

TABLE OF CONTENTS

POSTER SESSION

<i>Agricultural Sciences</i>	<i>Page</i>
Management Practices of Grouper Cage Culture in Negros Occidental <i>Mario N. Abeto</i>	3
Financial Analysis and Risk Assessment of Grouper Cage Culture in Negros Occidental <i>Mario N. Abeto</i>	4
The Effect of Green Mussels (<i>Perna viridis</i>) as Biolilters in the Reduction of Turbidity in Prawn Pond <i>Mario N. Abeto</i>	5
Good Aquaculture Practices at Resources Production Technology, Incorporated: Basis for Extension Services Development <i>Roger Ray S. Manzano</i>	6
Low-Volume, High-Density Culture of Milkfish (<i>Chanos chanos</i> , Forsskal) in Marine Net Cages at North Bais Bay, Oriental Negros <i>Noel N. Lebrilla and Renato H. Ganancial, Jr.</i>	7
Species Preference of Fish Pen Farmers in Ilimainaylan City: An Enriched Extension Program of Carlos Hilado Memorial State College-College of Fisheries <i>Imee R. Perante</i>	8
Fisher folk Organizations and Resource Rehabilitation: A Unified Thrust <i>Vivian D. Gayosa</i>	9
The Effect of Diet Supplementation with <i>Cnidaria Scyphozoa Aurelia</i> Soft Tissue on the Molt-Death Syndrome of <i>Scylla Serrata</i> Mud Crab <i>Raymond J. Sucgaing*, Dan R. Laurente, Ramil Bolivar,</i> <i>Joena B. Parco, Micah C. Dawal, Ryan P. Moreo</i>	10
Microwave-Assisted Extraction of Carrageenan from Red Seaweed (<i>Kappaphycus</i> Spp.) <i>Danila S. Paragas, Lilia D. Torres and Glaiza L. Bala</i>	11

Balancing Nutrient Requirements and Manure Odor Management in Growing Cobb Broilers <i>Raymond J. Sucgang, Joena B. Parco, Ramil F. Bolivar, Ryan P. Morco, Preciosa Corazon C. Pabroa, and Norman Mendoza</i>	12
The Use of the Aquatic Weed Pistia stratiotes for Earthworm and Vermicompost Production <i>Rafael D. Guerrero III and Lucyiminda A. Guerrero.....</i>	13
Yellow Corn (<i>Zea mays L.</i>) Inbred Screening for Saline Soil Tolerance <i>Jonathan C. Descalsota, Primitivo Jose A. Santos, Villanor A. Ladia and Arsenio M. Salazar</i>	14
Indigenous Knowledge Systems as Stimulus to a Better Soil Health and Bionetwork <i>Gina V. Pangga.....</i>	15
Effect of Human Geography on Soil and Ecosystem Health <i>Gina V. Pangga and Cecilia J. Baquiera</i>	16
Proportion of Phosphorus, Potassium, Zinc and Molybdenum in Relation to Corn (<i>Zea mays L.</i>) Growth on Limestone-Derived Soils <i>Apolonio M. Ocampo and Henry P. Samonte</i>	17
Developing Low Inorganic Fertilizer Recommendation for Banana cvs. Saba and Lakatan in Quezon Province <i>Nelly S. Aggangan, Edna E. Aguilar, Jose Nestor M. Garcia, Patrick M. Ricamora, Leonardo L. Tamisin, Manuel Q. Esquerre, Michael R. Noel and Louie Joseph A. Pabro</i>	18
Critical Soil Moisture Requirement of Banana cv. Lakatan (<i>Musa acuminata Colla.</i>) <i>Jose Nestor M. Garcia, Edna A. Aguilar, Kathy Loren S. Tafere, Patrick M. Ricamora, Nelly S. Aggangan, Leonardo L. Tamisin, Jr., Manuel Q. Esquerre, and Michael R. Noel, Louie Joseph A. Pabro</i>	19
Enhancing Coconut Growth and Survival in the Field with Bio-fertilizer and Bio-Organic Material Application <i>Jocelyn T. Zarate, Amihan M. Jonos, Reynaldo E. de la Cruz, Erlinda S. Paterno, Salvacion M. Budatao and Leonardo Q. Montemayor</i>	20

The Effect of Vermicompost, Mycorrhiza and Inorganic Chemical fertilizers on the Growth Parameters of Corn (<i>Zea mays</i>) <i>Jocelyn T. Zarate, Therese Angeline C. Sevilla, Ma Patricia R. Moran and Teresa May Samantha A. Labita....</i>	21
Tapping of Pili (<i>Canarium Ovatum Engl.</i>) for Sustained Resin Yield <i>Arsenio B. Ella, Emmanuel P. Domingo and Esteven D. Garcia.....</i>	22
Finally, from Weed to Crop? <i>Cassia tora L.</i> (mani-mani): Ecotypic Diversity and Utilization in Bukidnon <i>Jean E. Llauasas and Joy M. Jamago</i>	23
Phenotypic Variation in Morphological Traits, Fruit, Seed and Oil of <i>Jatropha (Jatropha curcas)</i> from Three Provenances <i>Genevieve Galapia, Shierel F. Vallesteros, Wilfredo M. Carandang and Arvin P. Vallesteros.....</i>	24
Heritability of and Relationship Among Selected Seed Traits of Three Provenances of <i>Jatropha curcas L.</i> <i>Genevieve Galapia, Shierel F. Vallesteros and Wilfredo M. Carandang</i>	25
Variation in Physiology and Water Use Efficiency among <i>Musa balbisiana</i> Genotypes in Response to Drought <i>Evelyn F. Delfin, Eureka Teresa M. Ocampo, Fe M. dela Cueva, Olivia P. Damasco, Lorna E. Herradura, Eric G. Dinglasan, Lavernee S. Guecol Felipe S. dela Cruz and Agustin B. Molina</i>	26
Differential Response of Open-Pollinated and Hybrid Tomato Varieties to PGPR Inoculation under Field Condition <i>Evelyn F. Delfin, Felicito M. Rodriguez and Erlinda S. Patemo</i>	27
Effects of <i>Jatropha curcas L.</i> , Hedgerow and Various Management Practices on the Yield of Maize and Soil Properties of an Alley Cropping System <i>Rico A. Marin, Robert G. Visco2, Arturo SA. Castillo, Rex Victor O. Cruz, Wilfredo M. Carandang</i>	28
Health Status of Banana in the National and Regional Germplasm Collections <i>Fe M. Dela Cueva, Eric G. Dinglasan, Lorna E. Herradura, Ma. Adelfa N. Lobres, Olivia P. Damasco and Agustin B. Molina</i>	29

