

# QIU

QUEST INTERNATIONAL UNIVERSITY  
(DUO21(A))

# SDG STEERING COMMITTEE REPORT 2023



[www.qiu.edu.my/qiu-sdg](http://www.qiu.edu.my/qiu-sdg)

## Table of Contents

1. About Us	1
2. Framework of the QIU SDG Steering Committee	1
3. Contributions Towards the Sustainable Development Goals	3
4. Pictures	42



## 1. About Us

The QIU SDG Steering Committee continues to play a pivotal role in furthering the 2030 Agenda of the United Nations on the Sustainable Development Goals (SDGs). This committee, with members from diverse backgrounds, oversees the planning and implementation of various policies and initiatives within the University and the local community with the primary objective of raising awareness of the SDGs. This will in return improve the effectiveness and impact of the implemented initiatives.

## 2. Framework of the QIU SDG Steering Committee

The Framework of the QIU SDG Steering Committee is as below:

### **Vision**

Fostering sustainable development values, principles and practices in society

### **Mission**

To integrate sustainability in educational processes.

To implement strategies to drive impactful and sustainable change.

To collaborate with all segments of society to achieve the Sustainable Development Goals.

### **Core Values**

Respect

Integrity

Inclusiveness

Empathy

### **Motto**

Quest for Sustainability

Under this committee, four clusters have been established, each focusing on different areas of concern within the university to plan and implement initiatives aligned with the Sustainable Development Goals. These clusters are led by members of the QIU SDG Steering Committee, though cluster participants are not required to be committee members. This approach is intended to broaden staff involvement across diverse backgrounds. Student participation in these clusters is also encouraged.

**The four clusters and their objectives are:**

<b>Education</b>	To provide students and the local community with the knowledge, skills, and motivation to understand and address the challenges of the SDGs, and to empower and mobilise them for action.
<b>Research</b>	To research the causes behind SDG-related issues and craft solutions.
<b>Operations</b>	To align all University Policies, procedures, and activities with the SDGs.
<b>Leadership</b>	To create awareness and seek opportunities to engage at the city, state, national, and international level as an advocate for sustainable development.

A Diversity and Equality sub-committee was established to provide guidance on and implement policies, programs, and training focused on diversity, equity, inclusion, and human rights on campus. This six-member committee includes the Director of the Student Life Division, Deputy COO, Director of the Human Resource Division, Bursar, Dean of the Faculty of Social Sciences, and the Deputy Registrar. This sub-committee collaborates with various departments, leadership, and staff to foster an inclusive and diverse environment where everyone can thrive.

### 3. Contributions Towards the Sustainable Development Goals

The year 2023 began with great enthusiasm with the launch of the QIU Community Impact Programme – a collaboration between Quest International University and RYTHM Foundation, a social impact initiative of the QI group. The Community Impact Programme was launched on 31 January 2023. The primary objective of this initiative is to engage students, staff, and community partners in addressing pressing social, environmental, and economic needs and to create a lasting impact that aligns with the values of inclusivity, responsibility, and development.

The programmes and efforts carried out by QIU include:

**i. Free Tuition for Lower Income Schoolchildren**

The free tuition classes continued at SMK Seri Puteri in Buntong, Ipoh. The students were given extra coaching on STEM subjects as well as in the English language. Tuition classes were held twice a month on Saturdays. Two two-hour sessions were conducted for each subject. Lecturers from QIU volunteered their time to teach the students.

**ii. Greening the Earth Campaign**

This was an ongoing effort with four such programmes conducted in 2023. The venue for the tree planting, landscaping, and environmental clean-up was Taman Tasik Indah Park and Jogging Track in Tanjung Rambutan, Perak. This campaign was supported by the Perak Department of Drainage and Irrigation and the Global Environment Centre. Read more at <https://qiu.edu.my/qiu-co-hosts-world-rivers-day-celebration-promotes-conservation-in-perak/>.

The first activity was conducted on 14 January 2023, where 50 trees were planted and 9 bags of trash collected. The second activity on 17 June 2023 involved landscaping and cleaning the park. The third activity of the year was held in conjunction with World Rivers Day on the 24 September 2023. A fun-run and Zumba session were held, trees were planted, and a clean-up activity was also conducted. A rainwater harvesting tank was also installed at the park during the event. The last activity was held on the 14 October 2023, where further landscaping and clean-up of the park was done.

**iii. Inclusive Activities for Special Needs Children**

Fun sporting activities, song, dance, and arts and crafts activities were carried out monthly with children from Ray of Hope orphanage and the Perak Association for Intellectually Disabled (PAFID). Lecturers from the Faculties of Social Sciences and Business Administration were involved in these activities.

**iv. Financial Literacy Education**

A financial literacy workshop was held by the Faculty of Business Administration in collaboration with UOB Malaysia. A total of 109 undergraduates participated in this workshop, where they were inculcated with good financial sense and practices. This workshop was conducted on 7 June 2023.

This was followed by an investment literacy workshop held in collaboration with Hong Leong investment Bank on 4 October 2023. A total of 90 students participated in this workshop. The students were taught a wide range of foundational and practical topics to help them understand investing.

A financial literacy workshop was also conducted by lecturers from the Faculty of Business Administration for 30 teachers from the SJK(T) Tanjung Rambutan school.

**v. Healthy Eating Workshop II**

The Healthy Eating Practices in the Home & Understanding Food Labels Workshop II, the second in the series of healthy eating workshops, was organised by the Faculty of Medicine for the local community. This workshop was held in collaboration with Jabatan Pembangunan Wanita (JPW) Perak. There were 20 participants at this workshop. The objective of the workshop was to increase awareness of the importance of healthy eating habits in reducing non-communicable diseases (NCDs). The importance of food portioning and how to practice it was also explained to the participants. A talk on understanding food ingredients to help make better choices when purchasing processed foods was also conducted on 11 March 2023 at QIU.

**vi. Healthy Mind and Body Workshop**

This workshop with the theme 'Raising Awareness on the Importance of Mental Wellness and Body Fitness to Reduce Non-Communicable Diseases (NCDs)' was held on 23 September 2023 in collaboration with JPW Perak. There were 36 participants from the local community, who were taught key exercises for healthier living and made aware of activities that stimulate their brains. For relaxation, they were taught the techniques of deep breathing.

**vii. Horticulture Workshop II**

This workshop was organised by the Faculty of Integrated Life Sciences in collaboration with JPW Perak on 21 October 2023. It focused on the fundamentals of hydroponics and provided participants with the practical knowledge of setting up a mini-hydroponic model. There were 26 participants from the local community.

**viii. Health and Wellness Guide for Students**

This programme was organised by the Faculty of Medicine for the students of SMK Seri Puteri, Buntong, Perak. A total of 23 students were present during this event on 8 July 2023. The students were enlightened on how healthy eating habits, exercise, and outdoor activities could boost wellness and help ensure good health. Tips were also shared on how to develop positive attitudes for their overall well-being.

