

THE RESEARCH BULLETIN

UJIGI

SCHOOL OF DENTAL SCIENCES

Issue 2 • Feb 2017



REACHING OUT TO THE **COMMUNITY**

PROFESSOR DR. AZIZAH YUSOFF

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Alhamdulillah that we have successfully published our first GIGI and now into the second edition. Hopefully, GIGI will last into its zenith publication, and it will remain the best platform for our school to capture and share all the research activities of the school.

This edition is emphasising on Prof. Dr. Azizah Yusoff and her journey as a dental public health specialist. She had spent most part of her working life serving Ministry of Health before opting to be part of USM. We are obliged of her readiness to share her vast experiences with the school and to steer the wheel on community program with us.

In this edition too, we have few PPSG staff sharing their experiences with the readers. We hope that it will intrigue some interest among the readers to follow the footstep and probably create better experiences. And all for their personal success while contributing to PPSG and USM. I wish everyone better days ahead in USM.

Happy reading.

Prof. Dr. Adam Husein

Dean

SEULAS PINANG



Hi! The second issue of GIGI is here. This issue hopefully has some improvement compared to the first one. In this issue, we are featuring Prof. Dr. Azizah Yusoff, who is like a mother to the whole school and will be tremendously missed because she is leaving USM this year due to compulsory retirement. (Editor's note: She left USM at the end of September 2016 but is now joining us again as Honorary Professor). Moreover, we have sharing of experiences written by Assoc. Prof. Dr. TP. Kannan, Assoc. Prof. Dr. Normastura Ab Rahman, Dr. Wan Zaripah Wan Bakar, En. Marzuki Yusof, and myself. En. Marzuki is one of the pioneers of the school especially in establishing the Oral Science Gallery from scratch.

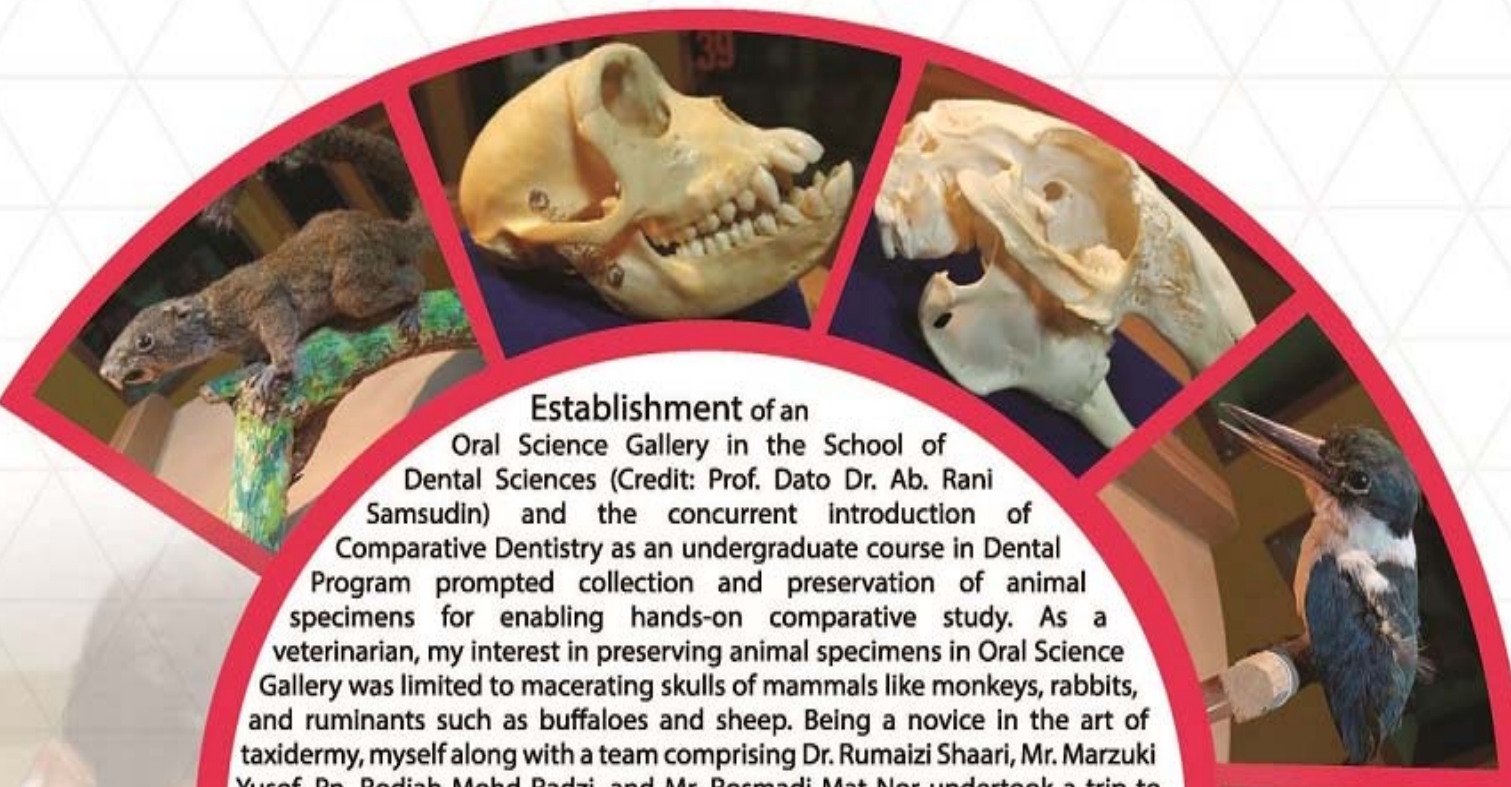
During the first part of 2016, School of Dental Sciences has successfully organised a National Colloquium on Stem Cell Research, which has been graced by Dato' Prof. Dr. Omar Osman, the then USM Vice Chancellor. There were international speakers from Tokushima University, Japan and Gadjah Mada University, Yogyakarta, Indonesia, and also well-known speakers from local universities. The 21st National Conference on Medical and Health Sciences was organised in October 2016. Similar to last year, the Research & Innovation Unit has conducted a series of seminars and workshops to inoculate research and scientific writing cultures among academicians and researchers. Hopefully, this would improve our school's KPI and our personal KIP as a staff of USM.