Changes on the Antioxidant Activity and Total Phenolics Content of Different Leafy and Fruit Vegetables Affected by Storage Time and Temperature	30
Wilma A. Hurtada, Felicito M. Rodriguez and Eusebia Joy B. Mendoza.....	
Nutritional and Physical Requirements for Mycelial Growth of <i>Agrocybe cylindracea</i> (DC.: Fr.) Maire	31
Rosa Mia Cabanting, Sofronio P. Kalaw and Renato G Reyes.....	
The Effects of a Small-Scale Community Livestock Production on the Diversity of the Forest Fodder Source in an Upland Village of Batangas, Philippines	32
Jose Nestor M. Garcia and Eduardo P. Paningbatan, Jr.	
<i>Lentinus tigrinus</i> , an Addition to Newly Recorded and Successfully Propagated Wild Strain of Philippine Edible Mushroom	33
Rich Milton R. Dulay, Esperanza C. Cabrera, Sofronio P. Kalaw, Renato G Reyes and Fumio Eguchi	
The Susceptibility of the Lacewing Butterfly, <i>Cethosia biblis insularis</i> C & R Felder (<i>Nymphalidae:Lepidoptera</i>) to Cry I AB Protein	34
Bonifacio F. Cayabyab, Edwin P. Alcantara, Pablito G. Gonzales, Wilma R. Cuaterno, Blair D. Siegfried, Augusto P. Sunalde, Josenari M. Belen and Karen Andes	
Marker-Aided Transfer of Genes for β-Carotene Biosynthesis into Popular Philippine Rice Varieties	35
Antonio A. Alfonso, Jean J. Sonera, Emilie O. Espejo, Christine Jade A. Dilla, Gerald B. Ravelo, Nelson S. Garcia and Eleanor S. Avellanoza	
Application of dihaploid breeding technology in variety development and QTL mapping in rice (<i>Oryza sativa</i> L.)	36
Victoria C. Lapitan, Edilberto D. Redoña, Toshinori Abe and Darshan S. Brar.....	
PWT3 - Rwt3 Interaction Ubiquitously Involved in the Incompatibility Between an <i>Avena</i> Isolate of <i>Magnaporthe oryzae</i> and cereals	37
Christian Joseph R. Cumagun and Yukio Tosa	

Genetic Diversity, Population Structure and DNA Fingerprinting of Abaca (<i>Musa textilis</i> Nee)	
Orlex B. Yllano, Antonio Lalusin, Sheryl D. Castro, Antonio C. Laurena, and Evelyn Mae Tecson-Mendoza.....	38
Genetic Diversity and Clustering of Pineapple (<i>Ananas comosus</i> (L.) Merr.) Genotypes Using Random Amplified Polymorphic DNA (RAPD)	
Lolita DC. Valencia and Sheryl D. Castro.....	39
Characterization of Restorer and Maintainer Lines Using Morphological and SSR Markers	
Imeldalyn G. Pacada, Leah P. Coloma, Virginia P. Luciano and Alex T. Rigor.....	40
Gerplasm Collection by DNA Fingerprinting	
Jamaica P. Lota, Vivian A. Panes and Gabriel O. Romero.....	41
Antioxidant Capacity, Phenolic Content and Sensory Profile of Peanut Skin Infusions	
Maria Leonora Lotis dL. Francisco and Anna V.A. Resurreccion.....	42
Aboveground Biomass Estimation of Timber Resources in Permanent Field Laboratory Area (PFLA 2) in Mt. Makiling Forest Reserve, Philippines	
Jossa S. Baraquio, Teodoro R. Villanueva and Amelita C. Luna	43
Dynamics of Endomycorrhizas and Associated Forest Wildlings in Three Permanent Field Laboratory Areas in Mt. Makiling, Los Baños, Laguna, Philippines	
Randolph N. Candano, Nelson M. Pampolina and Amelita C. Luna	44
Detection of Episomal Banana streak badnavirus (BSV) in Philippine Musa Germplasm Collection by Immunocapture-Polymerase Chain Reaction (IC-PCR)	
Eric G. Dinglasan, Fe M. Dela Cueva, Lorna E. Herradura and Agustin B. Molina	45
Comparative Study on Population Dynamics of Major Insect Pests and Their Natural Enemies in Inbred and Hybrid Rice in Digos, Davao Del Sur, Philippines	
Gina D. Balleras and Jose R. Medina	46

A Multiplex PCR Design for the Detection of the Abaca Bunchy Top Virus (ABTV) in Leaf Samples <i>Christina Lora M. Leyson and Vermando M. Aquino</i>	47
PCR-Based Identification of Potyviruses in Infected Abaca Plants Using CODEHOP Primers <i>Katherine R. Ramirez and Vermando M. Aquino</i>	48
Minimizing Bacterial Leaf Blight and Other Diseases in Rice Using Organic Pesticide <i>Evelyn B. Gergon, Gracia B. Amar and Dan A. Saclangan</i>	49
Fusarium Ear Rot: Molecular Characteristics of the Pathogen and Host Resistance <i>Cecilia B. Pascual, Eureka Teresa M. Ocampo and Artemio M. Salazar</i>	50
Evaluation of Gamma Irradiated Abaca (<i>Musa textilis</i> Nee.) for Resistance to Abaca Bunchy Top Virus and Banana Bract Mosaic Virus Under Screenhouse Condition <i>Teodora O. Dizon, Irish T. Lobina, Olivia P. Damasco, Luciana A. Reyes and Antonio G. Lalusin</i>	51
Effect of <i>Cymbopogon citratus</i> (Lemongrass) and <i>Pandanus amaryllifolius</i> (Pandan) Infusion on Rice-Spoilage Organism <i>Bacillus cereus</i> <i>Anne Marjorie E. David and Teresita Acevedo</i>	52
Long-term Weed Management, Diversity and Abundance of Broadleaf Weeds in a Banana Plantation in Davao City, Philippines <i>Eufemio T. Rasco Jr., Richie Eve G. Ragas, Georgianna Kae R. Oguis Marcel Joshua L. Del Fierro</i>	53
Insecticide Use Impacts of Integrated Pest Management (IPM) Farmer Field Schools: Evidence from Onion Farmers in the Philippines <i>Jose M. Yorobe Jr., Roderick M. Rejesus and Michael D. Hammig</i>	54
Climate Change Mitigation in Crop Production: Developing Yellow Corn (<i>Zea mays</i> L.) Varieties for Salinity Tolerance <i>Primitivo Jose A. Santos, Jonathan C. Descalsota, Villamor A. Ladia Artemio M. Salazar</i>	55
Agricultural Liming Contributes to Global Warming <i>Wilfredo A. Dumale, Jr., Kenta Hirai, Taku Nishimura, Tsuyoshi Miyazaki and Hiromi Imoto</i>	56

