

## 2014 Research Grants

### **1) The Interval Intervention on Oral Health, Dietary Habits and Nutritional Status Among the Elderly Living in Rumah Seri Kenangan**

Grant Type: USM Short-Term, RM40,000.00

Duration : 01 July 2014 - 30 June 2016.

Researchers: Dr Ruhaya Hassan and Dr Mohd Zulkarnain Sinor

### **2) Comparison Study Between the Effects of Low Level Laser Therapy (LLT), Low Intensity Pulsed Ultrasound (LIPUS) Treatment and the Combination of Them, on Orthodontic Tooth Movement in Rats**

Grant Type: USM Short-Term, RM40,000.00

Duration : 01 June 2014 - 31 Mei 2016.

Researchers: Assoc Prof Dr Adam Husein, Assoc. Prof. Dr Rozita Hassan, Dr Azlina Ahmad, Dr Mohammad Khursheed Alam

### **3) Paraoxanase Activity in Type 2 Diabetes Mellitus Malay Patients in HUSM (Hospital Universiti Sains Malaysia)**

Grant Type: USM Short-Term, RM40,000.00

Duration : 01 June 2014 - 31 Mei 2016.

Researchers: Dr Hanim Afzan Ibrahim, Assoc. Prof Dr K.N.S Sirajudeen, Dr Julia Omar

### **4) Determination of DUSP6 Polymorphism in Class III Malocclusion, Attending at Hospital Universiti Sains Malaysia (HUSM)**

Grant Type: USM Short-Term, RM40,000.00

Duration : 01 June 2014 - 31 Mei 2016.

Researchers: Dr Rehana Basri, Dr Khairani Idah Mokhtar@Makhtar, Dr Saidi Jaafar, Dr Mohammad Khursheed Alam

### **5) Assessment of Oral Health Status and Associated Factors Among Elderly in Pasir Puteh, Kelantan.**

Grant Type: USM Short-Term, RM40,000.00

Duration : 15 June 2014 - 14 June 2016.

Researchers: Dr Mohd Zulkarnain Sinor and Dr Norkhafizah Saddki

### **6) The Prevalence of Miltenberger Blood Group Polymorphism Among Kelantanese Population by PCR-Based Techniques**

Grant Type: USM Short-Term, RM40,000.00

Duration : 15 March 2014 - 14 March 2016.

Researchers: Dr Wan Suriana Wan Ab Ahmad, Prof Dr Rosline Hassan, Dr Azlina Ahmad, Ms Ang Cheng Yong

### **7) The Efficacy of Cetylpyridinium Chloride Mouthwash as an Adjunct to Toothbrushing on Reducing Dental Plaque and Gingivitis in Malaysian Population**

Grant Type: USM Short-Term, RM40,000.00

Duration : 15 March 2014 - 14 March 2016.

Researchers: Dr Mon Mon Tin Oo, Dr Norkhafizah Saddki, and Dr Ninin Sukminingrum

### **8) The Effect of Tualang Honey Onhealing After Conventional Periodontal Therapy in Chronic Periodontitis Patients**

Grant Type: USM Short-Term, RM40,000.00

Duration : 15 March 2014 - 14 March 2016.

Researchers: Dr Zurairah Berahim, Dr Azlina Ahmad and Dr Haslina Taib

### **9) Rapid Detection of Porphyromonas Gingivalis and Aggregatibacter Actinomycetemcomitans Using Loop Mediated Isothermal Amplification in Periodontitis Patients**

Grant Type: USM Short-Term, RM40,000.00

Duration : 15 March 2014 - 14 March 2016.

Researchers: Dr Suharni Mohamad, Dr Azlina Ahmad and Dr Haslina Taib

### **10) Angiogenesis and Osteogenesis Gene Expressions of Endothelial Cell Lines Seeded on Biphasic Calcium Phosphate (BCP) Scaffold with Vascular Endothelial Growth Factor (VEGF)**

Grant Type: USM Short-Term, RM40,000.00

Duration : 15 March 2014 - 14 March 2016.

Researchers: Assoc Prof Dr Noor Hayati Abdul Razak, Prof Dr Zainal Arifin Ahmad, Dr Azlina Ahmad and Dr Roselinda Ab Rahman

**11) Effect of Piper Sarmentosum Aqueous Extract on Oral Ulcers Induced in a Rat Model**

Grant Type: USM Short-Term, RM44,000.00

Duration : 1 November 2014 - 31 Oktober 2016.

Researchers: Dr Nik Aloesnisa Nik Mohd Alwi, Dr Norzalina Zawawi, Dr Azlina Ahmad

**12) Orthodontic Treatment Stability Using Passive Self-Ligating and Conventional Systems Utilizing 3D Micro CT - An Intervention Study**

Grant Type: USM Short-Term, RM47,600.00

Duration : 1 November 2014 - 31 Oktober 2016.

Researchers: Dr Norma Ab Rahman, Dr Mohammad Khursheed Alam, Dr Basaruddin Ahmad, Dr Wey Mang Check, Assoc. Prof Siti Adibah Othman

**13) Wound Healing in Critical Sized Mandibular Bone Defect Using Locally - Produced Biphasic Calcium Phosphate Graft with Vascular Endothelial Growth Factor in a Rabbit Model**

Grant Type: USM Short-Term, RM45,000.00

Duration : 15 September 2014 - 14 September 2016.

