

# NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY PHILIPPINES

45TH ANNUAL SCIENTIFIC MEETING July 12-13 2023

THEME: "Agham at Teknolohiya para sa Demokrasya (Science and Technology for Democracy)"

Scientific Posters 2023

## BIOLOGICAL SCIENCES DIVISION

DIV #	EMAIL	AUTHORS	MAJOR	PRESENTING	AFFILIATIONS	CONTACT NO	TITLE
<b>BSD - Biology - Botany</b>							
<b>BSD-01</b>	roujlabel22672@gmail.com	Florabel P Mutia	Florabel P Mutia	Florabel P Mutia	Nueva Vizcaya State University	09685187478	Characterization of Tagulauai (Parameria laevigata(A.Juss) Moldenke)
<b>BSD-02</b>	kvmonloy@up.edu.ph	Kim Carlo Monloy, Jose Ramon Planta	Kim Carlo Monloy	Kim Carlo Monloy	National Institute of Molecular Biology and Biotechnology, UP Diliman	639603630672	Comparative analysis of tRNA gene structure and organization in plants
<b>BSD-03</b>	johndave.aquino@biology.ox.ac.uk	Tin Hang Hung, Marcel Bach-Pages, Paula Blanca G. Aquino, Gail M. Preston	John Dave C. Aquino	John Dave C. Aquino	1Department of Biology, University of Oxford, South Parks Road, Oxford OX1 3RB, United Kingdom 2University Research Center, Central Luzon State University, Science City of Munoz, Nueva Ecija 3120, Philippines	+63 9061799909	Comparative Transcriptomic Analysis of S-adenosylmethionine synthase 4 and DEAD-box ATP-dependent RNA helicase 11 Mutants Infiltrated with Bacterial Elicitor Flg22 Inducing PAMP-Triggered Immunity
<b>BSD-04</b>	koquinones@up.edu.ph	Kristine Joyce O. Quiñones, Renerio Jr. P. Gentallan, Michael Cedric B. Bartolome, Roselle. E. Madayag, Emmanuel Bonifacio S. Timog, Leah E. Endonela and Teresita H. Borrromeo	KRISTINE JOYCE O. QUIÑONES	KRISTINE JOYCE O. QUIÑONES	Institute of Crop Science, College of Agriculture and Food Science, University of the Philippines Los Baños	09091290364	De Novo Assembly of the Citrus hystrix DC. s.s. Chloroplast Genome and its Comparative Analyses with C. micrantha Wester
<b>BSD-05</b>	celestinedominique.decastro.sci@ust.edu.ph, danilo.pudolin.sci@ust.edu.ph	Maureen Sabit, Lorenzo Aguilar, McRey Balolong, Celestine De Castro, Aileen Pangan, Danilo Pudolin, Renzi Queral, Bernard Roque, Bianca Sarmiento, Gerard Velasco, Justine Zafra	Maureen Sabit	Bianca Sarmiento	University of Santo Tomas, 1008 Manila, Philippines & Research Center for the Natural and Applied Sciences, Thomas Aquinas Research Complex, University of Santo Tomas, 1008 Manila, Philippines	09693194948	Determining pollen allergenicity of Ilocos Norte residents with skin prick test
<b>BSD-06</b>	keanmaze@gmail.com	Kean Roe F. Mazo Lowell G. Aribal	KEAN ROE F. MAZO	KEAN ROE F. MAZO	Jose Rizal Memorial State University- Katipunan Campus	09055284750	DNA and Leaf Geomorphometrics Analyses of Saurauia Willd. (Actinidiaceae) in Zamboanga Del Norte