Effect of Cattle Farming on Potential Groundwater Resources in Masbate, Philippines <i>Lorvi B. Pagorongan</i>	57
Climate Change Mitigation through Conservation of Angat Watershed Reservation in Luzon, Philippines <i>Dixon T. Gevaña, Florencia B. Pulhin and Rex Victor O. Cruz...</i>	58
Risks Assessment of Saltwater Intrusion <i>Loncelie B. Taclan</i>	59
Carbon Sink Potential of the Philippine Mangrove Forest <i>Dixon T. Gevaña and Sangjun Im</i>	60
Increasing Rice Productivity in Flash Flood-Prone Areas Vulnerable to Effects Of Climate Change <i>Romeo Vilamin Labios, David J. Mackill, Abdelbagi M. Ismail, Thelma R. Paris, Digna O. Manzanilla, Gina V. Vergara, Alvaro M. Pamplona and Gerlie T. Tatlonghari</i>	61
VAST-Agro: A Community-based Vulnerability and Adaptive Capacity Assessment Methodology for Various Agroecosystem <i>Amparo M. Wagan and Jose Nestor M. Garcia</i>	62
Understanding the Patterns, Drivers and Impacts of Land Use Change in Sta. Rosa Sub-Watershed <i>Damasa B. Magcale-Macandog, Jan Lloyd Balon, Kathreena Engay and Ozzy Boy Nicopior</i>	63
Aseptic Cultivation of <i>Coprinus comatus</i> in Pulp and Paper Waste <i>Renato G. Reyes, Jelly Ann Madlao, Rich Milton R. Dulay and Sofronio P. Kalaw.</i>	64
 <i>Biological Sciences</i>	
Immunostimulatory Effects of <i>Uncaria perrottetii</i> (A. Rich) Merr. (Rubiaceae) Vinebark Extract in vivo <i>Leonora P. Nudo and Elena S. Catap</i>	67
Bacterial Pathogen Isolated from White Shrimps <i>Pennaeus vannamei</i> cultured in Ilocos Norte <i>Alice Geraldine Hernando and Prima Fe R Franco</i>	68

Industrially Important Bacterial Isolates From Sweet Sorghum <i>Sorghum bicolor</i> L Moench <i>Prima Fe R. Franco, Cecile A. Gaoat and Rowena Acosta, Samuel S. Franco and Heraldo Layaoen</i>	69
Characterization of Pigment Producing Bacteria for Industrial Purposes <i>Prima Fe R. Franco, Cecile A. Gaoat and Rowena Acosta, Samuel S. Franco and Heraldo Layaoen</i>	70
Protective Effects of Formalin- and Heat- Killed <i>Aeromonas hydrophila</i> in Nile Tilapia (<i>Oreochromis niloticus</i>) Infection <i>Stephanie S. Pimentel, Phillip Sebastian, Serafin J. Golez and Eufemio Jesus R. Roldan</i>	71
Establishing the Leaf Anatomy of <i>Tamarindus indica</i> Linn. (Tamarind) and its Implication to Harsh Environments <i>Vivian S. Tolentino and Cara Paulina G. Chuidian</i>	72
Identification and Cloning of Ribosome Inactivating Protein (RIP) Genes in <i>Jatropha Pandurifolia</i> Andr. and <i>Jatropha Podagraria</i> Hook. <i>Maricel Q. Corpuz and Vivian A. Panes</i>	73
Characterization of <i>Moringa oleifera</i> Lam. Germplasm Collections in the Philippines by DNA Fingerprinting <i>Vivian A. Panes, Elaine Anne L. Tandoc, Erica E. Fortuno and Gabriel O. Romero</i>	74
The Effects of <i>Aglaia loheri</i> Blanco, <i>Aleurites moluccana</i> Linn. and <i>Ardisia pyramidalis</i> (Cav.) Pers. Plant Extracts on Hepatic Histology and Lipid Peroxidation Activity in Carbon Tetrachloride-Treated Mice <i>Elena S. Catap and Michelle Alisa DC. Ragudo</i>	75
Ampalaya (<i>Momordica charantia</i> L.) Leaf Extract as Treatment Against Non-Alcoholic Fatty Liver Disease <i>Romeo B. Rebusi, Jr. and Thucydides L. Salunga</i>	76
Diversity and Status of Butterflies Across Vegetation Types of Mt. Hamiguitan, Davao Oriental, Philippines <i>Alma B. Mohagan</i>	77
Inventory of Earthworms in Mt. Hilong-hilong Range, Agusan del Norte, Philippines <i>Alma B. Mohagan, Mary Alona L. Murro and Jayson Ibañez</i>	78

Antioxidant Property and Histological Effects of the Ethanolic Plant Extracts of <i>Ficus septica</i> Burm. f. and <i>Uncaria perrottetii</i> (A. Rich) Merr in Mice <i>Elena S. Catap and Excelle Grace M. Canonizado</i>	79
Efficacy of Formulated Anti-Mosquito Gel from Eucalyptus (<i>Eucalyptus globules</i>) and Carrageenan <i>Charie Mayne Alcon, Ma. Tereza A. Blanco and Shirley C. Agrupis</i>	80
Comparative Study On the Bioaccumulation of Lead (Pb) the Tissues of <i>Arachis pintoi</i> (Pinto Peanut) and <i>Imperata cylindrical</i> (Cogon Grass) Grown in Lead Contaminated Soil <i>Flordeliz R. Estira, Arlene Lu-Gonzales and RenJean Esmerio</i>	81
Phytochemical Screening and Evaluation of an Indigenous Plant Species, Papait (<i>Mollungo oppositifolia</i>) As a Potential Antidiabetic Plant <i>Leny I. Guillermo and Flordeliz R. Estira</i>	82
Molecular Phylogeny and a Novel Species of the Philippine Endemic Antherostele (Rubiaceae), with Implications on Its Conservation and Biochemical Properties <i>Jasper John A. Obico and Grecebio Jonathan D. Alejandro</i> ...	83
Histocompatibility Assessment in the Chicken Colonies Closed for Several Years <i>Marcos B. Valdez, Jr., Takao Namikawa , Keiji Kinoshita, Makoto Mizutani, Akira Fujiwara, Hajime Yazawa, Takahiro Yamagata and Kiyoshi Shimada</i>	84
Cloning and Sequence Analysis of Partial cDNAs of Selected Genes in Normal and Mutant 'Makapuno' Endosperms of Coconut (<i>Cocos nucifera</i> L.) <i>Reggie Y. dela Cruz, Rita P. Laude, Ma. Genaleen Q. Diaz, Antonio C. Laurena, Merlyn S. Mendioro and Evelyn Mae Teczon Mendoza</i>	85
Selection of a Suitable Internal Control Gene for Relative RT PCR-Based Expression Analysis in Normal and Mutant 'Makapuno' Endosperms of Coconut (<i>Cocos nucifera</i> L.) <i>Reggie Y. dela Cruz, Rita P. Laude, Ma. Genaleen Q. Diaz, Antonio C. Laurena, Merlyn S. Mendioro and Evelyn Mae Teczon Mendoza</i>	86

