Dept. of Chem Engineering	Pajarito, Bryan	Associate Professor	Researchers, materials industry	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, Handa KC. 2016. Desorption behavior of epoxy/amine-coated polyester triangular bar composites pre-exposed to acid environment. Materials Science Forum V, 3-7.  Pajarito BB, Dang-Awan DF, Felipe MAA, Handa KC. 2016. Sorption and degradation behaviour of epoxy composites reinforced with amine-coated polyester triangular bars in acid environment. Key Engineering Materials 705, 93-97.	5		
EIDR 5	LB NIMBB BIOTECH	Fernando, Lilia	University Researcher II	General public, meat producers, government agencies, researchers	2014	November	1	2016	October	31	Development of a nanoparticle- based biosensor for the rapid detection of Escherichia coli O157:H7 Strain Sakai	2,499,800.00				

EIDR 5	LB CAS Institute of Chemistry	Torio, Mary Ann	Associate Professor 4	Researchers	2015	July	10	2019	July	9	Protein engineering of the major storage protein of mungbean enhanced with bioactive peptides exhibiting hypocholesterolemic activity	10,000,000.00		3	4	1	Submitted a manuscript to KIMIKA for review.
EIDR 5	DIL CS Institute of Mathematics	Lemence, Richard	Associate Professor 5	Academe, researchers	2015	June	8	2017 2018 2019	June June March (extended)	7 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		6	2		
EIDR 5	BAG CSS Dept. of Social Anthropology	Salvador-Amores, Analyn	Associate Professor 5	Researchers, academe, indigenous communities	2016	April	1	2018	April December (extended)	1 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	Researchers, academe	2015	July	15	2017	July	14	Mathematical analysis of climate-based malaria transmission model with age-structured population	1,018,280.00	Addawe J, 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	Researchers, academe	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, 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.  Bacani JB, 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.  Rabago, JFT, Bacani, JB. 2018. Shape Optimization approach for solving the Bernoulli problem by tracking the Neumann data: a Lagrangian formulation. Communications on Pure and Applied Analysis 17, 2683-2702.		1		Presentations in international and national conferences
EIDR 5	LB BIOTECH	Tambalo, Richard	University Researcher II	Fuel industry, researchers	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"  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	Farmers, researchers, industry	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	Academe, students	2016	March	8	2018	March	7	Philippine performance archive: Ritual, dance, theatre	19,715,132.00	<p>Tiatco, SAP.2017."My American Dream".Dreaming of Broadway and west end in the Philippines. Palgrave Handook of Musical Theatre Producers, ed. Laura MacDonald and William Everett. Palgrave Macmillan , 333-342. (Book Chapter)</p> <p>Tiatco, SAP.2017.Performing like a Concert King or a Concert Queen: Compensatory aesthetics in producing an Original Filipino Musical. Palgrave Handbook of Musical Theatre Producers, ed. Laura MacDonald and William Everett. Palgrave Macmillan, 449-458. (Book Chapter)</p> <p>Tiatco, SAP.2017.The Contemporary in Metropolitan Manila Theatre: Derivatives, Entangled and the Social problem play in Art Archive 01: A collection of essays on the visual and performing art, ed Patricia Tumang. Manila: The Japan Foundation, 50-55 (Ebook: <a href="http://jfmo.org.ph/events-and-courses/art-archive-01/">http://jfmo.org.ph/events-and-courses/art-archive-01/</a>)</p> <p>Tiatco SAP, Javier JR, Landicho M. 2018.The palo-palo in Batanes, Philippines: From colonial legacy to a performance of solidarity and friendship. Asian Theatre Journal 35 (1), 1-18.