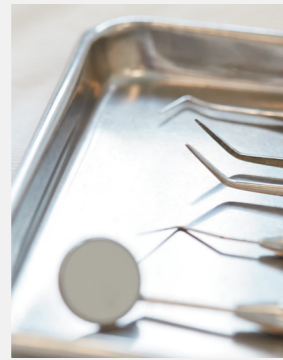


FACULTY OF DENTISTRY

Annual Report AY2016/2017





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VISION & MISSION



VISION

To be a dental institution of international distinction

MISSION

Improve oral health through academic excellence, high impact research and quality clinical practice

DEAN'S MESSAGE



THE FACULTY OF DENTISTRY IS DEDICATED TO ACHIEVING EXCELLENCE IN EDUCATION, RESEARCH AND PATIENT CARE

Each year, we strive to build on the achievements of the previous year, and champion dental education and research. In addition to our dedicated full-time staff, we are fortunate to be able to call on the expertise of a wide range of adjunct, part-time and visiting Faculty who contribute significantly to our teaching programmes.

Leveraging our networks in NUS and NUHS, our research strategy is focused on our areas of expertise in tissue engineering, clinical trials and population health. We aim to produce impactful research to shape the future of dental care for patients and provide high quality dentistry to adults and children in Singapore.

We are grateful for the financial contributions of alumni and donors towards our fund-raising efforts. These generous contributions are channelled to supporting student bursaries, research and clinical care for disadvantaged patients.

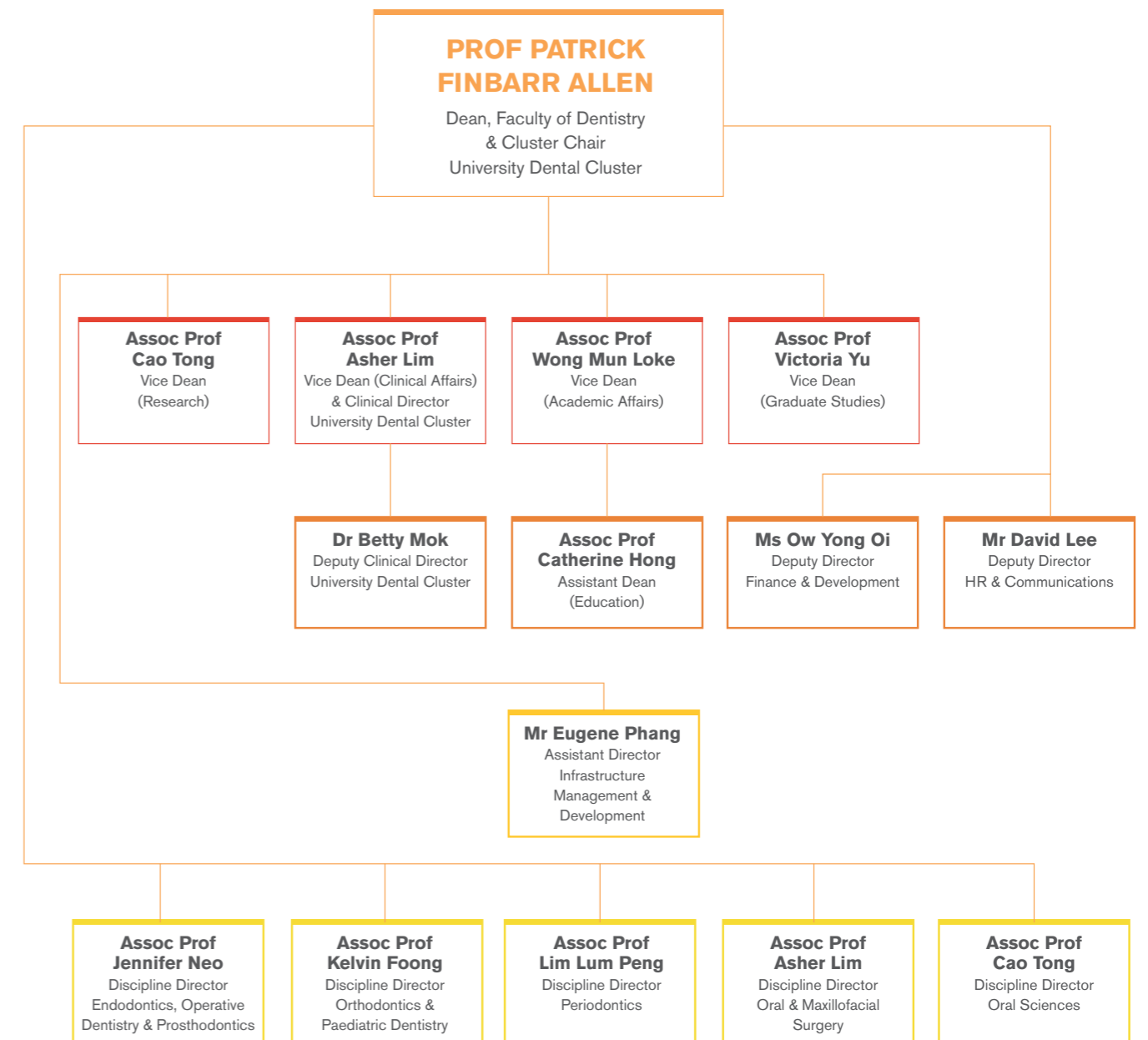
Over the past 12 months, the Faculty has been busily preparing for the opening of the National University Centre for Oral Health, Singapore, scheduled for completion in mid-2018. We have also undertaken a number of teaching and research initiatives to improve the future readiness of our graduates and enhance our global research profile.