We would also like to highlight and congratulate the three lecturers who have received RUI grant last December, and to one of our postgraduate students who received Malaysia Toray Science Foundation, as well as those who applied for the short-term grant. We are hoping that more will get funding for research projects. Let's work for a better us.

Thanking you in advance.

Dr. Azlina Ahmad

Editor-in-Chief



Establishment of an Oral Science Gallery in the School of Dental Sciences (Credit: Prof. Dato Dr. Ab. Rani Samsudin) and the concurrent introduction of Comparative Dentistry as an undergraduate course in Dental Program prompted collection and preservation of animal specimens for enabling hands-on comparative study. As a veterinarian, my interest in preserving animal specimens in Oral Science Gallery was limited to macerating skulls of mammals like monkeys, rabbits, and ruminants such as buffaloes and sheep. Being a novice in the art of taxidermy, myself along with a team comprising Dr. Rumaizi Shaari, Mr. Marzuki Yusof, Pn. Rodiah Mohd Radzi, and Mr. Rosmadi Mat Nor undertook a trip to Terengganu State Museum, the largest in Malaysia, for training.

The experience of learning taxidermy was completely different from handling bone specimens in that it required extreme patience in manoeuvring the delicate fascia without damaging the underlying skin and an artistic skill for restoring the original conformation of the animal 'as it appears in life'. Indeed, it demanded the skill equivalent to that of a jeweller for obtaining the natural orientation of such parts as eyelids, pinna, claws, nails, teeth, hairs, and feathers especially in the facial region.

Our team remembers the patience with which the experienced and devout museum staff shared their expertise willingly with us. Fulfilling the objective envisaged, our team could accomplish preservation of multi-various animal and bird specimens, all

ANIMAL MODELS IN ORAL SCIENCE GALLERY: A MUSEUM EXPERIENCE



COLORADO STAIN: THE UNFORGETTABLE HISTORY IN DENTISTRY

By: Assoc. Prof. Dr. Normastura Abd Rahman

In 1901, Dr. Frederick Sumner McKay, a new dentist in Colorado Springs made an early research on 'mottled teeth' after he noticed the strange discoloration on teeth among natives, known as "Colorado Brown Stain". Later in 1909, he made a fruitful collaboration with a prominent American dentist, Dr. GV Black, to investigate the mysterious condition; they found that a highly concentrated natural fluoride in the water contributed to the Colorado Stain.