</p> <p>Tiatco, SAP, Javier, JR, Viray, BL.2018.Chapter 3: The Philippine Performance Archive on Cultural Performances: The Archive as a Performative Cultural Memory and Pedagogy. Digital Humanities and New Ways of Thinking, ed. Ann Wing-bo Tso. Springer. (Book Chapter)</p> <p>Tiatco SAP, Javier JR, Viray, BL 2018. From Revolution to Figuration: A genealogy of protest performances in the Philippines. In the routledge companion to theatre and politics, ed. Peter Eckersall and Helena Grehan. New York and London: Routledge. (Book Chapter)</p>	2	6	<p><b>Philippine Performance Archive project</b></p> <p>1. Ick, Judy Celine."The Forests of Silence: Global Shakespeare in the Philippines, the Philippines in Global Shakespeare" Shakspeare 71 (September 2018), pp. 26-34.</p> <p>2. Ick, Judy Celine. (Forthcoming 2018) "Shakespeare in the Philippines" The Stanford Global Shakespeare Encyclopedia. Stanford: Stanford University Press. (<a href="http://www.sup.org/Shakespeare/">http://www.sup.org/Shakespeare/</a>)</p> <p>3. Ick, Judy Celine.(Forthcoming 2019) "When All the World's a Digital Stage: Transmedial Shakespeare and Translational Pedagogy," Routledge Handbook of Shakespeare and Global Appropriation. Ed by Christy Desmet, Sujata Iyengar, and Miriam Jacobson, New York; Routledge.</p> <p>4. Tiatco, Sir Anril and Bryan L. Viray. (Forthcoming, 2019). "From Revolution to Figuration: A Genealogy of Protest Performances in the Philippines." In Routledge Companion to Theatre and Politics, ed. by Peter Eckersall and Helena Graham. London and NY: Routledge.</p> <p>5. Tiatco, Sir Anril P. (Forthcoming, 2019). Panata, Pagtitipon, Pagdiriwang: A Preliminary Contextualization of Cultural Performances in the Philippines. Humanities Diliman 16 (1).</p> <p>6. Retana, Wenceslao E. Noticias Historico-bibliograficas de el teatro em Filipinas desde sus origins hasta 1898 (1909) translated by Prof. Anna Maria Yglopaz..</p> <p>7. Barrantes, Vicente. El Teatro Tagalo (1889). Translated by Prof. Elvin Ebreo.</p>	
EIDR 6	LB CAS Institute of Biological Sciences	Lantican, Nacita	Assistant Professor	Researchers	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	<p>Collection of bacteria which can produce enzymes and/or bioactive compounds of industrial importance;</p> <p>Experimental protocol on next-generation sequencing of metagenomic 16S rDNA for bacterial community profiling.</p> <p>Experimental protocol on metaproteomic analyses of bacterial communities. Bioinformatic analyses pipeline for next-generation sequencin and metaproteomic data.</p> <p>Laboratory-scale optimization and production, and downstream processing protocols for enzymes and/or bioactive compounds</p>	
EIDR 6	DIL CS NIP	Estacio, Elmer	Professor 1	Researchers, academe	2016	March	21	2018 2019	March March (extension)	20 20	Creating cost-effective sensors and devices to understand climate change in the Philippines using archaeological and present data	15,102,773.08	<p>Delos Santos R, Ozawa S, Mag-usara V, Azuma S, Tuico A, Copa V, Salvador A, Yamamoto K, Somintac AS, Kurihara K, Kitahara H, Tani M, Estacio ES. 2016. Cherenkov-phase-matched nonlinear optical detection and generation of terahertz radiation via GaAs with metal-coating. Optic Express 24, 24980-24988.</p> <p>Delos Santos R, Ozawa S, Mag-usara V, Azuma S, Tuico A, Copa V, Salvador A, Yamamoto K, Somintac AS, Kurihara K, Kitahara H, Tani M, Estacio ES. 2016. Cherenkov-type generation and detection of terahertz radiation in a GaAs with metal-coat structure. 2016 41st International conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THZ).</p>	7	1	1	<p>Submitted manuscript</p> <p>"High resolution modeling of CO2 in Metro Manila" (submitted to Air Pollution Research)</p> <p>"117-Year climatology of Manila, Philippines" (submitted to Urban Climate)</p>
													<p>Delos Santos R, Ozawa S, Mag-usara V, Azuma S, Tuico A, Copa V, Salvador A, Yamamoto K, Somintac AS, Kurihara K, Kitahara H, Tani M, Estacio ES. 2016. Cherenkov-type generation and detection of terahertz radiation in a GaAs with metal-coat structure. 2016 41st International conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THZ).</p>				<p>Barretto-Tesoro, G, Hernandez, V.2017. Power and Resilience: Flooding and occupation in a late-nineteenth century Philippine town. Frontiers of colonialism, 149-178. (Book Chapter)</p>