<b>BSD-07</b>	haaguinaldo@mmsu.edu.ph	Alicia Lou M. Duyao and Henedine A. Aguinaldo	Alicia Lou M. Duyao	Henedine A. Aguinaldo	College of Arts and Sciences, Mariano Marcos State University	09171864722	Embryotoxicity and Teratogenic Effects of Boton ( <i>Barringtonia asiatica</i> (L.) Kurz.) ETHANOLIC LEAF EXTRACT ON ZEBRAFISH ( <i>Danio rerio</i> )
<b>BSD-08</b>	liwayway.taglinao@cvsu.edu.ph	Christian Joshua S. Costa, Liwayway P. Taglinao, Lloyd O. Balinado	Christian Joshua S. Costa	Liwayway P. Taglinao	Department of Biological Sciences, College of Arts and Sciences, Cavite State University, Indang, Cavite	09177200834	Influence of Binahian ( <i>Breynia androgyna</i> L.) Ethanolic Leaf Extract on <i>Allium cepa</i> Root Meristem
<b>BSD-09</b>	djamae.manzanares@g.msuiit.edu.ph	Limuel M. Gonzaga and Djamae L. Manzanares	Limuel M. Gonzaga	Limuel M. Gonzaga	Department of Biological Sciences, College of Science and Mathematics, Mindanao State University – Iligan Institute of Technology	09556254637	Phytochemical Screening, Antioxidant Activity, and Cytotoxicity of Leaf and Rhizome Crude Extracts of <i>Alpinia cf. brevibras</i> collected in Luinab, Iligan City, Lanao del Norte, Philippines
<b>BSD-10</b>	christopherlrelativo@gmail.com	Christopher Relativo Lance David Maria Luisa Enal	Christopher Relativo	Christopher Relativo	Department of Mathematics and Natural Sciences, College of Arts and Sciences, Southern Luzon State University, Lucban, Quezon 4328	09983268868	Phytochemicals, Antibacterial Activity, and Toxicity of <i>Tabernaemontana pandacaqui</i> Poir. Fruit Ethanolic Extract
<b>BSD-11</b>	markarcebalnaive@jrmsu.edu.ph	Mark Arcebal K. Naive, Yhebron J. Lagud, Niels Jacobsen, Suwidji Wongso	Mark Arcebal K. Naive	Mark Arcebal K. Naive	Jose Rizal Memorial State University, Tampilisan Campus, Znac, Tampilisan 7116, Zamboanga del Norte, Philippines	+639672003667	Taxonomy and conservation of the genus <i>Cryptocoryne</i> (Araceae) in the Philippines
<b>BSD-12</b>	elgie.jimenez@g.msuiit.edu.ph, djamae.manzanares@g.msuiit.edu.ph	ELGIE A. JIMENEZ, DJAMAE L. MANZANARES	ELGIE A. JIMENEZ	ELGIE A. JIMENEZ	Department of Biological Sciences, College of Science and Mathematics, Mindanao State University – Iligan Institute of Technology, Andres Bonifacio Avenue, Tibanga, 9200, Iligan City Philippines	09386138948	Traditional Uses, Phytochemical Screening, Antioxidant Activity, and Cytotoxicity of <i>Ficus septica</i> Burm. F. Ethanolic Fruit Extract
<b>BSD - Biology - Microbiology</b>							
<b>BSD-13</b>	rachoarcjosamjose@gmail.com	Arc Josam J. Racho, Loreli Faye T. Manzano, Karyl Mae D. Ramos, James Paul T. Madigal, and Shirley C. Agrupis	Arc Josam J. Racho	Arc Josam J. Racho	National Bioenergy Research and Innovation Center, Mariano Marcos State University, City of Batac Ilocos Norte	0966-884-9378	Biodegradation Activity of Biomass Indigenous Fungi (BIF) using Nipa ( <i>Nypa fruticans</i> Wurmb) Frond Biomass under Solid-state Fermentation
<b>BSD-14</b>	cbhatta@ust.edu.ph	Chricel B. Lattao, Mary Beth B. Maningas	Chricel B. Lattao	Chricel B. Lattao	University of Santo Tomas, España, Manila 1008, Philippines	09566091293	Biofilm Inhibitory Activities of Gut Bacteria Isolated from Pacific White Shrimp ( <i>Penaeus vannamei</i> Boone, 1931) against Acute Hepatopancreatic Necrosis Disease (AHPND)-Causing <i>Vibrio parahaemolyticus</i>