**ix. WaSH (Water, Sanitation and Hygiene) Programme with Children**

The Water, Sanitation, and Hygiene (WaSH) programme was organised by the University's SDG Steering Committee and Faculty of Medicine in collaboration with the Global Environment Centre on 11 November 2023 in Kampung Orang Asli Sungai Tonggang, Ulu Kinta, Perak. The programme was led by MBBS students and aimed at children aged between 9 and 12. Its main objective was to promote awareness of proper hygiene and health and wellness practices among the locals.

## LIST OF ONGOING RESEARCH PROJECTS INVOLVING QIU ACADEMIC STAFF IN 2023

No.	Project Leader	Research Title	Research Area	SDG Impacted	Impact on the SDGs	Brief Description of the Research
1.	ABDUL RAHEEM BIN MOHAMAD YUSOF (PROF DR)	An Empirical Study Of New Media Marketing, Customer Trust, And Purchase Intention In China Online Stores.	Online Marketing	4	Contribute to enhancing knowledge in the field of e-marketing	To study how online stores use new media marketing channels by understanding customers' trust and their intention to purchase in Hei Long Jiang, China.
2.	ABDUL RAHEEM BIN MOHAMAD YUSOF (PROF DR)	A Comparative Study Of The Impact Of Globalisation On The Development Of Mauritius And Singapore.	Global Economy and Business	4 and 10	Contribute to the field of knowledge and understand economic growth.	To study the impact of globalisation on the economies of Mauritius and Singapore using a modified human development index that take into consideration five factors: Health & Longevity, Education, Income, Income Inequality and Quality of Life.
3.	ABDULLAH KHAN (ASSOC. PROF DR)	Development And Pharmaceutical Characterization Of Brucine Loaded Phytosomal Gel.	Health Science	3	Development of advanced drug delivery for improved drug action.	This research involves the formulation of a pure compound of Brucine phytosomes and gel preparation to enhance its efficiency.
4.	ALLAN MATHEWS (DATUK DR)	Effect Of Environmental Temperature On The Quality Of Non-Cold Chain Pharmaceutical Products Supplied From Peninsular Malaysia To Sabah.	Health Science	3	Improvement of the quality of medicine and controlled supply chain for safety of medicines, and hence treatment quality.	This project involves a collection of selected anti-diabetic and cardiovascular drugs from Sabah and Peninsular Malaysia. Collected samples will be analysed using BP



						methods for content % and presence of impurities as per pharmacopeial standards.
5.	ALLAN MATHEWS (DATUK DR)	Impact Of Medical Ward Pharmacist Transcribing On Prescription Processing Time And Transcribing Errors In A Malaysian Tertiary Hospital: An Action Research.	Health Science	3	Quality improvement of pharmacy services to patients.	This study involves medical ward pharmacist transcribing on prescription processing time and transcribing errors in a Malaysian tertiary hospital. This will help to improve required services of pharmacy departments to patients in the healthcare system.
6.	ALLAN MATHEWS (DATUK DR)	A Study On Current Perception And Expectations Of Patients On Specialist Outpatient Ambulatory Pharmacist Services In Hospital Raja Permaisuri Bainun (HRPB) Ipoh.	Health Science	3	Quality improvement of pharmacy services to patients.	This project involves the perception and expectations of patients about Specialist Outpatient Ambulatory Pharmacist Services in Hospital Raja Permaisuri Bainun (HRPB) Ipoh. This will help to improve the required services of the pharmacy department to patients in the healthcare system.
7.	ALLAN MATHEWS (DATUK DR)	Areca Catechu Lin Extract Against Aedes Aegypti And Aedes Albopictus.	Health Science	3	Control of dengue through inhibition of larvae and mosquitoes.	This project involves the extraction of beetle nuts to study for larvicidal and inhibiting the growth of mosquitoes, hence controlling dengue.

8.	ALLAN MATHEWS (PROF. DATUK DR.)	Areca Catechu L. Extracts Against Aedes (Diptera: Culicidae).	Health Science	3	Control of dengue through inhibition of larvae and mosquitoes.	This project involves the extraction of beetle nuts to study for larvicidal and inhibiting the growth of mosquitoes, hence controlling dengue.
9.	AMAN SHAH BIN ABDUL MAJID	Medicine And Cosmetic Advertising: Content Analysis And Survey	Pharmaco-epidemiology	3	Regulatory control of medicine and cosmetic advertising, which impacts customer/patient safety and well-being.	A survey-based study that evaluates the impact of non-compliant advertising guidelines on consumer behaviour. It further evaluates the basis of underlying perceptions and acceptance towards regulatory, non-complaint medicine advertising.
10.	AMAN SHAH BIN ABDUL MAJID	Pilot RCT: Evaluation Of The Safety And Efficacy Of A Commercial Standardized Botanical Based ORS Beverage On Exercise Induced Fatigue Among Healthy Volunteers.	Sports Medicine	3	An interventional study which evaluates the role of a natural product-based supplement in addressing exercise-induced fatigue, which currently has an unmet need.	An industry sponsored non-regulatory pilot randomised control trial to assess the safety and efficacy of a commercially produced oral rehydration salt energy drink for managing exercise-induced fatigue.
11.	AMAN SHAH BIN ABDUL MAJID	A Randomized, Double-Masked, Placebo-Controlled Phase 1b/2a Study To Evaluate Clinical Efficacy And Safety Of Nuvastatic™ In Patients With Non-Proliferative Diabetic Retinopathy Without Center-Involved Diabetic Macular Edema.	Ophthalmology	3	Prevention and reduction of progression rate to end stage diabetic retinopathy among Type 2 Diabetics.	A regulatory approved phase-2 randomised controlled trial (clinicaltrials.org registered) to evaluate the safety and efficacy of a registered botanical medicine (Nuvastatic) for the management of non-

						proliferative diabetic retinopathy without macula involvement.
12.	ANBUSELVAN SANGODIAH (ASSOC. PROF. DR) / HANIZAN SHAKER (DR)	Dual Domain Clustering Approach In Exam Questions Based On Bloom's Taxonomy.	Artificial Intelligence (Machine Learning)	4	Since the project involves exam questions and Bloom's Taxonomy, it directly relates to improving the quality of education by enhancing assessment methods. A cluster approach could lead to better evaluation of students' understanding and cognitive skills, supporting inclusive and equitable education.	The Dual Domain Clustering Approach in Exam Questions Based on Bloom's Taxonomy likely involves the development of a method for categorising and analysing exam questions using a dual domain clustering technique, with Bloom's Taxonomy as the framework.
13.	ANJUNA RADHAKRISHNAN (DR)	Antimicrobial Activity Of Poonaikali, Ponnavarai, And Parangipattai Against Staphylococcus Aureus And Methicillin-Resistant Staphylococcus Aureus (MRSA).	Antimicrobials	3	Combat rising antimicrobial resistance and improve patient outcomes.	Anti-MRSA activities of poonaikali, ponnavarai and, paragipattai choornams were tested using the broth microdilution method after performing soxhlet extraction.
14.	ASHOK GNANASEKARAN (DR)	Biotechnology (Phytomedicine): Evaluation Of Antimicrobial And Wound Healing Properties Of Bioactive Fractions From The Extract Of Passiflora Sp. Stem.	Wound Healing	3	Improve quality of life.	The study explores the antimicrobial and wound healing properties of Adenia cordifolia stem using liquid-liquid extraction to prepare ACE fractions with solvents like chloroform, hexane, petroleum ether, and butanol. The combination of chloroform and hexane fractions showed

						enhanced antimicrobial activity against skin infection-causing microorganisms. Chloroform fractions exhibited the highest antioxidant activity in DPPH and ABTS assays. Anti-inflammatory analysis also confirmed the chloroform fraction's effectiveness. Collagen synthesis and wound closure were significantly higher in chloroform and hexane fractions. Angiogenic potential was confirmed in chorioallantoic membrane and rat aortic ring assays. Phytochemicals in these fractions may contribute to their healing effects. Thus, <i>Adenia cordifolia</i> shows promise for wound healing and antimicrobial applications, warranting further compound analysis.
15.	ASHOK GNANASEKARAN (DR)	Development Of Wound Healing Medicine From Passiflora Plant	Wound Healing	3	Improve quality of life.	The study explores the antimicrobial and wound healing properties of <i>Adenia cordifolia</i> stem using liquid-liquid extraction