EIDR 6	DIL AIT	Mena, Miguela	Professor 3	General public, LGUs, national agencies, academe	2016	February	1	2018 2018	January November (extended)	31 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	LB Institute of Biological Science	Opulencia, Rina	Asst. Professor	health/medical practitioners, Researchers, academe	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		3		
EIDR 6	DIL CS Institute of Chemistry	Junio, Hiyas	Assistant Professor 6	Researchers, academe	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, 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	Researchers, academe	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	Researchers, national agencies, academe	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, 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, Rhea	Associate Professor 3	Students, Academe	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  Paper has been accepted in the conference proceedings, CCECP 2018 Conference Proceedings: (Print ISSN: 2301-3761, E- periodical: 2301-377X) at <a href="http://chemistry-conf.org/accepted-papers/">http://chemistry-conf.org/accepted- papers/</a>	
EIDR 6	DIL Asian Center	Raquiz, Antoinette	Associate Professor 3	Policy makers, LGUs, national agencies, academe, NGOs, general public	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	Researchers, academe	2015	November	9	2017	November	8	TiO2 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  <b>National Conference</b>  31st Philippine Chemistry Congress, 13-15 April 2016, Iloilo City Judicpa, MA, Yago, AC. Preparation and Characterization of Bulk- and Surface-modified of carbon paste electrodes with Titanium Dioxide(TiO2) nanoparticles. (Oral presentation)  31st Philippine Chemistry Congress, 13-15 April 2016, Iloilo Grand Hotel , Iloilo City Espanilla, MB, Maylem, GP, Payawan, LM, Conato."Preparation and Properties of Transition Metal <sup>III</sup> - and Nitrogen (N)-Doped Titania Photocatalysts by Hydrothermal Synthesis" (oral presentation)	

