

EIDR Masterlist of Projects

Emerging Interdisciplinary Research (Data as of 05 June 2021)

Cnt.	Project/ Program Title	Name	CU/College/ Unit	Beneficiaries	Duration	Status	No. of mentored/graduated students			Total Approved Budget	Publications	Other Outputs
							BS/BA	MS/MA	PhD			
EIDR Program 01												
1	Social-ecological resilience on different spatial and temporal scales (Emphasis on the coast)	Maria Helena Yap, Ph.D. (Professor)	DIL CS MSI	LGUs, coastal and rural communities, farmers, researchers	August 1, 2012- December 31, 2017	Completed		2			<p>Wagner A., Yap D.L.T., Yap H.T. 2015. Drivers and consequences of land use patterns in a developing country rural community. <i>Agriculture, Ecosystems and Environment</i> Vol. 214, pages 78-85, DOI: 10.1016/j.agee.2015.08.016</p> <p>Benjamin, C. S., Punongbayan, A. T., dela Cruz, D. W., Villanueva, R. D., Baria, M. V. B., & Yap, H. T. 2016. Use of Bayesian analysis with individual-based modeling to project outcomes of coral restoration. Vol. 25, pages 112-122 <i>Restoration Ecology</i>. https://doi.org/10.1111/rec.12395</p> <p>Azcuna, M., Tun, J.O., Yap, H.T. & Concepcion, G.P. 2018. <i>Calyspongia Samarensis</i> (Porifera) extracts exhibit anticancer activity and induce bleaching in <i>Porites Cylindrica</i> (Scleractinia). <i>Chemistry and Ecology</i>, 34:5, 397-411, DOI: 10.1080/02757540.2018.1437148</p> <p>Labao A.B., Naval P.C., Jr., Yap D.L.T., Yap H.T. 2017. Influencing rural livelihood switching through equipment assets for agroecosystems to alleviate pressure on resources. <i>Agriculture, Ecosystems and Environment</i> 248, 96-104. DOI : 10.1016/j.agee.2017.07.016</p>	<ol style="list-style-type: none"> 1. Graduated 1 MS student from Karlsruhe Institute for Technology and 1 MS student from Ecole Normale Supérieure de Paris 2. ABS-CBN video on Abra de Ilog, Mindoro. 3. MOU between UP and Ecotone Resilience 4. 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) 5. Punongbayan A.T. 2019. Markov chain analysis of sessile community dynamics in a degraded Philippine reef to support restoration of coral populations. <i>Population Ecology</i> 61(1), pp. 45-61. DOI: 10.1002/1438-390X.1009
											<p>Dingkuhn, E. L., Wezel, A., Bianchi, F. J. J. A., Grootac, J. C. J., Wagner, A., Yap, H. T., Schulte R. P. O. 2020. A multi-method approach for the integrative assessment of soil functions: Application on a coastal mountainous site of the Philippines. <i>Journal of Environmental Management</i> Vol. 264. https://doi.org/10.1016/j.jenvman.2020.110461</p>	
											<p>Yap H.T. 2019. One-ecosystem analysis for environmental conservation and sustainable livelihood [version 1; peer review: 2 approved]. <i>F1000Research</i>. DOI: 10.12688/f1000research.13999.1</p>	
											<p>Labao, A. B., Naval Jr, P. C., Yap, D. L. T., Yap, H. T. 2020. Using deep-belief networks to understand propensity for livelihood change in a rural coastal community to further conservation. <i>Conservation Biology</i> 34(4), pages 1008-1016. DOI: 10.1111/cobi.13497</p>	
											<p>Servonnat M., Kaye R., Siringan F.P., Munar J., Yap H.T. 2019. Imperatives for Conservation in a Threatened Center of Biodiversity. <i>Coastal Management</i> 47(5), pp. 453-472. DOI: 10.1080/08920753.2019.1641040</p>	
2	HULLUBATON: Putting together the Mandaya Dawot	Genevieve Quintero, Ph.D. (Associate Professor)	MIN CHSS Humanities Department	Researchers, academe, indigenous communities	August 1, 2012- August 31, 2015	Ended		3	2,941,741.58	<p>Jorolan-Quintero, G., Nabayra, E.S. 2018. <i>The Mandaya Dawot</i> (Gambong, Sadya, Dilam). National Commission for Culture and the Arts (220 pages) https://www.nlc.gov.sg/biblio/204004575</p> <p>Jorolan-Quintero, G., Nabayra, E.S. <i>Pagpangayaw ng Isu na si Llungtad: an Ullubaton from the Mandaya Dawot - Banwa, UP Mindanao</i></p> <p>Other Outputs: <ol style="list-style-type: none"> 1. Audio files of the Hullubaton (Gambong and Llungtad) and Hullubaton (Buyag and Sadya) 2. Video of the Mandaya Dawot and 3. The Mandaya Balyans 4. Assisted the river councils in Benguet and Laguna in the preparation of their water management plans </p>		
3	Towards good water governance for development: A multi-case analysis	Agnes Rola, Ph.D. (Professor)	LB CPAf Institute for Governance and Rural Development	Policy makers, water districts, LGUs, national government agencies, academe, NGOs, general public	August 1, 2012- August 31, 2017	Ended		3	18,454,365.60	<p>Hall, R., Lizada, J., Dayo, M.H., Abansi, C., David, M. & Rola, A. 2015. To the last drop: The political economy of Philippine water policy. <i>Water Policy</i> 17, 946-962. https://doi.org/10.2166/wp.2015.150.</p> <p>Rola, A.C., Abansi, C.L., Arcala-Hall, R., Lizada, J.C., Siason, I.M.L. & Araral, E.K.Jr. 2015. Drivers of water governance reforms in the Philippines. <i>International Journal of Water Resources Development</i> 32, 135-152. https://doi.org/10.1080/07900627.2015.1060196.</p> <p>Rola, A.C., Pulhin, J.M., Tabios, G.Q. III, Lizada, J.C. Dayo, M.H.F. 2015. Challenges of water governance in the Philippines. <i>Philippine Journal of Science</i> 144, 197-208.</p> <p>Abansi, C.L., Doble, M.C.C., Cariño, J.K. & Rola, A.C. 2016. Beyond prices: The cultural economy of water in the Cordillera highlands of Northern Luzon, Philippines. <i>Asia Pacific Viewpoint</i> 57, 280-293. https://doi.org/10.1111/apv.12126.</p> <p>Rola, A.C., Abansi, C.L., Arcala-Hall, R. & Lizada, J.C. 2016. Characterizing local water governance structure in the Philippines: Results of the water managers' 2013 survey. <i>Water International</i> 41, 231-250. https://doi.org/10.1080/02508060.2015.1113078.</p> <p>Rola, A.C., Pulhin, J.M. & Arcala-Hall, R. 2018. <i>Water Policy in the Philippines</i>. Springer International Publishing, XVII, 285. DOI: 10.1007/978-3-319-70969-7</p> <p>Lizada J.C., Hall R.A., Espinosa T.S., Rola A.C. 2019. Analysis of water property rights and responsibilities of rights holders in Tigum-Aganan watershed, Philippines. <i>Philippine Journal of Science</i> 148, 289-300.</p>		

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4	Computer-aided discovery of compounds for the treatment of tuberculosis in the Philippines	Billones, Junie, Ph.D (Professor)	MAN CAS DPSM	General public, medical/health practitioners, researchers	September 1, 2012- August 31, 2017	Ended	26	1		38,221,750.00	<p>Billones, J.B., Carrillo, M.C.O., Organo, V.G., Macalino, S.J.Y., Emnacen, I.A., & Sy, B. A. 2013. Virtual screening against Mycobacterium tuberculosis Lipoate Protein Ligase B (MtbLipB) and In Silico ADMET evaluation of top hits. <i>Oriental Journal of Chemistry</i>, 29, 1457-1468.</p> <p>Billones, J.B., Carrillo, M.C.O., Organo, V.G., Macalino, S.J.Y., Emnacen, I.A., & Sy, B. 2014. Virtual screening against M. tuberculosis 7,8-Diaminopelargonic Acid Synthase (MtbBioA) and In Silico Toxicity Evaluation of Top Hits. <i>Current Enzyme Inhibition</i>, 10, 105-112.</p> <p>Billones, J. B., & Valle, A. M. F. 2014. Structure-based design of inhibitors against maltosyltransferase GIG. <i>Oriental Journal of Chemistry</i>, 30, 1137-1145.</p> <p>Clavio, N. A. B., & Billones J. B. 2014. Virtual screening against Mycobacterium tuberculosis isocitrate lyase and in silico ADME-Tox evaluation of top hits. <i>Journal of Chemical and Pharmaceutical Research</i>, 6, 727-738.</p> <p>Sampaco, A-R. B. III, & Billones, J. B. 2015. Virtual screening of natural products, molecular docking and dynamics simulations on M. tuberculosis S-adenosyl-L-homocysteine Hydrolase. <i>Oriental Journal of Chemistry</i>, 31, 1859-1865.</p> <p>Vios, V. S. L., & Billones J. B. 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, J. B., Carrillo, M. C. O., Organo, V. G., Macalino, S. J. Y., Sy, J. B. A., Emnacen, I. A., Clavio, N. A. B., & Concepcion G. P. 2016. Towards anti-Tuberculosis drugs: In silico screening of synthetic compounds against Mycobacterium tuberculosis L,D-transpeptidase 2. <i>Drug Design, Development and Therapy</i>, 10, 1147-1157.</p> <p>Billones, J.B., Carrillo, M.C.O., Organo, V.G., Sy, J.B.A., Clavio, N.A.B., Macalino, S.J.Y., Emnacen, I. A., Lee, A. P., Ko, P. K. L., & Concepcion, G. P. 2017. In silico discovery and in vitro activity of inhibitors against Mycobacterium tuberculosis 7.8-diaminopelargonic acid synthase (Mtb BioA). <i>Drug Design, Development, and Therapy</i>, 11, 563-574.</p>	<ol style="list-style-type: none"> 1. Set up of synthesis laboratory in UP Manila 2. Set up of computational facilities in UP Manila 3. Establishment of a computer-aided drug discovery and development research group in UP Manila 4. Research collaborations with Sophia University, Japan; Chulalongkorn University, Thailand; National University of Singapore, Singapore; Rutgers University, USA <p>Other Publications:</p> <ol style="list-style-type: none"> 1. Aventura C.A., Billones J.B., Vasquez R.D., Castillo A.L. 2020. In ovo and in silico evaluation of the anti-angiogenic potential of syringin. <i>Drug Design, Development and Therapy</i> 14 pp. 5189-5204. DOI: 10.2147/DDDT.S271952 2. Alos H.C., Billones J.B., Vasquez R.D., Castillo A.L. 2019. Antiangiogenesis potential of alpinumisoflavone as an inhibitor of matrix metalloproteinase-9 (MMP-9) and vascular endothelial growth factor receptor-2 (VEGFR-2). <i>Current Enzyme Inhibition</i> 15 (3), pp. 159-178. DOI: 10.2174/1573408016666200123160509 3. Hilvano E.G.V., Yang G., Emnacen I.A., Rybak-Akimov E.V., Billones J.B., Carrillo M.C.O., Noll B.C., Organo V.G. 2016. Synthesis and crystal structure of [2,7,12-trimethyl-3,7,11,17-tetraazabicyclo[1.1.3.1]heptadeca-1(17),13,15-triene-k4N]copper (II) bis(perchlorate). <i>Acta Crystallographica Section E: Crystallographic Communications</i> 72, pp. 1009-1012. DOI: 10.1107/S2056989016009701
5	Palaeoenvironmental and biodiversity study of Mindoro Island: An archaeological science initiative	Armand Salvador Mijares, Ph.D. (Associate Professor)	DIL ASP	Researchers, academe, indigenous communities	September 1, 2012- February 28, 2018	Ended		2	2	24,243,944.00	<p>Pawlik, A.F., Piper, P.J., Faylona, M.G.P.G., Padilla, S.G. Jr., Carlos J., Mijares, A.S.B., 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, A.F., Piper, P.J., & Mijares, A.S.B. 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>. 135-147. Cambridge: Cambridge Press.</p> <p>Pawlik, A. F., Piper, P. J., Faylona, M. G. P. G., Padilla, S. G. Jr., Carlos J., Mijares, A. S. B., 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>Mijares, A. S. B. 2015. Human emergence and adaptation to an island environment in the Philippine Paleolithic. In Kaifu et al. (Eds.), <i>Emergence and Diversity of Modern Human Behavior in Paleolithic Asia</i> (pp.171-181). College Station, Texas: A&M University Press.</p> <p>Neri L.A.M., Pawlik A.F., Reepmeyer C., Mijares A.S.B., Paz V.J. 2015. Mobility of early islanders in the Philippines during the terminal Pleistocene/early Holocene boundary: pXRF-analysis of obsidian artefacts. <i>Journal of Archaeological Science</i>, 61, 149-157.</p> <p>Pawlik, A. F. 2015. Detecting traits of modern behavior through microwear analysis. In Kaifu et al. (Eds.), <i>Emergence and Diversity of Modern Human Behavior in Paleolithic Asia</i> (pp.183-198). College Station, Texas: Texas A&M University Press.</p> <p>Pawlik, A. F. 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), <i>Im Schatten von Angkor: Archäologie und Geschichte Südasiens</i>, Mainz: Philipp von Zabern, Germany, 30. ISBN: 9783805349222.</p> <p>Pawlik, A. F. 2015. Vorgeschichte der Philippinen: Kulturelles Hinterland oder einfach nur paradiesisch? [Prehistory of the Philippines: Cultural backyard or simply paradisaical?]. In A Reinecke and M Tjoa-Bonatz (Eds.), <i>Im Schatten von Angkor: Archäologie und Geschichte Südasiens</i>, Mainz (pp.21-29). Mainz, Germany: Philipp von Zabern, German. ISBN: .9783805349222</p> <p>Pawlik, A. F., Piper, P. J., Wood, R. E., Lim, K. K. A., Faylona, M. G. P. G., & Mijares, A. S. B., 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.</p>	<ol style="list-style-type: none"> 1. Documentary film titled "Developing Archaeological Science: The Aklan Survey" in collaboration with Film Institute 2. Boulanger C., Ingicco T., Piper P.J., Amano N., Grouard S., Ono R., Hawkins S., Pawlik A.F. 2019. Coastal Subsistence Strategies and Mangrove Swamp Evolution at Bubog I Rockshelter (Ilin Island, Mindoro, Philippines) from the Late Pleistocene to the mid-Holocene. <i>Journal of Island and Coastal Archaeology</i> 14(4), pp. 584-604. DOI: 10.1080/15564894.2018.1531957 3. Reyes M.C., Ingicco T., Piper P.J., Amano N., Pawlik A.F. 2017. First fossil evidence of the extinct Philippine cloud rat <i>Crateromys paulus</i> (Muridae: Murinae: Phloeomyini) from Ilin Island, Mindoro, and insights into its Holocene abundance. <i>Proceedings of the Biological Society of Washington</i> 130(1), pp. 84-97. DOI: 10.2988/17-00012
EIDR Program 02												
6	Versatile Instrument System for Science Education and Research – Sensors and Modules (VISSER: SM)	Giovanni Tapang, Ph.D. (Professor)	DIL CS NIP	Students, teachers, researchers	July 1, 2013- June 30, 2016	Completed				13,288,784.00	<p>Hilario, P. L., Villangca, M.J., & Tapang, G. 2014. Independent light fields generated using a phase-only spatial light modulator. <i>Optics Letters</i>, 39, 2036-2039.</p> <p>Improso, W.D.G., Hilario, P.L.A., & Tapang, G. 2014. Zero order diffraction suppression in a phase-only spatial light modulator via the GS algorithm. <i>OSA Technical Digest, paper FTu4C.3</i>. https://doi.org/10.1364/FIO.2014.FTu4C.3</p> <p>Carasco, M. C. A., Pizarro, J. P. P., & 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.</p>	<ol style="list-style-type: none"> 1. 40 handheld multichannel data acquisition system and plug and play analog and digital sensor for use in science laboratories 2. Laboratory and instructional manuals for 40 experiments in biology, chemistry, physics, environmental science and engineering 3. Development of software for control, user interface and analytical tools 4. Development of an LED-based spectrometer for advanced