In this report, we share with you some of our milestones and achievements.

Professor Patrick Finbarr Allen

FACULTY OF DENTISTRY AND UNIVERSITY DENTAL CLUSTER ORGANISATION STRUCTURE

(As of 30 Jun 2017)



DEANERY



A/P Wong Mun Loke
Vice Dean
(Academic Affairs)



Prof Patrick Finbarr Allen
Dean



A/P Victoria Yu
Vice Dean
(Graduate Studies)



A/P Asher Lim
Vice Dean
(Clinical Affairs)



A/P Catherine Hong
Assistant Dean
(Education)



A/P Cao Tong
Vice Dean
(Research)

FACULTY BOARD MEMBERS



Prof Patrick Finbarr Allen



A/P Wong Mun Loke



A/P Catherine Hong



A/P Asher Lim



A/P Victoria Yu



A/P Lim Lum Peng



A/P Cao Tong



A/P Kelvin Foong



A/P Jennifer Neo

LATEST DEVELOPMENTS OF THE NATIONAL UNIVERSITY CENTRE FOR ORAL HEALTH, SINGAPORE



BUILDING CONSTRUCTION WORKS FOR THE NATIONAL UNIVERSITY CENTRE FOR ORAL HEALTH, SINGAPORE (NUCOHS) HAVE BEEN PROGRESSING SMOOTHLY.

As of June 2017, about 75 per cent of the building structure has been completed. NUCOHS will be operational in 2019.

Artist's impression of the pedestrian overhead bridge connecting NUCOHS to nearby amenities



*Above: June 2017
Left: June 2016*

The NUCOHS Building was awarded BCA Universal Design Mark Gold (Design) Award in the BCA Awards 2017. Universal Design (UD) refers to 'design for everyone' and its main purpose is to create an environment addressing the needs of all age groups and people of different abilities. The annual Universal Design Award by Building & Construction Authority (BCA) initiated in 2007 serves to recognise good practices in implementing UD features, over and beyond the mandatory requirements as specified in the Code on Barrier-Free Accessibility. Deliberate efforts were taken to incorporate many special UD features within the NUCOHS building such as braille or tactile indicators on staircase handrails, stepless entry into the building, designated nursing room, resting areas with adjacent space(s) for wheelchair and baby carriage etc.

**AS OF JUNE 2017,
ABOUT 75 PER CENT
OF THE BUILDING
STRUCTURE HAS
BEEN COMPLETED**

With the completion of the building structure, NUCOHS is taking a step towards becoming Singapore's newest national specialty centre – focused on ramping up oral health services for the public. It is also well poised to be the centre for advancing oral health research and the training of next-generation dentists.

EDUCATION



Today, the Faculty is made up of five Disciplines – Discipline of Endodontics, Operative Dentistry and Prosthodontics; Discipline of Periodontics; Discipline of Orthodontics and Paediatric Dentistry; Discipline of Oral and Maxillofacial Surgery; Discipline of Oral Sciences and the Division of Graduate Dental Studies.

STUDENT ENROLMENT



VISITING PROFESSORS



Professor Zhao Ji
Liaoning Province University

Professor Zhao Ji was appointed Visiting Professor from 16 May 2016 to 27 April 2017. The primary purpose of his visit was to advance academic research collaborations on computer vision and image processing with two NUS faculties – Dentistry and Engineering.



Professor Tan Seong Seng
University of Melbourne

Professor Tan Seong Seng was with us from 2 to 31 August 2016. He conducted postgraduate and undergraduate Orthodontics Seminars and engaged Faculty members in research consultations during his visit. One of his important missions was to guide junior colleagues to engage in good science and excel in their Promotion & Tenure journey.



Professor Peter Svensson
Aarhus University

Professor Peter Svensson was with the Faculty from 11 to 24 August 2016. Known for his wealth of research experience and his stewardship of the Journal of Oral Rehabilitation as Editor-in-Chief since 2004, Professor Svensson provided several seminars and talks on Orofacial Pain and offered research consultations to fellow Faculty members.



Associate Professor Julie Yip
College of Dentistry, New York University

Associate Professor Julie Yip was Visiting Associate Professor from 22 August to 2 September 2016, 13 to 24 March 2017 and 22 May to 2 June 2017. She was involved in undergraduate clinical supervision and the didactic teaching of Periodontology.



Professor Lone Schou
Dental Public Health and Health Promotion, Lyngby Denmark

Professor Lone Schou joined us on Visiting Professorship from 3 January to 31 December 2017. Her expertise is in Dental Public Health and Behavioural Science. She was involved in the undergraduate teaching in these areas, as well as engaged in research consultations in population oral health.

GRADUATING CLASS HIGHLIGHTS UNDERGRADUATE



(Clockwise from top left:) Chu Guang Yan, Alexander Lee, Chan Yi Xin, Aaron Soh, Mabel Chek, Chen Wei Ting, Chung Changsun, David Chng

GROUP A

1. What is the fondest memory you have of dental school?

We have many fond memories of dental school, each experience unique to each year. It includes filling our nostrils with the smell of cadavers, getting chased out of the laboratory and getting reprimanded for our protective gear (or lack thereof), sitting on the windy benches after completing a test we stayed up all night to study for, failing competencies, patient cancelling appointments, gobbling down lunch in 10 minutes, sleeping in class, re-doing laboratory work, getting our fingers sore from bending wires and so much more. It has been a wild ride.