						<p>to prepare ACE fractions with solvents like chloroform, hexane, petroleum ether, and butanol. The combination of chloroform and hexane fractions showed enhanced antimicrobial activity against skin infection-causing microorganisms. Chloroform fractions exhibited the highest antioxidant activity in DPPH and ABTS assays. Anti-inflammatory analysis also confirmed the chloroform fraction's effectiveness. Collagen synthesis and wound closure were significantly higher in chloroform and hexane fractions. Angiogenic potential was confirmed in chorioallantoic membrane and rat aortic ring assays. Phytochemicals in these fractions may contribute to their healing effects. Thus, <i>Adenia cordifolia</i> shows promise for wound healing and antimicrobial applications, warranting</p>
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						further compound analysis.
16.	ASHOK GNANASEKARAN (DR)	Effects Of Personal Dust Exposure And Respiratory Symptoms On Quality Of Life Among Limestone Quarry Workers At Keramat Pulai, Perak, Malaysia	Occupational Health And Safety	3	Reduce illnesses from pollution, promote healthy lifestyles and occupational health and safety.	This study evaluated the impact of dust exposure and respiratory symptoms on the quality of life (QOL) of limestone quarry workers at Keramat Pulai. Using the WHOQOL-BREF and MRC questionnaires, the research found that workers' QOL scores ranged between 79 to 83.78, with personal dust exposure levels below permissible limits. However, 13.9% of workers reported respiratory symptoms, including cough (8.7%), phlegm (4.4%), and wheezing (0.6%). Crystalline silica and inhalable dust were significantly associated with these symptoms, and smoking further increased the risk. Awareness programs on dust exposure and promoting a healthy lifestyle, including smoking cessation, are recommended.

17.	ASHOK GNANASEKARAN (DR)	Characterization And The Significance Of Clinical Isolates Of Burkholderia Pseudomallei In The State Of Perak, Malaysia.	Infectious Diseases	3	Target 3.3 - Combat infectious diseases, Target 3.4 - Reduce non-communicable diseases and mortality. target 3.d - Strengthen capacity for early warning, risk reduction, and management of health risks.	This study investigated the epidemiology of melioidosis in Perak, Malaysia, focusing on 119 clinical Burkholderia pseudomallei isolates from 2013-2020. The study found a significant association between diabetes and mortality (14.3%) in bacteremic cases. All isolates were sensitive to most antibiotics, except for one resistant strain (Bpl 24/14). Whole genome sequencing revealed potential resistance genes, including $\beta$ -lactam genes blaOXA-59 and blaOXA-57. No antimicrobial activity was observed from Curcumin and Labisia pumila extracts against B. pseudomallei. The study emphasises the need for better melioidosis surveillance and diagnostic methods.
18.	ASHOK GNANASEKARAN (DR)	Evaluation Of Anti-Arthritic Potential Of Rheumatigo Capsule (RC).	Rheumatoid Arthritis	3	Reduce Non-Communicable Diseases	Rheumatigo Capsule is a polyherbal formulation evaluated for its anti-arthritic activity in CFA-induced arthritis in rats. The

						study showed that RC significantly reduced paw thickness and restored altered hematological and biochemical parameters, demonstrating its potential as a treatment for rheumatoid arthritis.
19.	BEDANTA ROY (DR)	Relationship Of Heart Rate Variability Measures With Trait Emotional Intelligence In The Presence Of Acute Mental Stress.	Cardiovascular Physiology (Health Science)	3	Improving the quality of life by establishing the relationship between cardiac autonomic function and emotional intelligence in acute mental stress.	Emotional intelligence (EI) has been shown to be important factor in managing psychological stressful situations, and previous research has suggested a relationship between EI and psychological stress. However, there is a lack of data regarding the biological correlates of EI. This cross-sectional study aimed to investigate the relationship between TEI and heart rate variability (HRV), a non-invasive tool for measuring the status of the autonomic nervous system, which is known to be related to stress. The study design was cross-sectional, and the technique was non-probability convenience sampling in which we



						<p>included 55 participants after adjusting a 10% non-respondent rate. Trait emotional intelligence: Short form 30 questionnaires (TEIQue SF 30), short form of TEIQue 153, consists of two items from each of the 15 facets and e-probe 8.0.8 software for e-wave equipment to record heart rate variability (HRV) recording at three different time points, i.e. baseline, stress induction, and post-stress induction phase for 5 minutes each. The mental arithmetic task serial subtraction method was used to induce acute mental stress in laboratory settings, and the recovery phase lasted for 5 minutes. The data was analysed by descriptive statistical analysis, followed by suitable parametric or non-parametric statistical tests to reveal results for the variables of different time, frequency, and non-linear domains at</p>
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						<p>different time points. The findings from the t-pair test and Wilcoxon signed rank test indicated the presence and influence of a stressor over the HRV measure. There is a dynamic relationship between trait emotional intelligence and HRV in response to stress. Well-being and emotionality was more closely linked to various aspects of HRV, reflecting their broader influence on autonomic regulation and physiological adaptability. HRV may serve as a physiological indicator of emotional intelligence in the context of acute mental stress. Individuals with higher emotional intelligence exhibit greater autonomic flexibility and adaptive responses to stress. HRV can be considered as a potential marker for assessing emotional regulation and resilience in the face of acute mental challenges.</p>
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20.	BEDANTA ROY (DR)	The Influence Of Demographic Profile And Limb Dominance In Motor Nerve Conduction Velocity Among The Students Of Quest International University, Perak, Malaysia.	Nerve Muscle Physiology (Health Science)	3	Improving the quality of life through the factors associated with MNCV, helping the physicians diagnose better.	The motor nerve conduction velocity (MNCV) study is important in identifying nerve abnormalities by measuring the electrical activity and speed of electrical impulses travelling through the motor nerves. Age, gender, height, body mass index (BMI), ethnicity, and handedness will influence motor nerve conduction velocity studies. However, the findings on the limb dominance in influencing the nerve conduction velocity study are inconsistent, and there is minimal evidence of ethnic factors influencing the motor nerve conduction velocity in Malaysia. Therefore, this research aims to evaluate the effect of demographic factors especially on ethnicity, and limb dominance in influencing the motor nerve conduction velocity study. 110 Quest University students will be recruited to participate
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						<p>in this research. A small electrical current will be applied to the median nerve on the medial aspect of the elbow and the wrist to stimulate a motor nerve-supplying muscle, the abductor pollicis brevis (APB). Parameters such as the distal motor latency (DML), motor nerve conduction velocity, and distance between the elbow and wrist will be measured and recorded. This research demonstrates the motor nerve conduction velocity of the median nerve amongst Quest University students and examines the effect of demographic factors and dominant limb with statistical analysis. The mean value of motor nerve conduction velocity and distal motor latency is expected to have a significant difference in different ethnicities and the dominant limb in left-handed and right-handed individuals. This expected outcome may contribute to the suggestion of</p>
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						formulating separate normative nerve conduction velocity values for different ethnicities, or left-handed and right-handed individuals.
21.	BEDANTA ROY (DR)	Assessment Of Cardiac Autonomic Functions Amongst University Students With Type D Personalities.	Cardiovascular Physiology (Health Science)	3	Improving the quality of life through research by finding the correlations between persons with Type D personalities and cardiac autonomic functions.	The relationship between Type D personality traits and cardiovascular autonomic functions has been a subject of interest, particularly in understanding how psychological factors influence physiological responses. This study evaluates the impact of a Type D personality on heart rate variation during deep breathing, blood pressure response to standing, and sustained hand grip among male students at Quest International University, Perak, Malaysia. A total of 103 students aged 18 to 28 participated in the research, reflecting the university's diverse ethnic composition, with 42.7% Chinese and 38.8% Indian, and a predominant religious affiliation of Hinduism (33.0%) and Buddhism

