

**UNIVERSITI SAINS MALAYSIA** 

# 2023 ANNUAL REPORT SCHOOL OF DENTAL SCIENCES

PUSAT PENGAJI SAINS PERGICU

PREPARED BY : Abdul Hakim Abdul Basir Wan Emiy Sazalin Wan Yusoff

+609 767 5721 dental.usm.my

# Table of Contents





#### R&I, PPSG

### Message From the Deputy Dean (Research, Innovation & Industry-Community Linkages)



Assalamualaikum wrt. wbt. and Greetings,

The Research, Innovation, and Industryoffice/unit Community Engagement is responsible for promoting and supporting interdisciplinary the research, enhancing visibility of research clusters, cultivating a positive research environment, encouraging innovation, as well as promoting collaboration among researchers in the university and engagement with other institutes both locally and internationally.

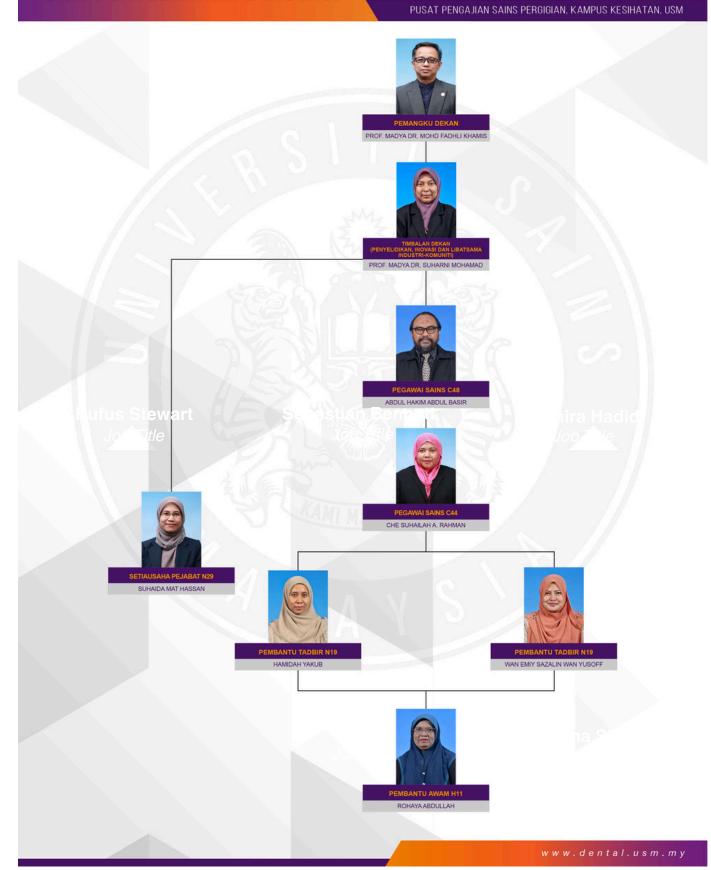
Our aim is to promote impactful research to contribute to the development of a better, more sustainable future. In order to achieve this objective, the participation and cooperation of both academic and administrative staff are very important. I would like to express my thanks and appreciation to everyone for their continued cooperation and support.

Best Regards,

#### ASSSOCIATE PROFESSOR DR. SUHARNI MOHAMAD

### CARTA ORGANISASI UNIT PENYELIDIKAN & INOVASI





#### R&I, PPSG

### VISION

The School of Dental Sciences, USM is to be the centre of excellence in academia, innovations, research and services, and be the catalyst and leader for new knowledge in teaching, learning, research and services for Malaysian higher education and the world.

### MISSION

The School of Dental Sciences, USM is committed to the pursuit of excellence and innovations in academia, services, research, development of human resources, by fostering a conducive educational environment and promoting holistic development programmes to meet national needs through exploring new frontiers of technology, and remain globally competitive to fulfill our community responsibility.

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**DENTAL SCIENCES** 

SCHOOL OF

UNIVERSITI SAINS MALAYSIA

### **New Grants Received in 2023**



**Short Term Grants** 



**BJIM Grants** 

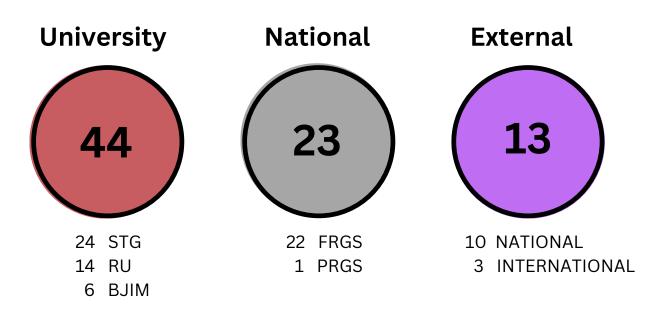


**Industry Grants** 



FRGS

### Active Grants in 2023







#### Fundamental Research Grant Scheme (FRGS) 2023 School of Dental Sciences, USM



#### Dr. Hanim Afzan Ibrahim

Elucidating the Modulation of Alpha-Klotho Protein in Fibroblast Growth Factor 23 Signalling Pathway in the Progression of Chronic Kidney Disease Patients with Periodontitis following Periodontal Therapy.

Investigating the Mechanism of Neurogenic Differentiation of Stem Cells From Human Exfoliated Deciduous Teeth (SHED) in Response to Modulation of Serotonin Receptor 7

RM177,200.00

Dr. Nurhafizah Ghani

RM191,225.00

(5-HTR7).



#### Dr. Nur Karyatee Kassim

Deciphering the Neuroinflammatory Interplay of Angiogenesis, Oxidative Stress, And Neuroplasticity Mechanism in Stroke Patients Following Robotic Exoskeleton-Assisted Rehabilitation.

RM169,455.00

#### Ts. Dr. Mohamad Arif Awang Nawi

Elucidating an ARIMA-LSTM Hybrid Model with Exogenous Variables for Forecasting and Improving COVID-19 Decision Making.

.



#### Dr. Huwaina Abd Ghani

Elucidating Mechanisms of Calcium Hydroxide Incorporated with Copper Oxide Nanoparticle against E. Faecalis as Root Canal Medicament.

#### RM166,539.00

from All Staff, School of Dental Sciences. USM









# **Publications**

### Number of Publications in 2023



### Awards





## Awards





#### R&I, PPSG

## Seminars & Courses



CPD Point for USM Staff

## **Seminars & Courses**



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## **Seminars & Courses**













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- +60 767 5721
- abdhakim@usm.my
- www.dental.usm.my
- PP Sains Pergigian, Kampus Kesihatan USM, 16150 Kubang Kerian Kelantan, Malaysia

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