2. What is your greatest takeaway from dental school?

Every failure is a learning opportunity. There is always something to learn from every failure and that it is imperative that we know the purpose of each step of the process. Looking back at our technique work, there was much room for improvement.

3. What are some of the things you enjoy doing as a cluster?

We do not do anything as a cluster except sit next to each other and gossip about other clusters.

GROUP B

1. What is the fondest memory you have of dental school?

Dental school is difficult and stressful, but the little things make it worthwhile. We all have our favourite assessors and memorable hilarious moments with them, such as showing them an actual sandwich when checking for the 'sandwich technique' in Operative Dentistry (OD). Also, thinking back on how far we have come from when we were freshmen gives us a sense of satisfaction and fulfilment. We also feel an immense pride for the Faculty during events such as NUS Rag and Flag and Inter-Faculty Games.

2. What is your greatest takeaway from dental school?

In dental school, no man can be an island. Although times are tough, they are made easier when we share the burden with each other. Over the years we have come to realise the fact that we can achieve many things when we work together. Our epic class videos, the float that we managed to put up in 2015 are all the fruits of our collaborative hard work as a class. As we approach graduation, we hope that we can continue to work together as a class to help each other so that we can all graduate together!



(Left to right) Isabella Lee, Priscilla Foo, Kelly Wong, Jeffrey De Vries, Clarissa Ho, Prof Lim Lum Peng, Kimberly Chan, Cyntia Caroline, Grace Raj, Ho Foong Hui

3. What are some of the things you enjoy doing as a cluster?

Our cluster tries to do silly things together outside of school. In Year 2, in a stroke of impulsiveness, we decided to run a marathon together. The numerous times when we went out for meals together or ordered food into the Faculty were also memorable. We are very grateful for the friendships and bonds that we have made through dental school and hopefully these ties last beyond graduation.

GROUP C



(Clockwise from top left:) Abigail Koh, Delwin Koh, Kwek Yan Xiu, Lee Su Lynn, Klara Koh, Cheryl Lai, Li Hanyi, Gavin Lai

1. What is the fondest memory you have of dental school?

One of our fondest memories of dental school would be Rag & Flag 2015. Spending so much time together building our float allowed us to get to know each other and definitely brought us closer as a team. When Year 1 started, the long breaks between lectures was the highlight as we took the time to venture beyond NUS for good food. Another would be the first day when we entered the Simlab and we were issued our instrument tool box. Dental school suddenly felt 'legit'. This hands-on experience was the reason why we chose dental school and why the dental life chose us.

2. What is your greatest takeaway from dental school?

Our greatest takeaway from dental school was learning how to cope with nerve-racking situations when things do not go according to plan during clinics. Despite that, you just have to do your best. Always begin with the end in mind and things will eventually work out some way or another.

3. What are some of the things you enjoy doing as a cluster?

Some of the things we enjoy doing as a cluster are sharing food to keep ourselves awake in lectures, singing in the laboratory while doing the never-ending pile of labwork.

1. What is the fondest memory you have of dental school?

The fondest memory of dental school is freshmen year. Rag was what kickstarted dental school for us and brought the class together. The experience of singing the dental anthem together and winning the Silver award at Rag was particularly memorable and meaningful. Freshmen year was also when we had the most time to bond over outings and school activities. These laid a good foundation for the years ahead.

2. What is your greatest takeaway from dental school?

Dental school taught us many things – the most significant is how the experience has changed our mindset and psyche. The first key takeaway is that "hope is the only thing stronger than fear". Dental school is no doubt stressful and daunting, but it is by remaining hopeful, and encouraging others to be hopeful, that we survive these hardships. The second key takeaway is to always prepare for what is ahead, be it tests, tutorials, or clinic sessions. As many of our supervisors have told us, "If you fail to prepare, you prepare to fail."

3. What are some of the things you enjoy doing as a cluster?

As a cluster, we spend a lot of time together, not just in classes and clinics, but also after school when we go for outings and leisure activities. However, it is the time we spent together in the laboratory that we enjoyed the most. We have done all sorts of entertaining things ranging from simple chatting and gossiping to singing together in there. This makes the mundane laboratory hours much more bearable and enjoyable.

GROUP D



(Left to right:) Therese Loh, Lim Zhen Ying, Lim Wan Yi, Lianne Seow, Low Xin Ting, Eunice Lua, Aerin Lim, Li Shu, Dawn Lum, Mary Raj

GROUP E



(Left to right:) Bernadette Quah, Ng Wei Xuan, Sean Lim, Celeste Ng, Samantha Huang, Clare Quah

GROUP F

1. What is the fondest memory you have of dental school?

Our fondest memories were the annual BBQ parties at David's house, as well as the exhausting but very rewarding Rag and Flag period in Year 2. We enjoyed making indices for provi fabrication, using the tray resin to make our custom trays and anterior guide tables, and most of all, using soft plaster for mounting dental casts.