<b>BSD-15</b>	zairfe.castanares.g s@ust.edu.ph	Zaire Fe Castañares, Patrick DC. Rivera, Lloyd Christian Llamas, and Allan Patrick G. Macabeo	Zaire Fe Castañares	Zaire Fe Castañares	Laboratory for Organic Reactivity, Discovery, and Synthesis (LORDS), Research Center for the Natural and Applied Sciences, University of Santo Tomas,	09279437100	Classical Taxonomy Complemented with Targeted Metabolomics: Efficient Identification Toolbox to Identify Previously Undescribed Philippine Hypoxyton Species
<b>BSD-16</b>	sdamantaring@itdi. dost.gov.ph	Sheila D.A.Mantaring1, Jan Rotsen Kyle Delos Santos2, Romulo Estrella2, John Paulo G. Jose1, Ian John L. Castro1, Melvin R. Razon1, Ursela G. Bigol1, John Paul Matthew D. Guzman1	John Paul Matthew D. Guzman	Sheila D.A. Mantaring	Environment and Biotechnology Division, Industrial Technology Development Institute, Department of Science and Technology, Bicutan, Taguig City, Philippines	09175354774	Effects of talisay ( <i>Terminalia catappa</i> L.) leaf extract on biofilm formation, vibriosis and gene expression in <i>Penaeus vannamei</i> shrimp postlarvae and its potential as a feed supplement
<b>BSD-17</b>	ldvitug@up.edu.ph	Lawrence Victor D. Vitug John Vincent R. Pleto, Loucel E. Cui, Edwin P. Herrera Jr., Ronilo Jose D. Flores, Romella T. Beringuela, Joshua G. Jomao-as, Juan Miguel D. Balatibat and Damasa M. Macandog	Lawrence Victor D. Vitug	Lawrence Victor D. Vitug	UPLB Los Banos Institute of Biology	09159303558	Emerging new records of toxin-producing cyanobacteria <i>Dolicospermum</i> and <i>Planktothrix</i> in Lake Calibato
<b>BSD-18</b>	cgbatbatan@cmu.e du.ph	Kyla L. Igar, Paolo Louis C. Dacal, Ricca Joy A. Vergara, and Christopher G. Batbatan	Kyla L. Igar	Christopher Batbatan	Department of Biology, College of Arts and Sciences, Central Mindanao University	09352866641	Lactic acid bacteria with Prebiotic and Probiotic potentials Isolated from Wild Bees and Flowers
<b>BSD-19</b>	kristinacasandra88 @gmail.com	Kristina Casandra L. Pava, Christopher G. Batbatan	Kristina Casandra L. Pava	Kristina Casandra L. Pava	Department of Biology, College of Arts and Sciences, Central Mindanao University	+639173032472	Low-Density Polyethylene (LDPE) And Polylactic Acid (PLA) – Degrading Bacteria Isolated from a Landfill In Brgy. Barobo, Valencia City, Bukidnon
<b>BSD-20</b>	mrsandiego@up.ed u.ph	Mary Ann Cielo V. Relucio-San Diego, Paul Christian T. Gloria, Marie Christine M. Obusan	Mary Ann Cielo V. Relucio-San Diego	Mary Ann Cielo V. Relucio-San Diego	Microbiological Research and Services Laboratory, Natural Sciences Research Institute, UP Diliman, Quezon City & Institute of Biology, College of Science, UP Diliman, Quezon City	09064634939	Microbial characterization of different stages of wastewater treatment in a poultry farm using 16S rDNA region metabarcoding
<b>BSD-21</b>	carino.syrjovi@clsu 2.edu.ph, sofronio.kalaw@cls u.edu.ph	Syrl Jovi Carino Sofronio Kalaw Rich Milton R. Dulay	Syrl Jovi Carino	Syrl Jovi Carino	Department of Biological Sciences, College of Science, Central Luzon State University, Science City of Munoz, Nueva Ecija, Philippines 3120	09334464807	Mycelial Growth Performance of Commercial Strain of <i>Pleurotus</i> <i>cystidiosus</i> on Corn-based substrate