						<p>(32.0%). Type D individuals, characterised by negative affectivity and social inhibition, exhibited higher average heart rates and more significant variability during the Orthostatic Tolerance Test (OTT) than non-Type D individuals. The heart rate distribution was skewed towards higher values among Type D individuals, while handgrip strength showed no significant difference between Type D and Non-Type D groups. These findings align with existing literature, which consistently reports higher cardiovascular risk factors among Type D individuals although cultural and methodological variations necessitate further research. The study underscores the importance of integrating psychological assessments such as Type D personality profiling into</p>
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						cardiovascular health screenings to develop personalised interventions. However, limitations such as a small sample size and cross-sectional design suggest the need for more extensive, longitudinal studies to better understand the long-term impact of Type D traits on cardiovascular health. Future research should also consider cultural and socio-economic factors to enhance the global applicability of these findings.
22.	HANIZAN SHAKER BIN HUSSAIN (DR)	Digital Medical Images Classification In Steganography Using Machine Learning.	Artificial Intelligence (Machine Learning)	3 and 9	The application of machine learning and steganography (a technique for hiding information) is an innovative approach that could transform the way sensitive medical data is stored, shared, and processed. This aligns with SDG 9, which encourages the adoption of modern technologies in industries including healthcare.	Digital Medical Images Classification in Steganography Using Machine Learning combines three important fields: medical imaging, steganography, and machine learning. In this project, steganography could be applied to medical images to embed confidential information (like patient records or diagnostic reports) in the image itself. The hidden data is imperceptible to the

						naked eye, making it secure during transmission across networks. The combination of medical image classification and steganography ensures both efficient and secure management of medical data.
23.	HEMA A/P RAMACHANDRAN (DR)	Fabrication And Characterisation Of P(3HB-Co-3hhx)/Claytone Nanocomposite Films For Food Packaging Applications.	Industrial Biotechnology	12 and 14	Ensure sustainable production and application of bioplastics, which protect marine resources and terrestrial ecosystems.	This study was aimed at developing PHA/Claytone nanocomposite films with enhanced properties for the food packaging application and investigating its efficiency using a real model system.
24.	HEMA A/P RAMACHANDRAN (DR)	Formulation And Evaluation Of P(3HB-Co-3hhx)/ <i>Passiflora</i> Sp. Transdermal Patches.	Industrial Biotechnology	3 and 12	Ensure sustainable production and application of bioplastics, which protect the well-being of humans.	In this study, a transdermal patch was developed by incorporating <i>Passiflora</i> sp. plant extract into P(3HB-co-3HHx) polymer using the solvent casting method. Different formulations of enhancer and pressure sensitive adhesive were assessed based on the physiochemical, antibacterial, and biodegradability properties of the transdermal patch.



25.	HEMALATHA A/P MURUGAIAH	Antioxidant, Antibacterial, And Antibiofilm Study Of Silver Nanoparticles Synthesized Using Streptomyces Sp. PBD-311B.	Nanotechnology	3 and 12	Silver nanoparticles provide a sustainable alternative to antibiotic resistant bacteria, supporting public health and responsible consumption.	Silver nanoparticles
26.	HEMALATHA A/P MURUGAIAH	Development Of Silver Nanoparticles/PVA Hydrogel Nanocomposite: Characterisation, Antimicrobial And Antibiofilm Study.	Nanotechnology	3 and 12	Silver nanoparticles provide a sustainable alternative to antibiotics resistant bacteria supporting public health and responsible consumption.	This research focuses on developing silver nanoparticles/polyvinyl alcohol hydrogel nanocomposite, followed by its characterization and evaluation of antimicrobial and antibiofilm properties.
27.	KANAKESWARY A/P KARISNAN@KRISHNAN (DR)	Evaluation Of Anti-Fatigue Properties Of Roxelle™ Sports Drink In Moderate Endurance Exercise Among Male Young Adults.	Exercise Physiology	3	Healthy living	This project evaluates the ability of a natural product Roxelle™ to reduce exercise fatigue and improve exercise performance.
28.	KARTHIKEYAN MURUGESAN (DR)	Antibacterial Activity Of Passiflora Against Methicillin-Resistant Staphylococcus Aureus (MRSA).	Ethanopharmacology	3	Improve quality of life	Anti-MRSA activities of ponaikali, ponnavarai and paragipattai choornams were tested using the broth microdilution method after performing soxhlet extraction.
29.	KOH CAI PING (DR)	Establishment Of In Vitro Cell-Based Model To Study IL-23/IL-23r Signaling Pathway In Enhancing T-Cell Proliferation.	Immunology	3	Improve healthcare	To reveal IL-23 mediated JAK/STAT Signaling in enhancing T-cell survival.