2. What is your greatest takeaway from dental school?

Our greatest takeaway is to work smart, not work hard. Dental school may seem tough and overwhelming at times. Having to juggle both academic and clinical workloads can be particularly stressful for some. Working smart, whether studying for tests or planning for clinics, can make life less stressful and create more free time for us. For lunch we especially enjoy takeaways from Dily's packed lunch, Hwang's Korean food, Qi Ji nasi lemak and Platypus salads.

3. What are some of the things you enjoy doing as a cluster?

We enjoy attending tutorials and seminars together where we get to learn from one another. Technique work in Year 1 and 2 was enjoyable too where we laughed at one another's failures and took the opportunities to learn from them. We enjoy borrowing each other's laboratory instruments, getting them mixed up, forgetting to return them and later when someone suddenly realises and returns something – the owner jumps for joy. The fact that we will be graduating soon and going our separate ways is quite the end-joy.

1. What is the fondest memory you have of dental school?

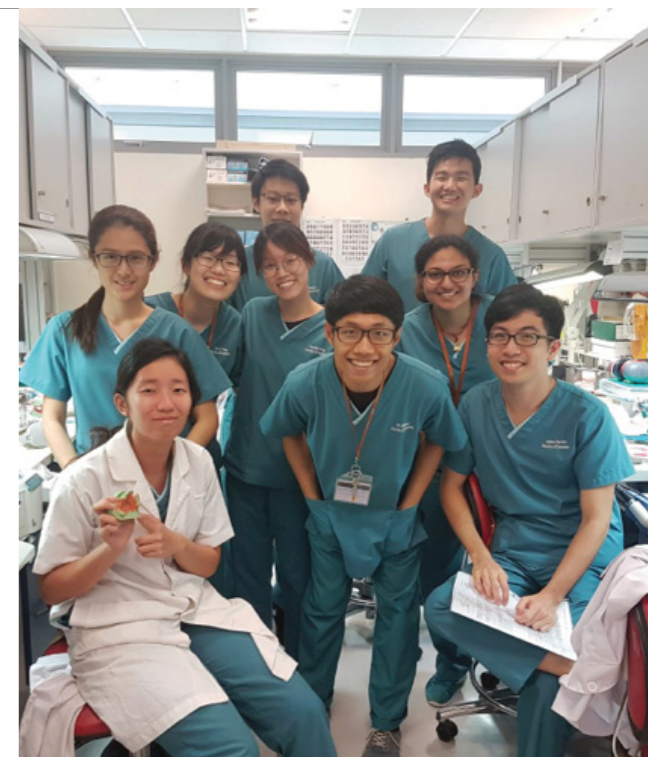
Our fondest memories were when we used to celebrate our groupmates' birthdays back in Year 1, as well as the busy Rag & Flag period in Year 1 and 2. These activities really helped us bond and get to know one another better.

2. What is your greatest takeaway from dental school?

Our greatest takeaway would be learning to work efficiently in the laboratory. Whether for pre-clinical or clinical purposes, laboratory work often bogged us down and took up many hours of our free time. By helping one another and splitting up the workload, we could free up more time to spend outside the laboratory.

3. What are some of the things you enjoy doing as a cluster?

We had plenty of fun taking alginate impressions of one another during our Occlusion module in Year 2. It was our first time actually operating on someone and it was an eye-opener. It was also the first of many times that we would be working together in the clinics and we took the opportunity to learn from one another's mistakes.



Back: Thurston Tan, Tan Kian How
Middle: Tan Shee Yin, Tan Jia Ying, Tan Hui Peng, Sriya Venkata Narayanan
Bottom: Zhang Ruoxi, Wu Wenhao, Xie Jiaming

GRADUATING CLASS HIGHLIGHTS

POSTGRADUATE



Dr Heng Pei Fang and
Dr Chow Ai Tee

“

MY GREATEST TAKEAWAY, OTHER THAN ACHIEVING A DEEPER UNDERSTANDING OF AND PRACTISING ENDODONTICS, IS LEARNING TO MANAGE PRIORITIES

”

■ ENDODONTICS

1. How do you envision yourself contributing to your discipline after graduation?

The Endodontic residency programme has trained us in developing our critical thinking and technical skills as well as giving us opportunities to interact with various disciplines. In all three years of our training, we participated in teaching undergraduate students both in technique work and clinics. The strong emphasis on research projects has also enabled us to work with specialists from different fields (e.g. microbiology, tissue engineering). We envision that in the future we will be able to contribute to our discipline by working with others to improve clinical protocols, develop meaningful research projects as well as inspire dental students to enjoy doing root canal treatment as much as we do!

2. What is your greatest takeaway from your postgraduate training? Did residency help you in your personal growth as an individual and a clinician?

My greatest takeaway, other than achieving a deeper understanding of and practising endodontics, is learning to manage priorities. We play many roles in life and need to make many decisions every day. We have learned to manage our families and be an active student, requiring us to make decisions between urgency and importance. Every day as a clinician, we practise being empathic to our patients and make crucial decisions in the best interests of the patients. This experience enriches us to be better individuals.



(Left to right:) Dr Jessica Chua, Dr Ong Li Ting, Dr Adabelle Ng, Dr Emily Lei, Dr Grace Chan and Dr Karen Kai

■ ORTHODONTICS

1. How do you envision yourself contributing to your discipline after graduation?

All of us were fortunate to be given some form of sponsorship to pursue our postgraduate training and therefore we will contribute back to the public dental institutions in our respective countries after graduation. After settling into our new roles, we aim to further hone our skills in the practice of Orthodontics, and ensure continuous learning by attending local and international courses so that we can better provide for our patients.