Researchers: Dr Roselinda Ab Rahman, Professor Dr Zainal Arifin Ahmad, Assoc, Prof Dr Noor Hayati Abdul Razak, Dr Azlina Ahmad, Dr Mohd Fadhli Khamis

**14) Interface mechanisms and dentinogenic differentiation potential of a newly developed nanohydroxyapatite-silica-Glass Ionomer Cement (GIC) composite**

Grant Type: USM Short-Term, RM135,000.00

Duration : 1 December 2014 - 30 November 2017.

Researchers: Dr Norhayati Luddin, Professor Dr Ismail Ab Rahman, Assoc Prof Dr T.P.Kannan, Dr Nik Rozainah Nik Abdul Ghani, Assoc Prof Dr Sam'an Malik Masudi

**15) Evaluation of the Shear Bond Strength and enamel Surface Roughness of Resin Modified Glass Ionomer Cement with Different Enamel Surface Preparation**

Grant Type: USM Short-Term, RM35,000.00

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Mohammad Khursheed Alam, Assoc Prof Dr Rozita Hassan

**16) Comparison of the Efficacy, Surface Hardness and Surface Roughness of Natural Tooth Specimen After Bleaching Treatment with Over the Counter and Professionally Applied Whitening Agent on Human Teeth**

Grant Type: USM Short-Term, RM49,317.10

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Mohamad Syahrizal Halim, Assoc Prof Dr Normastura Abd Rahman, Dr Zuryati Ab Ghani

**17) Influence of Ferrule Height on the Fracture Resistance of Root Canal Treated Tooth Restored with Post , Core and Crown**

Grant Type: USM Short-Term, RM50,000.00

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Rabihah Alawi, Dr Nor Aidaniza Abd Muttlib, Assoc Prof Dr Normastura Abd Rahman

**18) Biocompatibility and Sealing Ability of Dual Cure Composite and Flowable Composite as a Repair Material for Furcal Perforation**

Grant Type: USM Short-Term, RM49,910.00

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Yanti Johari, Dr Mohd Fadhli Khamis

**19) Evaluation of Microleakage of Fiber Reinforced Post System (Everstick) Under Simulated Occlusal Loading**

Grant Type: USM Short-Term, RM41,537.10

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Nor Aidaniza Abdul Muttlib, Dr Rabihah Alawi, Dr Zaihan Ariffin, Assoc Prof Dr Normastura Abd Rahman

**20) The Effect of Calcium Hydroxide Intracanal Medicament on the Radicular Bond Strength of Self Adhesive Cement for Fiber Post Cementation**

Grant Type: USM Short-Term, RM47,572.10

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Nik Rozainah Nik Abdul Ghani, Dr Norhayati Luddin, Assoc Prof Dr Sam'an Malik Masudi

**21) An In Vitro Study on Effect of Two Intracanal Medicaments on Cell Viability and Attachment to the Irrigated Dentin**

Grant Type: USM Short-Term, RM44,225.00

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Aung Thu Htun, Dr Azlina Ahmad

**22) Surface Effects on Titanium Implants by Different Hygiene Instruments**

Grant Type: USM Short-Term, RM44,200.00

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Akram Hassan, Assoc Prof Dr Erry Mochamad Arief, Dr Haslina Taib

**23) Determination of Tooth Size and Dental Arch Dimension in Pakhtun Pakistani Population**

Grant Type: USM Short-Term, RM42,514.10

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Mohd Fadhli Khamis, Dr Mohammad Khurseeh Alam, Dr Nur Atika Md Ashar

**24) Identification of Diving Cells, Immature and Mature Neurons in the dental Stem Cell Niche Area Using Immunohistochemistry Technique in Postnatal Normal Adult Rat Model**

Grant Type: USM Short-Term, RM45,845.00

Duration : 15 December 2014 - 14 December 2016.

Researchers: Dr Nor Farid Mohd Nor, Dr Khairani Idah Mokhtar@Makhtar, Dr Nurkhaizah Ghani, Dr Nur Mohamad Mohd Makhtar

**25) Fabrication and Characterizations of Glass Ionomer Cemet (GIC) - nanosilica-hydroxyapatite-zirconia composites**

Grant Type: RUI, RM194,065.60

Duration : 31 December 2014 - 31 December 2017.

Researchers: Dr Wan Zaripah Wan Bakar, Prof Dr Ismail Ab Rahman, Assoc Prof Dr Sam'an Malik Masudi

**26) Development of High Strength And Wear Resistant Polymeric Material for Esthetic Brackets**

Grant Type: RUI, RM152,900.00

Duration : 31 December 2014 - 30 Jun 2017.

Researchers: Professor Dr Rozita Hassan, Assoc Prof Dr Zainul Ahmad Rajion, Dr Norma Abd Rahman, Professor Dr Mat Uzir Wahit, Professor Eng Dr Mohammed Rafiq Dato' Abdul Kadir