Dr. McKay made another significant discovery in 1920s that the stained teeth were surprisingly resistant to decay and after over 60 years of research, proved that fluoridation is safe for prevention of dental caries. Thus, this information becomes one of the key messages in our dental health education.

In 2006, during my subspecialty training at the University of Colorado and Health Science Center, Denver, USA, I had a golden opportunity to visit the most attractive place called the Garden of the God which is located in Colorado Springs. Nowadays, due to varying natural fluoride level, Colorado Springs Utilities has to monitor the fluoride level. If it exceeds 2 ppm, the residents will be notified by their water supplier as required by the Environmental Protection Agency, USA. Compared to Malaysia, because of its low fluoride level, fluoride needs to be added into our water supply to bring it up to the optimum level of 0.5-0.7 ppm for caries prevention.



University of Colorado, Health Science Center, Denver, USA.

I had the privilege to join the Combined Cleft Clinic at The Children's Hospital under Prof. Dr. Ulrich Klein, a Pedodontist.

I also had an opportunity to teach medical statistics to the residents of Master of Pediatric Dentistry.



Attachment at The Children's Hospital.



An old dental chair at one of the clinics in Colorado Springs.

Colorado Springs maintains its old history in dentistry which started in 1879 by Dr. William Bartlett. Surprisingly, they still have a very old dental chair in these modern days.

In a nutshell, all of this precious memory will be kept as treasures for myself. An experienced dentist once taught me to become a great dentist who is able to treat patients holistically.

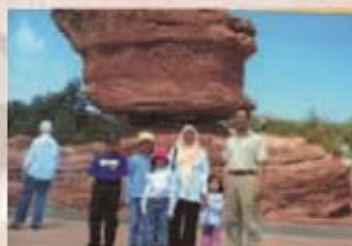


Indulged ourselves in the -15°C to -19°C snow

A special thank you to USM for the scholarship, Prof. Dr. Klein, and all the faculty members of UCHSC and my beloved family that is always there to support me to achieve the highest possible level.



Invited by Prof. Dr. Klein at his greenery house for an appreciation dinner.



A memorable picture with great creation of balanced rock: Garden of the God, Colorado Springs.

SHARING EXPERIENCE / EXPERTISE



Boots statue



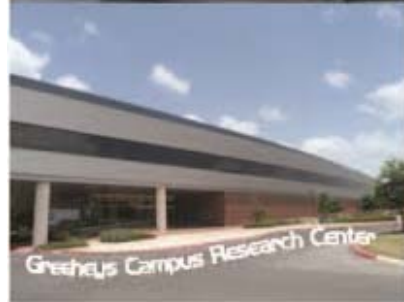
River Walk



San Antonio city



Famous with Rodeo



Grethys Campus Research Center



UTHSCSA Attachment



The UTHSCSA Dental School

Dr. Wan Zaripah Wan Bakar went for an attachment at the University of Texas Health Science Center at San Antonio (UTHSCSA), Texas, USA for 9 months in 2013 during her first sabbatical leave. San Antonio is the 2nd largest city in the state of Texas and the 7th largest city in the US. The old Spanish flair and blend of cultures make it one of America's most picturesque cities and is the epicentre of Tejano culture and Texas tourism. The jewel of the city is the River Walk, which meanders through the downtown area while the museum known as 'The Alamo' is Texas' top tourist attraction.

The UTHSCSA serves San Antonio and the 50,000 square-mile area of South Texas. UTHSCSA has a record of 24,000 graduates and houses more than 3,000 students per year, within its domain and external facilities such as affiliated hospitals (more than 1,000), clinics, and health care facilities all over South Texas. This institution offers over 65 different degrees and majority of them were graduates and professional degrees holder in biomedical and health sciences fields.

Dr. Wan was accepted as a Faculty member and upon completing the course was awarded with a Post-Doctoral Research Fellow certificate. She worked at the Department of Comprehensive Dentistry under the supervision of Prof. Dr. Bennett T. Amaechi, a well-known figure in cariology, to become an integral member in a collaboration of researchers from various countries such as US, Slovenia, Brazil, India, and Nigeria.

During the attachment, Dr. Wan also joined the Texas Skill (Teaching Excellent) course for 3 months which was coordinated by Prof. Bill Hendrickson, enriching her with advanced knowledge and improving her teaching skills. This well-established course was famous amongst the universities in Texas and has seen success over the last decade.

