

| NO | GRANT TYPE | GRANT NAME                                     | PROJECT TITLE   | PRINCIPAL INVESTIGATOR              | DATE START | DATE END   | AMOUNT AWARDED (RM) |
|----|------------|--|---|-------------------------------------|------------|------------|---------------------|
| 1  | NATIONAL   | LEMBAGA PEMASARAN PERTANIAN PERSEKUTUAN (FAMA) | PEMBANGUNAN FORMULASI PRODUK KEREPEK UBI KAYU   | AISAH BT BUJANG (DR)                | 9/1/2022   | 12/30/2023 | 19,991.60           |
| 2  | NATIONAL   | EXTERNAL GRANT                                 | KETERLIBATAN KOMUNITI DALAM KEMAHIRAN PEMBUATAN SABUN DARI MINYAK MASAK TERPAKAI (MINYAK JELANTAH)  | ZAINIHARYATI BINTI MOHD ZAIN        | 3/15/2022  | 3/14/2023  | 5,000.00            |
| 3  | NATIONAL   | NIOSH  | DERMAL EXPOSURE OF OIL PALM PLANTATION WORKERS TO ORGANOPHOSPHATE PESTICIDES  | ISMANIZA BINTI ISMAIL               | 3/1/2022   | 2/28/2023  | 54,950.00           |
| 4  | NATIONAL   | PEJABAT SETIAUSAHA KERAJAAN NEGERI SELANGOR    | WASTE PLASTIC PET BOTTLE RECYCLING PROGRAMME FROM WASTE WEALTH  | RAHMAH BINTI MOHAMED                | 4/1/2022   | 8/18/2022  | 15,000.00           |
| 5  | NATIONAL   | GPM  | Strategies for UiTM Transformation Plan 2025-2035 (UTP2535)   | MOHAMAD FAIZUL BIN YAHYA            | 5/1/2022   | 4/30/2023  | 10,000.00           |
| 6  | NATIONAL   | GPM  | DEVELOPMENT OF STRATEGIC ACTION PLAN (SAP) RISK MANAGEMENT FRAMEWORK  | ZAIBUNNISA BINTI ABDUL HAIYEE       | 5/1/2022   | 4/30/2023  | 10,000.00           |
| 7  | NATIONAL   | GPM  | Prevalence of Antibiotic Resistance Genes in Pathogens Associated with Livestock Farm   | NORASHIRENE BINTI MOHAMAD JAMIL     | 7/1/2022   | 6/30/2024  | 20,000.00           |
| 8  | NATIONAL   | DINAMIK POSTDOC                                | NEUROPROTECTION PROPERTIES OF LACTIC ACID BACTERIA ISOLATED FROM PENGUIN GUANO IN ANTARCTIC REGION  | SHARIFAH AMINAH BT SYED MOHAMAD     | 8/1/2022   | 7/31/2023  | 76,608.00           |
| 9  | NATIONAL   | FRGS   | SYNTHESIS OF HYRTIOSULAWESINE AND ITS NOVEL DERIVATIVES VIA PICTET-SPENGLER REACTION TOWARDS THE DISCOVERY OF POTENTIAL ANTIMALARIAL AGENTS   | NOOR HIDAYAH BINTI PUNGOT           | 9/1/2022   | 8/31/2023  | 169,719.00          |
| 10 | NATIONAL   | FRGS   | INSIGHT INTO PHYSICOCHEMICAL AND MECHANICAL PROPERTIES OF MODIFYING PINEAPPLE PEEL HEMICELLULOSE-BASED NANOCOMPOSITE HYDROGEL ENHANCED BY GLUTARALDEHYDE CROSSLINKER  | SABIHA HANIM BINTI SALEH            | 9/1/2022   | 8/31/2024  | 80,300.00           |
| 11 | NATIONAL   | FRGS   | ENHANCEMENT ON ELECTRONIC AND OPTICAL PROPERTIES OF NA-DOPED CU <sub>2</sub> ZNSNS <sub>4</sub> VIA DENSITY FUNCTIONAL THEORY (DFT) AND EXPERIMENTAL METHOD   | MOHAMAD FARIZ BIN MOHAMAD TAIB      | 9/1/2022   | 8/31/2025  | 124,045.00          |
| 12 | NATIONAL   | FRGS   | EVALUATION OF SINGLE AND SYNERGISTIC ANTI-INFLAMMATORY EFFECTS OF CHLORELLA VULGARIS EXTRACT, HEMATOCOCCUS PLUVIALIS ASTAXANTHIN AND PALM TOCOTRIENOLS COCKTAILS  | WAN RAZARINAH BINTI WAN ABDUL RAZAK | 9/1/2022   | 8/31/2024  | 169,000.00          |
