

List of Poster Competition Awards

Agricultural Engineering

Gold

	Name	Institution	Title
1	Dr. Nik Norasma Che'Ya, Dr. Wan Fazilah Fazlil Ilahi , Nursyazyla Sulaiman, Rhushalshafira Rosle, Rowena Mat Halip	Universiti Putra Malaysia	Rice Crop Monitoring using Normalized Difference Vegetation Index (NDVI)
2	Dr. Zita L. Sarungallo, Rahel Levina Winda Sari Siraite, Monica Jupiter Arung Padang	Universitas Papua	Innovation of Sago (<i>Metroxylon sp.</i>) Starch Maltodextrin as a Coating Material in Microencapsulation of Red Fruit (<i>Pandanus conoideus</i>) \Oil
3	Dr. Nik Norasma Che'Ya, Dr. Wan Fazilah Fazlil Ilahi, Fakhru Azran Bin Nawj, Nur Adibah Binti Mohidem	Universiti Putra Malaysia	Development of the Automated Fertigation Control System using Mobile Apps
4	Dr. Wan Fazilah Fazlil Ilahi, Dr. Nik Norasma Che'Ya, Nur Adibah Mohidem, Mohd Amir Sabrin Zamri, Muhammad Irfan Ab Rahman	Universiti Putra Malaysia	Chili Growth Performance Using Smart Sensing Technique in Greenhouse Environment for Urban Farming
5	Ifmalinda, Dinah Cherie, Siti Azzahra Kurnia, Sri Wahyuni, Khoirunnisa S.	Universitas Andalas	Characteristics of Corn Starch Edible Film with Variation of Zinc Okside (ZnO) Nanoparticle
6	Dr. Tawarat Treeamuk, Keeratinan Khemthong, Chanayut Chuayphoklang, Jeerawat Sookdee	Suranaree University of Technology	Study of Baby Carrots Planting by Using Aeroponic System
7	Dr. Nik Norasma Che'Ya, Dr. Muhammad Huzafah Mohd Roslim, Nursyazyla Sulaiman, Syarifah Noor Irma Suryani Syd Ahmad, Zaid Ramli	Universiti Putra Malaysia	Ground Based Hyperspectral Remote Sensing for Spectral Signature Identification of Weeds Species in Rice Crop
8	Dr. Mahirah Jahari, Muhammad Hakimi Razali, Muhammad Syahir Shahibullah, Nurul Najihah Yusof	Universiti Putra Malaysia	Portable Poultry Automatic Feeder
9	Dr. Andri Prima Nugroho, Dr. Murtiningrum, Lukas Wiku Kuswidiyanto, Galih Wisnu	Universitas Gadjah Mada	Development of Canal Gauge Monitoring System Based on Computer Vision Technology
10	Dr. Chandra Setyawan, Dr. Radi, Jaromansan Damanik, Patrick Gani, Brigitta Ery Septiyanti	Universitas Gadjah Mada	GIS Based Vegetation Landscape Modelling for Conservative Agriculture Under Tropical Environment
11	Rudiati Evi Masithoh, Arifin Dwi Saputro, Deny Saputro, Dede Cahyo Priambodo	Universitas Gadjah Mada	Classification of Cocoa Beans Based on Fermentation Level using Partial Least-Squares Discriminant Analysis (PLS-DA) Combined with Visible Near-infrared (VIS-NIR) Spectroscopy
12	Dr. Andri Prima Nugroho, Prof. Dr. Lilik Sutiarso, Diaz Habib Dananta, Wilda Monicha Mukti, Diah Nur Rahmi	Universitas Gadjah Mada	Three-Dimensional (3D) Reconstruction of Plant using Close Range Photogrammetry for Leaf Type Variations
13	Dr. Chandra Setyawan, Dr. Ngadisih, Raden Ferian Leo Mahendrasta, Abdur Rahman Khidzir, Hania Intan Saputri	Universitas Gadjah Mada	Development of Quantitative Assessment Model for Critical Watershed Detection
14	Dr. Andri Prima Nugroho, Dr. Murtiningrum, Rido Saputra, Muhammad Salman Ibnu Chaer, Guyup Mahardian DP	Universitas Gadjah Mada	Early Warning System using Change Point Analysis to Detect Climate Anomalies in Growth Chamber