OMICs Conference: 12th World Congress on Dentistry and Oral Health

On 4-5th August 2016, Dr Wan Zaripah attended the 12th World Congress on Dentistry and Oral Health in Manchester, United Kingdom. This dental congress was held together with other conferences such as Polymer congress. It was held at Marriot Manchester Airport Hotel, not far from the Manchester International Airport. She gave an oral presentation regarding her research project on marginal leakage related to CAD/CAM material and also poster presentation for her preliminary study on the new GIC-nanosilica HA addition with zirconia.



During the conference, she was elected as co-chair for the restorative session with Dr. Dareen from Egypt and was eligible to attend a workshop on socket preservation for free. In this international conference, Malaysia was represented by two speakers, namely, Dr. Wan from USM and Dr. Syrial Mastura from USIM. It is hoped that in the future many other researchers will represent our country for such conferences.

During that time, Dr. Wan did not miss her chance to tour Manchester city by the city tour and visiting the Old Trafford stadium which is the famous football stadium for the Manchester United team.



My Days in Stockholm



Stockholmsmässan

WELCOME ISSCR

By Azlina Ahmad

In June 2015, Assoc. Prof. Dr. Kannan and I attended an Annual Meeting of The International Society for Stem Cell Research conducted at Stockholmsmässan Exhibition and Convention Center, Stockholm, Sweden. Although the 15-hour journey from Malaysia was made during Ramadan, it was never a let-down for me. We kept our spirits high and successfully presented our research findings.

There were approximately 3,000 participants who came from every part of the world, mainly professionals, from 55 countries. It was my first meeting of its kind and I was in awe of the research presented there. The exhibition took the whole floor of a hall. Some of the research groups are very advanced in their study, but some are at par with the research conducted in Malaysia. I saw a senior participant of European appearance, glaring over my poster for about 10 minutes while I stood nearby, perhaps in awe or interested in the topics presented. Such attention from fellow peers does make this trip seemed worthwhile.

Based on my observation, we need to find our niche in stem cell research and work on it. Slowly, but surely, we will be there. The most important thing is to grasp the basic understanding of stem cells and to discover a plain target. I believe an arrow with one target reaches its destination faster.

Sweden is a fascinating country. Although it is a European country, most taxi drivers who we met there were Muslims of second-generation immigrants. Anyway, the best thing was that we managed to visit the hall where Nobel Laureates received their awards. However, during the visit, it was under renovation. The Sweden trip was an inspirational visit for me. I believe there will be more opportunities for such visits in the future.



SHARING EXPERIENCE / EXPERTISE



En. Marzuki Md Yusof was a Senior Medical Laboratory Technologist (MLT) at School of Dental Sciences (PPSG). He started his career in 1975 at the Clinical Diagnostic Laboratory of University Malaya and joined the Chemical Pathology Department of USM in 1990 before being transferred to Health Campus, Kelantan. He joined PPSG in 2004. As an MLT in a higher learning institution, he contributed in other fields as well, specifically in research, teaching, services, and quality management.

En. Marzuki has performed many research testing analyses, along with handling, operating, and maintaining the numerous hi-tech instruments at PPSG. His expertise in these aspects hugely assists PPSG in her pursue of excellence in this challenging episode. One of the main research projects in PPSG is the application of natural biomaterials for medical and dental applications, which he was a team member.

For teaching, he assisted lecturers in conducting practical classes for the basic sciences in DDS program, such as Chemical Pathology, Microbiology, Immunology, Physiology, and Hematology. With the introduction of a fantastic and amazing technique called Mirax Digital Scanning System, teaching and learning of Histology, Anatomy, and Oral Pathology are now fun for students.

En. Marzuki was a co-researcher in the making of Water Recycling Machine (Ris-MECTRON) that can reduce water wastage during the production process of distilled water. Following the development of Ris-MECTRON, En. Marzuki has participated in various competitions particularly Innovative and Creative Circle (ICC) at the campus level, East Coast level, and national level, which included other public universities as well. He has won several awards, which have been accounted to our school's KPI. Some of the recent awards are the 3 star (equivalent to gold medal) awarded during the national level ICC at Genting Highlands in 2010 and the 2 star (bronze) awarded in 2014 for the East Coast level held in Kuantan.