																		<p><b>International Conference with Peer-reviewed Proceedings</b></p> <p>Buenviaje, SC, Usman, KA, Payawan, LM."Synthesis and characterization of titanium dioxide-polypyrrole nanocomposites for the photodegradation of bromophenol blue". International Conference on the Science and Engineering of materials 2017 (ICOSEM 2017), October 2017, University of Malaya, Kuala Lumpur, Malaysia. ( Oral presentation)</p> <p>32nd Philippine Chemistry Congress, 31 May - 2 June 2017, Puerto Prinsesa, Palawan Judicpa, MA, Yago, AC." Poly(3-Thiophene acetic acid)-titanium dioxide(TiO2) nano composites on glassy carbon electrode for Photo-electrochemical-based sensing" (Oral presentation)</p> <p><b>International Conference</b> AsiaSense 2018 (The 8th International Conference on Sensors), 21-23 February 2018, UST, Manila Judicpa,MA, Heruela, PA, Lopez, RS, Yago, AC."A molecular imprinted poly(3-thiopheneacetic acid)-titanium dioxide composite for the photoelectrochemical detection of chlorpyrifos." (Oral presentation)</p> <p>Buenviaje, SC, Usman, KA, Payawan,LM."Synthesis and characterization of titanium dioxide-polypyrrole nanocomposites for the photodegradation of bromophenol blue". AIP conference proceedings 1958, 020015 (2018); published online 09 May 2018 <a href="https://doi.org/10.1063/1.5034546">https://doi.org/10.1063/1.5034546</a></p> <p><b>Invention Disclosure via Technology Transfer Office (OVCRD-UP Diliman)</b> "Multifunctional titanium dioxide-polymer nanocomposites for the detection of organophosphate pesticides" by A. C. Yago, M. A. Judicpa, R. S. Lopez, and P. Heruela. Submitted to TTBD-OVCRD June 27, 2018.</p>
EIDR 6	DIL CEngg Dept. of Computer Science	Yap, Jan Michael	Assistant Professor 2	Farmers, researchers, industry	2015	July	29	2017	July	28	Integrative genomics analysis workbench for rice science	582,004.00 *518,443.10	Yap, JT.2018.Foreign Investment, the Manufacturing Sector, and Poverty: The Philippine Case. Asian Politics and Policy 10, 115 - 136.					
EIDR 6	DIL CS Institute of Mathematics	De los Reyes, Aurelio V	Associate Professor	General public, health/medical practitioners, researchers	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 A. 2017. Control aspects of the human cardiovascular- respiratory system under a nonconstant work load. Mathematical Biosciences 289, 142-152.		1		Presentation in international conferences	
EIDR 6	DIL CEngg DMMME	Balela, Mary Donnabelle	Associate Professor 1	Researchers, academe, industry	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	Canaria, ML, Ramos, JL, Sayson, CM, Balela MD.2017.Growth of hematite nanostructures in iron foil for Environmental cleaning. Solid State Phenomena 266 SSP, 101 - 104.		2			
													Balela, MD, Acedera, RA, Flores, CL, Peliciano, CM.2018.Surface modification of ZnO nanostructured film prepared by hot water oxidation. Surface and Coating Technology 340, 199-209.					
													Lacuesta, AC, Herrera, MU, Manalo, R, Balela MD.2018.Fabrication of kapok paper-zinc oxide- polyaniline hybrid nanocomposite for methyl orange removal. Surface and Coatings Technology 350, 971- 976.					
													Tigno, SD, Herrera, MU, Balela, MD.2018.Hydrophobicity of functionalized TiO2- based Kapok nanocomposite.Surface and Coating Technology 350, 857-862.					
EIDR 6	LB CAS Institute of Mathematical Sciences and Physics	Tapia, Alvin Karlo	Assistant Professor	Researchers, academe	2015	December	4	2017	December	3	Conduction in disordered materials in the low-frequency region	2,211,000.00 *291,325.00	Dahonog LA, 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  Presentations in a regional conference

												Sebastian CS, Herrera MU, Tapia AKG. 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.						
												Manding KV, Lopez, JE, Tapia, AKG. 2018. AC conduction in polyaniline emeraldine salt-graphite pellets. Materials Science Forum 923, 66 - 71.						
EIDR 6	DIL CS Institute of Mathematics	De la Cruz, Ralph John	Assistant Professor 5	Researchers, academe	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, Paras AT. 2017. Skew phi polar decompositions. Linear Algebra and its Applications 531, 129-140.				1	
													De la Cruz, RJ, Granario, DQ. 2018. Product of Symplectic normal matrices. Linear Algebra and its Applications 543, 162 - 172.					
EIDR 6	DIL CEngg EEEI	Hilario, Paul Leonard Atchong	Assistant Professor	Researchers, academe	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	General public, health/medical practitioners, researchers	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	General public, researchers, academe	2015	December	18	2017 2018	September May (extension)	23 31	Interdisciplinary research on arts and culture of the Philippines	9,629,925.00						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  Buenconsejo, Jose, Ed. Philippine Modernities: Music, Performing Arts, and Language. Quezon City: University of the Philippines Press, 2017.  Tan, Arwin, ed. Saysay Himig: Anthology of Readings in Philippine Music History. Quezon City: University of the Philippines Press, 2018.  Tan, Arwin, ed. Anthology of Transcultural Philippine Music. 3 CD's. Quezon City: UP College of Music, 2016.  Maranan, Ed. Libretto of Diwata ng Bayan.  Sinco, Carmela. Music of Diwata ng Bayan (conductor's score and parts and piano-vocal score).  Villasis, Enrique and Juan Ekis. "Original" (Text) of Putri Anak de la Peña, Verne. Music of Putri Anak
EIDR 7	OU	Alfonso, Grace	Professor Emeritus	Students, academe	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)  VIDEOS(TVUP)