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												Bruzon D.A., Tiongson J.K., Tapang G., Martinez I.S. 2017. Electroreduction and solubility of CO2 in methoxy-and nitrile-functionalized imidazolium (FAP) ionic liquids. <i>Journal of Applied Electrochemistry</i> , 47(11), 1251-1260. DOI: 10.1007/s10800-017-1117-7	chemistry laboratory experiments
												Improso W.D.G.D., Tapang G.A., Saloma C.A. 2017. Suppression of zeroth-order diffraction in phase-only spatial light modulator via destructive interference with a correction beam. <i>PHOTOPTICS 2017 - Proceedings of the 5th International Conference on Photonics, Optics and Laser Technology in 2017-January</i> , pp. 208-214. DOI: 10.5220/0006129802080214	
												Bruzon D.A.V., Tapang G.A., Martinez I.S. 2021. An electrochemical setup designed for carbon dioxide solubility measurements in ionic liquids. <i>Review of Scientific Instruments</i> , 92 (2), DOI: 10.1063/5.0019479	
												Improso W.D.G.D., Tapang G.A., Saloma C.A. 2019. Suppression of Zeroth-Order Diffraction in Phase-Only Spatial Light Modulator. <i>Springer Series in Optical Sciences</i> 222, pp. 1-30. DOI: 10.1007/978-3-030-12692-6_1	
												Tiongson J.K.A., Bruzon D.A.V., Tapang G.A., Martinez I.S. 2018. Syntheses and Properties of Methoxy and Nitrile Functionalized Imidazolium Tris (pentafluoroethyl)trifluorophosphate Ionic Liquids. <i>Journal of Chemical and Engineering Data</i> 63(5), pp.1135-1145. DOI: 10.1021/acs.jced.7b00281	
7	Wood to energy: Use of fast growing plantation tree species as fuel pellets in the Philippines	Menandro Acda, Ph.D. (Professor)	LB CFNR Dept. of Forest Products and Paper Science	Agriculture industry, researchers	July 1, 2013- June 30, 2018	Completed		2	2	18,003,000.00		<p>Acda, M. N., & Devera, E. E. 2015. Physico-chemical properties of wood pellets from forest residues. <i>Journal of Tropical Forest Science</i>, 26, 589-595.</p> <p>Acda, M. N. 2016. Physical and chemical properties of fuel pellets from agricultural residues. <i>The Philippine Agricultural Scientist</i>, 99, 283-287.</p> <p>Acda, M. N. Jara, A. A., Daracan, V. C., & Devera, E. E. 2016. Opportunities and barriers to wood pellet trade in the Philippines. <i>Ecosystems & Development Journal</i>, 6, 27-31.</p> <p>Jara, A. A., Daracan, V. C., Devera, E. E., & Acda, M. N. 2016. Techno-financial analysis of wood pellet production in the Philippines. <i>Journal of Tropical Forest Science</i>, 28, 517-528.</p> <p>Rojo, M. J. A., & Acda, M. N. 2016. Interspecific Agonistic behavior of <i>Macrotermes gilvus</i> (Isoptera: Termitidae): Implication on Termite baiting in the Philippines. <i>Journal of Insect Behavior</i>, 29, 273-282.</p> <p>Bajo, P. Jr., & Acda, M. N. 2017. Fuel pellets from a mixture of rice husk and wood particles. <i>Bioresources</i>, 12, 6618-6628.</p> <p>Romano, A. D., & Acda, M. N. 2017. Feeding preference of the drywood termite <i>Cryptotermes cynocephalus</i> (Kalotermitidae) against industrial tree plantation species in the Philippines. <i>Journal of Asia-Pacific Entomology</i>, 20, 1161-1164.</p>	Set up of a wood pellet pilot plant in UPLB
8	Exploring a theory of engaged collaboration across borders among transnational advocacy networks	Ma. Larissa Lelu Gata, Ph.D. (Assistant Professor)	LB CFNR Dept. of Social Forestry and Forest Governance	Researchers, academe, NGOs	July 15, 2013- July 14, 2016	Ended	1	1		3,417,620.00		<p>Gata, M. L. L. C. P. 2016. <i>Philippines, Families</i>. In Shehan C. (Ed.), <i>The Wiley Blackwell Encyclopedia of Family Studies</i>, (pp.1-5). Hoboken, New Jersey: John Wiley and Sons, Inc.</p>	<p>Copyright application of the Community-based Information Database System</p> <p>Community-based Strategies to Climate Change Adaptation: A Teaching-Learning Module for Inclusive Development. [online platform]</p>
9	The use of the ethylene antagonist 1-methylcyclopropene (1-MCP) to prolong the shelf-life of minimally processed fruits and vegetables	Katherine Ann Castillo-Israel, Ph.D. (Assistant Professor)	LB CA Food Science Cluster	Food processing industry, researchers	July 15, 2013- May 14, 2016	Completed	8	7		4,002,448.00		<p>Castillo-Israel, K. A. T., Gandia, J. B. L., Velez, A. C. G., Absulio, W. L., & Bainto, L. C. 2015. Storage quality of fresh-cut Philippine 'Carabao' mango (<i>Mangifera Indoxa</i> L. cv. 'Carabao') fruits with 1-Methylcyclopropene (1-MCP) post-cutting treatment. <i>International Food Research Journal</i>, 22, 2196-2202.</p> <p>Relox P.E., Jr., Castillo-Israel K.A.T., Serrano E.P., Absulio W.L., Gandia J.B.L. 2015. Efficacy of 1-methylcyclopropene post-cutting treatment on fresh-cut papaya (<i>Carica papaya</i> L. cv. 'Sinta') storage quality using two packaging forms. <i>International Food Research Journal</i>, 22(3), 910-917.</p> <p>Bernardino M.A., Castillo-Israel K.A.T., Serrano E.P., Gandia J.B.L., Absulio W.L. 2016. Efficacy of 1-methylcyclopropene (1-MCP) post cutting treatment on the storage quality of fresh-cut 'Queen' pineapple (<i>Ananas comosus</i> (L.) Merr. cv. 'Queen'). <i>International Food Research Journal</i>, 23(2), 667-674.</p>	Patent application for 1-MCP on fresh-cut pineapple. The technology can extend the shelf-life of the fruits by 1-2 days.
10	Clinical and autoimmune characteristic of early onset diabetes in young adult Filipinos	Elizabeth Paz-Pacheco, Ph.D. (Professor)	MAN CM	General public, medical/health practitioners, researchers	August 1, 2013- December 31, 2018*	On-going				11,507,605.00		Other Output: Scorecard to predict type 1 and type 2 diabetes	
11	Drug use and behavioral health among young people in metro manila: A baseline cum intervention study	Leonardo Estacio, Ph.D. (Associate Professor)	MAN CAS Dept. of Behavioral Sciences	Health care providers, researchers, general public	February 1, 2015- April 30, 2018	Ended		3		16,673,384.25		Estacio L., Jr., Estacio J.Z., Alibudbud R. 2021. Relationship of Psychosocial Factors, HIV, and Sex Work Among Filipino Drug Users. <i>Sexuality Research and Social Policy</i> . DOI: 10.1007/s13178-021-00563-0	Other Output: 1. Mentoring of 3 MS students 2. Established the Behavioral Health and Addictions research group in UP Manila
12	One UP health benefits action research: Towards a gendered universal health care sectoral model utilizing an Information Technology System	Sylvia Claudio, Ph.D. (Professor)	DIL CSWCD	Health care practitioners, UP employees, researchers	July 20, 2013- June 30, 2016	Ended				6,535,650.00		Other Output: 1. Setting up of the One UP Health website 2. Key informant interviews with Barangay UP, UP HRDO, UHS, GSIS, SSS, PhilHealth, PCSO	
EIDR Program 03													