Ris-MECTRON was then patented and it was exhibited at the Malaysia Technology Expo 2011 organised by the Malaysian Association of Research Scientists at the Kuala Lumpur Convention Center. It won the bronze medal. Later on, Ris-MECTRON was presented at the 4th Internasional Greentech & Eco Product Exhibition & Conference Malaysia 2013 (GEM2013). In 2014, En. Marzuki was also involved in G-Smart group of PPSG in the creation of a new product called Smart-Histo that helps and facilitates teaching and learning of Histology subject. Following this invention, he participated in the ICC competition at Health Campus level and awarded 2 stars whereas 3 stars was obtained in a similar competition at East Coast level. He also participated in the national ICC in November 2014 [2 star] and competed with other public universities in 2015 [2 star]. This invention is not only recognised by USM, but also by other universities such as IIUM and UiTM, who have tested the product and praise our technique.

With more than 40 years of experience in laboratory work, he is definitely a man who proudly carried out his duty in the line of glory to sustain excellence. Thank you En. Marzuki for your huge contributions to PPSG.



PROFESSOR DR. AZIZAH YUSOFF

25 SEPTEMBER 1956 The story begins. Born and raised in Kota Bharu, Azizah is the 13th child of 15 siblings. She had her early education at Zainab Primary School II, and later at Zainab Secondary School. She pursued her studies at the University of Malaya and graduated with Bachelor of Dental Surgery in 1981. She then began her career as a practising dental officer in various government dental clinics in Kelantan. She is happily married to Mohd Robi Mahmood; they are blessed with four lovely daughters and three grandchildren, thus far.

**“AS AN ACADEMICIAN,
ONE’S ROLE ALSO
INCLUDES COMMUNITY
WORK WHICH IS NOT
ONLY RELATED TO
RESEARCH”**



EDUCATION Prof. Azizah received her Diploma in Dental Public Health from the England Royal College of Surgeons in 1993 and then served as Senior Dental Officer in the districts of Pasir Mas, Tanah Merah, Tumpat, and Jeli. In March 2005, she joined the School of Dental Sciences, USM Health Campus as a dental public health lecturer. Since joining USM, she has been appointed by the Malaysian Qualifying Agency as an assessor and professional examiner for various institutions of higher learning, such as AIMST, USIM, PIDC, IIUM, IMU, and UKM. She has also served as the Deputy Dean of Student Affairs and Network for School of Dental Sciences from 2013 to 2015. Prof. Azizah was awarded Professor in Public Health in December 2014.



RESEARCH As the Deputy Dean of Student Affairs and Network, she was actively involved in various research activities involving, in particular, the underprivileged children, specifically children with disabilities (CWD/OKU). She has a vision for USM to become OKU-friendly through RUI and APEX University Research Grants. Together with other personnel from USM Health Campus, her team managed to secure more than RM 300k of funding (as of writing) for a project called Sustainable Optimal Service for CWD (SOS OKU). The three-phase-SOS OKU is now in its last phase. Outcome from the first two phases includes 5 journal publications (2 in review), 2 books, and 9 modules specifically designed for CWD. Another more important outcome from SOS OKU is the knowledge they have shared with the parents and teachers of CWD, which is immeasurable.

ROLES As an administrator, Prof. Azizah took the first and major step towards achieving the ISO 9001 certification for the School of Dental Sciences and was appointed as the Management Representative. She played a major role in setting up the Quality Management System for the school, preparing all the mandatory ISO 9001 documentations. Her hard work has made it possible for this school to receive its ISO 9001 certification from Moody International since 2006.

Prof. Azizah is one of the members involved in collaboration with a company in People's Republic of China, Meichen Quanmin (Shandong) Hospital Investment Co. Ltd. An MOU was signed on the 12th of February, 2016; following which the team was invited on 19th of August for the official opening ceremony of the third dental hospital and training centre established by the company. USM dental lecturers will be involved in the training programme, which is scheduled to start before the year ends.

Being an academician, one's role also includes community work which is not related to research. Prof. Azizah is the backbone for 'Cakna Kesihatan PPSG', a group of staff from School of Dental Sciences (PPSG) who devote their time and money to helping the disadvantaged. True to her passion for CWD, Cakna Kesihatan had organized some activities with slow learner pupils for two consecutive years, the first in Gua Musang and then in Jeli. They planned to make this a yearly event to cover all districts in Kelantan, before embarking on a bigger national project. Besides just concentrating on the one-day event for the slow learners and their families, a project to write books and modules for parents and teachers of the CWD is also ongoing.