Biophysiology of <i>Panaeolus</i> spp. Associated with Dried Dung of Domesticated Ruminants <i>Excel Rio S. Maylem, Rich Milton R. Dulay, Sofronio P. Kalaw and Renato G. Reyes.....</i>	87
Morpho-Anatomical Investigation on Stipules, Colleters and Leaves of <i>Rhizophora</i> spp. in Pagapas Bay, Calatagan, Batangas, Philippines <i>Leah E. Endonela, Maribel L. Dionisio-Sese, Nestor C. Altoveros and Teresita H. Borromeo</i>	88
Functional Studies of WSSV-Shrimp Homologs by DS-RNA Interference in the Shrimp <i>Marsupenaeus japonicus</i> <i>Mary Beth B. Maningas, Hidehiro Kondo and Ikuo Hirano</i>	89
Computational Reconstruction And Characterization Of Ancestral Proteins Relevant to Prokaryotic- Eukaryotic Transition 2 Billion Years Ago <i>Ma. Angelica S. Pulido, Custer C. Deocaris, Evelyn M. Labastilla, Guia M. Guiam, Merilyn C. Pascua, Marla A. Endriga and Chester C. Deocaris</i>	90
Crustaceans as Bioindicators of Water in Labac River of Cavite <i>Dickson N. Dimero and Josefina Rodil Rint</i>	91
Procrustean Analysis of Wing Shape Divergence among Sibling Species of <i>Neurothemis</i> Dragonflies <i>Mark Anthony J. Torres, Stephenson A. Harun and Cesar G. Demayo</i>	92
Cytogenetic Analysis of Selected Native and Endemic Philippine Freshwater Fish Species <i>Roberto C. Reyes, Celia B. Dela Viña, Nathaniel T. Carpeta and Pablo P. Ocampo</i>	93
Isozyme Analysis of Selected Native and Endemic Philippine Freshwater Fish Species <i>Rita P. Laude, Roberto C. Reyes, Diana Rose O. Rogelio and Pablo P. Ocampo</i>	94
Isolation and Characterization of Microsatellites in Selected Philippine Native and Endemic Gobiidae Species <i>Aprill S. Punongbayan, Ma. Genaleen Q. Diaz, Abriel S. Bulasag, Ma. Cecilia S. Reamillo and Pablo P. Ocampo</i>	95

Cytotoxicity of Five Anti Dengue Plants Using <i>Artemia salina</i> <i>Febbee Rose D. Gamet and Doreen D. Domingo</i>	96
Taxonomic and Ecological Studies of Vascular Plants at Entrances of Selected Caves in Polillo Island, Quezon, Philippines <i>Annalee S. Hadsall, Grace Angelique F. Cariño, Ivy Amor F. Lambio, Mary Ann O. Cajano, Ariel R. Larona and Ireneo L. Lit, Jr.</i>	97
In Vitro Rooting of <i>Nepenthes truncata</i> Macf. <i>Eufemio T. Rasco Jr. and Georgianna Kae R. Oguis</i>	98
Comparative Analysis of the Elemental Composition and Fungal Diversity Along Calancaan causeway of Sta. Cruz, Marinduque <i>YJocelyn T. Zarate, Kristina Isabel Toledo and Ron Edward Jason</i>	99
Testing A Preliminary Metagenomic Approach To Screen For Alkaline Protease and Xylanase- Producing Bacteria <i>Karen G Rosal and Cynthia T. Hedreyda</i>	100
<i>Aedes aegypti</i> Life Cycle, Temperature Effects, and Dengue Fever- Dengue Hemorrhagic Fever Incidence: Climate Change Impact <i>Franco G. Teves, Jing B. Bautista, Edward Laurence Opena, Venessa Mae Bado and Aubrey Valora Dulay</i>	101
Viability of Immobilized Lactic Acid Bacteria in Different Culture Diluents and Various Coconut-based Food Products <i>Teresita J. Ramirez, Jennifer D. Saguibo, Arsenia B. Sapin, Susan A. Sedano and Mary Ann T. Tavanlar</i>	102
Effects of Mykovam, BioN and Inorganic Fertilizers on Growth, Yield and Nutrient Status of Sweet Sorghum [<i>Sorghum bicolor</i> (L.) Moench] <i>Nelly S. Aggangan, Miguel Luigi L. Calayag, Austin Japeth R. Salvan, and John Carlo Velandres</i>	103
Phosphorus and Mycorrhizal Fungi Affect Growth, Nutrient and Heavy Metal Accumulation in Transgenic Poplar <i>Nelly S. Aggangan, Sim-Hee Han, Young-Im Choi, Eun-Woon Noh and Yongsuk Lee</i>	104
DNA Barcoding of Fruit Flies <i>Bactrocera occipitalis</i> (Bezzi) and <i>Bactrocera philippinensis</i> Drew and Hancock (Diptera: Tephritidae)	

from Cavite and Davao del Norte Using the 5' Region of the Mitochondrial Cytochrome C Oxidase I (coxl) Gene <i>Michael Leonardo C. Delomen and Merlyn S. Mendioro</i>	105
Development of Probiotic Vegetable Juice Fortified with <i>Lactobacillus plantarum</i> BS <i>Jennifer D. Saguibo and Francisco B. Elegado</i>	106
Synergistic Hypoglycemic Effect of <i>Lactobacillus pentosus</i> 3G3 and Banaba (<i>Lagerstroemia speciosa</i>) on Diabetic-Induced Swiss Webster Mice <i>Jennifer D. Saguibo and Francisco B. Elegado</i>	107
Random Amplified Polymorphic DNA - Polymerase Chain Reaction (RAPD-PCR) Primer Design for the Detection of <i>Listeria monocytogenes</i> <i>Maria Teresa M. Perez, Francisco B. Elegado, Daryl Ann Steffanie G. Torralba and Joel C. Mendoza</i>	108
Construction of a Plant Expression Vector Containing the Replication Initiation Protein (Rep) Gene of the Abaca Bunchy Top Virus (ABTV) <i>Vermundo M. Aquino, Patrick Louie G. Lipio, Marylette B. Roa, Kristine Ace F. Quirante, Mary Ann Robelle L. Polido</i>	109
Sequence Analysis of the Kappa-Casein Gene of Water Buffalo (<i>Bubalus bubalis</i>) <i>Jesus Rommel V. Herrera, Amie S. Villanueva and Ester B. Flores</i>	110
Multigene-locus cpDNA Bayesian Frameworks in Resolving Conflicts within Philippine Endemic Gardenia Ellis (Rubiaceae): Implications to Taxonomy, Biodiversity and Drug Development <i>Jayson G. Chavez and Grecebio Jonathan D. Alejandro</i>	111
Antimicrobial Activity of <i>Parameria Laevigata</i> (A.L. JUSS.) Moldenke and <i>Voacanga globosa</i> (Blanco) Merr. Extracts <i>Pierangeli G. Vital and Windell L. Rivera</i>	112
Detection of White Spot Virus in <i>Penaeus monodon</i> and <i>Metapenaeus dalli</i> from Hagonoy, Bulacan <i>Rod Russel R. Alenton, Anna Dominique M. Aniag, Marie Veronica G. Bulaong, Geormae Anne K. Reblando, Annie Grace V. Urayenza, Jean Kathleen V. Yusuda and Mary Beth B. Maningas</i>	113