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13	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 (PITAH), and Philippine Insurance Corporation (PhilHealth)	Isidro Sia, Ph.D. Edna Co, Ph.D. (Professor)	MAN CM DIL NCPAG	General public, health care providers, LGUs, government agencies, researchers	April 1, 2014-December 31, 2016	Ended			19,999,855.92	Co E.E.A., Caragay R.N., Lopez J.C.F., Sia I.C., Estacio L.R., Lam H.Y., Madamba J.S., Abola R.I.B., Villena M.F.A. 2018. Scaling up primary health care in the Philippines: lessons from a systematic review of experiences of community-based health programs. <i>Acta Medica Philippina</i> , 52(2), pp.194-202. Lam H.Y., Sia I.C., Lopez J.C.F., Caragay R.N., Estacio L.R., Co E.E.A., Madamba J.S., Abola R.I.B., Maybituin C.M., Velasco D.C. 2018. Community-managed health programs for better health outcomes: Preliminary report of community participatory research in Murcia and Isabela, Negros Occidental, Philippines. <i>Acta Medica Philippina</i> , 52(2), pp. 187-193. Lopez, J. C. F., Caragay, R. N., Sia, I. C., Lam, H., Estacio, L., Co, E., Madamba, J. S., & Velasco, D. C. 2018. Catalyzing development of best practice guidelines for community-managed health programs: Case study of a community-academic partnership. <i>Acta Medica Philippina</i> , 52, 332-342. Sia, I. C., Co, E. E., Caragay, R. N., Lam, H. Y. 2015. Development of Best practice guidelines for management of prevalent community diseases. <i>BMJ Open</i> , https://doi.org/10.1136/bmjopen-2015-forum2015abstract6	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 paggagamot ng sampung karaniwang sakit sa komunidad. Ouezon City: IMAN (Desktop publication)
14	Interdisciplinary research and development for the germplasm characterization, production and utilization of Gabing San Fernando for feeds	Jose Nestor Garcia, Ph.D. (Associate Professor)	LB Agricultural Systems Cluster	Farmers, researchers, industry	May 1, 2015-June 30, 2018 *	Ended	2	1	9,979,732.00	Cayabyab B.F., Villavicencio E.B., Limosinerio R.L., Villancio V.T., Garcia J.N.M. 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. <i>Journal of the International Society for Southeast Asian Agricultural Sciences</i> . 23, 94-102. de Chavez H.D., Villavicencio E.B., Villancio V.T., Garcia J.N.M., Bulatao M.J.G., Villavicencio M.L.H., Bondad J.J.B. 2019. Propagation techniques for rapid establishment and production of cocoyam (<i>Xanthosoma sagittifolium</i> (L.) schott). <i>Journal of the International Society for Southeast Asian Agricultural Sciences</i> 25 (2), pp. 83-94.	Manuscripts being prepared for publication 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 (<i>Xanthosoma sagittifolium</i> (L.) Schott & Melet) Adivoa, CB, Bulatao, MJ, Cruz, RM, Garcia, JNM, Villancio, VT, Raro, RI. Utilization of gabing San Fernando corms (<i>Xanthosoma sagittifolium</i> (L.) Schott & Melet) as partial energy source for growing-finishing pigs
15	Bifurcations in laser networks with Sn symmetry	Juancho Collera, Ph.D. (Professor)	BAG CS Dept. of Mathematics and Computer Science	Researchers, academe	2014	Completed			930,240.00	Collera, J. A. 2016. Symmetry-breaking bifurcations in laser systems with all-to-all coupling. <i>Mathematical and Computational Approaches in Advancing Modern Science and Engineering</i> , 81-88. Buono, P. L., & Collera, J. A. 2015. Symmetry-breaking bifurcations in rings of delay-coupled semiconductor lasers. <i>Society for Industrial and Applied Mathematics Journal on Applied Dynamical Systems</i> , 14, 1868-1898. Domogo, A. A., & Collera, J. A. 2016. Classification of codimension-one bifurcations in a tetrad of lasers with feed forward. <i>International Conference on Fundamental and Applied Sciences (AIP Conference Proceedings)</i> 1787, issue 1, 10.1063/1.4968141.	
16	Identifying transaction costs and assessing their effects in agriculture: The case of farmers' market participation in the Philippine rice sector	Agham Cuevas, PH.D. (Associate Professor)	LB CEM Dept. of Economics	Farmers, rice producers, entrepreneurs, researchers	April 1, 2014-September 30, 2015	Completed			1,137,000.00	Cuevas, A. C., & Clarete, R. L. 2015. Effect of transaction costs on farmers' market participation in the Philippine rice sector. <i>Philippine Journal of Crop Science</i> , 40, 35-44. Cuevas, A. C. 2016. Effects of transaction costs on rice farmers' adoption of certified seeds in the Philippines. <i>Journal of Economics, Management and Agricultural Development</i> , 2, 1-13.	
17	Assessment of the effects of combining biochar fertilizer and vermicompost on soil quality and crop production	Nelly Aggangan, Ph.D. (Scientist 1)	LB NIMBB BIOTECH	Farmers, researchers, agriculture industry	March 1, 2015-February 28, 2019	Ended		1	10,500,000.00	Aggangan, N. S., Cortes, A. D., Opolencia, R. B., Jomao-as, J. G., & Yecyec, R. P. 2019. Effects of Mycorrhizal Fungi and Bamboo Biochar on the Rhizosphere bacterial population and nutrient uptake of Cacao (<i>Theobroma cacao</i> L.) seedlings. <i>Philippine Journal of Crop Science</i> , 44 (1):1-9. Aggangan, N. S., & Jomao-As, J. G. 2019. Biochar from sugarcane bagasse and arbuscular mycorrhizal fungi on growth and nutrient status of cacao (<i>Theobroma cacao</i> L.) seedlings under nursery conditions. <i>Philippine Journal of Science</i> , 148(4), pp. 647-657. Aggangan, N. S., and Jomao-As, J. G. 2019. Influence of Bamboo and Sugarcane Bagasse Biochar and Mycorrhizal Fungi on growth and nutrient status of Cacao (<i>Theobroma cacao</i> L.) in acidic soil. <i>Philippine Journal of Science</i> , 148(4), pp. 647-657. Aggangan, N. S., Cortes, A. D., & Reano, C. E. 2019. Growth response of Cacao (<i>Theobroma cacao</i> L.) plant as affected by Bamboo biochar and Arbuscular Mycorrhizal fungi in sterilized and unsterilized soil. <i>Biocatalysis and Biotechnology</i> , 22. https://doi.org/10.1016/j.bcab.2019.101347 Aggangan, N. S., & Iringan, D. S. 2019. Spore production and root colonization of Arbuscular Mycorrhizal fungi in different media and levels of Biochar: Their effect on growth of <i>Paspalum Notatum</i> . <i>Philippine Journal of Crop Science Special Issue</i> , 44: 28-38. Aggangan, N. S., & Victoria, K. S. 2019. Effectiveness of multiple inoculation of Biofertilizer with Biochar on growth of Cacao (<i>Theobroma cacao</i> L.) seedlings planted under Agroforest ecosystem. <i>Philippine Journal of Crop Science Special Issue</i> , 44 :69-75. Jomao-as, J. G., & Aggangan, N. S. 2019. Growth, nutrient uptake, and soil chemical properties of cacao seedlings using biochar or AMF grown in acidic soil. <i>Philippine Journal of Crop Science (PJCS) Special Issue</i> , 44: 76-82. Aggangan, N. S., & Aguilar, E. A. 2019. Response of three cacao (<i>Theobroma cacao</i> L.) varieties to biochar and microbial inoculation. <i>Philippine Journal of Crop Science Special Issue, Vol. 44: 89-97</i> .	
										Cortes A.D., Opolencia R.B., Aggangan N.S. 2020. Characterization of plant growth promoting diazotrophic bacteria isolated from cacao (<i>Theobroma cacao</i> L.) rhizosphere treated with bamboo biochar and arbuscular mycorrhizal fungi. <i>Philippine Journal of Science</i> 149(4), pp 1063-1070.	

EIDR Masterlist of Projects

EIDR Program 04												
18	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	Cynthia Saloma, Ph.D. (Professor)	DIL CS NIMBB	General public, health/medical practitioners, researchers	May 1, 2014-April 30, 2017	Ended				5,684,600.00	Amosco, M., Villar, V. A. M., Naniong, J. M. A., David-Bustamante, L.M.G., Jose, P.A., & Palmes-Saloma, C.P. (2016). VEGF-A and VEGFR1 SNPs associated with preeclampsia in a Philippine population. <i>Clinical and Experimental Hypertension</i> , 38, 578-585. Amosco, M., Tavera, G., Villar, V. A. M., Naniong, J. M. A., David-Bustamante, L. M. G., Williams, S., Jose, P. A., & Palmes-Saloma, C. P. 2019. Non-Additive effects of ACVR2A in preeclampsia, in a Philippine population 06 Biological Sciences 0604 Genetics. <i>BMC Pregnancy and Childbirth</i> , 19(1), 11. DOI: 10.1186/s12884-018-2152-z	
19	Recombinant protein expression and immunological characterization of de-antigenized human influenza H3 hemagglutinin	Windell Rivera, Ph.D. (Professor)	DIL CS IB	General public, pharmaceutical companies, researchers	October 1, 2014-December 31, 2019	Ended		2		16,346,364.00		Plasmid expansion using <i>E. coli</i> NovaBlue strain Propagation of induced transfected-Drosophila S2 cells
20	Exploring the molecular mechanisms underlying the stress response and interspecies interactions of the soft coral, <i>Heliopora coerulea</i>	Ma. Cecilia Conaco, Ph.D. (Assistant Professor)	DIL CS MSI	Researchers, academe	July 1, 2014-June 30, 2017	Completed	1			5,225,670.00	Atrigenio M., Aliño P, Conaco C. 2017. Influence of the blue coral <i>Heliopora coerulea</i> on scleractinian coral larval recruitment. <i>Journal of Marine Biology</i> , Volume 2017 (5 pages) Article ID: 6015143. https://doi.org/10.1155/2017/6015143 Guzman, C., Shinzato, C., Lu, T. M., Conaco, C. 2018. Transcriptome analysis of the reef-building octocoral, <i>Heliopora coerulea</i> . <i>Scientific Reports</i> , 8, 8397. DOI: 10.1038/s41598-018-26718-5 Conaco C., Cabaitan P.C. 2020. Influence of salinity and temperature on the survival and settlement of <i>Heliopora coerulea</i> larvae. <i>Marine Pollution Bulletin</i> 150. DOI: 10.1016/j.marpolbul.2019.110703 Guzman C., Atrigenio M., Shinzato C., Aliño P, Conaco C. 2019. Warm seawater temperature promotes substrate colonization by the blue coral, <i>Heliopora coerulea</i> . <i>PeerJ</i> , 2019(9). DOI: 10.7717/peerj.7785	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
21	Effects of shaped filler reinforcement on the diffusion behavior of liquids in polymer composites	Bryan Pajarito, Ph.D. (Associate Professor)	DIL CEngg Dept. of Chem Engineering	Researchers, materials industry	July 1, 2014-August 31, 2016	Completed	5			2,893,000.00	Pajarito, B. B., Dang-Awan, D. F., Felipe, M. A. A., & Handa, K. C. (2016). Desorption behavior of epoxy/amine-coated polyester triangular bar composites pre-exposed to acid environment. <i>Materials Science Forum</i> , V, 3-7. Pajarito, B. B., Dang-Awan, D. F., Felipe, M. A. A., & Handa, K.C. (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.	
EIDR Program 05												
22	Development of a nanoparticle-based biosensor for the rapid detection of <i>Escherichia coli</i> O157:H7 Strain Sakai	Lilia Fernando, Ph.D. (Assistant Professor)	LB NIMBB BIOTECH	General public, meat producers, government agencies, researchers	November 1, 2014-October 31, 2016	Ended				2,499,800.00		
23	Protein engineering of the major storage protein of mungbean enhanced with bioactive peptides exhibiting hypocholesterolemic activity	Mary Ann Torio, Ph.D. (Associate Professor)	LB CAS Institute of Chemistry	Researchers	July 10, 2015-July 9, 2019	Ended	3	4	1	10,000,000.00		Submitted a manuscript to KIMIKA for review.
24	Automated constructions of phylogenetic trees and networks of languages in the greater central Philippines by a feature-sensitive metric	Marianne Roque, Ph.D. (Associate Professor)	DIL CS Institute of Mathematics	Academe, researchers	June 8, 2015-March 7, 2019	Ended	6	2		9,393,000.00		
25	Anthropological, mathematical symmetry and technical characterization of Cordillera textiles	Analyn Salvador-Amores, Ph.D. (Associate Professor)	BAG CSS Dept. of Social Anthropology	Researchers, academe, indigenous communities	April 1, 2016-May 31, 2019	Ended				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
26	Mathematical analysis of climate-based malaria transmission model with age-structured population	Joel Addawe, Ph.D. (Associate Professor)	BAG CS Dept. of Mathematics and Computer Science	Researchers, academe	July 15, 2015-July 14, 2017	Ended		2	1	1,018,280.00	Addawe, J., & Pajimola, A. K. (2016). Dynamics of climate-based malaria transmission model with age-structured human population. <i>AIP Conference Proceedings</i> 1782, Article no. 040002-1-040002-7. https://doi.org/10.1063/1.4966069 Magsakay, C. B., De Vera, N. U., Libatique, C. P., Addawe, R. C., & Addawe, J. M. 2017. Treatment on outliers in UBJ-SARIMA models for forecasting dengue cases on age groups not eligible for vaccination in Baguio City, Philippines. <i>AIP Conference on Quantitative Sciences and Its Applications (ICOQSA 2016)</i> AIP Conf. Proc. 1782: 040002-1-040002-7 https://doi.org/10.1063/1.4966069 . Libatique, C. P., Pajimola, A. K. P., Addawe J. M. 2017. Bifurcation analysis of dengue transmission model in Baguio City, Philippines. <i>AIP Conference proceedings</i> 1905, Issue 1, pp. 030023.	Presentations in international and national conferences Addawe J. 2016. Mathematical Analysis of Dengue Transmission Model. Multi-stakeholders Forum to Flight Against Dengue. Cordillera Regional Health Research and Development Consortium. University of the Cordilleras Theater, Baguio City. Addawe J. 2016. Introduction to Modelling Vector-borne Diseases. Integration, application and extension of knowledge through enhancement of researchers in science, technology, engineering, agriculture and mathematics in attaining sustainable development. DOST Central Luzon Campus. Clark Freeport Zone, Pampanga. Addawe J. 2016. An Age-structured malaria transmission model. International Conference in Mathematics and Computational Modeling of Biological Systems. UP Diliman-DLSU Manila, Philippines