Silver

	Name	Institution	Title
1	Dr. Diyana Jamaludin, Dr. Muhammad Hazwan Hamzah, Jeremiah Balang Sang, Tenny Kubu, Nur Khairunhazwani Zamri	Universiti Putra Malaysia	The Vertical Farming Model: A Sustainable Putra Green Community Outreach Project
2	Prof. Ts. Dr. Rosnah Shamsudin, Prof. Dr. Hasfalina Che Man, Puteri Nurain Megat Ahmad Azman,	Universiti Putra Malaysia	Changes in Turbidity and pH of White Pepper Retting Wastewater Induced by the Electro-coagulation Process
3	Ifmalinda, Dinah Cherie, Lii Shaufana, Reza Juni Artika, Rizka Putri Indramora Nasution	Universitas Andalas	Identify the Shape of the Avocado (<i>Persea americana mill</i>) with the Processing of Digital Image
4	Eri Gas Ekaputra, Ayendra Asmuti, Bayu Pamungkas,	Universitas Andalas	Utilization of Landsat 8 Imagery for Vegetation Index Analysis in the Context of Determining Green Open Space in Padang City
5	Ts. Dr. Zainah Md. Zain, Dr. Norhafizah Md. Zain, Nur Hidayatul Ain Che Azman, Ma Xian Xi, Ling Kuok Fong	Universiti Malaysia Pahang	Automatic Plant Watering System using IoT and Android
6	Dr. Meike Meilan Lisangan, Ir. Gino N. Cepeda, Novella Hendrina Rumansara, Gabriela W Rumadas Barahama,	Universitas Papua	Phytochemicals and Antioxidant activity of Kebar Grass (<i>Biophytum petersianum</i>) Leaf Water Extract from Infusion and Decoction Methods
7	Zaqlul Iqbal, Agustania Sabtagiza Wardhani, Afizha Nursabila, Arrahmadiana Estuwiljeng	Universitas Brawijaya	VEGIBLE Vegetable Vending Machine Equipped by Modified Atmosphere Packaging (MAP) for Longer Shelf Life and Ease of Accessibility for BSD Modern Market, Tangerang
8	Assoc. Prof. Dr. Yusuf Hendrawan, Varianti Liana, Riris Waladatus Nafi'ah, Bram Yos Agustinus	Universitas Brawijaya	Convolutional Neural Network for Classifying Tempe Quality
9	Dr. Muhammad Firdaus Abdul Muttalib, Dang Suria Osman, Azwatul Huda Mahdi, Samuel Lai Kai Peng	Universiti Malaysia Perlis	Farm Security System Against Invasive Animals
10	Dr. Muhammad Firdaus Abdul Muttalib, Muhamad Aiman Khairul Rizal, Haida Shahira Hariri, Sriviyasnee Kandasamy	Universiti Malaysia Perlis	Paddy Straw Fire-controlling System
11	Ts. Dr. Roslaili Abdul Aziz, Chong Siew Hong, Kong Ming Jun, Lee Yi Jie	Universiti Malaysia Perlis	<i>Ipomea aquatica</i> Floating Bed for Water Eutrophication Control
12	Samihah Mustaffha, Mohamad Syahrizan Ahmad Gaman	Universiti Teknologi MARA	The Development of Recording System on the Collection of Fresh Fruit Bunch for Upstream Purpose
13	Ir. I Wayan Tika, I Putu Gede Budisanjaya, Kevin Osdia Sianipar, Luh Wiwin Pradnya Dewi, I Made Maha Wira Pendit	Udayana University	"The Semic Veshser" Semi Mechanical Vegetable Washer (Solution for your Hygenic Vegetables)
14	Ni Nyoman Sulastri, I Putu Arya Patrama Khrisna Putra, I Kadek Agus Widhiartana, Arya Maulana	Udayana University	Horticultural Post Harvest Product Sterilization using UV-C Lamp
15	Dr. Wong Sie Chuong, Nurmuhammad Aqil Hanafiah, Muhammad Ilham Jaidin, Am Asfarina Azni Raes	Universiti Putra Malaysia	Urban Agricultural: Fish Farming Business Prototype
16	Dr. Yusuf Hendrawan, Maureen Natalia Lee, Rafii Priadiji Megatama	Universitas Brawijaya	Potential of Artificial Neural Network as Non Destructive Prediction of piperin in Cabya (<i>Piper retrofractum vahl.</i>) Based on Color and Texture Analysis
17	Renny eka putri, Andasuryani, Jimmy Aprilio, Moh. Jalik Ardli Wibowo	Universitas Andalas	Monitoring and Controlling of Vertical Farming System using Internet of Things (IoT)
18	Dr. Andri Prima Nugroho, Prof. Dr. Lilik Sutiarso, Ardyan Widyanto Putro, Rievaldy Albyan, Pradnya Umaradani	Universitas Gadjah Mada	Application of 3D Reconstruction System based on Close-Range Photogrammetry Method for Growth Estimation of Chinese Cabbage (<i>Brassica pekinensis L.</i>)
19	Dr. Andri Prima Nugroho, Dr. Murtiningrum, Rido Saputra, Muhammad Salman Ibnu Chaer, Guyup Mahardian DP	Universitas Gadjah Mada	Water Saving Technology for Supporting the System of Rice Intensification
20	Dr. Makbul Hajad, Dr. Radi, Evita Nugroho, Eka Riskawati, RR. Yohana Wintan Pangesti	Universitas Gadjah Mada	Prototype Model of Omni-wheeled Tractor to Reduce Unnecessary Movement
21	Siti Mariyam, Dr. Bayu Dwi Apri Nugroho, Vincentius Ferry, Izzatun Nisa Asyahidah, Riski Sri Mahanani	Universitas Gadjah Mada	Sonic Bloom Method for Cocoa Growth (<i>Theobroma Cacao L.</i>)
22	Dr. Andri Prima Nugroho, Dr. Muhammad Affan Fajar Falah, Muhammad Arif Ihsanudin, Nizar Maulana Malik, Vadiya Ricqy Viardana	Universitas Gadjah Mada	Automatic Leaf Spot Disease Examiner using Computer Vision Technology
23	Rudiati Evi Masithoh, Arifin Dwi Saputro, Tio Farros Atalla, Tiana Nur Annisa	Universitas Gadjah Mada	Development of Portable Low-priced Visible/near-infrared Reflectance Spectrometer to Distinguish Cacao Beans from Different Regions
24	Aryanis Mutia Zahra, Siti Mariyam, Rizky Dian Ramadhan, Diza Rizky, Naufal Helmi Yumnanda	Universitas Gadjah Mada	Development of an Intelligence Traceability System for Sustainable of Indonesian Cocoa Industry
25	Dr. Joko Nugroho Wahyu Karyadi, Dr. Makbul Hajad, Linggar Setianingrum, Dhyas Tanjung Prabowo Putri, Haryo Prasetyo Adi Andoyo	Universitas Gadjah Mada	Tamanu Oil Production using Screw-processed Method
26	Dr. Radi, Prof. Dr. Bambang Purwantana, Alfitra Widya Yubastama, Gigiehh Henggar Jaya, Rafi Syaiful Fatah	Universitas Gadjah Mada	Evaluation of Rice Transplanter for "Tapak Macan" Cropping Pattern
27	Ansita Gupitakingkin Pradipta, Dr. Ngadisih, Bangkit Fatwa Pratama, Liana Ni'mathus Sholikhah, Zulfa Khoirun Nisa	Universitas Gadjah Mada	Application of Machine Learning for Land-use Change Identification to Determine Regional Self-sufficiency
28	Prof. Ts. Dr. Rosnah Shamsudin, Assoc. Prof. Dr. Susilawati Kassim, Nor Aziatul Azidah Azhari	Universiti Putra Malaysia	Effect of Different Drying Temperature and Powder Size on Flowability Characteristics of <i>Azolla pinnata</i>