																			<p><b>Philippine Arts and Culture</b></p> <p>1. Danas na Ganap (Glecy Atienza)</p> <p>2. Myth and Creative Imagination (Jose Neil Garcia)</p> <p>3. Creative Writing in the Digital age (Jose Wendell Capili)</p> <p>4. How I Write Stories (Jose Dalisay Jr.)</p> <p>5. Manuel Conde: Defining Cinema for the Filipino (Nicanor Tiongson)</p> <p>6. Film Literacy and Criticism (Roland Tolentino)</p> <p>7. Sining at Nasyonalismo (Neil Doloricon)</p> <p>8. Philippine Arts and Culture in the Socio-historical Context of Nation, Region, and Globalization (Reuben Cañete)</p> <p>9. What is Filipino Design, or Is There One at All? (Leonardo Rosete)</p> <p>10. Learning with Puppets: Educating through Theater (Amihan Ramolete)</p> <p>11. Ecocriticism (Framing Disaster: Position and Tropes) (Flaudette Datuin)</p> <p>12. Rizal Monuments and the Filipino Diaspora (Roberto Paulino)</p> <p>13. Sosyolohiya at Sining: Sa Diwa ng Kuwentong Bayan (Clemen Aquino)</p> <p>14. Cultural Performances in the Philippines (Anril Tiatico)</p> <p>15. Philippine Arts and Culture/Women in the Arts (Brenda Fajardo)</p> <p>16. Postcolonial Paths to Constructing the Nation/Bayan (Priscelina Patajo Legasto)</p> <p>17. Pag-aapuhap sa Genoa, Pag-aapuhap ng Sarili (Luna Sicat Cleto)</p> <p>18. Siyensining (Vim Nadera)</p> <p>19. Ang Pelikula Bilang Lunsaran ng Makabukuhang Pagaaral at Pagsusuri ng Kasaysayan at Lipunang Filipino (Rommel Rodriguez, Yason Banal, Carlos Gabriel Pangilinan)</p> <p><b>Wika, Kultura, at Lipunan</b></p> <p>1. Labintatlong Tesis Hinggil sa Wikang Pambansa (Ramon Guillermo)</p> <p>2. Kung Paano Iniligaw ako ng Wikang Ingles at Paano Ko Natuklasan ang Aking Sarili Bilang Pilipinong Manunulat (Bienvenido Lumbera)</p> <p>3. Wikang Filipino sa Panahon ng Internasyonalisasyon at Globalisasyon (Crisanta Flores)</p> <p>4. Ang Pambansa Wika Mula Multilinggwal na Perspektiba (Ma. Althea Enriquez)</p> <p>5. Bisa ng Pagsasalina sa Filipino ng mga Saliksik at Maikhang Akda (Raniela Barbaza)</p> <p>6. Wika, Nasyonalismo, at Panlipunang Katarungan (Gonzalo Campoamor II)</p> <p>7. Papel ng mga Wika sa Pilipinas at Ilang mga Bansa sa Pagkakaisa, Pagunlad at Kaayusan sa Lipunan (Pamela Constantino)</p> <p>8. Pagsulat at Pananaliksik sa Wikang Filipino (Luna Sicat Cleto, Clemen Aquino, Rommel Rodriguez)</p> <p><b>Probing the Physical World</b></p> <p>1. Fossils as Clues to Earth and Ocean History (Alyssa Alampay)</p> <p>2. Marine Sponges and Climate Change (Cecilia Conaco)</p> <p>3. Watershed Approaches to Integrated Local and Regional Development Planning (Rex Victor Cruz)</p> <p>4. How the Philippine Island Arc System was Formed (Carla Dimalanta)</p> <p><b>Living Systems: Concepts and Dynamics</b></p> <p>1. Living Systems: The Ocean and Us (Rhodora Azanza)</p> <p>2. What is a Species, Really? (Ian Kendrick Fontanilla)</p>
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**Knowledge Festival**