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																				<p>Addawe J. 2017. Modeling the Warmer Temperature in the Dynamics of Dengue Transmission. 2017 Mathematical Modeling National Conference. CICS Conference Hall, Cagayan State University, Tuguegarao City.</p> <p>Libatique, CP. 2017. Bifurcation analysis of dengue transmission model in Baguio City, Philippines. 13th IMT-GT International Conference of Mathematics, Statistics and Its Applications (ICMSA 2017). Universiti Utara Malaysia, Kedah, Malaysia. Poster Presentation</p> <p>Addawe J. and Libatique C. 2016. Mathematical Analysis of Climate-based Mosquito-borne Disease Transmission Model with Age-structured Human Population. 2016 UP OVPAA Research Symposium, National Institute of Physics, UP Diliman, Quezon City.</p>
27	The analysis of Bernoulli free boundary problem using the velocity method and second-order perturbation of identity technique	Jerico Bacani, Ph.D. (Associate Professor)	BAG CS Dept. of Mathematics and Computer Science	Researchers, academe	August 1, 2014-July 31, 2016	Completed		1		2,090,560.00	<p>Bacani, J. B., & Rabago, J. F. T. (2015). On the second-order shape derivative of the Kohn-Vogelius objective functional using the velocity method. <i>International Journal of Differential Equations</i>, Article ID 954836.</p> <p>Bacani, J. B., & Peichl, G. (2016). The second-order eulerian derivative of a shape functional of a free boundary problem. <i>IAENG International Journal of Applied Mathematics</i>, 46, 425-436.</p> <p>Rabago J.F.T., Bacani J.B. 2017. Shape optimization approach to the Bernoulli problem: A Lagrangian formulation. <i>IAENG International Journal of Applied Mathematics</i>, 47(4), 417-424.</p> <p>Rabago, J. F. T., & Bacani, J. B. 2018. Shape Optimization approach for solving the bernoulli problem by tracking the neumann data: a lagrangian formulation. <i>Communications on Pure and Applied Analysis</i>, 17, 2683-2702. DOI: 10.3934/cpaa.2018127</p>	<p>Presentations in international and national conferences</p>								
28	Overexpression, purification and characterization of a recombinant thermo-stable endoglucanase for effective hydrolysis of lignocellulosic materials	Richard Tambalo, Ph.D. (University Researcher)	LB BIOTECH	Fuel industry, researchers	November 1, 2014-October 31, 2016	For termination				2,500,000.00	<p>Tambalo, R. D., Raymundo, A. K., Grunden, A. M. 2020. Thermostable endoglucanase gene derived by amplification from the genomic DNA of a cellulose-enriched mixed culture from mudspring water of Mt. Makiling, Laguna, Philippines. <i>World Journal Microbiology and Biotechnology</i>, 36(3):51. https://doi.org/10.1007/s11274-020-02825-2.</p> <p>Tambalo, R. D. & Raymundo, A. K. 2020. Characterization of a recombinant endoglucanase from a clone derived from a mixed culture from Mudspring Water of Mt. Makiling, Laguna. <i>Philippine Science Letters</i> 7(13)</p> <p>Invention Disclosure. 6 November 2018 approved for 2nd phase in UPLB OTTE. "A recombinant thermo-acid stable endoglucanase for potential application in the high temperature-dilute acid hydrolysis of lignocellulosic materials"</p>									
29	Development of scale-up production methodologies for recombinant enzymes towards commercialization	Roberta Garcia, Ph.D. (Associate Professor)	LB CA Institute of Plant Breeding	Farmers, researchers, industry	April 1, 2015-March 31, 2019	Ended		1		9,358,900.00										
EIDR Program 06																				
30	Philippine performance archive: Ritual, dance, theatre	Judy Celine Ick, Ph.D. (Professor)	DIL CAL Dept. of English and Comparative Literature	Academe, students	March 8, 2016-March 7, 2018	Completed	2	6		19,715,132.00	<p>Tiatco, S. A. P. 2017. The Contemporary in Metropolitan Manila Theatre: Derivatives, Entangled and the Social problem play. In Patricia Tumang (Ed.), <i>Art Archive 01: A collection of essays on the visual and performing art</i>, (pp. 50-55). Manila: The Japan Foundation, (Ebook: http://jfm.org.ph/events-and-courses/art-archive-01/)</p> <p>Tiatco, S. A. P., Javier, J. R., & Landicho, M. 2018. The Palo-palo in Batanes, Philippines: From colonial legacy to a performance of solidarity and friendship. <i>Asian Theatre Journal</i>, 35 (1), 1-18.</p> <p>Tiatco, S. A. P., Javier, J. R., & Viray, B. L. 2018. Chapter 3: The Philippine Performance Archive on Cultural Performances: The Archive as a Performative Cultural Memory and Pedagogy. In Ann Wing-bo Tso (Ed.), <i>Digital Humanities and New Ways of Thinking</i>. New York City: Springer.</p> <p>Tiatco, S. A. P., Javier, J. R., & Viray, B. L. 2018. From Revolution to Figuration: A genealogy of protest performances in the Philippines. In Peter Eckersall and Helena Grehanthe (Eds.), <i>Routledge Companion to Theatre and Politics</i>. New York and London: Routledge.</p> <p>Tiatco, S. A. P., Javier, J. R., Viray, B. L. 2019. The Philippine performance archive on cultural performance: Archive as performative cultural memory and pedagogy or the transformation of the archive into repertoire. <i>Digital Culture and Humanities: Challenges and Developments of a Globalised Asia</i>.</p> <p>Azaron, B. 2017. The Body in Faith and Tradition, <i>UP Dates Magazine</i>, 4(2).</p>	<p>Philippine Performance Archive project</p> <ol style="list-style-type: none"> 1. Ick, Judy Celine. "The Forests of Silence: Global Shakespeare in the Philippines, the Philippines in Global Shakespeare" <i>Shakespeare 71</i> (September 2018), pp. 26-34. 2. Ick, Judy Celine. (Forthcoming 2018) "Shakespeare in the Philippines" <i>The Stanford Global Shakespeare Encyclopedia</i>. Stanford: Stanford University Press. (http://www.sup.org/Shakespeare/) 3. Ick, Judy Celine. (Forthcoming 2019) "When All the World's a Digital Stage: Transmedial Shakespeare and Translational Pedagogy," <i>Routledge Handbook of Shakespeare and Global Appropriation</i>. Ed by Christy Desmet, Sujata Iyengar, and Miriam Jacobson, New York; Routledge. 4. Tiatco, Sir Anril and Bryan L. Viray. (Forthcoming, 2019). "From Revolution to Figuration: A Genealogy of Protest Performances in the Philippines." In <i>Routledge Companion to Theatre and Politics</i>, ed. by Peter Eckersall and Helena Graham. London and NY: Routledge. 5. Tiatco, Sir Anril P. (Forthcoming, 2019). <i>Panata, Pagtitipon, Pagdiriwang: A Preliminary Contextualization of Cultural Performances in the Philippines</i>. <i>Humanities Diliman</i> 16 (1). 6. Retana, Wenceslao E. <i>Noticias Historico-bibliograficas de el</i> 								