Agricultural Engineering

Bronze

	Name	Institution	Title
1	Renny Eka Putri, Iriwad Putri, Vindo Rahman, Chindy Mayori A	Universitas Andalas	Image Processing Algorithm Development in Tractor Obstacle Detection using Green Laser Pointer
2	Dinah Cherie, Ifmalinda, Refita Mayasari	Universitas Andalas	Evaluation of Operational Performance and Maintenance of Mount Nago Irrigation (Tertier Plot Highway) Badenah II, Padang City
3	Assoc. Prof. Dr. Yusuf Hendrawan, Rabiah Musfira Al Atiffa, Bagas Rohmatulloh, Roy Ardy Colas Napitupulu	Universitas Brawijaya	Bacterial Blight, Septorial Blight, and Healthy Soybean Classification based on Convolutional Neural Networks (CNN) Rapid Detection
4	Wike Agustin Prima Dania, Danang Triagus Setiawan, Hannah Nur Azzahrah	Universitas Brawijaya	Analysis of Robusta Coffee Beans Inventory Control as Raw Material for Ground Coffee using Genetic Algorithm (Case Study in UKM Kopi Bubuk Sido Luhur)
5	Ika Atsari Dewi, Dr. Hendrix Yulis Setyawan, Erina Permata Puteri Yuscandra, Sholahuddin Al Ayyubi, Anggi Febriana Ratnaning Utami	Universitas Brawijaya	Processing Unit Design of Handycraftpaper from Areca Nut (<i>Areca catechu l.</i>) Waste and Used HVS Paper on Small Industry Scale
6	Assoc. Prof. Dr. Wong Tze Jin, Dr. Ellie Teo Yi Lih, Loh Yi Shen, Muhammad Aqil Mohd. Yazid, Am Absarina Azni Raes	Universiti Putra Malaysia	Sensor to Determine How Ripe the Fruit and the Right Time to Harvest
7	Dr. Andri Prima Nugroho, Dr. Muhammad Affan Fajar Falah, Ardan Jaenuri, Damar Abhinawa	Universitas Gadjah Mada	Development of Smart Hydroponic System with IoT and Big Data Approach
8	Dr. Andri Prima Nugroho, Dr. Murliningrum, Gabriel Dida, Rega Arya, Ulfa Dwi Oktasari	Universitas Gadjah Mada	Development of Laser-based Infiltrometer for Estimating the Percolation Phenomena in Irrigation Modernization
9	Dr. Andri Prima Nugroho, Dr. Murliningrum, Gabriel Dida, Rega Arya, Ulfa Dwi Oktasari	Universitas Gadjah Mada	Development of Precise Measurement of Water Percolation Inside the Infiltrometer for Supporting Plant Water Requirement Analysis
10	Dr. Nurashikin Kemat, Dr. Nik Norasma Che'Ya, Syaz Wana Suid	Universiti Putra Malaysia	Development of Weed Detetction using Hyperspectral Data

The most Favorite

	Name	Institution	Title
1	Dr. Makbul Hajad, Dr. Radi, Evita Nugroho, Eka Riskawati, RR. Yohana Wintan Pangesti	Universitas Gadjah Mada	Prototype Model of Omni-wheeled Tractor to Reduce Unnecessary Movement

Food Engineering

Gold

	Name	Institution	Title
1	Ts. Dr. Roslaili Abdul Aziz, Siti Nur Najwa Rosli, Nurul Fatin Nabila Ghazali, Nurhazimah Md Hasmarutuah	Universiti Malaysia Perlis	Smart Plant Microbial Fuel Cell (S-PMFC) for Non-Destructive Bioenergy
2	Dr. Hanafiah Zainal Abidin, Ts. Dr. Habsah Alwi, Khairuni Asrini Mohd Karno	Universiti Teknologi MARA Shah Alam	Investigation on Drying Process of Pineapple Flesh Fibre from Far-Infrared Dryer and Review the Effect of Drying to Vitamin C Content in Pineapple Flesh
3	Dr. Meike Meilan Lisangan, Ir. Gino Nemesio Cepeda, Monica Irma Gurning, Soleman Karayopi,	Universitas Papua	Total Phenol and Antioxidant Activity of Kebar Grass (<i>Biophytum petersianum</i>) Stem Water Extract from Infusion and Decoction Methods
4	Joko Prasetyo, Arrahmadiana Estuwilujeng, Melenio Eko Haryono, Citra Divinaura Hadi	Universitas Brawijaya	Electrocoagulation Based Separation Technology for Microplastics in Sea Salt to Attain the Food Safety and SDG No.3
5	Ts. Dr. Habsah Alwi, Surianajih Kamarudin	Universiti Teknologi MARA Shah Alam	Study of the Potential of Clove Essential Oil as Natural Food Preservatives Incorporated with Sodium Alginate Edible Coating on Fresh-cut Pineapple
6	Dr. Nurul Asyikin Md Zaki, Assoc. Prof. Dr. Junaidah Jai, Nur Qistina Mohamad Kamarul Azman, Mohamad Hakim Syuwari Hassan	Universiti Teknologi MARA Shah Alam	Microwave Encapsulation of Active Compounds from <i>Citrovia ternatea</i> Flower Extract
7	Assoc. Prof. Dr. Jaturapatr Varith, Assoc. Prof. Dr. Somkiat Jaturonglumert, Saranyapak Chamnan, Narathip Sujinda, Suthathip Wongphansuea	Maejo University	Kinetics of Deterioration and Shelf-life Prediction of Ozonated Longan During Cold Storage
8	Dr. Sri Rahayoe, Yudha Dwi Prasetyatama, Firdaffa Riefqi Ariawan, Fela Sefiana Dewanti, Izzatun Nisa Asyhidah	Universitas Gadjah Mada	The Power of Eco-Aerogel from Cocoa Shell as Ethylene Gas Insulator in the Fruit Storage
9	Dr. Nik Norasma Che'Ya, Dr. Wan Fazilah Fazilil Ilahi, Fakhru Azran Nawi, Nur Adibah Mohidem	Universiti Putra Malaysia	Crop Water Requirement of Durian
10	Dr. Wan Fazilah Fazilil Ilahi, Dr. Nik Norasma Che'Ya, Nur Hidayu Abu Hassan, Owen Nlaxrickzon Anak Thomas Annie	Universiti Putra Malaysia	AWD : Water Conservation using Alternate Wetting and Drying (AWD) in Rice Cultivation