<b>BSD-22</b>	oscar.estebanjr@cb sua.edu.ph	Oscar D. Esteban Jr., Shiela Marie V. Luna, Rosa Mae B. Federico, Bryan Jeff P. Mier	Oscar D. Esteban Jr.	Shiela Marie V. Luna	Central Bicol State University of Agriculture-Sipocot	09301538923	Mycelial Growth Performance of Volvariella volvacea in Taro (Colocasia esculenta) Peels and Corn (Zea mays) Husk as Alternative Culture Media
<b>BSD-23</b>	janiceaguilar919@c lsu.edu.ph, richmiltondulay@cl su.edu.ph	Janice Aguilar, Rich Milton Dulay, Sofronio Kalaw, Renato Reyes	Janice S. Aguilar	Janice S. Aguilar	Center for Tropical Mushroom Research and Development, College of Science, Central Luzon State University, Science City of Muñoz, Nueva Ecija, 3120, Philippines	09274402830	Optimization of Liquid Culture Conditions and Bioactivity Profiling of Wild Philippine Mushrooms
<b>BSD-24</b>	rbopulencia@up.ed u.ph	Alvin P. Jimenez, Rina B. Opulencia	Alvin P. Jimenez	Rina B. Opulencia	Institute of Biological Sciences, University of the Philippines Los Baños, College, Laguna	09095638429	Plasmid confers and mediates spread of multidrug resistance genes in enterobacterial species isolated from Philippine native chicken
<b>BSD-25</b>	elmarcbautista@g mail.com	Christian Elmarc Ocenar- Bautista, Celine Yssabell Claudio-Paragas, Ramon Carlo Balaoro-Banzuela, Don Enrico Buebos- Esteve, Nikki Heherson A. Dagamac	Christian Elmarc Ocenar- Bautista	Christian Elmarc Ocenar- Bautista	Department of Biological Sciences, College of Science, University of Santo Tomas, España 1008 Manila, Philippines	+639983934147	Polyphasic profiling of cellular slime molds of La Union, Philippines: Synecology, Morphogenesis, and Spatial Machine Learning Predictions
<b>BSD-26</b>	djdalmazan2019@ plm.edu.ph	Sheila D.A. Mantaring, Debrah Janssen DJ N. Almazan, Stephen Kyle C. Arcan, Nathalie L. Noval, Aracelle H. Palanca, John Paulo G. Jose, Reneelyn E. Danganan-Cutab, John Paul Matthew D.	Sheila D.A. Mantaring	Stephen Kyle C. Arcan	Environment and Biotechnology Division, Industrial Technology Development Institute, Department of Science and Technology	+639072578914	Protease-secreting Bacillus spp. from soil exhibit biofilm-inhibitory activities against Staphylococcus aureus
<b>BSD-27</b>	angelbert.cortes@c vsu.edu.ph	Kate Eunice S. Singcol, Ma. Mikaela Rose M. Trinidad, Miriam D. Baltazar and Angelbert D. Cortes	Angelbert D. Cortes	Kate Eunice S. Singcol	Department of Biological Sciences, Cavite State University	09759009174	Starter Culture Potential of Indigenous Acetic Acid Bacteria and Lactic Acid Bacteria from Wet Fermentation of Arabica (Coffea arabica L.) Coffee Cherries
<b>BSD-28</b>	angelbert.cortes@c vsu.edu.ph	Glenn Vince Navarro, Daisyree Quirong, Garrison Maghanoy, and Angelbert Cortes	Angelbert Cortes	Glenn Vince Navarro	Cavite State University	09759009174	STRESS TOLERANT PLANT GROWTH- PROMOTING RHIZOBACTERIA FROM THE COFFEE RHIZOSPHERE AS POTENTIAL BIOFERTILIZERS TO IMPROVE THE GROWTH AND YIELD OF COFFEE

