

<b>SCIENTIFIC POSTERS - LIST OF ACCEPTED ABSTRACTS - MATHEMATICS AND PHYSICAL SCIENCES</b>					
<b>No.</b>	<b>Title of Abstract (Please do not use All Caps.)</b>	<b>Names of authors</b>	<b>Major Author -</b>	<b>Presenting</b>	<b>Affiliations with Addresses</b>
MPSD - 01	Adopting blueprints of nature: Marine waste-derived self-healing hydrogels for wound healing	Jolleen Natalie I. Balitaan, Chung-Der Hsiao, Jui-Ming Yeh, Karen S. Santiago	Jolleen Natalie Balitaan	Jolleen Natalie Balitaan	The Graduate School and Department of Chemistry, College of Science University of Santo Tomas, España Boulevard, Manila 1008
MPSD - 02	Antioxidant Activity of Total Carotenoids Extracted from Lemon Peels via Dual Enzyme-Assisted Extraction using Microbial Xylanase and Cellulase	Arvin Paul P. Tuaño, Audrey Dana F. Domingo, and Vyanka Teia Leeniza M. Gonzales	Arvin Paul P. Tuaño	Arvin Paul P. Tuaño	Institute of Human Nutrition and Food, College of Human Ecology, University of the Philippines Los Baños, College, Laguna; Department of Biochemistry, College of Humanities and Sciences, De La Salle Medical and Health Sciences Institute, Dasmariñas, Cavite
MPSD - 03	Aromatic Ether Bond Cleavage of Lignin Model Compound (Benzyl Phenyl Ether) Utilizing Cobalt-PDI Complexes	Mormie Joseph F. Sarno, Allan Jay P. Cardenas, Mae Joanne B. Aguila	Mormie Joseph F. Sarno	Mormie Joseph F. Sarno	Adventist University of the Philippines
MPSD - 04	Biocompatible and Antimicrobial Cellulose Acetate Nanofiber Membrane from Banana (Musa acuminata x balbisiana) Pseudostem Fibers.	Carlo M. Macaspag, Jenneli E. Caya	Jenneli E. Caya	Carlo M. Macaspag	Philippine Textile Research Institute, Gen. Santos Ave., Bicutan, Taguig City 1631
MPSD - 05	Citric Acid Crosslinked Nanofibrillated Cellulose from Banana (Musa acuminata x balbisiana) Pseudostem for the Adsorption of Pb <sup>2+</sup> and Cu <sup>2+</sup> in Aqueous Solutions	Jared Vincent T. Lacaran, Ronald Jefferson A. Narceda, Josanelle Angela V. Bilo, Julius L. Leaño Jr.	Josanelle Angela V. Bilo	Jared Vincent T. Lacaran	Philippine Textile Research Institute, General Santos Avenue Bicutan Taguig City

MPSD - 06	Evaluation of the Physicochemical and Functional Properties of Pectinase-treated Carabao Mango ( <i>Mangifera indica</i> cv. Carabao) Peel Powder	Maria Katrina Alaon, Teresita J. Ramirez, Floirendo P. Flores, Arsenia B. Sapin, Virgilio V. Garcia, May Ann O. Torio, Laurevel B. Burata	Maria Katrina N. Alaon	Maria Katrina N. Alaon	National Institute of Molecular Biology and Biotechnology, University of the Philippines Los Baños, College, Laguna, 4031; Institute of Food Science and Technology, University of the Philippines Los Baños, College, Laguna, 4031; Institute of Chemistry, University of the Philippines Los Baños, College, Laguna, 4031; Dept. of Chemical Engineering, University of the Philippines Los Baños, College, Laguna, 4031
MPSD - 07	Ferrous-based Color Modification in Silk using Aqueous <i>Terminalia catappa</i> Leaf Extract	Kimberly Viron, Simplicio Cesar G. Ercilla, Julius L. Leaño Jr.	Kimberly Viron	Kimberly Viron	Philippine Textile Research Institute, PTRI Bldg., Gen. Santos Ave., Bicutan, Taguig City 1631
MPSD - 08	Fluorescein Functionalized Cellulose Nanocrystal (CNC-FA) derived from Banana ( <i>Musa acuminata</i> cavendish) Fiber as Fluorescent Textile Marking	Josanelle Angela V. Bilo, Julius L. Leaño Jr.	Josanelle Angela V. Bilo	Josanelle Angela V. Bilo	Philippine Textile Research Institute, General Santos Avenue Bicutan, Taguig City

MPSD - 09	In Silico Studies on Enhancing Thermostability and Activity of Fructan: Fructan 1-Fructosyltransferase (1-FFT) from Jerusalem Artichoke ( <i>Helianthus tuberosus</i> L.) through Two-point Cysteine Mutations	Kui-Dong Riman, Hosea DL. Matel, Ricky B. Nellas	Kui-Dong Riman	Kui-Dong Riman	Research Center, Cavite State University - Don Severino De Las Alas Campus, Indang, Cavite Department of Physical Sciences, College of Arts and Sciences, Cavite State University - Don Severino De Las Alas Campus, Indang, Cavite Institute of Chemistry, College of Science, University of the Philippines Diliman, Quezon City
MPSD - 10	<i>Mangifera indica</i> as a potential bioindicator of atmospheric mercury pollution in a heavily industrialized region in Pagbilao, Quezon, Philippines	Maryluz O. Buensuceso, Laudimer Tye Q. Tan, Megan P. Trinidad, Alan Rodelle M. Salcedo, Cristina E. Tiangco	Cristina E. Tiangco	Alan Rodelle M. Salcedo	Research Center for the Natural and Applied Sciences, University of Santo Tomas, Espana, Manila
MPSD - 11	Preventing fish spoilage using <i>Pangium edule</i> (Pangi) bark decoction and leaf extract	Manuela Cecille G. Vicencio, Karina Milagros C. Lim, Flyndon Mark S. Dagalea, Maria Judy M. Somoray, Olga DG. Unay, and Riza Andulte	Manuela Cecille G. Vicencio	Manuela Cecille G. Vicencio	University of Eastern Philippines
MPSD - 12	Resistant Starch Content and Cooked Rice Texture of Selected Philippine Milled Rices Varying in Optimum Cooking Time and Apparent Amylose Content	Clairezelle Maclaine I. Cruz, Myrna S. Rodriguez, and Arvin Paul P. Tuaño	Arvin Paul P. Tuaño	Clairezelle Maclaine I. Cruz	Institute of Chemistry, College of Arts and Sciences, University of the Philippines Los Baños, College, Laguna 4031, Philippines