Silver

	Name	Institution	Title
1	Dr. Tengku Sharifah Marliza Tengku Azmi, Dr. Omar Faruqi Marzuki, Barbara Heather Anak Metiau, Priscilla Surie Anak Satap, Baerazo Degocubusier Anak Rahynold Rehengia	Universiti Putra Malaysia	Biodegradable Food Packaging
2	Dr. Rozzamri Ashari, Asnawi Shahar	Universiti Putra Malaysia	Effect of Different Iodized Salt Concentration on Rheological Properties of <i>Euthynnus affinis</i> Surimi
3	Kanjana Narkprasom, Nukrob Narkprasom, Naruemon Boonmee, Varunya Fuangchoom, Atchara Laoprasert	Maejo University	Process Development of Balsamic Vinegar from Coffee Pulp with New Method
4	Murni Rahim, Thanes Manimaran, Kumeresen Rajendran, Sulochana Edward Martin	Pottiteknik Jeli Kelantan	Application of Edible Ginger Coating on Postharvest Papaya
5	Noorsuhana Mohd Yusof, Dr. Nurul Asyikin Md Zaki, Noor Azian Azizan, Nur Amalia Ahmad Yazid	Universiti Teknologi MARA Shah Alam	Recent Analysis in the Use of Edible Coating Incorporated with Essential Oils for Fruits Preservation
6	Ts. Dr. Habsah Alwi, Dr. Hanafiah Zainal Abidin, Muhammad Syafiq Ismail	Universiti Teknologi MARA Shah Alam	An Overview on Vitamin C Content in Dried Pineapple Skin Fibre from Infrared Dryer
7	Dr. Wanvisa Taweechuensakul, Phatcharaphong Padthaisong, Thitaporn Duangmanee, Phattaphon Khatpeang	Suranaree University of Technology	Study on the Effects of Oil Centrifugation of Puffed Rice Product of Physicochemical Properties
8	Dr. Ir. Sukardi, Claudia Gadizza Perdani, Desy Putri Utami	Universitas Brawijaya	Optimization of Drying Time and Foam Thickness of Microwave-Dried Egg White Powder
9	Dr. Nurul Asyikin Md Zaki, Assoc. Prof. Dr. Junaidah Jai, Azrul Hanif Shafie	Universiti Teknologi MARA Shah Alam	Effect of Solvent Concentration on the Physicochemical Properties of Blue Pea Flower Extract
10	Dr. Siti Fatimah Ibrahim, Intan Nadhirah Muhammad Shafiq Ong, Tengku Khalis Nur Alia Tengku Rozali, Siti Nabihah Mohd Desa	Universiti Kuala Lumpur	Evaluation of Physicomechanical Properties of Chocolate made from Coconut Oil and Date Syrups
11	Aryanis Mutia Zahra, Siti Mariyam, Riska Amalia Abrianti, Anggraeni Intan Maharani, Novita Dyah Pitaloka	Universitas Gadjah Mada	Efficient Methods for Polyphenol Extraction from Cocoa Bean Shell
12	Dr. Sri Rahayoe, Siti Mariyam, Ahmad Yumroni, Yolanda Florecita Maharani, Muhammad Haris Yulianto	Universitas Gadjah Mada	Cocoa Drink Formulated with Nutritious Coffee Flour Processed using Batch Steam Agglomerator
13	Dr. Arifin Dwi Saputro, Dr. Joko Nugroho Wahyu Karyadi, Tiara Dinda Faizza, Hasti Ihsani Ayu, Faisal Fathin Haider	Universitas Gadjah Mada	Utilization Thorny Palm Seeds and Bulbs Porang as Edible Coating to Prolong the Shelf Life of Chili (<i>Capsicum annuum</i> L.)
14	Wenny Bekti Sunarharum, Indira Prakoso, Intan Salsabila Putri	Universitas Brawijaya	Nutritious Gummy with High Protein Pigeon Pea and Natural Cola Flavour from Wood Apple as a Functional Food Product to Prevent Double Burden of Malnutrition in Children