| 13 | NATIONAL   | FRGS   | STRUCTURAL STABILITY AND ELECTROCHEMICAL PERFORMANCE OF LINO <sub>0.8</sub> CO <sub>0.1</sub> MN <sub>0.1</sub> O <sub>2</sub> CATHODE MATERIALS BY DOPING WITH HIGH OXIDATION STATES SPECIES (ZR <sup>4+</sup> , NB <sup>5+</sup> AND MO <sup>6+</sup> ) | MUHD FIRDAUS BIN KASIM              | 9/1/2022   | 8/31/2024  | 107,000.00          |
| 14 | NATIONAL   | FRGS   | PHYTOACCUMULATION OF RARE EARTH ELEMENTS FROM LEACHING OF ION-ADSORPTION CLAY USING HYDROLYZED HUMATE SOLUTIONS   | YONG SOON KONG                      | 9/1/2022   | 8/31/2024  | 67,000.00           |
| 15 | NATIONAL   | FRGS   | ELUCIDATING THE EFFECTS OF CAPTIVITY AND RELOCATION ON THE BEHAVIOUR, PHYSIOLOGY AND GUT MICROBIOTA OF MALAYAN TIGER (PANTHERA TIGRIS JACKSONI)   | NUR NADIAH BINTI MD. YUSOF          | 9/1/2022   | 8/31/2025  | 195,120.00          |

|    |          |      |  |                                   |          |           |            |
|----|----------|------|--|-----------------------------------|----------|-----------|------------|
| 16 | NATIONAL | FRGS | BONDING MECHANISM AND DIFFERENT NETWORK CHARGES OF SYNTHESIZED COMPOSITE CROSSLINKED CHITOSAN SALICYLALDEHYDE/ MICROALGAE BY HYDROTHERMAL PROCESS  | ALI H. JAWAD AL-TAIE              | 9/1/2022 | 8/31/2025 | 134,907.00 |
| 17 | NATIONAL | FRGS | WASTE MANAGEMENT IN MALAYSIAN SMES THROUGH HAPI-E INDUSTRY TOOL ON STEWARDSHIP, PERFORMANCE CRITERIA, OPERATIONS MANAGEMENT, AND RESOURCES EFFICIENCY  | FALAH BIN ABU                     | 9/1/2022 | 8/31/2024 | 56,500.00  |
| 18 | NATIONAL | GIP  | DEVELOPMENT OF POLYVINYL ALCOHOL (PVA) /POLYTHETREFOUROETHYLENE (PTFE) MEMBRANES INCORPORATING NANOZEOLITES VIA CROSSLINKING.  | MOHD. ROZI BIN AHMAD              | 7/1/2022 | 6/30/2023 | 21,600.00  |
| 19 | NATIONAL | GIP  | PREPARATION AND STABILITY EVALUATION OF NANOEMULSION AS CARRIER FOR CATECHIN VIA LOW / HIGH-ENERGY EMULSIFICATION METHODS  | NURSYAMSYILA BINTI MAT HADZIR     | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 20 | NATIONAL | GIP  | Three-Dimensional Particulate Matter Vertical Concentration Distribution Model For Urban Atmospheric Boundary Layer (ABL)  | ARNIS BINTI ASMAT                 | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 21 | NATIONAL | GIP  | Green Synthesis of Heterocyclic Complexes derived from Benzimidazole Analogs and its In Silico Studies as Potential Cancer Chemotherapeutics Agents  | KARIMAH BINTI KASSIM              | 7/1/2022 | 6/30/2023 | 21,600.00  |
| 22 | NATIONAL | GIP  | FLORISTIC COMPOSITION AND BIOMASS DISTRIBUTION OF TREE SPECIES IN JUGRA FOREST RESERVE, SELANGOR   | FAEZAH BINTI PARDI                | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 23 | NATIONAL | GIP  | THE COMPARATIVE SYNERGISTIC EFFECTS OF PRE AND POST ASTAXANTHIN-TOCOTRIENOLS COCKTAILS TREATMENT IN SARS-CoV-2 INFECTED Calu-3 HUMAN LUNG CELL-LINE VIA INFLAMMATION TRANSCRIPTOME ANALYSIS              | KHAIRUL ADZFA BIN RADZUN          | 7/1/2022 | 6/30/2023 | 21,600.00  |