We envision a more integrated interdisciplinary approach in treatment planning and working together with various specialties to bring the best treatment possible to our patients. One example is to communicate with paediatric dentists, endodontists and oral surgeons to explore various treatment options such as auto-transplantation of teeth, early-surgery or the surgery-first approach.

In the future, we hope to witness a greater shift towards embracing a digital workflow in our practice.

At the end of the day, we believe all of us – regardless of discipline – only want the best for our patients: aesthetics, function, comfort, confidence and an overall change in their lives, through changing their smiles.

2. What is your greatest takeaway from your postgraduate training?

As our undergraduate training did not prepare us much for Orthodontics, we didn't know what we didn't know (unknown unknowns if you've read the *Black Swan*). Some cases look deceptively simple but go south very quickly.

Through our training, we have seen what a difference Orthodontics can make in our patients' lives – with the right diagnosis, treatment plan and mechanics.

We are very fortunate and thankful to have so many mentors who take time off their schedules to impart their knowledge, skills, (fashion sense, and humour) to us, without expecting anything in return.

3. How did residency help you in your personal growth as an individual and a clinician?

After enjoying freedom and life as working adults, we were thrown back into school life as adult students; still doing homework and laboratory work in our late twenties or early thirties while juggling being daughters, wives, mother and the best Pokémon trainers. All of us have given up something to pursue this Degree because we really want to be good in our chosen field. And we know it is going to be worth it!

As soon-to-be specialists, we now have the responsibility to provide our patients with treatment options based on evidence.

ORAL & MAXILLOFACIAL SURGERY

1. How do you envision yourself contributing to your discipline after graduation?

We will be the light – seriously, we will promise to carry our torches during ward rounds even when we become Registrars. We will also wear our headlamps to brighten up everyone's operating field.

2. What is your greatest takeaway from your postgraduate training? Did residency help you in your personal growth as an individual and a clinician?

The OMS residency programme has exposed us to a realm of possibilities we never imagined when we first embarked on the exciting field of dentistry. We are forever indebted to the great mentors and seniors who have so willingly and thanklessly shown us the path and provided for us. We have definitely grown and expanded – both in girth and knowledge. Some say in the ratio 10:1 in favour of girth.



(Left to right:) Dr Sabrina Ng, Dr Benjamin Ng and Dr Lee Qi Oi



(Left to right:) Dr Justine Lim, Dr Judith Quek and Dr Jessica Khong

PAEDIATRIC DENTISTRY

1. How do you envision yourself contributing to your discipline after graduation?

We hope that as we become Paediatric dentists, we would be able to raise dental awareness for the paediatric population. This entails education at various levels. We hope to be able to contribute to the education of dental students, and equip them with the necessary skills needed to see paediatric patients. We also hope to be able to contribute in educating the general public on preventive dental health especially in young children.

After graduation, we will strive to maintain an open and inquisitive mind, and hopefully contribute to any gaps in knowledge in paediatric dentistry through research.

2. What is your greatest takeaway from your postgraduate training? Did residency help you in your personal growth as in individual and a clinician?

In these two years plus of our training, apart from honing our skills in Paediatric dentistry, we have also become more sensitive towards others and more matured in our thinking and behaviour towards people around us. From seeing patients from all walks of life, we have developed more empathy towards our paediatric patients and their caregivers.



Dr Wen Nee Ho

PERIODONTICS

1. How do you envision yourself contributing to your discipline after graduation?

I hope to be able to continue adding to the depth of periodontology in Singapore as my teachers have done before me. I would like to give back by being actively involved in education and hopefully be able to help guide other dentists in this aspect.

2. What is your greatest takeaway from your postgraduate training? Did residency help you in your personal growth as an individual and a clinician?

One thing that caught me off guard throughout this residency is the intense workload. While I had gone into postgraduate training mentally prepared to work hard, the sheer amount of ground actually covered in this course was still very gruelling. This forced me to dig deep and push myself even harder – I had to multitask effectively and efficiently in order to get the work done, and this gave me the opportunity to discover a level of focus I did not think I was capable of. The training also gave me time to hone my skills and attention to detail as a clinician, and I feel I have come out of this whole experience a stronger individual with an expanded world view.

PROSTHODONTICS

1. How do you envision yourself contributing to your discipline after graduation?

After graduation, we look forward to giving back to society in our area of specialty by meeting the prosthodontic needs of an increasingly ageing population. Community service is one way we can contribute to help the less fortunate who need dental treatment.

We will strive to improve our clinical skills in order to become more competent and efficient. This will allow us to enhance the quality of specialist services. We also hope to bridge the gap between specialists and general practitioners in the area of Prosthodontics.

Teaching future generations of dentists is another area we would like to get involved in, to further increase the level of interest in the discipline of Prosthodontics.

2. What is your greatest takeaway from your postgraduate training? Did residency help you in your personal growth as an individual and a clinician?

"Everything is permissible, but not everything is beneficial."

Residency has broadened our minds and challenged us to think comprehensively about prescribing dental treatment. It has also made us more resilient in handling failures and disappointments. On the other hand, it has been very fulfilling to keep learning and improving as clinicians.

We are most thankful to our professors, teachers and seniors for their invaluable support and guidance. We have also made long-lasting friendships – which we will cherish – throughout this course and beyond.