Bronze

	Name	Institution	Title
1	Ts. Dr. Muhammad Heikal Ismail, Dr. Irwan Syah Md Yusoff, Muhamad Wazif Zakwan Mubarak, Siti Norfathia Mohammad Ehsan	Universiti Putra Malaysia	Drying Kinetics of Laksam and Yellow Noodles
2	Nukrub Narkprasom, Kanjana Narkprasom, Artit Dujeto, Sippakorn Sawadsukho, Werawat Wongpakdee	Maejo University	Process Development of Food Beads from Grass Jelly
3	Marini Nafi, Muhammad Shahriezman Muhammad Fauzi, Muhammad Izzan Aziz, Nur Alina Rozali	Politeknik Jeli Kelantan	Soursoop Snack
4	Prof. Dr. Norazah Abd. Rahman, Dr. Syafiza Abd Hashib, Izvani Azman	Universiti Teknologi MARA, Shah Alam	The Effect of <i>Centella asiatica</i> (L.) towards Pineapple Powder Antioxidant
5	Deigo Yusa Ali, Adilla 'Aisyah Hana Mu' alim, Wardatul Maulidah	Universitas Brawijaya	Synthesis of Natural-based Immunomodulatory Compounds in Lozenges using Wet Granulation Methods as an Effort to Realize a Healthy Life
6	Dr. Nurul Asyikin Md Zaki, Assoc. Prof. Dr. Junaidah Jai, Nurul Atikah Sohibun	Universiti Teknologi MARA, Shah Alam	Extraction of Anthocyanins from the Blue Pea Flower via Microwave Technology
7	Siti Mariyam, Arifin Dwi Saputro, Aulia Anindita, Muhammad Arif Syakban, Syahwal Zulkarnain	Universitas Gadjah Mada	Aloevera Enriched Chocolate Drink as a Healthy Drink in the Pandemic Covid 19
8	Prof Dr. Ir Elok Zubaidah, Jaya Mahar Maligan, Rafiq Priadji Megatama, Dimas Maulana Yusuf, Magita Endelita Musdian	Universitas Brawijaya	The Potential in Integration of Detector Technology and Non-Thermal Preservation Based on Fuzzy Logic in Optimizing Home Industry Kombucha Tea Production Process
9	Dr. Wan Fazilah Fazilil Ilahi, Dr. Nik Norasma Che'Ya, Nur Adibah Mohidem, Mohd Amir Sabrin Zamri, Muhamad Irfan Ab Rahman	Universiti Putra Malaysia	Development of Geo-Tagging System and Crop Monitoring using Aerial Imagery
10	Dr. Joko Nugroho Wahyu Karyadi, Siti Mariyam, Miko Fernando, Dyah Repati Maharani, Alfian Hanafi	Universitas Gadjah Mada	Smart Biodegradable Food Package Innovation Based on Sugar Palm Starch Waste

The most Favorite

	Name	Institution	Title
1	Dr. Joko Nugroho Wahyu Karyadi, Siti Mariyam, Miko Fernando, Dyah Repati Maharani, Alfian Hanafi	Universitas Gadjah Mada	Smart Biodegradable Food Package Innovation Based on Sugar Palm Starch Waste

Biotechnology

Gold

	Name	Institution	Title
1	Dr. Shiamala Devi Ramaiya, Noramirah Hazirah Md Zarita, Mohamad Zaki Mohamad Saad	Universiti Putra Malaysia	New Records of Wild Passion Fruit (<i>Passiflora suberosa</i> L.) in Malaysia: Evidence from Morphology and ITS Analysis
2	Siti Mariyam, Dr. Joko Nugroho Wahyu Karyadi, Yesica Meiliana Widiastuti, Haida Setyani, Noveria Anggi Nurrahmah	Universitas Gadjah Mada	LACTAID "Fast Act Lactose Intolerance Relief" Dairy Substitution from Mung Bean Tempeh with Chocolate Flavor

Silver

	Name	Institution	Title
1	Dr. Tan Toh Hii, Dr. Hanisah Kamilah Abd Razak, Chong Cheng Ye, Wong Hui Jhing, Sabrina Rancang Khairul	Universiti Putra Malaysia	Yeast as Biofertilizer?
2	Dr. Shiamala Devi Ramaiya, Owen Yeo Thian Seng, A.Vignisvary Arumugam, Gerevieve Bangi Anak Sujuang	Universiti Putra Malaysia	Genetic Diversity of Underutilized Fruit of Crystal Longan (<i>Pometia pinnata</i> J.R. Forst & G. Forst) Genotypes
3	Assoc. Prof. Dr. Yusuf Hendrawan, Ahmad Zaki Mubarak, Isbakhul Lailatil Fibriyah, Nadiyah Eka Nurizza, Quinimke Aisy Maskurin	Universitas Brawijaya	Nano-Immobilization of <i>Cutinase</i> Enzyme from <i>Fusarium solani</i> as PET Waste Plastic Degradative Enzyme
4	Angky Wahyu Putranto, Dr. Ir Aji Sutrisno, Wardatul Maulidah, Adilla 'Aisyah Hana Mu'alim	Universitas Brawijaya	Decreasing Oxalate Levels in Porang Flour (<i>Amorphophallus muelleri</i> Blume) using Mechanical Grinding Process and Enzymatic Process by Response Surface Methodology
5	Dr. Nurashikin Kemat, Dr. Nik Norasma Che'Ya, Syaz Wana Suid	Universiti Putra Malaysia	Hyperhydricity in Plant Tissue Culture
6	Dr. I Putu Surya Wirawan, Karolus Fernando Husugian, Made Agus Toni Saputra, Ignasius Aleandre Tito Pranowo	Udayana University	Manggot BSF (Black Soldier Fly) Solution Biowaste and Accelerates the Composting Process for Sustainable Agriculture
7	Assoc. Prof. Ts. Dr. Asmah Awal, Assoc. Prof. Ts. Dr. Nor Azma Yusuf, Nur Atiqah Khirul Anuar, Nurul Ain Nadirah Mahmud	Universiti Teknologi MARA Melaka	Eco-Plant Tissue Culture Media (e-PTCM)
8	Siti Mariyam, Aryanis Mutia Zahra, Anisa Kistanti, Rani Juni Widiyastuti, Edi	Universitas Gadjah Mada	The Use of Yeast and Bioreactors to Speed Up Fermentation and Wine Coffee