- 1. Health Emergency Planning for Yolanda-Affected LGUs: A Multidisciplinary Approach (Phillip Ian Padilla)
- 2. Promoting Rice and White Corn Combination as Food Staple for Filipinos (Artemio Salazar)
- 3. Project SARAI (Smarter Approaches in Reinvigorating Agriculture as an Industry) in the Philippines (Ma. Victoria O. Espaldon)
- 4. Versatile Instrument System for Science Education and Research: Sensors and Modules (VISSER:SM) (Giovanni A. Tapang)
- 5. Towards Good Water Governance for Development: A Multi-Case Analysis (Agnes Rola)
- 6. RxBox 2: Integrating Medical Devices in the National Tele-Health Service Program - Project 3 -Field Deployment of Telemedicine Devices (Portia Grace Marcelo)
- 7. Our Innovative "Lab-in- a-Mug" Technology (Raul Destura)
  
- 8. Why the Arts Should Matter (Butch Dalisay Jr.)
- 9. UP BGC as Knowledge Center (Arnel Casanova)
- 10. The Mind Museum (Maria Isabel Garcia)
- 11. Hazard Vulnerabilities of the Public School System: Communicating Data and Science (Clarissa David)
- 12. Fostering and Sustaining Innovation and Creativity in an Academe-Based Research Group (Arnel Salvador)
- 13. Culture, Creativity and Innovation (Alfredo Pascual)
  
- 14. Media Development of Human Capital Through Higher Education (Alfredo Pascual, Rosario Garcellano, Lourd de Veyra, Joselito Yabut, Roby Alampay, Randy David, Ernesto Pernia, Butch Dalisay Jr, Edna Co)

**Taiwan Speakers**

- 1. Social Identity as Poor (Ma. Cecilia Gastardo-Conaco)
- 2. From Experimental Marine Ecology to Complex Systems (Helena T. Yap)
- 3. UP NOAH (Alfredo Mahar Lagmay)
- 4. Social Entrepreneurship: Café Antonio in Los Baños, Laguna
- 5. Social Entrepreneurship: The Kasaka Makiling and Koshinero's Premium Native Lechon Way (Oliver John Gomez, Dr. Primo Garcia)
- 6. Social Entrepreneurship and the Social Network Co., Ltd. (Chang Yu-Lin)
- 7. Empowering People Through Kindness (Pao-Cheng "Picasso" Chen, Dr. Wu)
- 8. Social Entrepreneurship (Dr. Tim Eing Ming Wu)
- 9. The TK's Full House Experience (Po-Yang Liu)
- 10. Involving Out-of- School Youth Through Social Entrepreneurship (Chun-Kuei Peng, Ms. Wen Hsin Lo )
- 11. AgriGaija Social Enterprise (Shangla Yang, Vanessa Ying Ling )

