



ASEAN Student Science Project Award Announcement
The 8th ASEAN Student Science Project Competition (ASPC 2022)
1 – 3 July 2022
Online Competition

Project Proposal Category

Award	Project Number	Country	Student Name	Name of Project
First Prize	-	-	-	-
Second Prize	PP-AP03	Malaysia	1. Syed Hariz Al-Idrus Bin Syed Mohammad Hafiz Al-Idrus 2. Harith Bin Mohd Aizam 3. Muhammad Dhahir Eddin Bin Mohd Johan	ACQUAVOLT
Third Prize	PP-AP02	Cambodia	1. Empiseysocheata In 2. Vatthanateppy Sopheak	The Toxic Gases Converting Machine
Consolation	PP-AP04	Myanmar	1. May Han Htoo 2. Tharyar Min 3. Chaw Khant Khant Zaw	Air Purifier with Natural



Full Experimental Project Category

#1: Physical Science

Award	Project Number	Country	Student Name	Name of Project
First Prize	PH07	Singapore	1. Tianshi Qi 2. An Wei Teck	Effect of magnetic anisotropy on spin current-driven magnetization auto-oscillation
Second Prize	PH05	Singapore	1. Jing Rong Daryl Wang	Continuous Flow Synthesis for rapid access of Active Pharmaceutical Ingredients
Third Prize	PH08	Thailand	1. Chalisa Srikum	Age determination and comparison of open and globular star clusters by HR-diagram
Consolation	PH06	Singapore	1. Tan Jun Wei	Designing Arbitrary Non-Hermitian Hamiltonian Spectra via Electrostatic Conformal Maps



#2: Biological Science

Award	Project Number	Country	Student Name	Name of Project
First Prize	BIO04	Singapore	1. Xu Rulin 2. Zhao Xinyue	Investigating the effects of YWHAB gene on colorectal cancer cell growth
Second Prize	BIO08	Thailand	1. Panatas Chaiprakan 2. Porawat Dontanam 3. Sirawich Laolapha	The Effect of Herbal Extract Supplementation on Biological and Productive Character of Silkworm: A Novel Approach for Efficient Silk Sheath Production
Third Prize	BIO07	Thailand	1. Arpornpat Tharnlert 2. Sorayut Thanonkaew	The Development of an Artificial Ecosystem for Firefly Nursery
Consolation	BIO01	Indonesia	1. Vania Anindita Hartomo 2. Najikha Aaliyah Azhar	Analysis of the Potential of Mangosteen Compounds as Glycoprotein Inhibitors 2019-nCoV Based on Computational Chemistry Approach: Molecular Docking
Consolation	BIO06	Thailand	1. Bowonchai Sukchaibowon 2. Pitayaporn Thongkoo 3. Siraprapa Pimdee	Study of Morphology and Prey Trapping Mechanism of <i>Dionea Muscipula</i> for Application



#3: Applied Science

Award	Project Number	Country	Student Name	Name of Project
First Prize	AP15	Thailand	1. Phandej Soisamuth 2. Theeradon Sakpetch	Semi-Supervised Learning with Graph Neural Networks to Improve the Predictive Performance of Drug Response for HIV-1 Protease Inhibitors
Second Prize	AP04	Indonesia	1. Farrel Aryo Wahyudi	Wrist Strap Innovation for Body Temperature (oC), Heart Rate (bpm), and Oxygen Saturation Level (%SpO2) Real-Time Monitoring Using Photoplethysmograph Method
Third Prize	AP10	Singapore	1. Jay Tan Jun Jie	Discrimination of Extra Virgin Olive Oil Adulteration Through Non-destructive Capacitance Methods
Consolation	AP05	Myanmar	1. Aung Kaung Pyae 2. Yoon Thiri Aung 3. Mya Phoo Khin	Macroscopic traffic flow models of Yangon, Myanmar for real-time travel time estimation
Consolation	AP11	Singapore	1. Jiayue Zou	Heterotrophic cultivation of microalgae in food waste digestate for simultaneous biomass production and nutrient remediation
Consolation	AP12	Singapore	1. Ryan Chin Rui En	Investigating the relationship between pH and the stability of oil-in-water emulsions with soy lecithin with Critical Coagulation Concentration of Potassium Chloride added via salt titration, and conductivity-derived emulsion stability
Consolation	AP14	Thailand	1. Panuwat Wongpattanawut	Program to Help Diagnose and Screen Patients for Symptoms of Lung Infection with COVID-19 by Categorizing the Hazard level from X-ray Film Images with Artificial Intelligence



ASPC PROJECT OF THE YEAR 2022

Award	Project Number	Country	Student Name	Name of Project
ASPC PROJECT OF THE YEAR 2022	AP09	Singapore	1. Eunice Ho	Artificial Metalloenzymes by Creation of Novel Catalytic Sites in DNA Scaffolds