Immunomodulatory Effects of Dried <i>Curcuma longa</i> Powder on the Expression of Crustin and Lysozyme in <i>Macrobrachium rosenbergii dacqueti</i> <i>Jennifer R. Alambra, Rod Russel R. Alenton, Pia Clarisse R. Gulpeo, Christine L. Mecenas, Abigail P. Miranda, Rey C. Thomas, Muden Kista S. Velando, Lawrence D. Vitig and Mary Beth B. Matingas</i>	114
Unique Nucleotide Difference of Two Putative Tyl/Copia-like Long Terminal Repeat Retrotransposons of Abaca (<i>Musa textilis</i> Nee) <i>Orlex B. Yllano, Anton Lalusin, Sheryl D. Castro, Antonio C. Laurena, and Evelyn Mae Tecson-Mendoza</i>	115
A Candidate Gene Sequence for Downy Mildew Resistance in Maize <i>Hayde F. Galvez, Roanne R. Ripalda, Eden Jane U. Tongsom, Alma O. Canama, Arma Kristal B. Malijan and Desiree M. Hautea</i>	116
Yield Equation and Biomass Expansion Factor for Above Ground Carbon Density Estimation of Smallholder Tree Plantations in Northern Mindanao <i>Richmund A. Pabna</i>	117
Terrestrial Arthropods in Selected Caves of Polillo Island, Quezon, Philippines <i>Ireneo L. Lit, Jr., Sheryl A. Yap, Leonila A. Corpuz-Raros, Aimee Lynn A. Barrion-Dupo, John Mark A. Encinares, Veerle dA. San Juan, Rexele Jean F. Galvan, Phillip A. Alviola, Orlando L. Eusebio, Ariel R. Larona, Edison A. Cosico and Eduardo G. Eres</i>	118
Effects of Agrochemicals on Endomycorrhizal Dynamics for a Sustainable Soil in Tampakan Mountain Ecosystem <i>Metchie Gay R. Arnaiz, Nelson M. Pampolina and Jose Sebau</i>	119
Biosorption of Lead, Copper, Cadmium, and Mercury by Brown Seaweeds (<i>Sargassum</i> sp. and <i>Turbinaria ornata</i>) <i>Teresita R. Perez, Riel Carlo Ingeniero, Michaela Boren and Emee Tan</i>	120
The Identification of Fern Species as Metallophytes and Their Implications to Mine Rehabilitation <i>Rene Junia R. Claveria, Eryn Gayle E. de Leon and Katrina B. Teodom</i>	121

Toxicological and Histopathological Evaluations of the Effects of Synthetic Hormones – 17a-Ethinylestradiol and Levonorgestrel - on Tilapia (<i>Oreochromis niloticus</i>) <i>Emilyn Q. Espiritu, Stephanie S. Pimentel, Norman Dennis E. Marquez, Ma. Cathrina Margarita R. Roxas and Felix Antonio T. Domingo</i>	122
Variability in Forewing Venation Patterns and Genital Shapes among Four Populations of Rice Black Bugs, <i>Scotinophara</i> spp. From Mindanao, Philippines <i>Mark Anthony J. Torres, Geoffrey Reuel Q. Yañez, Christine Lovelle A. Mahinay, Gerald Manuel P. Ong, Jay Ar Esencia, Ravindra C. Joshi, Alberto T. Barrion, Leocadio S. Sebastian and Cesar G. Demayo</i>	123
Plant Diversity, Status and Conservation Initiatives in Three Mountain Ecosystems in Mindanao, Philippines <i>Victor B. Amoroso and Fulgent P. Coritico</i>	124
Species Diversity of Seagrasses in Camotes Islands, Central Philippines <i>Serapion N. Tanduyan, Ricardo B. Gonzaga and Berenice T. Andriano</i>	125
Molluscan Species Associated with Holothurian Habitats in Camotes Islands, Central Philippines <i>Serapion N. Tanduyan, Berenice T. Andriano, Ricardo B. Gonzaga, Wilfredo B. Anoos and Lourdes M Garciano</i>	126
Detection of Dermatophytes from Different Body Sites of Farmers in Selected Barangays of Amadeo, Cavite <i>Sherine M. Cruzate, Ninibeth Cupino and Yolanda A. Ilagan</i>	127
Diversity in Our Midst: The Butterfly Nectar Feeders of the Dividivi Tree, <i>Caesalpinia Coriaria</i> (Jacq) Wild at UP Los Banos, Laguna <i>Bonifacio F. Cayabyab and Genaro A. Katimbang</i>	128
Unusual Population Increase of Wooly Bear Caterpillars, <i>Spilosoma</i> Sp. (Artiidae:Lepidoptera) at Los Banos and Vicinity in 2010 <i>Bonifacio F. Cayabyab</i>	129
Some Butterflies of Boracay Island <i>Bonifacio F. Cayabyab and Edwin P. Alcantara</i>	130

Isolation and Screening for Bacteria with Amylolytic, Proteolytic and Lipolytic Activity from Pitcher Plant (<i>Nepenthes</i> sp.) <i>Erwin P. Elazequi</i>	131
An Interactive Identification Key: The Philippine Derbidae Project <i>Sheryl A. Yap and Thierry Bourgoin</i>	132
Pandan (<i>Pandanus amaryllifolius</i> Roxb.): A Promising Antidiabetic Agent <i>Graciela I. Cuaresma and Henedine A. Aguinaldo</i>	133
Taxonomic Status and Leaf Epidermal Features of Some Species of Zingiberaceae Recorded from Mindanao, Philippines <i>Florfe M. Acma and William Sm. Gruezo</i>	134
Transcript Profiling of Selected Genes in Normal and Mutant Makapuno Endosperms of Coconut (<i>Cocos nucifera</i> L.) Using Relative RT-PCR <i>Reggie Y. dela Cruz, Rita P. Laude, Ma. Genaleen Q. Diaz, Antonio C. Laurena, Merlyn S. Mendioro and Evelyn Mae Tecson Mendoza</i>	135
In Vitro Culture and Enzyme Production of Plasmodial Myxomycetes (Slime Molds) Collected from Lubang Island, Occidental Mindoro <i>Sittie Aisha B. Macabugo and Thomas Edison E. dela Cruz</i> ...	136
Functional Activities of Two Strains of <i>Pleurotus cystidiosus</i> <i>Jovita L. Movillon, Sofronio P. Kalam, Daryl Juganas and Renato G. Reyes</i>	137
The Occurrence of Mangrove Brachyuran Crabs and Observation on the Feeding Ecology of Some Taxa of the Grapsoid Families Grapsidae and Sesarmidaesensu Schubart et al. <i>Jimmy T. Masagca, Pacific Island Institute for Pedagogy, Technology, Arts and Sciences, Inc.; Catanduanes & Catanduanes State Colleges Virac 4800, Catanduanes and De La Salle University-Dasmariñas, Cavite</i>	138
Taxonomy of Vegetable Oils based on Fatty Acid Composition <i>Chester C. Deocaris and Custer C. Deocaris</i>	139