Following the Yellow Flood at the end of 2014, Prof. Azizah and the Cakna group raised more than RM 70k to be distributed to those affected. She managed to get another RM 500k from UMW to be given to the Kelantan government for causes related to the flood. On top of that, another RM 43k was secured from UMW for 43 of our students from the low income group. The list of her community work is numerous but we shall stop here and get back to her role as an academician.

Besides her interest in special needs children and oral health, her other main research areas include salivary parameters and oral diseases and occupational hazards in dentistry. She is also one of the personnel involved in the infection control protocol at our school.

Professor Dr. Azizah has produced numerous research publications at both international and national levels. During her 11 years at PPSG as an academician, she has successfully graduated 6 Doctorate and 12 MSc/MCM/MDPH students under her tutelage.



AWARDS / ACHIEVEMENTS 2016

Oral Presentations

- 1st place: Malaysia International Dental Exhibition and Conference; MIDECE 2016, Kuala Lumpur, 30 July. **Title:** Dentineogenic differentiation of locally produced white portland cement on dental pulp stem cells. **Members:** Hany Mohamed Aly Ahmed, Norhayati Luddin, TP Kannan, Khairani Idah Mokhtar, Azlina Ahmad.
- 1st place: National Health Sciences Symposium 2016, Kota Bharu, 2 June. **Title:** Phenotype and postnatal factors responsible for maxillary arch constriction of UCLP patients in a Bangladeshi population. **Members:** Sanjida Haque, Mohammad Khursheed Alam, Mohd Fadhli Khamis.
- Best: Translational Craniofacial Conference 2016, Penang, 10-11 August. **Title:** Mutational analysis of RUNX2 gene in non-syndromic patients with supernumerary tooth in Kelantan. **Members:** Suhailiza Saharudin, TP Kannan, Sarliza Yasmin Sanusi.
- 2nd best: 23rd MDA Scientific Convention and Trade Exhibition, Kuala Lumpur, 16 Jan 2016. **Title:** Assessment of dento-alveolar relationships using GOSLON index in unilateral cleft lip and palate children in Pakistan. **Members:** Anas Imran Arshad, Mohammad Khursheed Alam, Mohd Fadhli Khamis.
- 2nd best: National Colloquium on Stem Cell Research (NCSCR 2016), Kota Bharu, 7-8 March. **Title:** Histological evaluation of human amniotic membrane as a scaffold for human periodontal ligament fibroblasts: A pilot study. **Members:** Asrar Elahi, Haslina Talib, Zurairah Berahim, Azlina Ahmad, Suzina Sheikh Ab Hamid.
- 2nd best: 8th National Dental Students' Scientific Conference 2016, Negeri Sembilan, 14-15 May. **Title:** Prevalence of stress and coping strategies among dental support staff in Hospital Universiti Sains Malaysia. **Members:** Yang Soraya Mior Azli, Wan Nur Shazwani Wan Rossly, Azizah Yusoff, Munirah Mohd Adnan, Normastura Ab Rahman.
- 2nd best: National Health Sciences Symposium 2016, Kota Bharu, 2 June. **Title:** Investigation of third molar agenesis and other dental anomalies in a Bangladeshi population: A radiographic study. **Members:** Mamun Khan Sujon, Mohammad Khursheed Alam, Shaifulizan Ab Rahman.
- 2nd best: 21st National Conference on Medical and Health Sciences 2016, Kota Bharu, 17-18 Oct. **Title:** Knowledge and attitude regarding oral care of intubated patients among intensive care unit nurses at a teaching hospital in East Coast of Peninsular Malaysia. **Members:** Mohammad Khan, Zeehaida Mohamed, Saedah Ali, Rehana Basri, Norkhafizah Saddki, Sam'an Malik Masudi, Ninin Sukminingrum.

Poster presentations

- 1st place: UAE International Dental Conference & Arab Dental Exhibition, Dubai, UAE, 2-4 Feb 2016. **Title:** In vitro cytotoxicity of nano-hydroxyapatite-silica incorporated glass ionomer cement. **Members:** Tahir Yusuf Noorani, Norhayati Luddin, Ismail Ab Rahman, Sam'an Malik Masudi.
- 1st place: 6th Terengganu Scientific Conference 2016, Terengganu, 28 Sep. **Title:** Oral health status and barriers to utilization of oral health services among adolescents with learning disabilities. **Members:** Zaihan O, Normastura AR, Azizah Y.
- 1st place: 21st National Conference on Medical and Health Sciences 2016, Kota Bharu, 17-18 Oct. **Title:** A preliminary study on the type of proteinuria in patient with chronic kidney disease (CKD) stage 2 in HUSM. **Members:** Nur Karyatee Kassim, Julia Omar, Siti Noriah Mansur, Suhaily Mohd Hairon.
- 3rd place: 6th Terengganu Scientific Conference 2016, Terengganu, 28 Sep. **Title:** Dental plaque maturity status among hearing impaired children in Kelantan. **Members:** Haliza T, Normastura AR, Azizah Y, Mohd Khairi MD.