30.	KOH CAI PING (DR)	Establishment Of IL-23 Cell-Based System To Screen For Cytotoxic Compounds.	Immunology	3	Improve healthcare	To reveal IL-23 mediated JAK/STAT Signaling in enhancing T-cell survival.
31.	KOH CAI PING (DR)	In Vitro Cell-Based Analysis Of The Immunomodulation And Toxicity Of Pometia Pinnata And Nephelium Ramboutan-Ake Plant Extracts.	Immunology	3	Improve healthcare	To study immunomodulation of P. amboinicus against Candidiasis.
32.	KOH CAI PING (DR)	Effects Of Mefenamic Acid On Dose Dependent Acute Alcohol Induced Cognitive Impairment And Memory Loss In Fish Betta Splendens.	Neuroscience	3	Improve healthcare	To understand the effect of mefenamic acid in alcohol induced cognitive impairment and memory loss using the beta fish model.
33.	KOH CAI PING (DR)	Regulation Of Fatty Acid Synthesis In Prenatal And Postnatal Valproic Acid-Induced Autism Spectrum Disorder Model	Neuroscience	3	Improve healthcare	The study aims to assess and characterise behavioural, cognitive, and physiological phenotypes in VPA-exposed rats. By evaluating a range of behaviours, such as social interactions, communication, and repetitive behaviours, this study creates a comprehensive profile of ASD-like traits in this model, which could aid in understanding the underlying mechanisms of the disorder.
34.	KOMALA A/P THIRUMALAI (DR)	Isolation And Identification of Calcite-Forming Bacteria (CFB)	Microbiology, Molecular Biology, Genetics.	13	Considering the climate change issue, which is caused by excess	To isolate and identify calcite-forming bacteria

					amount of carbon dioxide, calcite forming bacteria shall be utilised for carbon dioxide sequestration	using molecular markers.
35.	KOMALA A/P THIRUMALAI (DR)	In-Vitro Anti-Arthritic And Antioxidant Analysis Of Ethanolic Extract Of Hanguana Malayana (Jack) Merr.	Biochemistry, Arthritis	3	Many plants are used either directly as medicine or form the basis of derived medicines. Therefore, the plant of interest in this study has potential medicinal usage in line with SDG3 and is a possible commodity in line with KEGA7.	To evaluate the in-vitro and anti-arthritic potential and antioxidant properties of ethanolic extracts of H. malayana.
36.	KOMALA A/P THIRUMALAI (DR)	Comparison Between Housekeeping Genes And 16S rRNA Molecular Marker Of Closely Related Bacillus Species.	Microbiology, Molecular Biology, Genetics	13	Considering the climate change issue, which is caused by excess amount of carbon dioxide, calcite forming bacteria shall be utilised for carbon dioxide sequestration.	To identify calcite forming bacillus using housekeeping genes for species identification.
37.	KOMALA A/P THIRUMALAI (DR)	Deciphering In-Vivo Anti-Arthritic Potential Of Hanguana Malayana (Jack) Merr Ethanolic Extracts.	Biochemistry, Arthritis	3	Many plants are used either directly as medicine or form the basis of derived medicines. Therefore, the plant of interest in this study has potential medicinal usage in line with SDG3 and is a possible commodity in line with KEGA7.	To evaluate the in-vivo anti-arthritic potentials of ethanolic extracts of H. malayana in complete Freund's adjuvant (CFA)-induced rheumatoid arthritis in rats.
38.	LEE CHEE LEONG (PROF. DR)	Research On The Improvement Of Shared Warehouse Information	Information System	9	To foster innovation in the management system	The aim of this research is to develop a robust warehouse

		Management Framework Based On Big Data And Blockchain.			for sustainable industrialisation.	management information system for industry use.
39.	LEE CHEE LEONG (PROF. DR)	Enhanced Artificial Bee Colony (ABC) Algorithm In Conventional And Islamic Portfolio Optimisation.	Mathematical Optimisation	9	To foster innovation in the mathematical method for sustainable industrialisation.	The aim of this research is to develop a more robust algorithm that combines the global search strengths of the Artificial Bee Colony (ABC) algorithm with the local refinement efficiency of the Steepest Descent method.
40.	NURLIYANA MOHD SHUHAIRI (DR)	Simultaneous Saccharification And Fermentation (Ssf) Of Locally Isolated Green Microalgae For Potential Bioethanol Production.	Waste To Energy	7 and 13	To significantly contribute to climate action by carbon sequestration and reducing GHG emission as algal biofuels produce lower emissions than fossil fuels. Algal biofuels can complement existing energy sources, providing a versatile alternative to fossil fuels, and contributes to a cleaner and affordable fuel to support SDG7.	This project aimed to determine the suitability of locally isolated green microalgae as a feedstock for bioethanol. The acid hydrolysis process was used to convert available fermentable sugars in the algae into bioethanol. The rate of conversion determined the efficiency and suitability of the algae as a bioethanol feedstock.
41.	LOKE SIEW PHAIK (DR)	Understanding Customer Loyalty Among Businesses In The Malaysian Furniture Industry.	Retail Management	8	Supporting sustained economic growth, creating job opportunities, and promoting fair labour practices, which are essential for developing a resilient and	To understand customer loyalty in the B2B context.

					sustainable furniture sector in Malaysia.	
42.	LOKE SIEW PHAIK (DR)	Examining The Impact Mechanism Of Teleworking On Chinese Knowledge Workers' Well-Being And Relationship With Organisations	Organisational Theory	3	Promoting good health and well-being, ensuring a healthy work-life balance, and fostering mental health in the evolving work environment in China.	To evaluate what drives work-life balance in the evolving working environment.
43.	LOKE SIEW PHAIK (DR)	Gen-Z Personal Brand Equity And Social Capital For Digital Entrepreneurship In China	Entrepreneurship	8	Promoting entrepreneurship in Malaysia by fostering sustainable economic growth, encouraging innovation, and creating decent job opportunities, which are vital for empowering local entrepreneurs and driving the nation's economic development.	To investigate personal brand equity and other related factors in influencing digital entrepreneurship in China.
44.	LOKE SIEW PHAIK (DR)	Understanding The Core Competitiveness Of Chinese Express Logistics Enterprises: Dual Perspectives Of Customers And Enterprises	Logistics Management	9	Supporting express logistics industry in China by driving sustainable economic growth, improving the speed and efficiency of delivery networks, and creating decent jobs, which strengthens both domestic and international trade.	To examine different perspectives of customers and enterprises on China's Express Logistics Competitive Advantage.
45.	LOKE SIEW PHAIK (DR)	The Future Generation Of Malaysia: Gen Z Entrepreneur Business Strategies.	Entrepreneurship	8	Promoting entrepreneurship in Malaysia by fostering sustainable economic growth, encouraging innovation, and creating	To investigate Malaysia's digital entrepreneurs.

					decent job opportunities, which are vital for empowering local entrepreneurs and driving the nation's economic development.	
46.	LOOI SHU YING	Design And Characterization Of Ellagic Acid Phytosomal Gel.	Health Science	3	Development of advanced drug delivery for improved drug action.	This research involves the formulation of a pure compound of Ellagic Acid phytosomes and gel preparation to enhance its efficiency.
47.	MAHIBUB MAHAMADSA KANAKAL (DR)	Product Development Of Senna Alata Leaf Extracts	Health Science	3	Antifungal topical preparations for skin infections.	This project involves formulation, upscaling, and commercialisation of topical preparations for antimicrobial applications on the skin, improving skin health and revolving skin problems.
48.	MAHIBUB MAHAMADSA KANAKAL (DR)	Study On Role Of Herbal Products And Treatment Models For Oral Cancer Management.	Health Science	3	Improve cancer treatment.	This study collected data from healthcare organisations on the use of various treatment models and compared their success rates. It also involved the data of treatment models, their impact in combination with herbal treatments for oral cancer, and their respective success rate analysed to demonstrate impactful treatment models.