Cytotoxicity Test, and Phytochemical Screening of Crude Ethanolic and Hexane Extract of the Aerial Part of <i>Hydrocotyle verticillata</i> (WHORLED MARSH PENNYWORTH)	140
<i>Nathalie L. Daminar and Lydia M. Bajo</i>	
Systems Analysis of X-Chromosomal miRNAs and Their Target Genes Using Informatics Tools	141
<i>Ronie B. Mendoza, Custer C. Deocaris, Evelyn M. Labastilla, Marla A. Endriga and Chester C. Deocaris</i>	
 <i>Chemical, Mathematical and Physical Sciences</i>	
Discrimination of Philippine Coffee Beans Using an Electronic Nose System Based on Polymer-Coated Piezoelectric Quartz Crystal	143
<i>Sharlene R. Cabanilla and Fortunato B. Sevilla III</i>	
Electrochemical Properties of PtRuSn Ternary Electrocatalyst Dispersed on Poly (3,4-Ethylenedioxythiophene) (PEDOT) for Fuel Cell Application	144
<i>Fe Lourdes P. Suasin, Aaron John M. Supan, Bernard John V. Tongol, Harris M. Fido and Jonyl L. Garcia</i>	
A Hybrid Gas Sensor Array for the Quality Assessment of Virgin Coconut Oils	145
<i>Rey Alfred G. Rañola, Fortunato B. Sevilla III, Emelda A. Ong and Karen S. Santiago</i>	
Fish Freshness Analysis using a Polyaniline/Nylon Composite-based Chemiresistor Sensor	146
<i>Karen S. Santiago, Fortunato B. Sevilla III and Charles Patrick B. Chua</i>	
Electrochemical Synthesis and Corrosion Performance of Polypyrrole and Poly(pyrrole-co-aniline) Films on Copper	147
<i>Angeline S. Viray and Christina A. Binag</i>	
Preparation and Investigation of Spin Self-Assembled Multilayer Film of Poly(3,4-ethylenedioxythiophene):Poly(4-styrenesulfonate) and Poly(allylamine hydrochloride) as Organic Light-Emitting Diode	148
<i>Ezra Abigail C. Lapinid and Christina A. Binag</i>	

Fabrication and Characterization of Spin-Assisted and Dip-Coated PEDOT:PSS and Poly(diallydimethylammonium Chloride) Nanofilms for Organic Light-Emitting Diode <i>Maria Gabriela B. Quesada and Christina A. Buag</i>	149
Rapid Synthesis Under Mild Conditions of an Acyclic Diamide N, N'-N ¹ , N'-tetrabutylphthalamide, A Potential Antimicrobial Agent <i>Graniel Harne A. Abrenica, Valeree Ross R. Bernardo, Fiona U. Paredes and Susan D. Arco</i>	150
Effect of Pretreatment on the Structure and Catalytic Properties of Rice Hull-Derived Zeolites <i>Danila S. Paragas, Redel L. Gutierrez, Joel R. Salazar and Michael O. Gines</i>	151
Synthesis of Glycerol-crosslinked Poly(methyl methacrylate) Microparticles for the Controlled Delivery of Mosquito Repellent <i>Soma Chakraborty, Leo Albert G. Sala, Keith Michael A. Villanueva and Modesto T. Chua</i>	152
Fabrication of Electrocatalyst Based on PEDOT-PSS Supported Pd Nanoparticles for Ethanol Electro-oxidation <i>Maria Ivona F. Climaco, Giovanna Janina D. Telan, Frederick M. Malijan, Bernard John V. Tongol, Jonyl L. Garcia and Harris M. Fulpo</i>	153
Nanowire Formation and Polymer Conformations of Electropolymerized Poly(3,4 ethylenedioxythiophene) (PEDOT) on Iodine-Modified Au(111) Single Crystal Electrode as Probed by In-Situ STM <i>Lorico DS. Lapitan, Jr., Bernard John V. Tongol and Shueh-Lin Yau</i>	154
Microwave-Assisted Reaction: A Cleaner and Efficient Method for the Synthesis of Indazoles and Benzimidazoles <i>Evelyn C. Creencia and Takuaki Horaguchi</i>	155
Method Validation for the Determiniation of Iodine in Urine by Ammonium Persulfate Digestion with Spectrophotometric Detection of the Sandell-Kolthoff Reaction <i>Michael E. Serafico, Joselita Rosario C. Ulanday and Leah A. Perlus</i>	156
Determination of Trans Fatty Acid in Virgin Coconut Oil and Other Fats and Oils by Gas Chromatography <i>Rosemarie J. Dumag, Julita G. Arlenia, Marco P. De Leon and Teresita R. Portugal</i>	157

Method Validation of Plasma or Serum Retinol Analysis using High Performance Liquid Chromatography UV/Vis Detection <i>Phoebe Z. Trio and Joselita Rosario C. Ulanda</i>	158
Analysis of Ecstasy in Human Urine by High Performance Liquid Chromatography <i>Jason Paul C. Monlinong, Ma. Cristina B. Portilla, Gian Carlo P. Reyes and Cherrie B. Pascual</i>	159
Chromatographic Analysis of Ketamine and Norketamine in Human Plasma and Urine Samples <i>Cherrie B. Pascual, Ma. Cristina B. Portilla, Jason Paul C. Monlinong and Bettina Sia</i>	160
Halogen-free, Imidazolium Based Ionic Liquids for Organic and Inorganic Syntheses <i>Susan D. Arco</i>	161
Elemental and Isotopic Characterization of Japanese and Philippine Polished Rice Samples using Instrumental Neutron Activation Analysis and Isotope Ratio Mass Spectrometry <i>Preciosa Corazon B. Pabroa, Mitsuro Ebihara, Raymond J. Sucgang and Norman dS. Mendoza</i>	162
The Average of the mth Power of Lm Norm of Zero-One Polynomials on the Boundary of the Unit Disc <i>Alnar L. Detalla, Braulio D. Peñalosa and Megan Regine B. Juan</i>	163
Secure Domination in a Network: A Protection Strategy <i>Sergio R. Canoy, Jr. and Carmelito E. Go</i>	164
Convex Domination in the Composition and Cartesian Product of Graphs <i>Mhelmar A. Labendia and Sergio R. Canoy, Jr.</i>	165
Vertex Cover of Some Supergraphs of Planar Grid <i>Joselito A. Uy</i>	166
On the Maximum of Generalized Stirling Numbers of the First Kind <i>Roberto B. Corcino and Cristina B. Corcino</i>	167
On p,q-Difference Operator <i>Charles B. Montero and Roberto B. Corcino</i>	168