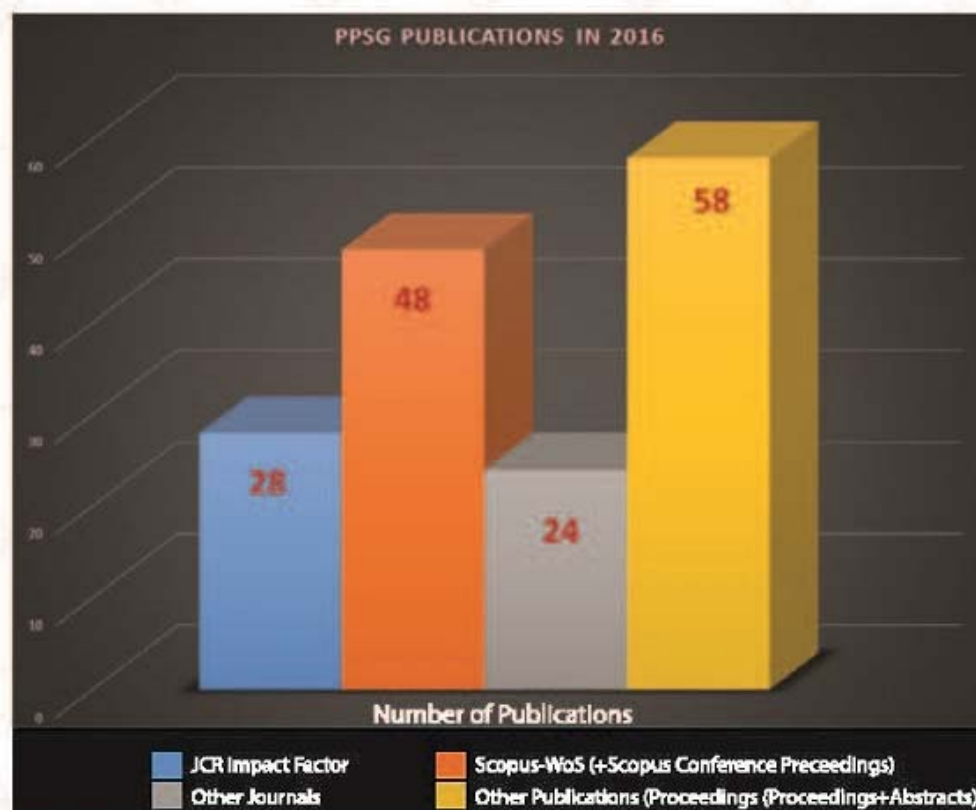
Other awards

- 1st place in lecture contest: International 63rd IADS Annual Congress, Poznan, Poland, 10 Sept 2016. **Title:** Antimicrobial effect of room temperature vulcanizing (RTV) silicone elastomers used in maxillofacial prosthetics: An in-vitro study. **Members:** James Yoon Chen Lian, Xin Yi Goh, Zaihan Ariffin, Nafij Jamayet.
- International Travel Award: 10th International Dentistry Scientific Meeting 2016, Indonesia, 29-30 Oct. **Title:** Survey on patients' perceived satisfaction towards dental treatment provided by HUSM Dental Clinic. **Members:** Nadeerah Ibrahim, Ng Rou Enn, Adam Husein.
- International Travel Award: 10th International Dentistry Scientific Meeting 2016, Indonesia, 29-30 Oct. **Title:** Temporary anchorage device stability: Monocortical versus bicortical anchorage technique. **Members:** Lim Shuang Ying, Bayomy Mohamed, Rozita Hassan.
- Silver Medal: National Novel Research & Innovation Competition 2016, Penang, 16-18 Aug. **Title:** Optimisation of PCR protocols for odontoblast markers. **Members:** Ong Wei Shen, Tan Hong Jin, Khairul Bariah Ahmad Amin Noordin.
- Bronze Medal: National Novel Research & Innovation Competition 2016, Penang, 16-18 Aug. **Title:** A study of gap interface in incisors using cone-beam computed tomography. **Members:** Safirah Ismail, Shivahami Pubalan, Huwaina Abdul Ghani, Mohd Fadhli Khamis, Yanti Johari.
- Malaysia Toray Science Foundation: A National Science & Technology Research Grant, 20 October 2016. **Title:** Differentiation and characterization of epithelial cells and fibroblasts from stem cell from human exfoliated deciduous teeth (SHED). **Recipient:** Nurul Hafizah Mohd Nor, Zurairah Berahim.
- Universiti Sains Malaysia Vice Chancellor's Award, 1 September 2016-31 August 2017. **Recipient:** Fazal Shahid.
- Awarded MS ISO 15189:2014 Accreditation by Standards Malaysia for Oral Pathology Laboratory (valid until 29 October 2016). **Team members:** Nurhayu Abd Rahman, Norzaliana Zawawi, Masitah Hayati Harun, Siti Samihah Sudiman, Haswati @ Nurhayati Abdullah, Khadijah Mohd. Ali, Asiah Abu Bakar, Eda Sharip.