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											Tiatco, S.A.P. 2019. Panata, pagdiriwang: Preliminary contextualization of cultural performances in the Philippines. <i>Humanities Diliman</i> , 16(1).	teatro em Filipinas desde sus origins hasta 1898 (1909) translated by Prof. Anna Maria Yglopaz. 7. Barrantes, Vicente. El Teatro Tagalo (1889). Translated by Prof. Elvin Ebreo.
31	Molecular and culture-based characterization of bacterial community from Manleluag Alkaline Spring in Pangasinan	Nacita Lantican, Ph.D. (Assistant Professor)	LB CAS Institute of Biological Sciences	Researchers	December 16, 2015- December 15, 2017	Ended	1	2		473,016.00 *2,976,005.00	Manalang, A. P., Montecillo, A. D., Berdos, L. M. G., Bonto, E. F. M., Paz, M. G. Q., & Lantican, N. B. 2019. Draft Genome Sequence of <i>Bacillus lehensis</i> M136, Isolated from MH Sprig in Pangasinan. <i>Microbial Resource Announcements of the American Society for Microbiology</i> , 8(13). DOI: 10.1128/MRA.00029-19 Bonto, E. F. M., Diaz, M. G. Q., & Lantican, N. B. 2019. Draft genome sequence of <i>Bacillus lehensis</i> M136, Isolated from Manleluag Hyperalkaline Spring in Pangasinan, Philippines. <i>Microbial Resource Announcements of the American Society for Microbiology</i> , 8, (13).	1. Collection of bacteria which can produce enzymes and/or bioactive compounds of industrial importance; 2. Experimental protocol on next-generation sequencing of metagenomic 16S rDNA for bacterial community profiling. 3. Experimental protocol on metaproteomic analyses of bacterial communities. Bioinformatic analyses pipeline for next-generation sequencing and metaproteomic data. 4. Laboratory-scale optimization and production, and downstream processing protocols for enzymes and/or bioactive compounds
32	Creating cost-effective sensors and devices to understand climate change in the Philippines using archaeological and present data	Elmer Estacio, Ph.D. (Professor)	DIL CS NIP	Researchers, academe	March 21, 2016- March 20, 2019	Ended	7	1	1	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-phase-matched nonlinear optical detection and generation of terahertz radiation via GaAs with metal-coating. <i>Optic Express</i> , 24(22), 24980-24988. DOI: 10.1364/OE.24.024980 Delos Santos, R., Ozawa, S., Mag-usara, V., Azuma, S., Tuico, A., Copa, V., Salvador, A., Yamamoto, K., Somintac, A. S., Kurihara, K., Kitahara, H., Tani, M., & Estacio, E. S. 2016. Cherenkov-type generation and detection of terahertz radiation in a GaAs with metal-coat structure. Presented at the 2016 41st International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THZ), Bella Center, Copenhagen. Bardolaza, H. R., Vasquez, J. D. E., Delos Reyes, A. E., Lopez, L. P., Jr., Somintac, A. S., Salvador, A. A., Estacio, E. S., & Sarmago, R. V. 2018. Temperature dependence of THz emission and junction electric field of GaAs - AlGaAs modulation - doped heterostructures with different i-AlGaAs spacer layer thicknesses. <i>Journal of Materials Science: Materials in Electronics</i> , 1-7. delos Santos R., Mag-usara V., Tuico A., Copa V., Salvador A., Yamamoto K., Somintac A., Kurihara K., Kitahara H., Tani M., Estacio E. 2018. Metal-coated <100> cut GaAs coupled to tapered parallel-plate waveguide for Cherenkov-phase-matched terahertz detection: Influence of crystal thickness. <i>Journal of infrared, Millimeter, and Terahertz Waves</i> , 39, 514-520. DOI: 10.1007/s10762-018-0487-1	Submitted manuscript 1. "117-Year climatology of Manila, Philippines" (submitted to Urban Climate) Other Publications 1. Bagtasa G., Yuan C.-S. 2020. Influence of local meteorology on the chemical characteristics of fine particulates in Metropolitan Manila in the Philippines. <i>Atmospheric Pollution Research</i> , 11(8), pp. 1359-1369. DOI: 10.1016/j.apr.2020.05.013 2. Barretto-Tesoro, G., Hernandez, 2017. Power and Resilience: Flooding and occupation in a late-nineteenth century Philippine town. <i>Frontiers of colonialism</i> , 149-178. (Book Chapter)
											Cafe A.I., Bacao M., Tugado C., De Los Reyes A., Faustino M.A., Lopez L., Jr., Hernandez V., Mabanag M., Lipardo I., Tesoro G.B., Estacio E.S. 2020. Terahertz transmission spectroscopy of soil minerals for geoarchaeological evaluation of sediments excavated from Pinagbayanan Batangas Philippines. <i>Infrared Physics and Technology</i> , 111. DOI: 10.1016/j.infrared.2020.103568	
33	Ten years after the Millenium Ecosystem Assessment of Laguna de Bay: Towards a sustainable future	Ma. Victoria Espaldon, Ph.D. (Professor)	LB SESAM	General public, LGUs, LLDA, researchers, students	November 26, 2015- November 27, 2017	Ended	4			9,930,328.00 *10,130,342.60	Macuroy, J. T., Faustino-Eslava, D. V., Siababa, A. C., Espaldon, M. V. O., & Cui, L. E. 2019. Analyzing the Temporal and Spatial Trends of Water Quality and Eutrophication in Laguna de Bay, Philippines, 2000-2012. <i>Journal of Environmental Science and Management</i> , SI-1, 27-39. Elvira, M. V., de Chavez, E. R., Faustino-Eslava, D.V., Espaldon, M. V. O., & Cui, L. E. 2019. Morphological Changes in <i>Corbicula fluminea</i> (Muller 1774) Shells from Laguna de Bay, Philippines Due to Elevated Nitrate and Hexavalent Chromium. <i>Journal of Environmental Science and Management</i> , SI-1, 40-57.	1. Mentoring of graduate students from UP NIGS and UPLB SESAM 2. Hosting of three fellows from the Pan Asia Risk Reduction Fellowship Program 3. Convened a science and policy forum with the Laguna de Bay stakeholders 4. Elvira M.V., Faustino-Eslava D.V., Fukuyama M., de Chavez E.R. C., Padrones J.T. 2020. Ecological risk assessment of heavy metals in the bottom sediments of Laguna de bay, Philippines. <i>Mindanao Journal of Science and Technology</i> , 18(2), pages 311-335.
34	Conus structural exogenomics program	Arturo Lluisma, Ph.D. (Professor)	DIL CS MSI	Researchers	December 1, 2015- May 31, 2018	Completed		9	1	9,385,376.00	Mendoza, C. B., Masacupan, D. J. M., Batocoy, D. C. R., Yu E. T., Lluisma, A. O., & Salvador-Reyes, L. A. 2019. Conomorphins Cause Paralysis in Mollusk: Critical and Tunable Structural Elements for Bioactivity. <i>Journal of Peptide Science</i> . Asuncion, X. E., Abdul-Rashid Sampaco III, A., Adorna, H., Magadia, J., Boñolan, V. P., Lluisma, A. O. 2019. Predicting the Molecular Targets of Conopeptides by using Principal Component Analysis and Multiclass Logistic Regression. <i>Philippine Journal of Science Special Issue on Genomics</i> , 148 (S1): 237-245 Itang, C. E. M. M., Gaza, J. T., Masacupan, D. J. M., Batocoy, D. C. R., Chen, Y., Nellas, R. B., Yu. E. T. 2020. Identification of Conomorphin Variants in the <i>Conus eburneus</i> Venom and the Effect of Sequence and PTM Variations on Conomorphin Conformations. <i>Marine Drugs</i> , 2020, 18, 503.	Mendoza, CB, Masacupan, DJ, Batocoy, DC, Asuncion, XE, Sampaco, AR, Vios, VS, Barghi, N, Yu-Roberto, E, Lluisma, AO, Salvador-Reyes, LS. Conomorphins: Prey specific arsenal of conus eburneus. Nature Publishing Co. (Submitted Manuscript)
35	The mass transit system in Metro Manila Region: A MTR	Ricardo Jose, Ph.D. (Professor)	DIL CS	Policy makers, LGUs, academe	October 1, 2015	Ended	6			10,075,688.00	Other Publications: Cui, L. E., Bacao, M., Tugado, C., De Los Reyes, A., Faustino, M. A., Lopez, L., Jr., Hernandez, V., Mabanag, M., Lipardo, I., Tesoro, G. B., Estacio, E. S. 2020. Terahertz transmission spectroscopy of soil minerals for geoarchaeological evaluation of sediments excavated from Pinagbayanan Batangas Philippines. <i>Infrared Physics and Technology</i> , 111. DOI: 10.1016/j.infrared.2020.103568	1. MOA with National Archives of the Philippines (NAP) 2. MOA with National Archives of the Philippines (NAP)

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	Manila: From tranvia to MRT, 1879-2014	(Professor)	CSSP Third World Stud	LGUs, national agencies, academe, general public	2015-December 30,2017							Reyes M.P.P. 2018. Producing Ferdinand E. Marcos, the scholarly author. Philippine Studies: Historical and Ethnographic Viewpoints 66(2), pp.173-218. DOI: 10.1353 /phs.2018.0017	2. Launched a video documentary entitled "Tranvia: Ang Mga Riles ng Kamaynilaan" 3. Presentations in international and national conferences
36	<i>In vitro release properties and in vivo biochemical activities of microencapsulated anthocyanin extracts prepared with duhat (Syzygium cumini (L.)) and bignay (Antidesma bunius (l) Spreng)</i>	Florendo Flores, Ph.D. (Associate Professor)	LB CA Institute of Food Science and Technology	General public, health practitioners, food processing industry, fruit industry, academe, researchers	February 1, 2016- January 31, 2018	Ended				3,374,136.00 *3,148,624.00		Belan, D. L., Mopera, L. E., & Flores, F. E. 2019. Development and characterisation of active antioxidant packaging films. International Food Research Journal, 26(2): 411-420. Flores, F. E., & Kong, F. 2017. In vitro release kinetics of microencapsulated materials and the effect of food matrix. Annual Review of Food Science Technology, 8, 237-259. https://doi.org/10.1146/annurev-food-030216-025720 Flores, F. E. & Kong, F. 2017. Encapsulation techniques for Anthocyanins. In Marianne Su-Ling Brooks, Giovana B Celli (Eds.), Anthocyanins from natural sources: Exploiting targeted delivery for improved health (pp.247-281). Cambridge: Royal Society of Chemistry. https://doi.org/10.1039/9781788012614-00247	
37	Data science and society: Application in public education	Clarissa David, Ph.D. (Professor)	DIL CMC	Academe, students	October 20, 2015- October 19, 2018	Ended	9	4	1	8,955,796.00		David, C. C., Monterola, S., Paguirigan, A., Legara, E. T., Tarun, A. B., Batac, R. C. & Osorio, M. J. 2018. School hazard vulnerability and student learning. International Journal of Educational Research, 92, 20-29. Rubio, L. J. M., Dañlisan, D. N., Osorio, M. J. P., David, C. C., & Lim, M. T. 2019. Modeling the residential distribution of enrolled students to assess boundary-induced disparities in public school access. PLoS ONE 14(10): e0222766. https://doi.org/10.1371/journal.pone.0222766 Ponce de Leon I, David CC, and Custodio P. Depicting Science in a Public Debate: The Philippine legal challenge against GMO eggplant. Science Communication 41 (3), pp. 291-313. DOI: https://doi.org/10.1177/1075547019846130 Ponce de Leon, I.Z., Custodio, P., David, C.C. 2019. Depicting Science in a public debate: The Philippine legal challenge against GMO eggplant. Science Communication 41(3) 291-313. https://doi.org/10.1177/1075547019846130	
38	Profiling and functional characterization of novel mutations in EFGR cellular proliferation and cell survival pathways among Filipino young-onset, sporadic colorectal cancer patients	Reynaldo Garcia, Ph.D. (Professor)	DIL CS NIMBB	General public, health/medical practitioners, researchers	November 25, 2015- November 24, 2017	Ended	2	4	1	2,207,623.00 *11,083,255.57		Out of the 51 wild type 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	
39	Forest Canopy Observation, Positioning and Investigation (Forest CANOPI) Program: Developing Forest Canopy Science in the Philippines	Nathaniel Bantayan, Ph.D. (Professor)	LB CFNR Institute of Renewable Natural Resources	LGUs, national agencies, academe, researchers	January 7, 2016- January 6, 2018	Ended	6			9,909,703.00 *10,892,983.00		1. Conducted tree inventory and detailed topographic mapping 2. Conducted the Forest Canopy Genomics Workshop 3. Presentations in international conferences	
40	Learning tourism destinations: Creating functional partnerships and initiating positive change for sustainable tourism development in local economies	Miguela Mena, Ph.D. (Professor)	DIL AIT	General public, LGUs, national agencies, academe	February 1, 2016- November 31, 2018	Ended		4		5,456,000.00		Presentations in international conferences MOA with Holy Name University	
41	Recombinant buffalo antibodies as a resource for diagnostics and therapeutics: Proof-of-concept and applications in Schistosomiasis	Rina Opuencia, Ph.D. (Assistant Professor)	LB Institute of Biological Science	health/medical practitioners, Researchers, academe	September 15, 2017- September 14, 2019	Ongoing		3		4,639,840.00			
42	Towards a molecular level understanding of essential oil-protein interactions and their applications as insect biocontrol agents	Hiyas Junio, Ph.D. (Assistant Professor)	DIL CS Institute of Chemistry	Researchers, academe	November 13, 2015- November 12, 2017	Completed	1	3		9,841,772.00 *10,159,000.00		1. Ocampo A.B., Braza M.K.E., Nellas R.B. 2020. The interaction and mechanism of monoterpenes with tyramine receptor (SoTyrR) of rice weevil (Sitophilus oryzae). SN Applied Sciences, 2 (9). DOI: 10.1007/s42452-020-03395-6 2. Braza M.K.E., Gazmen J.D.N., Yu E.T., Nellas R.B. 2019. Ligand-Induced Conformational Dynamics of A Tyramine Receptor from Sitophilus oryzae. Scientific Reports 9(1). DOI: 10.1038/s41598-019-52478-x	
43	Development of bioactive cyclotides from Philippine biodiversity	Christine Hernandez, Ph.D. (Professor)	DIL CS Institute of Chemistry	Researchers, academe	October 27, 2015- October 26, 2017	Completed		3		7,499,048.00 *7,793,007.00		Crisostomo, B. A., Atis, A. A. G., Mirano-Bascos, D. N. R., Hernandez, C. C. 2019. Identification of cysteine peptides in four Philippine plant species using mass spectrometry and transcriptome analysis. Philippine Science Letters, 12, (01), 39-61.	
44	From genes to ecosystems: Understanding fruit bat species and genetic diversity and its ecological interactions with plants in tropical lowland forests, Palanan, Isabela, Philippines	Perry Ong, Ph.D. (Professor)	DIL CS Institute of Biology	Researchers, national agencies, academe	December 18, 2015- December 17, 2017	Completed				10,351,180.00 *13,496,462.20		Duya, M. R., 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.	
												Luczon A.U., Ampo S.A.M.M., Roño J.G.A., Duya M.R.M., Ong P.S., Fontanilla I.K.C. 2019. DNA barcodes reveal high genetic diversity in Philippine fruit bats. Philippine Journal of Science 148, Special Issue 1pp. 133-140	