EIDR 7	MAN College of Medicine	De la Vega, Shelly Ann	Professor	UP employees, health/medical practitioners, researchers, national agencies	2016	October	1	2018	September	30	UP wellness initiative for seniors and elders	19,820,880.00			4		
EIDR 7	IB CPAF Institute for Governance and Rural Development	Dizon, Josefina	Research Professor	General public, researchers, NGOs, national agencies	2015	December	15	2017	December	14	Promoting rice and white corn combination as food staple for Filipinos	13,905,000.00		1	1	2	The program team has submitted eight (8) abstracts to the Philippine Journal of Crop Science for a special issue.
EIDR 7	DIL School of Statistics	Barrios, Erniel	Professor 12	General public, researchers, academe, national agencies	2016	January	14	2017 2017	January December (extension)	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	Researchers, academe	2016	January	15	2018 2018 2018	January June (extension) July (extension)	14 14 14	Reinforcing local applications of omics technology and bioinformatics	16,615,096.00		1			
EIDR 7	DIL CMC	Tolentino, Roland	Professor	Researchers, academe	2016	May	23	2018	May	22	Literacy, literature and translation for people empowerment program	8,072,000.00					CALL FOR SUBMISSIONS for Bukambibig's Issue 04: 'Social Movements'
																	UP ICW Issues Call for Submission to an Updated Filipino Writers Database Kritika Kultura Lecture Series presents The Archipelago as a Moving Archive: Orature and Performance in Southern Mindanao
																	PUP Filipinohiya Serye ng Lektura ng mga Pananaliksik: Kasaysayan sa Espasyo ng Panitikan  Science Fiction in Focus in UP Book Forum on April 21  UP and Ateneo Professors to discuss Science Fiction in Second Interdisciplinary Book Forum on April 21  Glimpses: One Writer's Journey: A Lecture and Reading by Luis H. Francia Kritika Kultura Lecture Series presents Antonius Herujiyanto  15 Fellows to the 15th Ateneo National Writers Workshop Named Forum Kritika on Food Transformations: Eating and Wasting in the Anthropocene UP Rep's GODOT recreates chilling visit to a mental asylum  NCCA: Pilipino Komiks Live with Darna & Dyesebel  NCCA: NCCA Statement on the Supreme Court Decision on the Torre de Manila Case  RAPPLER: Interview with Virgilio Almario, National Artist for Literature  RAPPLER: Interview with F. Sionil Jose, National Artist for Literature  RAPPLER: Interview with Cirilo Bautista, National Artist for Literature  RAPPLER: Interview with Edith Tiempo, National Artist for Literature  RAPPLER: Interview with Bienvenido Lumbea, National Artist for Literature  Alang-alang sa Alinlangan: Tiwala[gg] sa Salita  Ilang tala ng muni-muni sa 56th UP National Writers' Workshop



																		<p>Panayam sa UP Los Baños: Mga Tala</p> <p>Poetry in the City of Science</p> <p>Ateneo Institute of Literary Arts and Practices</p> <p>Edilberto and Edith Tiempo Creative Writing Center</p> <p>UST Center for Creative Writing and Literary Studies</p> <p>Bienvenido N. Santos Creative Writing Center</p> <p>URAHAN: Paglulunsad ng From the Eyes of a Healer</p> <p>Call for contributions to "From the Eyes of a Healer 2"</p> <p>Tulaan sa Liwasan sa Mayo 19</p> <p>Panawagan para sa Kontribusyon sa Laktay-Sanaysay</p> <p>14th Lamiraw Workshop announces 12 workshop fellows</p> <p>UP ICW Call for Submission to Updated Filipino Writers Database Extended to June 30</p> <p>67th Carlos Palanca Memorial Awards issues call for entries; Novel and Nobela categories, open this year</p>	
EIDR 7	DIL CMC	Pernia, Elena	Professor 9	UP, policy makers, national agencies, academe, researchers,	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	LGUs, coastal and rural communities, researchers, academe	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	Researchers	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	General public, medical/health practitioners, researchers	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					1		
EIDR 8		Arreola, Sheryl Lozel	Assistant Professor 5	Researchers	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	Professor 6	Researchers	2018	February	1	2020	January	31	Polydopamine nanocoatings and nanoparticles research for the target beneficial applications	3,120,139.60							

EIDR 8		Sigua, Ricardo	Professor	LGU's, Researchers, Academe	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.	Professor 1		2018	February	1	2019	January	31	Influences of maternal dietary intake and nutritional status on the microbiological and chemical compositions of breast milk from selected lactating Filipino women at 0 to 4 months postpartum	5,000,000.00				

\* Budget from DOST