Some Characterizations of the Direct Product of Gassmann Triples <i>Kenneth P. Perez and Jocelyn P. Viteila</i>	169
The Minimal Closed Geodetic Numbers of Graphs <i>Imelda S. Aniversario and Ferdinand P. Jamil</i>	170
The Quantum Propagator of the Harmonic Oscillator with Damping: A White Noise Path Integral Approach <i>Ryan John A. Cubero and Jinky B. Bornales</i>	171
Surface Modified Zinc Oxide: A Potential Smoke Sensor at Ambient Condition <i>Joy Cristy S. Piagola, Jess E. Gambe and Reynaldo M. Vequiza</i>	172
The Effect of Adhesion Force on Cell Elastic Modulus <i>Lara Gay M. Villaruz, Christopher Bernido, Ma. Victoria Carpio-Bernido, Roland Otadoy and Rommel Bacabac</i>	173
High Resolution Probing of Elastic Properties of Biopolymers and Living Cells <i>Rommel G. Bacabac, Heev Ayade, Lara Gay Villaruz, Albert Licup, Christopher Bernido, Ma. Victoria Carpio-Bernido and Roland Otadoy</i>	174
Elastic Properties of a Biopolymer <i>Heev L. Ayade, Albert James Licup, Christopher Bernido, Ma. Victoria Carpio-Bernido, Roland Otadoy, and Rommel Bacabac</i>	175
Effects of Applied Voltage on the Mean Diameter of Electrospun Polyaniline (PANI)-Elastomeric Adhesive Fibers <i>Francis Murillo Enralino and Marvin Ustaris Herrera</i>	176
White Noise Path Integral Approach on the Partition Function of a Semi-flexible Biopolymer in a Bend and Twist Worm-Like Chain Model <i>Emmanuel D. Monterola, Beverly V. Gemao and Ryan John A. Cubero</i>	177
Stretching Single Molecular DNA by Temperature Gradient: A White Noise Functional Approach <i>Gibson T. Maglasang, Beverly V. Gemao and Jinky B. Bornales</i>	178

Initial Studies of a Microwave-induced Atmospheric Plasma Jet <i>Mu, Camille Lacdan, Tracy Tuballa, Julie Anne Ting, Henry V. Lee, Jr., Leo Mendel Rosario, Roy Tamlos and Henry Ramos.....</i>	179
Influence of Stacked Ge Islands on the Dark Current-Voltage Characteristics of a Diode for Solar Cell Application <i>Arnold C. Alguno, Noli Vergel E. Kirit, Jihan D. Codigar and Liza-Fe L. Dagaerag</i>	180
Anisotropic Surface Texturing of Silicon Substrate using Alkaline Solution for Solar Cell Application <i>Kayrol Ann B. Vacalares, Arnold C. Alguno and Reynaldo M. Vequizo</i>	181
Performance Evaluation of Tailor Made Microspheres as Sensing Layer Responsive to Residual Chloramphenicol in Food Matrices <i>Benilda S. Ebarvia, Isaiah Ubundo and Fortunato B. Sevilla III</i>	182
A Monte Carlo Simulation Study on the Interactions of Proton, ^7Li and ^{12}C with Water for Hadron Therapy Application <i>Salasa A. Nawang, Carlo Paul P. Morente and Jan Mickelle V. Maratas</i>	183
Angular and Lateral Resolution Study in pCT Imaging Involving Biological Tissues <i>Salasa A. Nawang, Catherine Therese Quinones, and Jan Mickelle V. Maratas</i>	184
 <i>Engineering Sciences and Technology</i>	
Yield Potential of Rain Tree Fruit (<i>Samanea saman</i> Merr.) as Feedstock for Biofuel Production <i>Samuel R. Simion</i>	187
Properties and Performance of MMSU Hydrous Biosfuel <i>Shirley C. Agrupis, R. A. Ulep, N. Mateo, R. Ascano, M. B. Birginias, A. Valencia, and F. B. Abentes</i>	188

Effects of Antioxidants Extracted from Leaves of "Banaba" (<i>Lagerstroemia speciosa</i> , L.), Mangosteen (<i>Garcinia mangostana</i> , L.) and "Tsaang Gubat" (<i>Ehretia microphylla</i> L.) on the Oxidation Stability of Biodiesel from <i>Jatropha curcas</i> , L.	189
Jovita L. Movillon, Ramer P. Bautista, Rex B. Demafelis, Marinella C. Lacsa, Donna Marie C. Viray and Karel J. Cordova.....	189
Microemulsified Hybrid Fuel from Jatropha and Coconut Oils	190
Annabelle V. Briones, Apollo Victor O. Bawagan, Armando T. Mallillin, Oscar R. Trinidad, James E. Avila, Ramon C. Esperanza and Juanito P. Aquino.....	190
Assessment of Renewable Energy Resource Potential and Application for Decentralized Rural Electrification Using Geographic Information System (GIS)	191
Earl M. Opiso and Sivanappan Kumar.....	191
A Bi-Level Multi-Period Optimization Model for Multiple-Feedstock Bioenergy Supply Chains	192
Ivan Dale, U., Barilea and Raymond R. Tan.....	192
Lactic Acid Fermentation from <i>Jatropha curcas</i> L. Press Cake and Raw Cassava Starch Using <i>Rhizopus oryzae</i> NRRL-395	193
Liza Rowena DLC. Perdon, Francisco B. Elegado, Veronica P. Migo, Jovita L. Movillon and Rex B. Demafelis	193
Greenhouse Gas Emissions of Tobacco Flue-Curing Process in the Philippines	194
Samuel S. Franco	194
Investigation of Arsenate Uptake by Hydrotalcite at Hyperalkaline and Elevated Temperature Conditions	195
Einstine M. Opiso, John Charnock, Tsutomu Sato, Sohtaru Anraku, Chiya Numako and Tetsuro Yoneda	195
Effect of Functional Iron Oxide Nanocrystals on the Arsenic Level in Drinking Water	196
Aileen G. De Guzman, Danila S. Paragas, Danika Jade S. Paragas, Mark Dale S. Imbag and Laurent O. Dela Cruz.....	196

Google Earth: A Tool for Eliciting Spatial Information about Forest Degradation from Local People

- Arvin P. Vallesteros, Nathaniel C. Bantayan,
Margaret M. Calderon, Juan M. Pulhin,
and Rex Victor O. Cruz 197

Fermentation Kinetics of Gelatin-Immobilized *Lactobacillus plantarum* BS Using Skim Milk as Substrate

- Caryl Joy Esmeris, Marilou R. Calapardo,
Marilyn C. Del Barrio and Francisco B. Elegado 198

Health Sciences

Isolation and Identification of Constituents from the Antitubercular DCM Fraction from the Leaf Extract of *Premna odorata* Blanco

- Stephen B. Lirio, Allan Patrick G. Macabeo, Scott G. Franzblau, Yuehong Wang, and Ma. Alicia M. Aguinaldo 201