Bronze

	Name	Institution	Title
1	Dr. Sivasanger Seenivasagam, Mohd Saufi Mohd Ramli, Irfan Izzuddin Yahya, Muhammad Othman Zakaria, Mardeelan Anak Roland	Universiti Putra Malaysia	CRISPR: The Future of aAgriculture

The most Favorite

	Name	Institution	Title
1	Siti Mariyam, Dr. Joko Nugroho Wahyu Karyadi, Yesica Meiliana Widiastuti, Haida Setyani, Noveria Anggi Nurrahmah	Universitas Gadjah Mada	LACTAID "Fast Act Lactose Intolerance Relief" Dairy Substitution from Mung Bean Tempeh with Chocolate Flavor

Green Technology

Gold

	Name	Institution	Title
1	DR. Nurul Asikin Mijan, Megan Xin Yi Ravindran	Universiti Kebangsaan Malaysia	Deoxygenated of Palm Kernel Oil to Bio-Jet Fuel Over Magnetically Separable Carbon-Supported FeMo catalyst
2	Aryanis Mutia Zahra, Siti Mariyam, Rafli Arsyad, Hilbram Yanuarta, Muhammad Syaifiq Ersah Mahendra	Universitas Gadjah Mada	An Integrated Manufacturing System of Functionalized Plastic Aerogel for Combating Spill Oil Issues in Coastal Tourism Areas
3	Dr. Chandra Setyawan, Dr. Ngadisih, Yosia Sinhabella, Hilyatana Fiddaril Izza, Bondan Satria Pamungkas	Universitas Gadjah Mada	ZeoFilt: Development of Hexagonal Zeolite Filter for Improving Water Quality in Tertiary Irrigation Channel
4	Prof. Dr. Lilik Sutiarso, Dr. Andri Prima Nugroho, M. Athala Fawwaz D., Leonardus Dwi K. B. P., Ignatius Jovantheo	Universitas Gadjah Mada	Integrated Farming Systems (Crops-Livestock-Fish) with BCG Economy Approach for Supporting Sustainable Agriculture
5	Dr. Nurul Nadwa Binti Zulkifli, Adeline Lendy anak Kennedy, Yari Estadaniel Sokyen, Zahrin Syazwan Che Rohim	Universiti Putra Malaysia	Smart Irrigation
6	Dr. Latifah Omar, Prof. Dr. Ahmed Osumanu Haruna, Kavitha Rajan, Deborah Renting Jimmy, Cassandra David	Universiti Putra Malaysia	Coating Urea with Rejected Sago Starch to Minimize Ammonia Volatilization

Silver

	Name	Institution	Title
1	Siti D'zaleha Sahiron, 'Ammar Farhan Othman, Muhammad Afiq Izzuddin Iskandar Muhammad Anuar, Zamani Al Hakim Abidin	Institut Kemahiran Tinggi Perda (Perda-Tech)	Smart Home Puyuh
2	Dr. Norhafizah Md Zain, Dr. Zainah Md Zain, Nadzirah Adnan	Universiti Malaysia Kelantan	Effect of Gibberellic Acid and Chitosan Foliar Application on the Growth and Yield of Spinach (<i>Spinacia oleracea</i>) using Nutrient Film Technique (NFT) Hydroponic System
3	Angky Wahyu Putranto, Wafa Nida Faiza Azra, Clara Dwi Anggraini, Jihan Nada Salsabila Erha	Universitas Brawijaya	Hydrogen Harvester from Water Renewable Energy Harvesting Technology based on Water Conservation and Aluminium Waste Treatment to Support Sustainable Development Goals (SDGs)
4	Dr. Faizah Haji Metali, Dk Nasriah Rabiutal Adawiyah Pg Abdul Karim, Nurul 'Aqilah As-Syahirah Haji Abd Aziz, Amanda Liew Wei Yi	Universiti Brunei Darussalam	Mulch Your Garden: Using Organic Mulching from Seaweed
5	Dr. Pooja Shivanand, Dr. Faizah Hj Metali, Ak Abdul Muizz Al Azim Pg Hj Abdul Halim, Anis Nadiyah Abdillah, Muhamad Nur Abadi Mohd. Nizam	Universiti Brunei Darussalam	Application of Newly Isolated <i>Trichoderma</i> sp. as Biocontrol Agent and Biofertilizer
6	Dr. Nur Nadiyah Dzulkifli, Nur Zalin Khaleda Razali, Wan Nur Shakirah Wan Hassan, Siti Nur Amirah Shuhaimi	Universiti Teknologi MARA Negeri Sembilan	Synthesis, Characterisation and Corrosion Inhibition Screening of Co(II) Dithiocarbamate Complexes: Weight Loss Method
7	Joko Prasetyo, Vimala Tirta Putri Thedja, Ratih Dewi, Roy Ardy Colas Napitupulu	Universitas Brawijaya	M-BIOMAC: Microalga Biodiesel Converter Based on Ultrasound Machine to Support Sustainable Development Goals 7
8	Aryanis Mutia Zahra, Siti Mariyam, Dalfa Laila Fauziah Zahra, Dwiki Nugraha, Fahri Al Muhairin	Universitas Gadjah Mada	CHLICO GELS: Development of Eco-Aerogel Derived Form Cocoa Waste for Sustainability of Green Industry Standard of Batik
9	Aryanis Mutia Zahra, Dr. Rudi, Meutia Cahya Kusuma, Nadya Hafidzatun Nisa, Esti Krijulianingrum	Universitas Gadjah Mada	Crop Waste Hydrogel Factory Management Utilizing IoT System for Sustainable Water Scarcity Solution
10	Yardfon Tanongkankit, Kanyawee Kanthamoon, Poonyaporn Sanpang, Teerachai Poramapijitwat	Maejo University	Pulsed Electric Field Technology for Soy Protein Extraction
11	Dr. Nur Nadia Dzulkifli, Norsanida Iswa Sahani, Aqilah Muhammad Saleh, Nur Zulaika Athirah Dzulkifly	Universiti Teknologi MARA Negeri Sembilan	Synthesis, Characterisation and Corrosion Inhibition Screening of Benzohydroxamic Acid Derivatives in H2SO4: A Langmuir Isotherm