49.	MAHIBUB MAHAMADSA KANAKAL (DR)	Development And Evaluation Of Phytosomal Gel Of Isolated Colchicine.	Health Science	3	Development of advanced drug delivery for improvement of drug action.	This research involves the formulation of a pure compound of Brucine phytosomes and gel preparation to enhance its efficiency.
50.	MAHIBUB MAHAMADSA KANAKAL (DR)	Research & Development On Skincare, Personal Care And Healthcare Solutions.	Health Science	3	Improved skin care treatment with innovative formulation for anti-aging and antimicrobial effect.	This research involves the formulation of multi-compound extracts from selected antioxidants. Their aging efficiency will be formulated into topical preparations, and their ex vivo efficiency will be studied using a suitable model.
51.	MAISARA SHAHROM BINTI RAJA SHAHROM (DR)	Elucidation On The Dissolution Behaviour Between Chitosan-Ionic Liquids Complex Supported On Sio2 For Heavy Metal Extractions.	Applied Science	6	Clean water	Heavy metal extraction using chitosan dissolves in ionic liquids supported with silica.
52.	MAISARA SHAHROM BINTI RAJA SHAHROM (DR)	Elucidation On The Dissolution Behaviour Between Chitosan-Ionic Liquids Complex Supported On Sio2 For Heavy Metal Extractions.	Applied Science	6	Clean water	Heavy metal extraction using chitosan dissolves in ionic liquids supported with silica.
53.	NG YEN PING (ASSOC PROF DR)	A Randomised Clinical Trial, Open-Label Single Centre Study To Evaluate The Efficacy And Safety Of Pentoxifylline (PTX) For Renoprotection In Diabetic Kidney Disease (DKD).	Health Science	3	Improve healthcare	Improve the quality of health and reduce the healthcare budget (sustainable healthcare).

54.	NURUL DAYANA BINTI MAHIZIR (DR)	Unravelling Placental Leptin Signalling In Valproic Acid (VPA)-Induced Autism.	Neurodevelopment	3	Provide valuable insights into the involvement of the placenta in neurodevelopmental disorders and contribute to the identification of novel biomarkers or therapeutic targets for autism spectrum disorder (ASD).	This study investigates the role of placental leptin signalling in autism spectrum disorder (ASD). It aims to understand how leptin, a hormone involved in regulating energy balance and metabolism, affects foetal brain development and the potential mechanisms linking VPA exposure to the development of ASD.
55.	NURUL DAYANA BINTI MAHIZIR (DR)	Sub-chronic Kratom Treatment Induces Hallucinatory-Like Behaviours In Rats.	Neurobehavioural	3	Health implications of kratom use	The study aims to assess how sub-chronic exposure to kratom influences neurological and behavioural changes, particularly focusing on hallucinatory behaviours.
56.	NURUL DAYANA BINTI MAHIZIR (DR)	Antifungal And Nephroprotective Effects Of Plectranthus Amboinicus In Rats With Induced Candidiasis.	Antifungal, Candidiasis	3	Potential antifungal drugs against candidiasis.	This study investigated the antifungal and nephroprotective effects of the Plectranthus amboinicus plant in rats induced with candidiasis.
57.	NURUL DAYANA BINTI MAHIZIR (DR)	Characterisation Of Autism Spectrum Disorder Phenotypes In Rats Induced With Valproic Acid.	Neurodevelopment	3	Development of a rat model of autism spectrum disorder (ASD) using valproic acid (VPA), a known teratogen that has been	The study aims to assess and characterise behavioural, cognitive, and physiological phenotypes in VPA-



					associated with increased risk of ASD when administered during pregnancy in humans.	exposed rats. By evaluating a range of behaviours, such as social interactions, communication, and repetitive behaviours, this study creates a comprehensive profile of ASD-like traits in this model, which could aid in understanding the underlying mechanisms of the disorder.
58.	ONG KHANG WEI (DR)	Sub-chronic Administration Of Mitragyna Speciosa Extract Induces Neurodegenerative Changes And Oxidative Stress In Rats.	Neurodegeneration	3	Potential neuro-degenerative pathways caused by recreational drugs.	<p><u>General Objective:</u> To evaluate the effects of sub-chronic administration of Mitragyna speciosa on the generation of reactive oxygen species (ROS).</p> <p><u>Specific Objectives:</u></p> <ul style="list-style-type: none"> <li>i. To evaluate the effect of Mitragyna speciosa on the rats' physical well-being and tolerance to the drug.</li> <li>ii. To assess the degree of oxidative stress induced by two different concentration ranges of Mitragyna speciosa in the brain through biochemical and histopathological investigations.</li> <li>iii. To determine the effects of Mitragyna speciosa-induced</li> </ul>

						oxidative stress on the neuroanatomy of adolescent rats.
59.	ONG KHANG WEI (DR)	Dysregulation Of Mitochondrial Respiratory Complex Enzyme Activities In A Valproic Acid-Induced Autism Spectrum Disorder Model.	Neurodevelopment	3	Patogenesis of autism spectrum disorder using a drug-induced model.	The present study aimed to address these gaps by investigating the long-term effects of prenatal VPA exposure on mitochondrial activity in the brain of neonates (day 1) and young adults (day 21). By exploring whether mitochondrial dysfunction persists, improves, or worsens over time, we aim to gain a comprehensive understanding of the neurodevelopmental effects of VPA exposure during critical stages of brain development.
60.	ONG KHANG WEI (DR)	Antifungal And Hepatoprotective Effects Of Plectranthus Amboinicus In Rats With Induced Candidiasis.	Antifungal; Herbal Medicine	3	Potential antifungal compounds.	This research is aimed at assessing the antifungal and hepatoprotective properties of the methanolic extract of Plectranthus amboinicus (PAME) via in-vivo and in-vitro studies.
61.	PARAN ANAK GANI (DR)	Critical Evaluation Of Vetiver Grass (Vetiveria Zizanioides) On Enhanced				

		Phytoremediation In Highly Contaminated As And Cr Soil Conditions In Malaysia.				
62.	POH WOON CHENG (DR)	Antifungal Activity Of Plectranthus Amboinicus Against Candidiasis: In Vitro And In Vivo Studies.	Candidiasis, Antifungal, Natural Product	3	Potential antifungal drugs to against candidiasis.	In this study, we aim to investigate the antifungal activity of P. amboinicus using both in vitro and in vivo methods. The antifungal activity of the P. amboinicus will be examined via disk diffusion assay, followed by determining the minimal inhibitory concentration (MIC) of P. amboinicus extract using the standard method. For the in vivo antifungal study, Candida sp. will be injected into immunosuppressed rats to induce systemic candidiasis. The infected rats will be screened by a fungal blood culture test and then divided into control (no treatment), positive (Amphotericin B), and treatment (P. amboinicus) groups. The in vivo antifungal effects of P. amboinicus will be examined by measuring the metabolic biomarkers, such as blood urea