| 24 | NATIONAL | GIP  | Design And Construction of New Prototype Of Solar-Dedicated Log Periodic Dipole Antenna (LPDA) For Solar Activities Based on Interferometry Technique.   | ZETY SHARIZAT BINTI HAMIDI        | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 25 | NATIONAL | GIP  | DEVELOPING A NEW AND SIMPLE NATURAL DEEP EUTECTIC SOLVENT BASED MICRO-ELECTRODRIVEN MEMBRANE EXTRACTION PROCEDURE FOR HPLC DETERMINATION AND PRE-CONCENTRATION OF ANABOLIC STEROID DRUGS FROM BIOLOGICAL | WAN NAZIHAH BINTI WAN IBRAHIM     | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 26 | NATIONAL | GIP  | ELUCIDATION OF MECHANICAL, PHYSICAL, CHEMICAL AND ENVIRONMENTAL STRESS CRACKING RESISTANCE (ESCR) PROPERTIES OF INDUSTRIAL AND GREEN POLYURETHANE AS CONCRETE RAISING MATERIAL.                          | NOOR NAJMI BINTI BONNIA           | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 27 | NATIONAL | GIP  | DNA Barcoding and Temporal Change Monitoring On Ichthyofaunal Diversity in Re-Created Tropical Rainforest Selangor.  | IZZATI ADILAH BINTI AZMIR         | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 28 | NATIONAL | GIP  | The Influence of Beneficial Plants and Cropping Systems in Reducing the Attack of Mealybug, Dysmicoccus Brevipes (Pseudococcidae) on Pineapple MD2 Variety Production.                                   | SITI KHAIRIYAH BINTI MOHD HATTA   | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 29 | NATIONAL | GIP  | Development of Camouflage Fabric using Thermochromic Dyes.   | NOR DALILA BINTI NOR AFFANDI      | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 30 | NATIONAL | GIP  | Electrodeposition of poly(3,4-ethylenedioxythiophene) on screen-printed carbon electrode with cobalt as the dopant.  | ROSSURIATI BINTI DOL HAMID        | 7/1/2022 | 6/30/2023 | 18,000.00  |
| 31 | NATIONAL | GIP  | RENEWABLE BIOMASS WASTE COCONUT SHELL CHARCOAL FOR SYNTHESIS AND HYBRIDIZE GRAPHENE OXIDE ON SILICON NANOWIRES.  | NOOR ASNIDA BINTI ASLI            | 7/1/2022 | 6/30/2023 | 21,600.00  |
| 32 | NATIONAL | GIP  | Carrier Mobility of Nb-doped ZnO nanostructures using Hall Effect Measurement.   | MOHD HUSAIRI BIN FADZILAH SUHAIMI | 7/1/2022 | 6/30/2023 | 18,000.00  |

|    |          |      |  |                                 |          |           |           |
|----|----------|------|--|---------------------------------|----------|-----------|-----------|
| 33 | NATIONAL | GIP  | Design and synthesis of Soritin Derivatives as DPP-iv inhibitor.   | SYAHRUL IMRAN BIN ABU BAKAR     | 7/1/2022 | 6/30/2023 | 18,000.00 |
| 34 | NATIONAL | GIP  | Development, physicochemical, nutritional and sensory properties of instant fortified rice congee.   | SEOW ENG KENG                   | 7/1/2022 | 6/30/2023 | 18,000.00 |
| 35 | NATIONAL | MYRA | Synthesisation and Characterisation of ZnO-Based Nanowires for Nanogenerators Applications   | MOHD FIRDAUS BIN MALEK          | 7/1/2022 | 6/30/2023 | 60,000.00 |