MPSD - 13	Sucrose-Capped Silver Nanoparticles as Sensor Probes for the Visual and RGB-based Detection of Hydrogen Peroxide in Aqueous Solutions	Darwin F. Reyes	Darwin F. Reyes	Darwin F. Reyes	Chemistry and Environmental Science Department, College of Arts and Sciences, Nueva Ecija University of Science and Technology, General Tinio St., Cabanatuan City, Nueva Ecija 3100
MPSD - 14	Synthesis, Antitubercular and Cytotoxic, and Molecular Docking Studies of Four Cu(II) Complexes Modified with 2,2' -Bipyridine, Imidazoline and Phenanthroline Ligands	Delfin Yñigo H. Pilapil IV, Sophia Morgan M. Tan, Justin Allen K. Lim, Mark Tristan J. Quimque, Allan Patrick G. Macabeo	Delfin Yñigo H. Pilapil IV	Delfin Yñigo H. Pilapil IV	Department of Biological Sciences, College of Science, University of Santo Tomas, 1015 España, Manila, Philippines  Laboratory for Organic Reactivity, Discovery and Synthesis (LORDS), Research Center for the Natural and Applied Sciences, University of Santo Tomas, España Blvd., 1015 Manila
MPSD - 15	A Mathematical Model and Optimal Control of Schistosomiasis in Agusan del Sur, Philippines	Jayrah Bena E. Riñon, Victoria May P. Mendoza, Renier G. Mendoza, Aurelio A. delos Reyes V, Vicente Y. Belizario Jr.	Jayrah Bena E. Riñon	Jayrah Bena E. Riñon	Department of Mathematics, College of Science, Bicol University Legazpi City, Albay
MPSD - 16	Application of Ant Colony Optimization Metaheuristic on Set Covering Problems	Christian Alvin H. Buhat, Jerson Ken L. Villamin, Genaro A. Cuaresma	Christian Alvin H. Buhat	Christian Alvin H. Buhat	Institute of Mathematical Sciences and Physics, University of the Philippines Los Banos, Philippines

MPSD - 17	Construction of Real and Complex Hadamard Matrices from Unimodular Orthogonal Quaternionic Matrix	Alexander S. Carrascal	Alexander S. Carrascal	Alexander S. Carrascal	Polytechnic University of the Philippines
MPSD - 18	Forecasting Philippine Financial Time Series Data Using Weighted Support Vector Regression Based on Quantum Finance Model	Hanna Rhae Lyssa D. Improso, Rachelle R. Sambayan	Hanna Rhae Lyssa D. Improso	Hanna Rhae Lyssa D. Improso	Institute of Mathematics, University of the Philippines Diliman, Diliman, Quezon City, Metro Manila
MPSD - 19	Induced Topologies of the Cartesian Product of Some Special Graphs II	Richard S. Lemence, Genesis John G. Borja	Richard S. Lemence	Genesis John G. Borja	Department of Mathematics, Institute of Arts and Sciences, Far Eastern University, Sampaloc, Manila
MPSD - 20	Optical Character Recognition System for Baybayin Scripts using Support Vector Machine	Rodney B. Pino, Renier G. Mendoza, Rachelle R. Sambayan	Rodney B. Pino	Rodney B. Pino	Institute of Mathematics, University of the Philippines Diliman, Quezon City, Metro Manila, Philippines
MPSD - 21	Solutions to Inverse Problems in Neutral Delay Differential Equations using Genetic Algorithm with Multi-Parent Crossover	Cristeta U. Jamilla, Renier G. Mendoza, Victoria May P. Mendoza	Cristeta U. Jamilla	Cristeta U. Jamilla	University of the Philippines Diliman - Roxas Ave, Diliman, Quezon City, Metro Manila
MPSD - 22	Coconut Fiber-Derived Multi-Layered Graphene for Thin Film Applications	Nick Aaron A. Raymundo, Jennifer B. Ricohermoso, Rogelio G. Dizon	Nick Aaron A. Raymundo	Nick Aaron A. Raymundo	Polytechnic University of the Philippines-Sta. Mesa, Manila
MPSD - 23	Selective determination of uric acid in a ternary mixture using electroactive polyaniline/graphite-based sensor	Louise Erika Z. Vargas, Jolleen Natalie I. Balitaan, and Karen S. Santiago	Louise Erika Z. Vargas	Karen S. Santiago	Department of Chemistry, College of Science; and Research Center for Natural and Applied Sciences, University of Santo Tomas, Manila 1008

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