						nitrogen (BUN), aspartate aminotransferase (AST), and alanine aminotransferase (ALT) levels using the standard kits. Lastly, the histopathological examination will be performed to inspect the changes between the treated and the control groups.
63.	POH WOON CHENG (DR)	Antifungal Activities Of Plectranthus Amboinicus And Its Endophytes Against Candida Spp.	Candidiasis, Antifungal, Endophytes	3	Potential antifungal drugs to treat candidiasis.	This study aims to investigate the antifungal effects of endophytes derived from P. amboinicus.
64.	POH WOON CHENG (DR)	Regulation Of Fatty Acid Synthesis In Prenatal And Postnatal Valproic Acid-Induced Autism Spectrum Disorder Model.	Autism Spectrum Disorder	3	Investigate the underlying causes of ASD, which are crucial for early screening and diagnostic purposes.	In this study, we aim to investigate the dysregulation of PUFA metabolism in ASD-induced rat model. The expression level of genes from different pathways of PUFA such as the biosynthesis pathway, beta-oxidation pathway, and proinflammatory pathway will be analysed using semi-quantitative analysis.
65.	POH WOON CHENG (DR)	Immunomodulatory Effects Of Plectranthus Amboinicus In Rats With Induced Candidiasis.	Candidiasis, Antifungal, Natural Product	3	Potential antifungal drugs to treat candidiasis	In this study, we aim to investigate the immunomodulatory effect of P. amboinicus in treating the systemic

						candidiasis induced in rats.
66.	RAJESPARI A/P KUMAR	Unveiling The Financial Literacy Landscape: Developing An Academics Financial Literacy Index In Malaysia	Financial Literacy	4	Ensure quality financial literacy that is inclusive and equitable.	Through this study, we will create an index on Financial Literacy among academics and understand in improving financial literacy among academics.
67.	RANJETTA POOBATHY (DR)	Influence Of Plant Growth Regulators On Anthocyanin Production In Ludisia Discolor, A Jewel Orchid	Plant Biotechnology (Plant Tissue Culture)	3, 15	The project aims to conserve Ludisia discolor, a rare orchid plant, while presenting an alternative to commercial anthocyanin production for human health.	Orchids in the subtribe Goodyerinae are known as Jewel orchids due to the colouration and distinctive markings of the leaves of the orchid plants. The terrestrial and perennial Ludisia discolor, is prized for the quality of its leaves as well as its medicinal properties. Populations of L. discolor in Malaysia has reduced greatly from its original abundance due to over-harvesting. Hence, there is an urgent need for addressing the dwindling numbers of the orchid species in the wild. Plant tissue culture using plant growth regulators (PGRs) is considered a viable propagation technique for conservation and

						secondary metabolite production. This study aimed to conserve populations of <i>L. discolor</i> while increasing anthocyanin production through tissue culture.
68.	RANJETTA POOBATHY (DR)	Influence Of Plant Growth Regulators On Callus Induction And 20-Hydroxyecdysone (20E) Production In Edible Amaranth ( <i>Amaranthus Tricolor</i> ).	Plant Biotechnology (Plant Tissue Culture)	2, 14	The project addresses food security by presenting an alternative method to induce moulting in crustaceans via tissue culture-produced ecdysteroids.	In this study, in vitro hypocotyls and leaf explants obtained from surface-sterilised seeds of <i>A. tricolor</i> were subjected to various plant growth regulator combinations to amplify ecdysteroid production. The induced callus was subjected to drying and extraction to quantify the ecdysteroid content as well as other steroids to assess for synergism in terms of the bioactivity of the tissues.
69.	RANJETTA POOBATHY (DR)	Influence Of Elicitation On Callus Induction And 20-Hydroxyecdysone (20E) Production In Edible Amaranth ( <i>Amaranthus Tricolor</i> ).	Plant Biotechnology (Plant Tissue Culture)	2, 14	The project addresses food security by presenting an alternative method to induce moulting in crustaceans via tissue culture-produced ecdysteroids.	In this study, in vitro hypocotyls and leaf explants obtained from surface-sterilised seeds of <i>A. tricolor</i> were subjected to various elicitor combinations to amplify ecdysteroid production. The induced callus was subjected to drying and extraction in order to quantify the ecdysteroid

						content as well as other steroids to assess for synergism in terms of the bioactivity of the tissues.
70.	RANJETTA POOBATHY (DR)	Micropropagation Of Bentong Ginger (Zingiber Officinale Rosc.)	Plant Biotechnology (Plant Tissue Culture)	1, 2	The project addresses food security and income generation among farmers.	Bentong ginger (Zingiber officinale Rosc.), cultivated in Bukit Tinggi, Bentong, is renowned for its aroma and numerous medicinal qualities originating from its cultivation on freshly opened forestlands, hence requiring new fertile lands every few years. Crop yields from recycled lands are a fraction of that obtained from new lands. Ginger is conventionally propagated through rhizomes. Breeding is hampered by poor flowering and seed set, slow propagation rates, and risks of disease transmission through infected rhizomes. As such, plant tissue culture using plant growth regulators (PGRs) is considered a viable propagation technique. This research aims to improve Bentong ginger cultivation

						prospects for local farmers through micropropagation and plant biotechnology.
71.	SARAH STEPHENIE A/P JOHN SANDANARAJ	Antimicrobial Evaluation Of Berberis Vulgaris And Kabasura Kudineer Against Methicillin Resistant Staphylococcus Aureus (MRSA).	Health Science	3	This research could contribute to innovative, accessible, and sustainable healthcare solutions that address key SDG targets and promote global health resilience.	The focus on evaluating natural compounds like Berberis vulgaris and Kabasura Kudineer against MRSA aligns with efforts to combat antimicrobial resistance, a growing global health challenge. The study can help discover alternative or complementary treatments, reducing reliance on traditional antibiotics and slowing the development of resistant strains.
72.	SYED ATIF ABBAS (PROF DR)	The Study Of Anti-Diabetic Activity Of Clinacanthus Nutans Lindau Methanolic Leaves Extract.	Health Science	3	Traditional medicines for diabetic treatment.	This study involves Anti-Diabetic Activity of Clinacanthus Nutans Lindau Methanolic Leaves Extract and investigates its effectiveness in managing type-2 diabetes.
73.	TEH CHUI YAO (DR)	Elucidating The Role Of Proline In Enhancing Phosphorus Use Efficiency In Rice Cultivation Under Phosphorus Deficient Condition.	Biotechnology	2, 12, 13	The findings from this research could help improve rice productivity and reduce the reliance on phosphorus fertilisers.	Fertiliser application in agriculture is neither always available nor affordable for resource-poor farmers. Among the major nutrients, P is often the element least accessible to plants