(Left to right:)
Dr Tay Koong Jiunn,
Dr Alethea Foong
and Dr Wong Jin Lin

“
EVERYTHING IS
PERMISSIBLE, BUT
NOT EVERYTHING
IS BENEFICIAL
”

CALENDAR OF EVENTS

20 NOV 2016



12TH NUS-SDA DISTINGUISHED SPEAKER PROGRAMME

The Distinguished Speaker for this year's programme was Professor Alastair V Campbell, Emeritus Director, Centre for Biomedical Ethics from the Yong Loo Lin School of Medicine, NUS. He was the former President of the International Association of Bioethics and a recipient of the H.K. Beecher Award, a Fellow of the Hastings Centre, New York and of the Ethox Centre, University of Oxford. Professor Campbell is also the Honorary Vice President of the Institute of Medical Ethics and elected Corresponding Fellow of the Royal Society of Edinburgh.

Together with dental and legal experts including Ms Sumytra Menon, Ms Kuah Boon Theng and Ms Florence Ho, and Dr Yip Wing Kong, Prof Campbell addressed the theme "Dentistry Dilemmas: Ethical and Legal Challenges in Dental Practice".

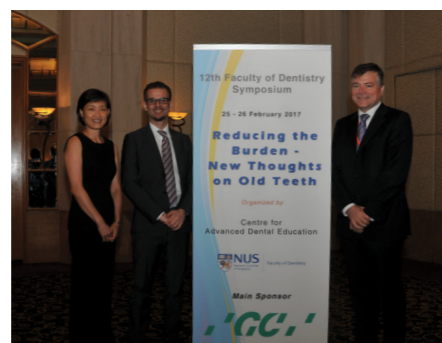
25 - 26 FEB 2017



12TH FACULTY OF DENTISTRY SYMPOSIUM: REDUCING THE BURDEN – NEW THOUGHTS ON OLD TEETH



Over two days at the Grand Copthorne Waterfront Hotel, Professor Patrick Finbarr Allen and Professor Matteo Basso discussed issues pertinent to an ageing population. Emphasis was placed on the need to provide care that is acceptable, accessible and affordable. New diagnostic tools and materials were also highlighted. The speakers generously shared treatment strategies that may be applied to clinical practice regardless of patient age.



26 MAR 2017

INAUGURAL EDMUND TAY MAI HONG DISTINGUISHED SPEAKER PROGRAMME: MULTI-DISCIPLINARY PERSPECTIVE ON SLEEP DISORDERED BREATHING – STATE OF THE ART



This inaugural event featured a panel of distinguished speakers with shared interest in a topic relevant to our daily lives – sleep. The audience was delighted by the insights provided by Professor Peter Cistulli, Head of the Centre for Sleep Health and Research in the Department of Respiratory and Sleep Medicine at Royal North Shore Hospital, Australia. Local speakers Associate Professor Lee Chi-Hang Ronald, Dr Kenny Peter Pang, Clinical Associate Professor Mimi Yow and Dr David K L Tay also shared their expertise from cardiology, ENT, orthodontic and prosthodontic perspectives respectively. This event triggered many meaningful conversations. It is hoped that future collaborations across specialties can accelerate research output and clinical benefit.



28 MAY 2017

21ST NUS CLINICAL DENTISTRY SYMPOSIUM



The annual NUS Clinical Dentistry Symposium was held on 28 May 2017 at the NUS Peter & Mary Fu Lecture Theatre. We had the privilege of having Professor Steven R Armstrong from the University of Iowa and Professor Dimitris N. Tatakis from The Ohio State University speak about important clinical updates. Additionally, our very own Dr Tan Hee Hon, Dr Kaan Sheung Kin and Dr Hu Shijia shared the stage and contributed to a day of wonderful learning.

22 - 25 MAR 2017

PARTICIPATION AT 2017 IADR SAN FRANCISCO

The 95th General Session & Exhibition of the IADR, was held in conjunction with the 46th Annual Meeting of the AADR and the 41st Annual Meeting of the CADR at the Moscone West in San Francisco, USA from 22 to 25 March 2017. Besides our faculty and students presenting their research work, the Faculty was also represented at a booth in the exhibition hall. The booth received an overwhelming number of visitors. It was an excellent opportunity for our delegation to meet international participants and raise the Faculty's profile.



At the IADR Annual General Meeting, we were proud to have two of our PhD students receiving prestigious awards. Dr Preethi Prajod, a second year PhD student under supervision of Dr Jaya Seneviratne (primary supervisor) and Associate Professor Wong Mun Loke (co-supervisor), received the IADR/Colgate Research in Prevention Award for her work on "Metagenomics of oral microbiome during pregnancy and postpartum period". Meanwhile, Mr Kassapa Ellepola, a final year PhD student under supervision of Dr Jaya Seneviratne (primary supervisor) and Associate Professor Cao Tong, received the IADR Lion Award for his work on "Streptococcus mutans GtfB augments Candida albicans accumulation in mixed-species biofilms".

RESEARCH



Research is one of the emerging strengths of the Faculty. We aim to develop strategic areas that are shaped by relevant clinical questions and emerging health needs.