Bronze

	Name	Institution	Title
1	Dr. Chayanon Sawatdeenarunat, Dr. Nuttiya Tantranont, Sasithorn Saipa, Tidarak Pooya, Prasert Thaweessapthithak	Rajabhat University	School-based Waste to Energy
2	Wenny Bekti Sunarharum, Indira Prakoso, Intan Salsabila Putri	Universitas Brawijaya	Nanoencapsulation of <i>Pollanthes tuberosa</i> Essential Oil with the Addition of Eucalyptol
3	Dimas Firmanda, Joko Prasetyo, Yubi Vebiona Hartono, Ni Putu Eka Dwiyanti, Oki Trisna Sekar Arum	Universitas Brawijaya	HUGI(BOX)CINE Eco-package Recipient utilize Solar Cells with UVC and Disinfectant
4	Dr. Wan Fazilah Fazli Ilahi, Dr. Nik Norasma Che'Ya, Nur Hidayu Abu Hassan, Owen Niexrickzon Anak Thomas Annie	Universiti Putra Malaysia	Growing Temperate Butterhead Lettuce by Root Zone Cooling
5	Dr. Hendrix Yulis Setyawan, Adninda Hindun Alfiah, Abdel Mulki Al Hafiz, Rutmauli Hutabarat	Universitas Brawijaya	Utilization of Turpentine Oil for Jet Fuel as Renewable Energy
6	Dr. Wan Nor Zanariah Zainol @ Abdullah, Dr. Nozieana Khairuddin, Wazif Akmal Hassdi, Carey Lu Kiing You, Intan Wahida Abdullah	Universiti Putra Malaysia	Potato Hole Cutter from Scrap
7	Dr. nat. tech. Andriati Ningrum, Dr. Manikharda, I Nyoman Anggie Pratistha, I Putu Fadya Rachmawan, Gusti Putu Surya Govinda Atmaja	Universitas Gadjah Mada	HYDRA: Heavy-Duty Hydrogen Fuel Cell Tractors to Sustain Regenerative Agricultural

The most Favorite

	Name	University	Title
1	Dr. nat. tech. Andriati Ningrum, Dr. Manikharda, I Nyoman Anggie Pratistha, I Putu Fadya Rachmawan, Gusti Putu Surya Govinda Atmaja	Universitas Gadjah Mada	HYDRA: Heavy-Duty Hydrogen Fuel Cell Tractors to Sustain Regenerative Agricultural

Agricultural Waste Management
Gold

	Name	Institution	Title
1	Prof. Ir. I Made Supartha Utama, I Putu Gede Budisanjaya, Zulfa Hana Maulida, Luh Made Putri Apriliani, Hyacintha Dinda Septiana Putri	Udayana University	Real Time Smart Storage to Reduce Household Food Waste Based on Wireless Sensor Network
2	Sagar Kafle, Bibek Poudel, Aadarsha Khatriwada, Birendra Das	Tribhuvan University	Estimating Maize Residue Potential Along with Its Valorization Possibilities in Nepal
3	Dr. Nor Hanifawati Inai, Dr. Azizul Hakim Lahuri, Jamie Lazaroo, Nur Khairunnisa Mohd Kamaruzaman, Logeswary Muniandy	Universiti Putra Malaysia	Mechanical and Physical Properties of Bananas/ Glass Fibre Reinforced Polyester Composites
4	Aryanis Mutia Zahra, Siti Mariyam, Amanda Ghifary, Faradiba Aulia, Hastunggoro Widi Astuti	Universitas Gadjah Mada	The Phyllosilicates Hydrogel Sheet Developed using Paddy Husk for Alternative Planting