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45	Crowdsourced sensing for student engagement in Science Education (CrowdSSENSE)	Rheo Lamorena-Lim, Ph.D. (Associate Professor)	DIL CS Institute of Chemistry	Students, Academe	2015	Ended		3	7,723,672.00	<p>Saniel, M. B. B., Lim, L. H. V., & Lamorena, R. B. 2019. An initial study on the feasibility of using rudimentary SERS in quick chemical assessment of ambient aerosols. <i>ChemistrySelect</i>, 4(48), 14082-14090</p> <p>Lim, L. H & Lamorena, R. B. An Alternative Optical Method for Estimating Particulate Matter Concentration dubbed ROAM. The patent application was filed with TTBD0 on 12 September 2019.</p> <p>Rosales, C. M. F. & Lamorena, R. B. 2020. In silico study of possible roles of relative humidity in chemical speciation on ambient particulate matter using PHREEQC. <i>International Journal of Environmental Science and Technology</i>. https://doi.org/10.1007/s13762-021-03134-3</p>	<p>Fabrication of sensing kits from identified parts and generated design</p> <p>Paper has been accepted in the conference proceedings, CCECP 2018 Conference Proceedings; (Print ISSN: 2301-3761, E-periodical: 2301-377X) at http://chemistry-conf.org/accepted-papers/</p>
46	Bugkos: Putting equitable development at the center of the Asian Century	Antoinette Raquiza, Ph.D. (Associate Professor)	DIL Asian Center	Policy makers, LGUs, national agencies, academe, NGOs, general public	December 1, 2015- February 2, 2018			3	5,449,780.00		Public forum on comparative politics and economic development between the Philippines and Thailand
47	TiO2 based nanomaterials and nanocomposites as photoelectrocatalysts for the removal and sensing of synergistic organic pollutants	Allan Christopher Yago, Ph.D. (Assistant Professor)	DIL CS Institute of Chemistry	Researchers, academe	November 9, 2015- November 8, 2017	Ended		1	13,082,004.00 *2,534,004.00	<p>Invention Disclosure via Technology Transfer Office (OVCRD-UP Diliman) "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 TTBD0-OVCRD June 27, 2018.</p>	<p>Mentoring of 1 MS student</p> <p><u>National Conference</u></p> <ol style="list-style-type: none"> 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 Espenilla, MB, Maylem, GP, Payawan, LM, Conato. "Preparation and Properties of Transition Metal ^{III}- and Nitrogen (N)-Doped Titania Photocatalysts by Hydrothermal Synthesis" (oral presentation) 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) <u>International Conference with Peer-reviewed Proceedings</u> <p><u>Other Publications</u></p> <ol style="list-style-type: none"> 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) 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><u>Other Publications</u></p> <ol style="list-style-type: none"> Buenviaje, SC, Usman, KA, Payawan, LM. 2018. Synthesis and characterization of titanium dioxide-polypyrrole nanocomposites for the photodegradation of bromophenol blue". AIP conference proceedings 1958, 020015; published online 09 May 2018 https://doi.org/10.1063/1.5034546 Buenviaje S.C., Usman K.A.S., Edañol Y.D.G., Maylem G.P., Payawan L.M. 2020. One-pot photochemical synthesis of solution-stable TiO2-polypyrrole nanocomposite for the photodegradation of methyl orange. <i>Key Engineering Materials</i> 853KEM pp. 217- 222 . DOI: 10.4028/www.scientific.net/KEM.853.217
48	Integrative genomics analysis workbench for rice science	Jan Michael Yap, Ph.D. (Assistant Professor)	DIL CEngg Dept. of Computer Science	Farmers, researchers, industry	July 29, 2015- July 28, 2017	Ended			582,004.00 *518,443.10	Yap, J. T. 2018. Foreign Investment, the Manufacturing Sector, and Poverty: The Philippine Case. <i>Asian Politics and Policy</i> . 10, 115-136.	
49	Control aspects of the cardiovascular-respiratory system	Aurelio De los Reyes, Ph.D. (Associate Professor)	DIL CS Institute of Mathematics	General public, health/medical practitioners, researchers	August 13, 2015- August 12, 2017	Ended		1	1,620,786.00 *965,645.40	Calderon, P G. B., Habib, M., Kappel, F., & De los Reyes, A. 2017. Control aspects of the human cardiovascular-respiratory system under a nonconstant work load. <i>Mathematical Biosciences</i> , 289, 142-152.	Presentation in international conferences
50	Efficacy of copper-based hollow kapok fiber nanocomposite for environmental purification	Mary Donnabelle Balela, Ph.D. (Associate Professor)	DIL CEngg DMMME	Researchers, academe, industry	December 1, 2015- November 30, 2017	Completed		2	3,046,988.00 *2,325,614.00	<p>Canaria, M. L., Ramos, J. L., Sayson, C. M., & Balela, M. D. 2017. Growth of Hematite nanostructures in iron foil for environmental cleaning. <i>Solid State Phenomena</i>, 266 SSP, 101 -104.</p> <p>Balela, M. D., Acedera, R. A., Flores, C. L., & Peliciano, C. M. 2018. Surface modification of ZnO nanostructured film prepared by hot water oxidation. <i>Surface and Coating Technology</i>, 340, 199-209. 10.1016/j.surfcoat.2018.02.055</p>	

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																				Lacuesta, A. C., Herrera, M. U., Manalo, R., Balela, M. D. 2018. Fabrication of kapok paper-zinc oxide-polyaniline hybrid nanocomposite for methyl orange removal. Surface and Coatings Technology, 350, 971-976. DOI: 10.1016/j.surfcoat.2018.03.043	
																				Lacuesta A.C., Balela M.D., Herrera M. 2018. Fabrication of zinc oxide-polyaniline composite on kapok paper for methylene blue dye removal in aqueous solution. Key Engineering Materials, 779 KEM, pp. 137-141. DOI: 10.4028/www.scientific.net/KEM.779.137	
																				Tigno, S. D., Herrera, M. U., Balela, M. D. 2018. Hydrophobicity of functionalized TiO ₂ -based Kapok nanocomposite. Surface and Coating Technology, 350, 857-862. DOI: 10.1016/j.surfcoat.2018.04.017	
																				Balela M.D.L., Jose M.J.A. 2019. Two Step Formation of Zn Nanotubes by Wet Oxidation and Selective Etching. Journal of Physics: Conference Series, 1191(1). DOI: 10.1088/1742-6596/1191/1/012061	
																				Balela M.D.L., Amores K.L.S. 2019. Electroless deposition of copper nanoparticle for antimicrobial coating. Materials Chemistry and Physics, 225 pp. 393-398. DOI: 10.1016/j.matchemphys.2018.12.086	
																				Balela M.D.L., Intila N.M., Salvanera S.R. 2019. Adsorptive removal of lead ions in aqueous solution by kapok-polyacrylonitrile nanocomposites. Materials Today: Proceedings, 17, pp 672- 678. DOI: 10.1016/j.matpr.2019.06.349	
																				Rapadas N.J., Balela M.D.L. 2017. Hydrothermal synthesis of hierarchical hematite (α-Fe ₂ O ₃) microstructures for photocatalytic degradation of methyl orange. Philippine Journal of Science 146(4), pp. 395-402.	
51	Conduction in disordered materials in the low-frequency region	Alvin Karlo Tapia, Ph.D. (Assistant Professor)	LB CAS Institute of Mathematical Sciences and Physics	Researchers, academe	December 4, 2015- December 3, 2017	Ended	2		2,211,000.00 *291,325.00										Dahonog, L. A., & Tapia, A. K. G. 2017. Electrical properties of Al-, Cu-, Zn-rice husk charcoal junctions. IOP Journal of Physics: Conference Series 817, 012015. https://doi.org/10.1088/1742-6596/817/1/012015	Conducted a workshop on THz spectroscopy	
																				Sebastian, C. S., Herrera, M. U., & Tapia, A. K. G. 2017. Electrophoretic deposition of zinc oxide on graphite drawn on paper. IOP Journal of Physics: Conference Series 817, 012004. https://doi.org/10.1088/1742-6596/817/1/012004	Presentations in a regional conference
																				Manding, K. V., Lopez, J. E., & Tapia, A. K. G. 2018. AC conduction in polyaniline emeraldine salt-graphite pellets. Materials Science Forum, 923, 66 - 71.	
																				Dimasaka J.T., Peralta E.K., Peralta M.M., Tapia A.K.G., Madlangbayan M.S. 2018. Effect of nano-SiO ₂ from rice hull ash on the conductivity of cement paste. Emerging Materials Research 7(3), pp. 164-168. DOI: 10.1680/jemmr.18.00040	
52	On the decomposition of matrices related to symmetric or skew symmetric bilinear forms and its relation to some known matrices	Ralph John De la Cruz, Ph.D. (Assistant Professor)	DIL CS Institute of Mathematics	Researchers, academe	January 1, 2016- December 30, 2018	Ended	1		1,555,200.00											De la Cruz, R. J., Merino, D. I., & Paras, A. T. 2017. Skew phi polar decompositions. Linear Algebra and its Applications, 531, 129-140.	
																				De la Cruz, R. J., & Granario, D. Q. 2018. Product of Symplectic normal matrices. Linear Algebra and its Applications, 543, 162 - 172.	
53	Wavefront Engineering Research: Suppression of spurious diffraction orders	Paul Leonard Atchong Hilarion, Ph. D. (Assistant Professor)	DIL CEEngg EEEI	Researchers, academe	December 7, 2015- December 6, 2017	Ended			2,500,000.00												
EIDR Program 07																					
54	Philippine Studies on Primary Care-Pilot study in UP Diliman	Antonio Miguel Dans, Ph.D. (Professor)	MAN College of Medicine	General public, health/medical practitioners, researchers	December 17, 2015- October 16, 2019	Ended	1		16,013,212.00											Marfori, J. R. A., Dans, A. M. L., Bastillo, M. O. C., Paterno, R. P. P., Rey, M. P., Catabuti, J. T., & Co, E. E. A. 2019. Equity in health benefit utilization and financial risk protection in outpatient & inpatient care: Baseline survey of two socioeconomic groups of a pilot primary care benefits scheme in the catchment areas of a university-based health facility. Acta Medica Philippina, 53(1) 31-38.	Submitted article to Asia Pacific Journal of Public Health for review
																				De Mesa, R. Y. H., Galingana, C. L. T., Marfori, J. R. A., Rey, M. P., Sundiang, N. B., Celeste, J. T., Dans, L. F., & Dans, A. M. L. 2019. Impact of improved primary care on patient satisfaction: Results of a pilot study in the University of the Philippines. International Journal of Health Planning and Management https://doi.org/10.1002/hpm.2862 .	
55	Interdisciplinary research on arts and culture of the Philippines	Jose Buenconsejo, Ph.D. (Professor)	DIL College of Music Dept. of Musicology	General public, researchers, academe	December 18, 2015- May 31, 2018	Ended			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.	