Genetic Polymorphism of CYP2D6*10 Gene Among Filipinos

- Michael O. Baclig, Rey Z. Predicala, Cynthia A. Mapua,
Maria Luisa G. Daroy, Ma. Elena B. Tiamson,
Maria Luisa D. Palabrica, Roy P. Atillo, Ronald Allan R. Torres, Sheryl S. Tobias, Francis O. Javier and
Filipinas F. Natividad 202

Single Nucleotide Polymorphism Genotyping of Antithrombotic Therapy Resistance Markers using High Resolution Melt Analysis

- Gerald Ryan R. Aquino, Kristine M. Cangas,
Ma. Alegria T. Caringal, Denice Mae Palmos,
Bianca Beatriz V. Trocino and Jose Enrico H. Lazaro 203

A Preliminary Study on the Effect of Red Grape Extract (*Vitis vinifera*) on the Inhibition of Angiogenesis on a Nine-day old Chick embryo

- Marxengel L. Asinas and Romulo S. De Villa 204

Chitosan Poly(acrylic acid) Semi-IPN Patch of Drug Encapsulation and Release

- Soma Chakraborty, Christian Gonzales,
Mari Kaira O. Leal, Ivy Marie C. Andalis
and Modesto T. Chua 205

Prevalence of Adiponectin Gene Polymorphisms among Filipino Patients with Coronary Artery Disease Examined at St. Luke's Medical Center

- Mark Anthony D. Luz, Maria Luisa G. Daroy,
Khristine Amber C. Pasion, Jhoe Anthony R.
Alfon, Brian Carmichael L. Torres, Aubrey Anne C.
Maliglig, Shaila Lyn J. Villamejor, Justin B. Diaz,
Miguel Mondragon, Marife P. Mararang, Fercival B.
Sabino, Joellloyd T. Asi, Michael Vincent S. Mendoza,
Vanessa Christina Y. Lacuesta, Cynthia A. Mapua,
Ronald R. Matias, and Fabio Enrique B. Posas* **206**

Household Daily Nitrite Consumption Levels from Some Commonly Consumed Processed Meats in Selected Sites/Areas in the Philippines

- Lalaine S. Solano, Mildred A. Udarbe,
Rosario Arim, Jay Ranille, Teresita R. Portugal
and Mario V. Capanzana* **207**

Telenursing thru SMS: Its Effect on Knowledge and Adherence to Proper Diet and Physical Activity

- Erickson M. Paragas, Ina Kristina Pangan,
Gianne Alyssa Pangilinan, Milcah Pangilinan,
Reeah Pangilinan, Romina Pangilinan and
Carl Justine Par* **208**

Oral Microbial Diversity Analysis of Caries-free and Caries-Active Healthy Filipino Adults through the 16S rRNA Gene

- Candida Patrice A. Reyes and Leslie Michelle M. Dalmacio ...* **209**

Antibacterial Activities and Diversity of Marine Fungi Associated with Seagrasses Collected from Lubang Island, Occidental Mindoro

- Dianne L. Dizon and Thomas Edison E. dela Cruz* **210**

Hydrogeochemistry and Gross Alpha-Beta Activities of Aklan's Watercourses

- Raymong J. Sucgung, Preciosa Corazon C. Pabroa,
Soledad S. Castaneda, Dan R. Laurente,
Aida P. Conevan and Mitsuru Ebihara* **211**

Stability of Bioactive Compounds and Shelf Life of Resveratrol-Enhanced Peanuts

- Jocelyn M. Sales and Anna V.A. Resurreccion* **212**

Calamansi Wastes for the Production of USP Grade Pectin as Source of Dietary Fiber

- Rosalinda C. Torres, Evangelina C. Monroyo,
Merle A. Villanueva, Teresita S. Bonifacio, Carmelita O.
Manalo, Romulo R. Estrella, Eduardo A. Lanto,
Carlos De Vera, Edgardo S. Genato, Evelyn B.
Manongsong, Elvira L. Arrogante and Milagros Adulta 213

Cytotoxic Cardenolide and Sterols from *Calotropis gigantea*

- Sonia D. Jacinto, Consolacion Y. Ragasa,
Eunice Alexis C. Chun, Chien-Chang Shen
and Dinah L. Espinel 214

Total Phenolics, Flavonoids, Tannins, Alkaloid and Saponin Contents and Antioxidant Activity of Locally Grown Fruits

- Wilma A. Hurtada, Felicito M. Rodriguez,
Krystyn Shyl Bardelosa, Alyssa Sherry Galang
and Lauren Rose Tamondong 215

Social Sciences

Agricultural Output and the States of Poverty in the Philippines: Evidence from Self-Rated Poverty Data

- Dennis S. Mapa, Michael Daniel C. Lucagbo
and Heavenly Joy P. Garcia 217

Determinants of Poverty in Elderly-Headed Households in the Philippines

- Dennis S. Mapa, Lisa Grace S. Bersales,
Manuel Leonard F. Albis and John Carlo P. Daquis 218

Risk Communication Behavior Towards Environmental Risks Among Upland Farmers in the Dampalit Watershed, Los Baños, Laguna, Philippines

- Aileen C. Simondac-Peria, Cleofe S. Torres,
Benjamina Paula G. Flor and Juan M. Pulhin 219

Farmers' Attitudes and Knowledge Level on Organic Farming in Region 1 and Cordillera Administrative Region (CAR)

- Floramante C. Pastor, Noralyn B. Legaspi,
Maria Angelica O. Salas, Diana A. Pastor,
Lea C. Agbigay, Marlyn S. Cacatian, Ma. Victoria
M. De Padua, Clifton R. Llanes, and Amado P. Imper 220

Adoption of a Tool to Measure the Extent of Presence of Social Constructivism in High School and College Physics Classrooms <i>Sotero O. Malayao Jr. and Myrna E. Lahoylahoy</i>	221
Year Level Fluctuations of Misconceptions on the Different Dimensions of Force Among Physics Majors <i>Sotero O. Malayao Jr., Myrna E. Lahoylahoy, Jezyl Mae V. Pinar and Efren B. Vios</i>	222
Effect of Web-enhanced Learning Activities on the English Achievement of Freshmen at Nueva Vizcaya General Comprehensive High School <i>Katherine Faith M. Bustos and Jane D. Navalta</i>	223
The Teacher on the Internet: Self-Efficacy Beliefs, Usage and Attitudes <i>Audrey B. Simon</i>	224
Toward Understanding Corruption: Concepts and Perspectives of Rural Community Leaders <i>Nixon V. Agaser and Marriess V. Reyes</i>	225
Signs of the Times: The Viability Of Nursing Homes as a Complement to Elderly Care <i>Andlin B. Empaynado, Andah Mae H. Camba, Christine Joy D. Candari, Abigail Ann B. Candelario, Aldin Francis M. Canobas, Isidor F. Cardenas, Florie Anne A. Carlos and Andlin B. Empaynado-Porto*</i>	226
Development of an Interactive Instruction System for Science and Health VI <i>Diamer B. Capilitan and Monera S. Hairulla</i>	227