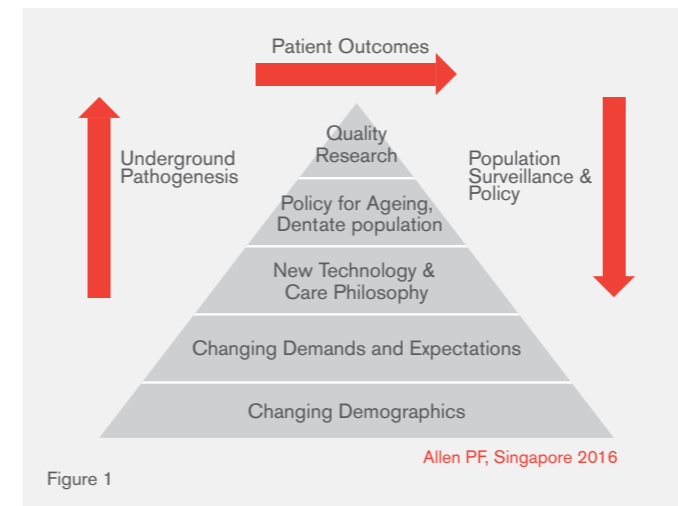
THE NEW RESEARCH UNITS

IN 2016, WHEN PROFESSOR PATRICK FINBARR ALLEN ASSUMED DEANSHIP, HE SHARED HIS VISION FOR CLINICAL AND TRANSLATIONAL RESEARCH (FIGURES 1 AND 2).

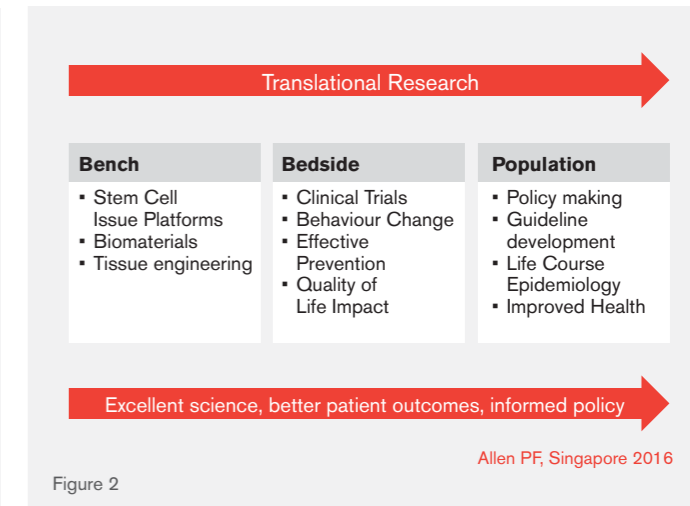
This set the stage for the set up of 2 new research units – the Population Oral Health and Services Research Unit as well as the Clinical Research Unit to drive and synergise research for better patient outcomes in dentistry.



Research Landscape for Oral Health



Development of NUCOHS Research Agenda



POPULATION ORAL HEALTH AND SERVICES RESEARCH UNIT

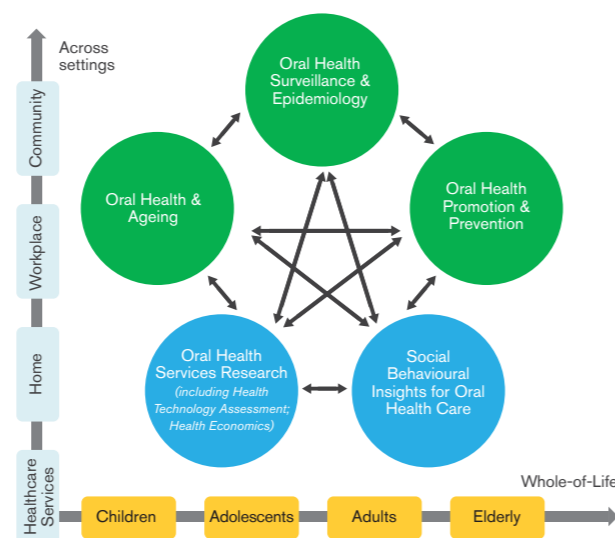
THE POPULATION ORAL HEALTH AND SERVICES RESEARCH UNIT (POHSRU) IS A MULTI-DISCIPLINARY RESEARCH FACILITY WHICH EXPLORES ORAL HEALTH FROM A BIO-PSYCHO-SOCIAL PERSPECTIVE.

Through its work, POHSRU seeks to enhance the understanding of the determinants, behaviours, attitudes and practices which influence the oral health of the population.

At present, POHSRU will anchor its strategic directions on five key domain areas namely:

- Oral Health Surveillance and Epidemiology
- Oral Health and Ageing
- Oral Health Promotion and Prevention
- Oral Health Services Research
- Social Behavioural Insights in Oral Health Care

POHSRU – Research Domains



Across these five domains, POHSRU aims to improve the oral health of the community, in the community, with the community by influencing and shaping the formulation of evidence-informed policies, clinical care practice guidelines, services and programmes.

As an integral part of the Faculty, POHSRU is well poised to work closely with a team of dental clinicians, scientists and academics to address clinically relevant issues to impact population oral health. As part of the larger National University Health System (NUHS) ecosystem, POHSRU collaborates with the NUS Saw Swee Hock School of Public Health and other healthcare partners to advance its research efforts especially in the area of oral-general health promotion. With such interactions, POHSRU serves to integrate and synergise research efforts across the clinical, laboratory and population platforms.