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											<p>Tan, Arwin, ed. <i>Anthology of Transcultural Philippine Music</i>. 3 CD's. Quezon City: UP College of Music, 2016.</p> <p>Maranan, Ed. <i>Libretto of Diwata ng Bayan</i>.</p> <p>Sinco, Carmela. <i>Music of Diwata ng Bayan</i> (conductor's score and parts and piano-vocal score).</p> <p>Villasis, Enrique and Juan Ekis. "Original" (Text) of Putri Anak de la Peña, Verme. <i>Music of Putri Anak</i></p>
56	Multimedia and multidisciplinary teaching and learning materials	Grace Alfonso, Ph.D. (Professor Emeritus)	OU	Students, academe	October 1, 2015- May 31, 2017	Ended			9,500,000.00	<p>Other Ouputs: Philippine Arts and Culture 1. Danas na Ganap (Glecy Atienza) 2. Myth and Creative Imagination (Jose Neil Garcia) 3. Creative Writing in the Digital age (Jose Wendell Capili) 4. How I Write Stories (Jose Dalisay Jr.) 5. Manuel Conde: Defining Cinema for the Filipino (Nicanor Tiongson) 6. Film Literacy and Criticism (Roland Tolentino) 7. Sining at Nasyonalismo (Neil Doloricon) 8. Philippine Arts and Culture in the Socio-historical Context of Nation, Region, and Globalization (Reuben Cafete) 9. What is Filipino Design, or Is There One at All? (Leonardo Rosete) 10. Learning with Puppets: Educating through Theater (Amihan Ramolete) 11. Ecocriticism (Framing Disaster: Position and Tropes) (Flaudette Datuin) 12. Rizal Monuments and the Filipino Diaspora (Roberto Paulino) 13. Sosyolohiya at Sining: Sa Diwa ng Kuwentong Bayan (Clemen Aquino) 14. Cultural Performances in the Philippines (Anril Tiatco) 15. Philippine Arts and Culture/Women in the Arts (Brenda Fajardo) 16. Postcolonial Paths to Constructing the Nation/Bayan (Priscelina Patajo Legasto) 17. Pag-aapuhap sa Genoa, Pag-aapuhap ng Sarili (Luna Sicat Cleto) 18. Siyensining (Vim Nadera) 19. Ang Pelikula Bilang Lunsaran ng Makabukuhang Pagaaral at Pagsusuri ng Kasaysayan at Lipunang Filipino (Rommel Rodriguez, Yason Banal, Carlos Gabriel Pangilinan)</p> <p>Probing the Physical World 1. Fossils as Clues to Earth and Ocean History (Alyssa Alampay) 2. Marine Sponges and Climate Change (Cecilia Conaco) 3. Watershed Approaches to Integrated Local and Regional Development Planning (Rex Victor Cruz) 4. How the Philippine Island Arc System was Formed (Carla Dimalanta).</p> <p>Self and Society 1. Self and Society: Introducing Key Concepts (Josephine Dionisio) 2. Community Higher Education Engagement: Ethical Responsibility and Ethical Practice (Grace Aguilin-Dalisay) 3. Self And Society: The Philippine Context (Carolyn Sobritchea)</p> <p>Kasaysayan ng Pilipinas 1. Saan Ka, Babae? (Ma. Luisa Camagay) 2. Ang Panahon ng Kalamba: Mula Propaganda Tungong Rebelasyon (Ferdinand Llanes) 3. The Japanese Occupation: Cultural Dimension (Ricardo Jose) 4. Boat Building Traditions (Ma. Bernadette Abrera) 5. The Meaning of History (Ma. Luisa Camagay, Ferdinand Llanes, Ricardo Jose)</p> <p>Critical Perspectives in Communication 1. C4D: Alternative Communication Perspectives (Alexander Flor) 2. Philippine Critical Studies of Discourse (Alwin Aguirre) 3. The Political Economy of the Media: A Critical Perspective (Luis Teodoro) 4. Killing the Messenger (Georgina Encanto) 5. Understanding the MDC Contagion (Felix Librero) 6. Art, Science, and Ethics in Communication Study (Elena Pernia) 7. Constructing Colonial Culture by Radio (Elizabeth Enriquez)</p>	<p>Other Ouputs: Production of 100 Master Voices (multimedia materials for GE courses). Some of the videos are already available at TVUP (tvup.ph)</p> <p>VIDEOS(TVUP) Wika, Kultura, at Lipunan 1. Labintatlong Tesis Hinggil sa Wikang Pambansa (Ramon Guillermo) 2. Kung Paano Iniligaw ako ng Wikang Ingles at Paano Ko Natuklasan ang Aking Sarili Bilang Pilipinong Manunulat (Bienvenido Lumbera) 3. Wikang Filipino sa Panahon ng Internasyonalisasyon at Globalisasyon (Crisanta Flores) 4. Ang Pambansa Wika Mula Multilinggwal na Perspektiba (Ma. Althea Enriquez) 5. Bisa ng Pagsasalain sa Filipino ng mga Saliksik at Malikhang Akda (Raniela Barbaza) 6. Wika, Nasyonalismo, at Panlipunang Katarungan (Gonzalo Campoamor II) 7. Papel ng mga Wika sa Pilipinas at Ilang mga Bansa sa Pagkakaaisa, Pagunlad at Kaayusan sa Lipunan (Pamela Constantino) 8. Pagsulat at Pananaliksik sa Wikang Filipino (Luna Sicat Cleto, Clemen Aquino, Rommel Rodriguez)</p> <p>Living Systems: Concepts and Dynamics 1. Living Systems: The Ocean and Us (Rhodora Azanza) 2. What is a Species, Really? (Ian Kendrick Fontanilla) 3. Bio-Molecules and Sustainability (Lourdez Cruz) 4. Biodiversity and Drug Discovery Research on Marine Organisms from the Philippines/Tuklas Lunas - Mga Biyaya ng Dagat - Para kay Juan at Juana (Gisela Concepcion) 5. Dynamics in Population (Aimee Lyn Dupo) 6. Role of Keystone Species (Virginia Cuevas) 7. Biotechnology for Food Security (Evelyn Mae Mendoza) 8. The 3Gs: Foundation for Conserving Philippine Biodiversity (Perry Ong) 9. Science Process and Generation of Scientific Knowledge (Luis Rey Velasco)</p> <p>Math, Culture, and Society 1. Origami and Mathematics (Rene Felix) 2. Mathematics is a Language, a Tool, and a Way of Looking (Fidel Nemenzo) 3. The Cardinality of Infinite Sets (Marian Roque) 4. Hairy Balls and Donuts: Welcome to the Fascinating World of Geometry (Jose Maria Balmaceda) 5. The Math Behind Arts and Humanities (Aleli Domingo, Gary Granada)</p>

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											<p>Knowledge Festival</p> <p>1. Health Emergency Planning for Yolanda-Affected LGUs: A Multidisciplinary Approach (Phillip Ian Padilla)</p> <p>2. Promoting Rice and White Corn Combination as Food Staple for Filipinos (Artemio Salazar) 3. Project SARAI (Smarter Approaches in Reinigorating 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)</p> <p>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)</p> <p>7. Our Innovative "Lab-in- a-Mug" Technology (Raul Destura) 8. Why the Arts Should Matter (Butch Dalisay Jr.)</p> <p>9. UP BGC as Knowledge Center (Arnel Casanova)</p> <p>10. The Mind Museum (Maria Isabel Garcia) 11. Hazard Vulnerabilities of the Public School System: Communicating Data and Science (Clarissa David)</p> <p>12. Fostering and Sustaining Innovation and Creativity in an Academe-Based Research Group (Arnel Salvador)</p> <p>13. Culture, Creativity and Innovation (Alfredo Pascual) 14. Media Development of Human Capital Through Higher Education (Alfredo Pascual, Rosario Garcellano, Lour de Veyra, Joselito Yabut, Roby Alampay, Randy David, Ernesto Pernia, Butch Dalisay Jr, Edna Co)</p> <p>Taiwan Speakers</p> <p>1. Social Identity as Poor (Ma. Cecilia Gastardo-Conaco)</p> <p>2. From Experimental Marine Ecology to Complex Systems (Helena T. Yap)</p> <p>3. UP NOAH (Alfredo Mahar Lagmay)</p> <p>4. Social Entrepreneurship: Café Antonio in Los Baños, Laguna (Jabez Flores)</p> <p>5. Social Entrepreneurship: The Kasaka Makiling and Koshinero's Premium Native Lechon Way (Oliver John Gomez, Dr. Primo Garcia)</p> <p>6. Social Entrepreneurship and the Social Network Co., Ltd. (Chang Yu-Lin)</p> <p>7. Empowering People Through Kindness (Pao-Cheng "Picasso" Chen, Dr. Wu)</p> <p>8. Social Entrepreneurship (Dr. Tim Eing Ming Wu)</p> <p>9. The TK's Full House Experience (Po-Yang Liu)</p> <p>10. Involving Out-of- School Youth Through Social Entrepreneurship (Chun-Kuei Peng, Ms. Wen Hsin Lo)</p> <p>11. AgriGaia Social Enterprise (Shangla Yang, Vanessa Ying Ling)</p>	<p>Ethics and Moral Reasoning in Everyday Life</p> <p>1. Surgical Innovation: Physician and Patient Perspective (Jose Florencio Lapeña Jr.)</p> <p>2. Morality in Everyday Life (Peter Sy) 3. Moral Reasoning and Normativity (Zosimo Lee)</p> <p>4. Moral Responsibility in a Changing World (Ciriaco Sayson Jr., Peter Sy)</p> <p>Science, Technology and Society</p> <p>1. Strengthening Philippine Corn Germplasm Through Grain Quality Enhancement (Tonette Laude)</p> <p>2. Forensic DNA Technology: A Powerful Tool for Judicial Reform (Corazon De Ungria) 3. General Antonio Luna: His Doctoral Thesis and the Emerging International Research Program on Malaria (Benjamin Vallejo)</p>
57	UP wellness initiative for seniors and elders	Shelly Ann De la Vega, Ph.D. (Professor)	MAN College of Medicine	UP employees, health/medical practitioners, researchers, national agencies	October 1, 2016-September 30, 2018	Completed		4		19,820,880.00	<p>Castillo-Carandang, N. T., Abrigo, G. N. A., Visco, M. E. S., Villanueva, L. A. S., Ocampo, L. A. L., & Del Mundo, M. D. C. 2020. Aging, resilience and vulnerability of selected faculty and staff (55 years old and above) in an academic community in the Philippines. <i>Acta Medica Philippina</i> Vol 54(5)</p> <p>De la Vega, S. A. F., Ogena, N. B., Giron, M. S. T., Garcia, A. P., Pellejo, H. M., Fabito, S. J. P., & Medina, V. (2021). Active Aging Health Determinants among Working and Retired Filipino Older Persons Living in an Urban Academic Campus. <i>Acta Medica Philippina</i>. (Online) pp: 1-12, DOI: https://doi.org/10.47895/amp.vi0.2752</p> <p>Garcia A. P., De la Vega, S. A. F., Giron, M. S. T., & Fabito, S. J. P. (2021). The sensory impairments among working and retired employees with Type 2 Diabetes Mellitus in two academic communities in the Philippines. <i>Acta Medica Philippina</i>.</p> <p>Laude, T. M., De la Vega, S. A. F., Merca, E., Garcia, A. P., Torres, R., Torres, G. J., & Fabito, S. J. P. 2021. A Descriptive Study of the Nutritional and Frailty Status of Working and Retired Employees within an Academic Community in the Philippines. <i>Acta Medica Philippina</i>. Online pp: 1-10, DOI: https://doi.org/10.47895/amp.vi0.2830</p> <p>Garcia, A. P., de la Vega, S. A. F., Giron, M. S. T., Fabito, S. J. S. 2021. Visual and Hearing Impairments among Working and Retired Employees with Type 2 Diabetes Mellitus in Two Academic Communities in the Philippines. <i>Acta Medica Philippina</i></p>	
58	Promoting rice and white corn combination as food staple for Filipinos	Josefina Dizon, Ph.D. (Research Professor)	LB CPAf Institute for Governance and Rural Development	General public, researchers, NGOs, national agencies	December 15, 2015-December 14, 2017	Ended	1	1	2	13,905,000.00	<p>The program team has submitted eight (8) abstracts to the Philippine Journal of Crop Science for a special issue.</p> <p>Elca, C. D., Lapina, G. F., Velasco, D. M., Salazar, F. J., Pajadan, K. M., & Keno, L. P. 2018. Technical efficiency analysis of Flint-Type white corn production in Quezon and Cagayan provinces in the Philippines. <i>Philippine Journal of Crop Science</i>, 43 (2), 27-37.</p> <p>Purification, M. V., Pentecostes, K. Z., Beltran, A. K., Sanchez, M. A., & Salazar, A. M. 2018. Nutritional properties of Philippine farmer-bred Maize varieties. <i>Philippine Journal Crop Science</i>, 43(3), 35-36.</p> <p>Laude, T. P., Nunez, J. P., Burgonio, J. S., Diaz, R. A., Sanchez, M. A., & Salazar, A. M. 2018. Classifying farmer-bred Maize (Zea mays L.) varieties into Heterotic groups using broad-based testers. <i>Philippine Journal Crop Science</i>, 43(3), 57-66.</p> <p>Tabuac, E. B., Ilagan, J. R., Lalap, B. A., Hurtada, W. A. 2019. Effect of rice corn mix consumption on growth & nutrient intake of malnourished children. <i>Phil Journal of Crop Sciences</i>, 44(1), 1-9.</p>	