Silver

	Name	Institution	Title
1	Dr. Walter Charles Primus, Azira Sanusi, Alia Zulaikha Mohamad Ashar, Dayana Batrisya Johan, Patricia Pawa Anak Dlem	Universiti Putra Malaysia	Agricultural Waste Management: Rice Straw
2	Freini Dessi Effendi, Siti Miftachul Jannah, Lilis Nur Fitriani, Dharma Abiyyu Allam	Universitas Brawijaya	Purification of Protease Enzymes on Waste of Papaya Leaves to Increase the Effectiveness of Animal Food
3	Deigo Yusa Ali, Sarah Febrian Perdaningtyas, Roisatur Rahma Ahadiyah, Aminatuz Zuhriyah	Universitas Brawijaya	Performance of Coffee Wasted Activated Carbon Enriched with Phytochelation - Water Hyacinth Root Extract as a Heavy Metal Adsorbent - A Review
4	Rashidah Ruslan, Shaktisswary Subarmaniam, Nur Adiba Ahmad Isa, Siti Zulaikha Ismail	Universiti Malaysia Perlis	Bio-Re Vending Machine
5	Dr. Dodyk Pranowo, Claudia Gadizza Perdana, Tsamara Dhany Savira	Universitas Brawijaya	Proximate Characteristics and Calorific Value of Briquette Formulation from Biomass (Dairy Sludge and Coconut Shell) and Coal as An Alternative Fuel (Study Case at PT XYZ)
6	Dr. Jasmin Arif Shah, Dr. Nur Bahiah Mohamed Haris, Winoryantie Sulaiman, Muhammad Hafidz Abdul Raman	Universiti Putra Malaysia	Sustainability of DIY Cocoa Pod Husk Compost as An Alternative Waste Management
7	Dr. Ir. Pande Ketut Diah Kencana, Ida Ayu Rina Pratiwi Pudja, Ni Made Thari Setiadi, Muhammad Dwi Prayoga Yunus, Fajar Khun Faqih	Udayana University	Size Risk Synthetic Zeolite of Rice Husk
8	Noraida Mohd Radzi, Joniston Jupin @ Jubin	Universiti Teknologi MARA	Application of Fish Waste Fertilizer on the Growth of Maize (<i>Zea mays</i>)
9	Assoc. Prof. Dr. Dwi Larasatie Nur Fibri, Fira Silvany Ramadhania, Dyah Sekar Purnama Ratri, Gustav Sandy Nathanael	Universitas Gadjah Mada	Salsyn: High Fibre Synbiotic Biscuit Made from Corncob Flour with Snake Fruit Jam and Microencapsulated <i>Lactobacillus plantarum</i> to Prevent Gut Dysbiosis
10	Dr. Ngadisih, Dr. Joko Nugroho Wahyu Karyadi, Unggul Fajar Hidayat, Denis Tio Yudhistira, C. Candra Palupi	Universitas Gadjah Mada	Slurry Biogas Application for Soil Amendment as the Solution of Agricultural Waste Utilization to Create Future Green Agricultural System
11	Dr. Nozieana Khairuddin, Mohammad Sobri Meras, Nurul Husna Che Hamzah, Dayangku Nurshahirah Awang Wahab	Universiti Putra Malaysia	Isolation and Characterization of Banana Pseudostem Cellulose Nanofiber from <i>Musa acuminata</i>
1	Dr. Tan Toh Hii, Dr. Hanisah Kamilah Abd Razak, Chong Cheng Ye, Wong Hui Jhing, Sabrina Rancang Khairul	Universiti Putra Malaysia	The Potentials of Spent Mushroom Compost in Sustainable Agriculture
2	Assoc. Prof. Dr. Subash C.B. Gopinath, Dr. Nor Azizah Parmin, Muhammad Nur Aiman Uda, Muhammad Nur Afnan Uda, Uda Hashim	Universiti Malaysia Perlis	Eco-friendly Nano-Approach to Subside Accumulation of Arsenic in Paddy Grains

Bronze

	Name	Institution	Title
1	Dr. Juniza Md Saad, Dr. Syarifah Kamariah Wan Mohammad, Sarah Ja'afar, Nur Adidah Najwa Rammizon, Norsyahirah Jamaluddin	Universiti Putra Malaysia	Make the World a Better Place and Compost Your Waste
2	Dr. Nozieana Khairuddin, Nur Afiqah Ali, Nor Shafinaz Azman	Universiti Putra Malaysia	Smart Used Cooking Oil (UCO) Collection System for Sustainable Production
3	Ts. Dr. Muhammad Heikal Ismail, Dr. Muhammad Hazwan Hamzah, Veknesh Arumugam, Khalida Aziz, Miiraa Muruga	Universiti Putra Malaysia	Farm to Fork
4	Siti Mariam Shamsi, Nur Zulaikha Amani Badarol Hisham	Universiti Teknologi MARA	Farmers Acceptance Towards Hay Baler in Improving Economy and Reducing Temperature in Sungai Limau, Yan
5	Tanalyna Hasna, Shinta Clarita Angel, Gabriella Rosa, Archangela Zevanya Venenzia Widodo	Universitas Brawijaya	CORBETIZER : Multi-purpose Food Grade Sanitizer from Corn Cobs Waste
6	Tanjung Mahatmanto, Rafiq Usdiqa Maulana, Riyanti Zhafirah Makrudi, Sania Isma Yanti	Universitas Brawijaya	NanoWaste : Exploration of the Potential Role and Economic Value of Agricultural Waste for Biogenic Nanosilica Production
7	Bayu Meindrawan, Dr. Diana Lo, Almira Khalishah, Atikah Sari Khairunnisa, Samantha Ardheia	Bina Nusantara University	Re.Spice: Functional Value Improvement of Organic Waste from Indonesian Herbal Drinks
8	Dr. Nur Bahiah Mohamed Haris, Dr. Jasmin Arif Shah, Munifah Siti Amira Yusuf, Tasnim Ismail, Khairisyahmie Khairisham	Universiti Putra Malaysia	Victory Garden : Reduce, Reuse, Recycle, Recovery
9	Dr. Eng Evi Kurniati, Dhanu Kusuma Farobby, Rizal Arifiandika	Universitas Brawijaya	Electrical Productivity Analysis from Banana Peels and Orange Peels Biomass Wastes using Microbial Fuel Cell (MFC) as Agricultural Solid Waste Management
10	Aryanis Mutia Zahra, Siti Mariyam, Ibnu Farras, Hedwigis Nasia Meirieta, Dian Kharisma Rahmawati	Universitas Gadjah Mada	BIO-BRICO: Utilization of Cocoa Waste as a Potential Source of Bio-Briquettes in Various Carbonization Techniques
11	Dr. Chandra Setyawan, Dr. Radi, Jaromansen Damanik, Patrick Gani, Brigitta Ery Septiyanti	Universitas Gadjah Mada	Production of Bio Briquettes from Coffee Residue Waste Coconut Shell Charcoal, and Paper Adhesives for Community Use

The most Favorite

	Name	Institution	Title
1	Ts. Dr. Muhammad Heikal Ismail, Dr. Muhammad Hazwan Hamzah, Veknesh Arumugam, Khalida Aziz, Miiraa Muruga	Universiti Putra Malaysia	Farm to Fork