						<p>due to its extremely low diffusion rate and substantial fixation by soil minerals. Therefore, improving phosphorus use efficiency has become a major goal across the globe concerning plant nutrition. Although there is evidence suggesting the involvement of proline in improving root growth and larger root biomass is an important feature for plants grown under P deficient conditions, no study has been conducted so far to elucidate the relationship between proline application and phosphorus acquisition in rice. The understanding of this relationship is essential to formulate strategies for improving phosphorus use efficiency in rice, as well as other economically important crops.</p>
74.	TEH CHUI YAO (DR)	Effect Of Proline Priming On The Germination And Expression Of GA And ABA Metabolism Genes In Rice Under Salinity Stress.	Biotechnology	2, 12, 13	The findings from this research could help to improve rice seed vigour.	The cultivation of rice on irrigated lands is often affected by soil salinity. For instance, increased salinity levels

						can significantly reduce the germination percentage and early seedling development in different rice varieties. This study aims to investigate the effect of proline priming on the germination of rice under salinity stress.
75.	VIJAY KOTRA (ASSOC. PROF DR)	Analytical Chemistry, Development And Ex-Vivo Evaluation Of Immunochromatography Strip For Therapeutic Drug Monitoring (TDM) Of Vancomycin Using Human Plasma.	Health Science	3	Development of a rapid TDM test kit which can be deployed in remote areas and prove cost effective.	This study involves development of an Immunichromatographic strip for TDM of vancomycin, which is currently done in an expensive hospital set-up using non-mobile instruments. This will resolve the issue of access to rapid TDM analysis for vancomycin.
76.	VIJAY KOTRA (ASSOC. PROF DR)	Exploring The Mechanism Of Action Of Chinese Traditional Medicine On Breast Cancer Based On Datamining And Network Pharmacology.	Health Science	3	Establishment of evidence for treatment using TCM for breast cancer.	This study involves data mining of MOA for breast cancer using various TCM. Evidence collected through data mining will be analysed, and selected TCM will be studied on breast cancer cell lines for their efficiency.
77.	WENDY LIU YING YING (ASSOC. PROF DR)	Deciphering The Anti-Cancer Potential And Mechanism Of The Action Of Bacterial Endophytes Associated With	Microbiology	3	Potential complementary/alternative treatment for colon cancer.	This study explores the potential and mechanism of the action of bacterial endophytes derived

		Annona Muricata (L.) Against Colon Cancer.				from leaves of Annona muricata in its in vitro ability to inhibit the growth of colon cancer cell lines.
78.	WENDY LIU YING YING (ASSOC. PROF DR)	Effect Of Nutrient Priming On The Germination, Growth, And Nutritional Values Of Amaranthus Cruentus Under Drought Stress.	Seed Priming	15	Easy and cost-effective method to help improve germination and growth of plants in unfavourable environmental conditions.	This study investigated the effects of boron and iron priming on the germination and growth of A. cruentus under drought stress, and it was found that specific concentrations of these nutrients were able to improve the germination and growth parameters of the plant under drought stress.

All faculties at QIU engage in research that contributes to advancing various Sustainable Development Goals.

The SDGs under study include:

**SDG 1** - No poverty

**SDG 2** - Zero hunger

**SDG 3** - Good health and well-being

**SDG 4** - Quality education

**SDG 7** - Affordable and clean energy

**SDG 8** - Decent work and economic growth

**SDG 9** - Industry, Innovation and Infrastructure

**SDG 10** - Reduced inequalities

**SDG 12** - Responsible Consumption and Production

**SDG 13** - Climate action

**SDG 14** - Life below water

**SDG 15** - Life on land

# PICTURES

## GREENING THE EARTH CAMPAIGN



## INCLUSIVE ACTIVITIES FOR SPECIAL NEEDS CHILDREN



## FINANCIAL LITERACY EDUCATION



**WITH UOB**



**WITH HLIB**

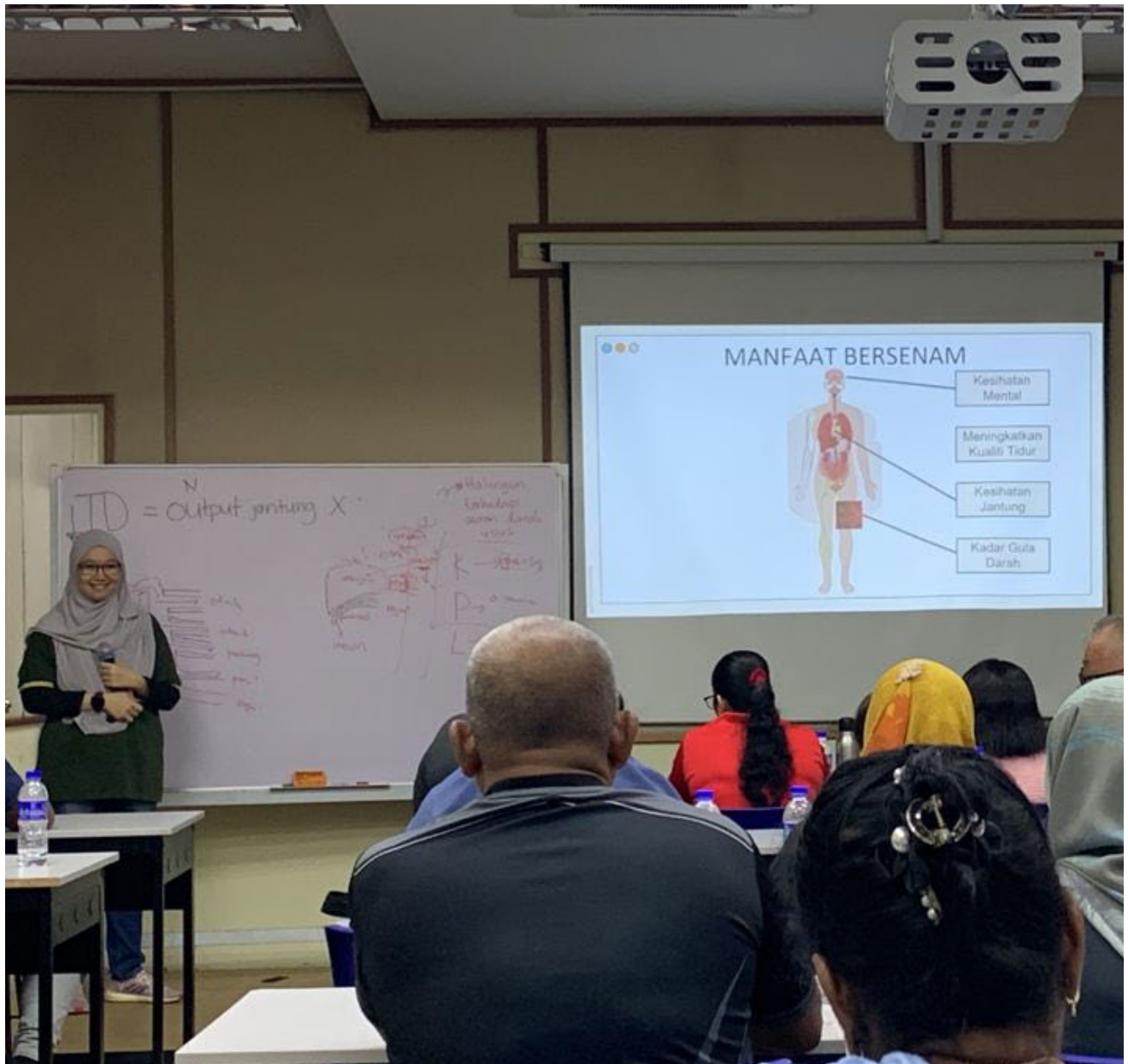


**WORKSHOP AT SJK (T) TANJUNG RAMBUTAN**

# HEALTHY EATING PRACTICES



# HEALTHY MIND AND BODY WORKSHOP





# HEALTH AND WELLNESS GUIDE FOR STUDENTS





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