<b>BSD-29</b>	bncnagal@gmail.com, lv Alvarez@pup.edu.ph	Angela Bianca N. Nagal Pauline Joy A. Jordan Ethan Mar L. Manunggay John Rey Manaquil Michael M. Manansala Roby Anne R. Bersal Irah Faye B. Garzon Chester C. Deocaris	Angela Bianca N. Nagal	Pauline Joy A. Jordan	Department of Biology, College of Science, Polytechnic University of the Philippines-Manila	09171700214	The Effect of Cultivation Time on Chitosan Production of <i>Rhizopus oryzae</i>
<b>BSD - Biology - Zoology</b>							
<b>BSD-30</b>	mcrisGcudal@gmail.com	Maricris G. Cudal, Liberty Grace L. Calimbo-Locson, Joel L. Dave and Arturo G.	Jehuel Nathan R. Daculio	Maricris G. Cudal	Zamboanga del Sur Provincial Government College-Pagadian	09384301042	Assemblages and Microhabitats of Anuran Fauna of Mount Maragang, Mount Timolan Protected Landscape, Zamboanga del Sur
<b>BSD-31</b>	mcrisGcudal@gmail.com	Maricris G. Cudal, Diosdado D. Sumibay Jr., Meraflor N. Pagaling and Jehuel Nathan R. Daculio	Liberty Grace L. Calimbo-Locson	Maricris G. Cudal	Zamboanga del Sur Provincial Government College- Pagadian	09384301042	Diet Composition of Invasive Cane Toad ( <i>Rhinella marina</i> , Linnaeus 1758) Collected from Municipalities of Ramon Magsaysay and Aurora, Zamboanga del Sur
<b>BSD-32</b>	mcrisGcudal@gmail.com	Liberty Grace L. Calimbo-Locson; Joan P. Cañete; Lovely Mae P. Rubio; Joel L. Dave; Jehuel Nathan R. Daculio	Maricris G. Cudal	Maricris G. Cudal	Zamboanga del Sur Provincial Government College-Pagadian	09384301042	Distribution and Diversity of Freshwater Fish Fauna in Mount Timolan Protected Landscape River System
<b>BSD-33</b>	jerrycuadrado90@gmail.com	Jerry T. Cuadrado	Jerry T. Cuadrado	Jerry T. Cuadrado	Surigao del Norte State University, College of Arts and Sciences, Narciso St., Surigao City, 8400 Caraga, Philippines	0906 066 5463	Distribution of Reptilian Fauna along Elevation Gradients in Andanan Watershed Forest Reserve, Philippines
<b>BSD-34</b>	aljunkt@gmail.com, marebullar.pbox@parsu.edu.ph	Aljun Kent C. Valencia, Mary Ann B. Rebullar & John Samuel P. Nuñez	Aljun Kent C. Valencia	Mary Ann B. Rebullar	N/A	09107133598	DISTRIBUTION PATTERN OF CAVE-DWELLING SPIDERS IN CULAPNIT CAVE, CARAMOAN, CAMARINES SUR
<b>BSD-35</b>	szianplaza@gmail.com	Jeszianlenn L. Plaza, Chennie L. Solania-Naling, Eve Fernandez-Gamalinda, and Romell A. Seronay	Jeszianlenn L. Plaza	Jeszianlenn L. Plaza	Department of Biology, College of Mathematics and Natural Sciences, Caraga State University	09499976255	New Distribution Records of Amphibians and Reptiles in Tinuy-an Falls Protected Landscape, Southeastern Mindanao, Philippines
<b>BSD-36</b>	corinaann.torralba@carsu.edu.ph	Corina Ann V. Torralba, Leonardo A. Estaño, and Eve F. Gamalinda	Corina Ann V. Torralba	Corina Ann V. Torralba	Department of Biology, College of Mathematics and Natural Sciences, Caraga State University, Ampayon, Butuan City, Agusan del Norte, Philippines, 8600	09099789195	Parasitological Survey of the Invasive Anuran Species in Selected Barangays of Butuan City, Agusan del Norte, Philippines

<b>BSD-37</b>	yves.paul@usep.edu.ph	Yves Paul M. Montero and Marnie Grace I. Sonico	Yves Paul M. Montero	Yves Paul M. Montero	University of Southeastern Philippines	09218115735	Terrestrial Fauna and Physicochemistry of Dats and Asbang Fak Sol Caves, Matanao, Davao Del Sur
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