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59	University of the Philippines in the last two decades	Erniel Barrios, Ph.D. (Professor)	DIL School of Statistics	General public, researchers, academe, national agencies	January 14, 2016- December 30, 2017	Ended				5,544,424.00	
60	Reinforcing local applications of omics technology and bioinformatics	Ma. Anita Bautista, Ph.D. (Assistant Professor)	DIL CS NIMBB	Researchers, academe	January 15, 2016- July 14, 2018	Ended	1			16,615,096.00	Bautista M.A.M., Llamas J.-H.S., Sabban E.A.V., Villegas L.C. 2019. Draft genome sequences of <i>ralstonia solanacearum</i> isolated from banana and tomato in the Philippines. <i>Philippine Journal of Science</i> 148, Special Issue 1 pp. 115-132.
61	Literacy, literature and translation for people empowerment program	Roland Tolentino, Ph.D. (Professor)	DIL CMC	Researchers, academe	May 23, 2016- May 22, 2018	Ended				8,072,000.00	RAPPLER: Interview with Virgilio Almario, National Artist for Literature CALL FOR SUBMISSIONS for Bukambibig's Issue 04: 'Social Movements' RAPPLER: Interview with F. Sionil Jose, National Artist for Literature UP ICW Issues Call for Submission to an Updated Filipino Writers Database RAPPLER: Interview with Cirilo Bautista, National Artist for Literature Kritika Kultura Lecture Series presents The Archipelago as a Moving Archive: Orature and Performance in Southern Mindanao RAPPLER: Interview with Edith Tiempo, National Artist for Literature PUP Filipinohiya Serye ng Lektura ng mga Pananaliksik: Kasaysayan sa Espasyo ng Panitikan RAPPLER: Interview with Bienvenido Lumbera, National Artist for Literature Science Fiction in Focus in UP Book Forum on April 21 Alang-alang sa Alinlangan: Tiwala[g] sa Salita UP and Ateneo Professors to discuss Science Fiction in Second Interdisciplinary Book Forum on April 21 Ilang tala ng muni-muni sa 56th UP National Writers' Workshop Glimpses: One Writer's Journey: A Lecture and Reading by Luis H. Francia Panayam sa UP Los Baños: Mga Tala Kritika Kultura Lecture Series presents Antonius Herujiyanto Poetry in the City of Science 15 Fellows to the 15th Ateneo National Writers Workshop Named Ateneo Institute of Literary Arts and Practices Forum Kritika on Food Transformations: Eating and Wasting in the Anthropocene Edilberto and Edith Tiempo Creative Writing Center UP Rep's GODOT recreates chilling visit to a mental asylum UST Center for Creative Writing and Literary Studies NCCA: Pilipino Komiks Live with Darna & Dyesebel Bienvenido N. Santos Creative Writing Center NCCA: NCCA Statement on the Supreme Court Decision on the Torre de Manila Case LIRAHAN: Paglulunsad ng From the Eyes of a Healer 14th Lamiraw Workshop announces 12 workshop fellows Call for contributions to "From the Eyes of a Healer 2" UP ICW Call for Submission to Updated Filipino Writers Database Extended to June 30 Tulaan sa Liwasan sa Mayo 19 67th Carlos Palanca Memorial Awards issues call for entries; Novel and Nobela categories, open this year Panawagan para sa Kontribusyon sa Lakbay-Sanaysay
62	Communicating science and technology research and development at the University of the Philippines	Pernia, Elena (Professor)	DIL CMC	UP, policy makers, national agencies, academe, researchers,	February 1, 2016- January 31, 2019					16,516,910.90	Outputs for Society: - Banner posters, primers, animations, movie script, knowledge products, inception and year-end reports Services: - Workshops for teachers, students, LGUs, science practitioners, and media
EIDR Program 08											
63	Promoting sustainable tourism in the small islands in the visayas	Cheryl Joy Fernandez, Ph.D. (Assistant Professor)	Visayas CM	LGUs, coastal and rural communities, researchers, academe	November 2, 2017- November 1, 2019					3,702,046.40	
64	Zinc-air battery: Oxygen electrocatalyst research and prototype design and development	Joey Ocon, Ph.D. (Assistant Professor)	DIL CME	Researchers	January 29, 2018- January 28, 2020		1	6	3	2,399,124.00	Panganoron, H. O., Pascasio, J. D. A., Espacia, Jr., E. A., del Rosario, J. A. D., & Ocon J. D. 2020. Hydrothermally Carbonized waste biomass as electrocatalyst support for α -MnO ₂ in Oxygen reduction reaction. <i>Catalyst</i> , https://doi.org/10.3390/catal10020177 . Tao Zhu, Meng Nan Chong, Eng Seng Chan, Ocon, J. D. 2018. Electrochemically-synthesized tungstate nanocomposites g-WO ₃ /CuWO ₄ and g-WO ₃ /NiWO ₄ thin films with improved band gap and photoactivity for solar-driven photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> 762, 90-97 Li, G. F., Divinagracia, M., Labata, M. F., Ocon, J. D., Chuang, P. A. 2019. Electrolyte-Dependent Oxygen Evolution Reactions in AlkalineMedia: Electrical Double Layer and Interfacial Interactions. <i>ACS Applied Materials and Interfaces</i> , 11, 33748-33758 Esparcia, Jr., E. A., Chae, M. S., Ocon, J. D., Seung-Tae Hong. 2018. Ammonium Vanadium Bronze (NH ₄ V ₄ O ₁₀) as a High-CapacityCathode Material for Nonaqueous Magnesium-Ion Batteries. <i>Chemistry of Materials</i> , DOI: 10.1021/acs.chemmater.8b00462 Beronio, E. R. A., Hipolito, A. N. P., Ocon, J. D., Nakanishi, H., Kasai, H., Padama, A. B. B. 2020. Cluster size effects on the adsorption of CO, O, and CO ₂ , and the dissociation of CO ₂ on two-dimensional Cux (x = 1, 3, and 7)clusters supported on Cu(111) surface: a density functional theory study <i>Journal of Physics: Condensed Matter</i> . https://doi.org/10.1088/1361-648X/ab945d Serrao A.C.F., Del Rosario J.A.D., Abel Chuang P.-Y., Chong M.N., Morikawa Y., Padama A.A.B., Ocon J.D. 2021. Alkaline earth atom doping-induced changes in the electronic and magnetic properties of graphene: a density functional theory study. <i>RSC Advances</i> , 11 (11) pages 6268- 6283. DOI: 10.1039/d0ra08115a

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																			Lidasan J.J.B., Del Rosario J.A.D., Ocon J.D. 2020. Ethanol electrooxidation on phase-and morphology-controlled ni(OH) ₂ microspheres. <i>Catalysts</i> 10(7), pp 1-11. DOI: 10.3390/catal10070740
																			Chantaramolee B., Aspera S.M., Arevalo R.L., Arguelles E.F., Kishida R., Padama A.A.B., Kasai H., Nakanishi H. 2019. Surface compositions of Pt-Pd/Pd(111) alloys in the presence of O and OH during oxygen reduction reaction: A first-principles study. <i>Journal of the Physical Society of Japan</i> , 88(4). DOI: 10.7566/JPSJ.88.044802
65	Development of in Vivo and in Vitro Models for the Study of Endometriosis in the Philippines	Michael Velarde, Ph.D. (Associate Professor)	DIL Bio	General public, medical/health practitioners, researchers	January 2, 2018- January 1, 2020				1	1	1	9,917,464.00							Saguyod S.J.U., Alhallak I., Simmen R.C.M., Velarde M.C. 2020. Metformin regulation of progesterone receptor isoform-B expression in human endometrial cancer cells is glucose-dependent. <i>Oncology Letters</i> , 20 (5). DOI: 10.3892/ol.2020.12112
66	Structural and Prebiotic Studies of Galacto- and Hetero-Oligosaccharides formed by Lactobacillus Delbrueckii Subsp. Bulgaricus Dsm 20081 Bgalactosidase	Sheryl Lozel Arreola, Ph.D. (Assistant Professor)	LB IC	Researchers	March 1, 2018- February 29, 2020						1	3,100,000.00							1. Saguyod, SJV, Kelley, AS, Velarde, MC, Simmen, RCM.2018. Diet and Endometriosis and Pelvic Pain Disorders, 2284026518769022 in Press. Peer reviewed article 2. Saguyod S.J.U., Kelley A.S., Velarde M.C., Simmen R.C.M. 2018. Diet and endometriosis-revisiting the linkages to inflammation. <i>Journal of Endometriosis and Pelvic Pain Disorders</i> 10(2), pp. 51-58. DOI: 10.1177/2284026518769022
67	Polydopamine nanocoatings and nanoparticles research for the target beneficial applications	Guillermo Nuesca, Ph.D. (Professor)	DIL IC	Researchers	February 1, 2018- January 31, 2020						2	5	3,120,139.60						
68	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	Ricardo Sigua, Ph.D. (Professor)	DIL Eng	LGUs, Researchers, Academe	April 1, 2018- March 31, 2020						1	1	9,927,964.00						
69	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	Alonzo A. Gabriel, Ph.D. (Professor)	DIL ECON	Researchers, academe	February 1, 2018- January 31, 2019						2	1	5,000,000.00						Bayaga, C. L. T., Pico, M. B., Belano, J. I. G., Bongga, D. C., & Gabriel, A. A. 2019. Knowledge on and probiotic consumption practices of selected urban-living, low-to-middle-income class Filipino mothers. <i>Acta Medica Philippina</i> . Gabriela, A. A., Bayaga, C. L. T., Magallanes, E. A., Abaa, R. P. M, & Tanguilig, K. M. N. 2020. Fates of pathogenic bacteria in time-temperature-abused and Holder-pasteurized human donor, infant formula, and full cream cow's milk. <i>Food Microbiology</i> , 89. https://doi.org/10.1016/j.fm.2020.103450 Bayaga, C. L. T., Serrano, Y. J. A., Pico, M. B., Bongga, D. C., & Gabriel, A. A. 2020. Sociodemographic factors associated with nutrient intake of women living in urban areas. <i>Philippine Science Letters</i> , 13, 34-42.
																			Bayaga C.L.T, Tanguilig K.M.N., Aba R.P.M., Pico M.B., Gabriel A.A. 2020. Culturable micro-organisms in human milk were found to be associated with maternal weight, diet and age during early lactation. <i>Journal of Applied Microbiology</i> . DOI: 10.1111/jam.14974
																			Bayaga C.L.T, Pico M.B., Bongga D.C., Barrios E.B., Gabriel A.A. 2019. Development and evaluation of a culturally sensitive food frequency questionnaire for the assessment of prebiotic and probiotic intake of urban-living, low-to-medium-income women. <i>Philippine Journal of Science</i> 148(3), pp. 551-561.
																			Bayaga C.L.T, Pico M.B., Belano J.I.G., Bongga D.C., Gabriel A.A. 2018. Breastfeeding practices of lactating women in selected cities in metropolitan Manila. <i>Philippine Journal of Science</i> 149(3), pp. 565-570
70	Discovering the World of First Hominins in the Philippines "Geology, Paleoenvironment, Palaeoecology of Arabic Hominins in the Philippine Islands	Rebekka Volmer, Ph.D. (Assistant Professor)	DIL ASP	LGUs, Researchers, Academe	November 1, 2018- October 31, 2020	Ongoing						7	11,762,112.00						
71	Targeting Microbial Pathogens using Specialized Strategies and Bioactive Molecules of Shipworm Symbionts	Lilbeth Salvador-Reyes, Ph.D. (Assistant Professor)	DIL MSI	Researchers, Academe	2019-2021	Ongoing							19,900,552.00						
72	Biodiscovery of Marine Bioproducts: Brown Seaweeds as Potential Feed Ingredient for Animal Nutrition	Patricia Anne Nazareno, Ph.D. (Associate Professor)	CEB	Researchers, Academe	2020-2022	Ongoing							4,320,860.00						
73	Blending of Multimedia Approach and Satoyama-Satouni Principles for Building Climate Smart Communities	Nicolas Deocampo, Ph.D. (Associate Professor)	DIL FILM INSTITUTE	Researchers, Academe, Students	2020-2022	Ongoing							11,500,062.00						

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74	Digital Development, Printing on Demand and i-Distribution of "SORA" the Graphic Novel of the life of Melchora Aquino: A Perception Study of our Nation's History, Culture, Struggle for Independence and Identity of Filipino Women in the Open Distance eLearning Framework	Grace Alfonso, Ph.D. (Professor)	UPOU	Researchers, Academe, Students	2020-2022	Ongoing				9,185,749.00		
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