

## 2019 Research Grants

### Research University Grants

#### **1) Fabrication of Zirconia-Calcia (ZrO<sub>2</sub>-CaO) Nanocomposite for Dental Application with CAD/CAM Technology**

Grant Amount: RM70,000.00

Duration: 01 Jan 2019 - 31 Dec 2020

Researchers: Assoc. Prof. Dr. Zuryati Ab Ghani, Prof. Dr. Ahmad Fauzi Mohd Noor, Prof. Dr. Adam Husein, Assoc. Prof. Dr. Zaihan Ariffin

#### **2) The Development of New Titanium Porous Post for Dental Post System and the Mechanical Evaluation**

Grant Amount: RM97,554.00

Duration: 01 Jan 2019 - 31 Dec 2021

Researchers: Assoc. Prof. Dr. Zaihan Ariffin, Assoc. Prof. Dr. Zuryati Ab Ghani, Dr. Yanti Johari, Dr. Yoshihito Naito, Prof. Dr. Tetsuo Ichikawa, Prof. Madya Dr. Yoritoki Tomotake, Dr. Widyasri Prananingrum, Prof. Ir. Dr. Mariatti Jaafar @ Mustapha

#### **3) A Study on The Association Between Toxoplasma Gondii Infection and Patients With Psychiatric Disorders**

Grant Amount: RM 70,000.00

Duration: 01 Jan 2019 - 31 Dec 2021

Researchers: Dr. Suharni Mohamad, Dr. Maruzairi Hussain, Prof. Madya Dr. Sarimah Abdullah, Prof. Dr. Rahmah Noordin

#### **4) The Effect of newly Develop Active Skeletonizing Sutural Distractor Device on Temporomandibular Joint and Condylar Morphology in Class III Malocclusion Subjects Using Cone Beam Computed Tomography - A Single Centre Randomized Controlled Trial**

Grant Amount: RM 68,480.00

Duration: 01 Mei 2019 - 30 April 2022

Researchers: Dr. Roselinda Ab Rahman, Prof. Dr. Rozita Hassan, Dr. Asilah Yusof, Dr. Ahmad Hadif Zaidin Samsudin

### FRGS Grants

#### **1) Characterization of fibre reinforced nanohybrid dental composite from agricultural biowaste using kenaf fibre**

Grant Amount: RM97,474.00

Duration: 01 Jan 2019 - 31 Dis 2021

Researchers: Dr. Rabihah Alawi, PM Dr. Dasmawati Mohamad, Dr. Mohd Hazwan Bin Hussin, Dr. Yanti Johari, Dr. Nor Aidaniza Abdul Muttlib

#### **2) Development of honey-PLGA microparticle to enhance antimicrobial activity in treatment of chronic periodontitis**

Grant Amount: RM68,490.00

Duration: 01 Jan 2019 - 31 Dis 2020

Researchers: Dr. Zurairah Berahim, Dr. Siti Lailatul Akmar, Dr. Suharni Binti Mohamad, Dr. Wan Nazatul Shima Bt Shahidan, PM Dr. Haslina Bt Taib

#### **3) Understanding The Inflammatory And Molecular Mechanism Of Chronic Kidney Disease Patients With Chronic Periodontitis**

Grant Amount: RM149,965.00

Duration: 01 Jan 2019 - 31 Dis 2020

Researchers: Dr. Nur Karyatee Bt Kassim, Dr. Farizan Binti Ahmad, Prof. K.N.S. Sirajuddeen, Dr. Muhammad Hafiz Bin Hanafi, Dr. Muhammad Imran Bin Kamaruddin,

## **PRGS Grant**

### **1) Development of a Prototype Loop-Mediated Isothermal Amplification-Based Lateral Flow for Rapid Detection of Human Papillomavirus 16 in Head and Neck Squamous Cell Carcinoma**