GRANTS / PUBLICATIONS 2016



In 2016, PPSG had received 8 USM Short Term Grants, 3 RUI Grants and 1 FRGS Grant which amounted to a total of RM 636,648.00.



In 2016, PPSG had published a number of journals according to the following groups; (A) 28 – Journal Citation Report (JCR) Impact Factor, (B) 34 – Scopus, (C) 20 – Non-Citation Indexed Journals and (D) 10 – Other Publications.

LIST OF RESEARCH SEMINARS AND WORKSHOPS FOR 2016

- | No | Title |
|----|--|
| 1 | An Introduction to Research In the School of Dental Sciences
a. Institutional characteristics facilitating research productivity
b. Short-term research grant |
| 2 | An Interactive Session with the Research Creativity and Management Office (RCMO) |
| 3 | Understanding Journals
a. Search engine
b. The effects of attending scientific meetings on research outcomes
c. High Impact journal & publication / citation Indexed & non-citation Indexed journals |
| 4 | Preparation of Research Proposal |
| 5 | Requisition for Purchase of Research Consumables (Vot 27000) |
| 6 | Petty Cash, Honorarium, and Claims |
| 7 | Requisition for Purchase of Research Equipment (Vot 35000) |
| 8 | Basic Statistical Analyses for Health Sciences |
| 9 | Manuscript Writing I
(Abstract & Introduction – A Know How) |
| 10 | Manuscript Writing II
(Methodology, Result / Discussions – A Know How) |
| 11 | Writing a Review Article
(Systematic Review and /or Metz-Analysis) |
| 12 | Expanding Innovation and Commercialization Capability Know How |
| 13 | Understanding KPI & Strategic Planning |
| 14 | Seminar on Phytochemical Study |

THANK YOU EXPATRIATES



Dr. Abdullah Pohchi

**Kalau ada sumur di ladang,
Bolehlah kita menumpang mandi,
Kalau ada umur yang panjang,
Bolehlah kita berjumpa lagi.**

**Pucuk pauh delima batu,
Anak sembilang di tapak tangan,
Walaupun jauh beribu batu,
Hilang di hati di mata jangan.**



Dr. Mon Mon Tin Oo



**Dr. Mohammad Khursheed Alam &
Dr. Rehana Basri**



Associate Professor Dr. Sam'an Malik Masudi

NATIONAL COLLOQUIUM ON STEM CELL RESEARCH 2016

OPENING CEREMONY BY VICE CHANCELLOR AND KEYNOTE SPEECH BY TAN SRI TG MAHALEEL TG ARIFF, BOARD GOVERNOR OF USM



VISIT BY VICE CHANCELLOR OF USM TO EXHIBITION BOOTHS



TALK BY THE INVITED SPEAKERS AND PRESENTING SOUVENIRS TO THE INVITED SPEAKERS



NATIONAL COLLOQUIUM ON STEM CELL RESEARCH 2016

GROUP PHOTO OF INVITED SPEAKERS, JUDGES, PARTICIPANTS AND COMMITTEE MEMBERS



PRIZE GIVING OUT TO THE WINNERS



PHOTOS OF COMMITTEE MEMBERS AFTER THE CLOSING CEREMONY





GIGI 1ST EDITION

LAUNCHING CEREMONY