| 36 | NATIONAL | MYRA | Design and Synthesis Coumarinyl Thiosemicarbazide and Sulfonamide Derivatives as DPP-4 inhibitors  | SYAHRUL IMRAN BIN ABU BAKAR     | 7/1/2022 | 6/30/2023 | 60,000.00 |
| 37 | NATIONAL | GSS  | Synthesis of composite Chitosan derivatives by hydrothermal process.   | ALI H. JAWAD AL-TAIE            | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 38 | NATIONAL | GSS  | Catalytic Evaluation of ZnO/CdS Photocatalyst.   | MOHD LOKMAN BIN IBRAHIM         | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 39 | NATIONAL | GSS  | Sustainable Development of Value Added Product from Natural Fibre Reinforced Composites.   | SITI HASNAH BINTI KAMARUDIN     | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 40 | NATIONAL | GSS  | Characterisation of Tuneable Oxidation States of Conducting Polymer.   | MOHD MUZAMIR BIN MAHAT          | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 41 | NATIONAL | GSS  | First Principles Study on The High Capacity of Cathode LiFeO <sub>4</sub> Material for Lithium Ion Battery   | MOHAMAD FARIZ BIN MOHAMAD TAIB  | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 42 | NATIONAL | GSS  | Non-Researcher Mind Transformation   | FARIDA ZURAINA BINTI MOHD YUSOF | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 43 | NATIONAL | GSS  | Writing a Journal is a Pleasure  | FARIDA ZURAINA BINTI MOHD YUSOF | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 44 | NATIONAL | GSS  | Chemicals from Nature  | NOR HADIANI BTE ISMAIL          | 6/1/2022 | 5/31/2023 | 3,000.00  |
| 45 | NATIONAL | GSS  | Bioactive phytochemicals   | NOR HADIANI BTE ISMAIL          | 6/1/2022 | 5/31/2023 | 1,000.00  |
| 46 | NATIONAL | GSS  | Preparation and characterization of porous activated carbon from biomass wastes.   | ALI H. JAWAD AL-TAIE            | 6/1/2022 | 5/31/2023 | 1,000.00  |
| 47 | NATIONAL | YTR  | Enhancing cyclability and rate capability of Ni-rich, Al doped LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> (NCM811) cathode materials via different carbon coating (Graphene and super P carbon black) for enhanced performances of Lithium-ion batteries | MUHD FIRDAUS BIN KASIM          | 7/1/2022 | 6/30/2024 | 50,000.00 |
| 48 | NATIONAL | YTR  | Development of electroconductive PEG-based hydrogel/PPy-collagen seeded with neural stem cells (NSC) for neural tissue regeneration with brain injury  | MOHD MUZAMIR BIN MAHAT          | 7/1/2022 | 6/30/2024 | 50,000.00 |
| 49 | NATIONAL | YTR  | ANTIBACTERIAL AND ANTIBIOFILM ACTIVITIES OF UNCARIA TOMENTOSA AGAINST SELECTED ORAL STREPTOCOCCUS SPECIES  | FATIMAH BINTI SALIM             | 7/1/2022 | 6/30/2024 | 50,000.00 |

|    |               |  |  |   |           |            |              |
|----|---------------|--|--|---|-----------|------------|--------------|
| 50 | NATIONAL      | YTR  | Catalytic deoxygenation of sludge palm oil into bio-jet fuel using graphene based single atom alloy catalysts  | MOHD SUFRI BIN MASTULI                      | 7/1/2022  | 6/30/2024  | 50,000.00    |