Grant Amount: RM220,000.00

Duration: 01 Dis 2019 - 30 Nov 2021

Researchers: Dr. Suharni Mohamad, PM Dr Aziah Binti Ismail, PM Dr Suraiya Binti Md Noor, PM Dr Irfan Bin Mohamad, Dr. Nurhayu Binti Ab Rahman, Prof. Dr. Shaifulizan Bin Ab Rahman

### **2) Pre-Clinical Evaluation of Prototype 3D-Craniofacial Polyimide Composite Customised Implant (3D-CPACC)**

Grant Amount: RM173,000.00

Duration: 01 Dis 2019 - 30 Nov 2021

Researchers: Assoc. Prof. Dr. Dasmawati Mohamad, Assoc. Prof. Dr Azman PKM Seeni Mohamed, Prof. Dr Hazizan Bin Md Akil, Prof. Dr Zainul Ahmad Rajion, Dr. Marzuki Bin Omar

## **USM Short Term Grants**

### **1) Effect of Outdoor Weathering on Maxillofacial Prosthetic Silicone Elastomers Subjected to Malaysia Environment**

Grant Amount: RM34,993.00

Duration: 01 March 2019 - 28 Feb 2021

Researchers: Dr. Nafij Jamayet, Assoc. Prof. Dr. Zaihan Ariffin, Dr. Yanti Johari

## **Bridging Grants**

### **1) Kapok fibres as scaffolding for cell growth**

Grant Amount: RM 25,000.00

Duration: 15 Jun 2019 - 14 Jun 2020

Researchers: Dr Mohd Firdaus Bin Yhaya

### **2) Identification of Molecular Salivary Biomaker for Xerostomia in Patients with Type 2 Diabetes Mellitus**

Grant Amount: RM 25,000.00

Duration: 1 Augst 2019 - 31 July 2020

Researchers: Dr. Norsila Abdul Wahab, PM Dr. Norkhafizah Saddki, Dr Azlina Ahmad

### **3) Development and Validation of Accessibility to Oral Health Care Service Questionnaire among caregivers of children with cerebral palsy**

Grant Amount: RM 6950.00

Duration: 1 Sept 2019 - 31 August 2020

Researchers: PM Dr. Normastura Abd Rahman

## **Bridging Insentive Grants**

### **1) Influence of Obesity on Salivary Matrix Metalloproteinase 8 and Osteoprotegerin in Chronic Periodontitis Patients of Hospital Universiti Sains Malaysia**

Grant Amount: RM 4,879.00

Duration: 15 Feb 2019 - 14 Feb 2020

Researchers: Dr Siti Lailatul Akmar Zainuddin

### **2) Assessment of infection control practice among clinical dental students School of Dental Sciences, Universiti Sains Malaysia**

Grant Amount: RM 4,275.00

Duration: 1 July 2019 - 30 Jun 2020

Researchers: Dr Mohd Zulkarnain Sinor

### **3) Reducing pain perception during dental scaling: use of desensitizing agent**

Grant Amount: RM 4,495.00

Duration: 1 July 2019 - 30 Jun 2020

Researchers: Assoc. Prof. Dr Erry Mochamad Arief

### **Dana Inovasi Awal**

#### **1) Validation of Dimensional Accuracy of 3D Printed Cranio-Maxillofacial Implant Based on Open Source Generated 3D Imaging**

Grant Amount: RM24,000.00

Duration: 01 Mei 2019 - 30 April 2020

Researchers: Prof. Dr. Zainul Ahmad Rajion, PM. Dr. Dasmawati Mohamad, En. Abdul Manaf Abdullah, En. Johari Abdullah, Pn. Suzana Yahya

### **Industrial Grant (Hannan Medispa Sdn. Bhd)**

#### **1) Facial care electroheraphy mask (Face'Up 1.0)**

Grant Amount: RM15,000.00

Duration: 01 Mei 2019 - 30 April 2020

Researchers: Dr. Nur Karyatee Bt Kassim