| 51 | NATIONAL      | YTR  | Tuning the Properties of Hybrid Organic-Inorganic CH <sub>3</sub> NH <sub>3</sub> BX <sub>3</sub> (B = Pb, Sn, Ge; X = I, Br, Cl) Perovskite with Ag Doping for High Efficiency Solar Cell | MOHAMAD FARIZ BIN MOHAMAD TAIB              | 7/1/2022  | 6/30/2024  | 50,000.00    |
| 52 | NATIONAL      | UCS-COE  | Sustainable Precision Health : Moving Forward With Healthy Population  | MUHD HANIS BIN MD IDRIS                     | 4/1/2022  | 3/31/2024  | 97,000.00    |
| 53 | NATIONAL      | UCS-COE  | Metabolites of Underutilised Fruit-Based Functional Food And Pathways Analysis In Obese Rat Model  | NURUNAJAH BINTI AB. GHANI                   | 4/1/2022  | 3/31/2024  | 100,000.00   |
| 54 | INDUSTRIAL    | PETRONAS   | ACCELERATED INNOVATION VIA MODELLING AND PREPARATION OF LIFEPO <sub>4</sub> /GRAPHENE CATHODE FOR LI-ION BATTERIES   | MOHAMAD FARIZ BIN MOHAMAD TAIB (DR.)        | 6/24/2022 | 5/31/2024  | 4,290,244.00 |
| 55 | INDUSTRIAL    | PETRONAS   | RESOURCE CIRCULARITY OF LITHIUM-ION BATTERIES WASTE  | MOHD MUZAMIR BIN MAHAT (DR.)                | 10/1/2022 | 4/1/2024   | 1,213,300.00 |
| 56 | INDUSTRIAL    | PETRONAS   | HIGH-CAPACITY ELECTRODE MATERIALS FOR LI-ION BATTERIES   | MUHD FIRDAUS BIN KASIM                      | 10/1/2022 | 9/30/2024  | 1,855,480.00 |
| 57 | INDUSTRIAL    | EXTERNAL GRANT                                   | NEUROPROTECTION PROPERTIES OF LACTIC ACID BACTERIA ISOLATED FROM PENGUIN GUANO IN ANTARTIC REGION  | SHARIFAH AMINAH BT SYED MOHAMAD             | 2/1/2022  | 1/31/2025  | 150,000.00   |
| 58 | INDUSTRIAL    | MALAYSIAN PALM OIL GREEN CONSERVATION FOUNDATION | PROJEK PENENTUAN PROFIL HORMON PEMBIAKAN HARIMAU MALAYA  | NUR NADIAH BINTI MD. YUSOF                  | 10/1/2022 | 12/31/2023 | 261,495.00   |
| 59 | INDUSTRIAL    | MIH  | Development of Ganoringa as a Novel Oral Antidiabetic Agent  | NURDIANA BINTI SAMSULRIZAL                  | 6/1/2022  | 5/31/2027  | 304,000.00   |
| 60 | INDUSTRIAL    | IDASYAF SDN BHD                                  | QUALITY IMPROVEMENT OF RTE MINAH SATAY   | AIDA FIRDAUS BINTI MUHAMMAD NURUL AZMI (DR) | 6/15/2022 | 10/14/2022 | 150,000.00   |
| 61 | INTERNATIONAL | EXTERNAL GRANT                                   | GREEN AND ECONOMICAL SYNTHESIS OF Pd- AND Ni-BASED CATALYSTS BY ATMOSPHERIC ATOMIC LAYER   | SHAHRUL NIZAM BIN AHMAD                     | 4/30/2022 | 4/30/2024  | 59,305.50    |
| 62 | INTERNATIONAL | THE INSTITUTE OF INTERNATIONAL EDUCATION         | Bioactive Compound from Endophytic Fungi Isolated from Selected Medicinal Plants (2)   | NOR HADIANI BTE ISMAIL                      | 4/19/2022 | 4/18/2024  | 107,203.56   |
| 63 | INTERNATIONAL | NUTRISET DEVELOPMENT FRANCE                      | THE DIELECTRIC STUDY OF COMPLEX MATERIAL (RUTF) WITH TEMPARATURE DEPENDENCE  | AMIRAH AMALINA BINTI AHMAD TARMIZI          | 8/1/2022  | 1/1/2024   | 45,126.00    |