“ POHSRU – PROMOTING ORAL HEALTH OF THE COMMUNITY IN THE COMMUNITY WITH THE COMMUNITY ”

CLINICAL RESEARCH UNIT

TOGETHER WITH THE POPULATION ORAL HEALTH SERVICES RESEARCH UNIT (POHSRU), THE CLINICAL RESEARCH UNIT (CRU) HAS A VISION TO WORK WITH EXISTING AND EMERGING RESEARCH GROUPS IN THE FACULTY AS WELL AS EXTERNAL PARTNERS, TO DRIVE MEANINGFUL AND ETHICAL CLINICAL RESEARCH ACTIVITIES (FIGURE 3).

Since its inception on 13 March 2017, Clinical Research Coordinator Ms Xu Jinghong and Clinical Research Assistants, Ms Zeng Xiu Qing and Ms Ong Mei Teng have been running day-to-day clinical research operations. They also provide support services in submissions to ethical boards, project agreements, including clinical research collaborative agreements, clinical trial agreements, material transfer agreements and liaising with

stakeholders and governing bodies. Using available resources, the team has set up a test bed in one of the offices at the NUH Main Building to study Faculty research needs and to channel this knowledge towards building the CRU in NUCOHS.

Looking to provide comprehensive support to clinicians, the CRU also added Ms Sim Yu Fan, a Biostatistician, to the team. As Ms Sim puts it, “A good study design is important for successful clinical trials. A study design with bias and errors cannot be rectified by any statistical adjustment.” She will be working closely with clinicians to ensure that the studies are well designed (Figure 4).

The CRU is currently supporting a study on “Regenerative Endodontic Therapy (RET) using antibiotic pastes or calcium hydroxide disinfection for the management of immature non-vital permanent teeth in children”, a clinical trial headed by Dr Tong Huei Jinn in collaboration with the Health Promotion Board.

With the support of the CRU, FOD and NUCOHS are poised to be the leading centre to translate excellent science into better patient outcomes and informed policies for the nation and beyond.

Synergies and Collaborations across POHSRU, CRU and Beyond

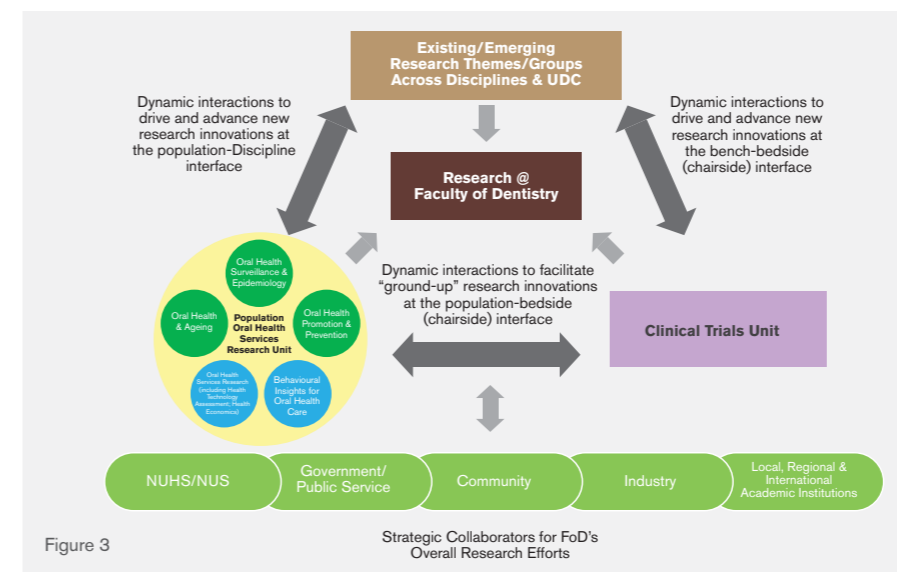


Figure 3

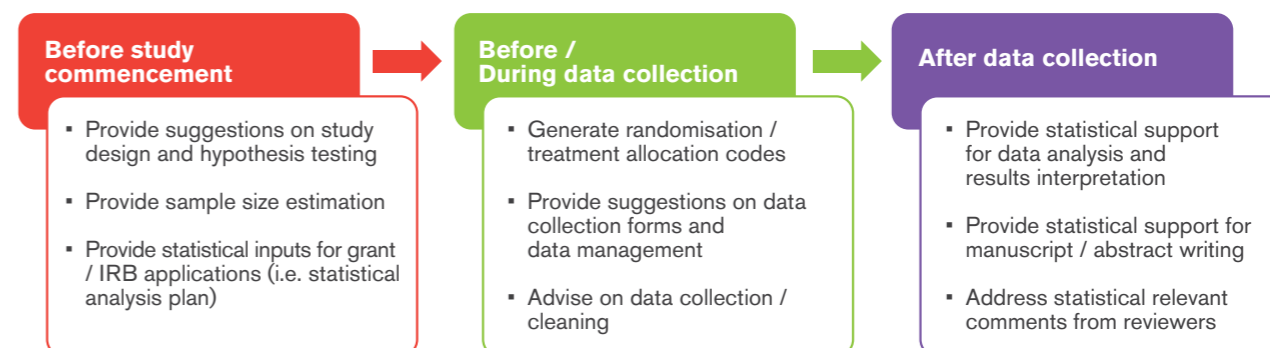


Figure 4

RESEARCH COLLABORATIONS

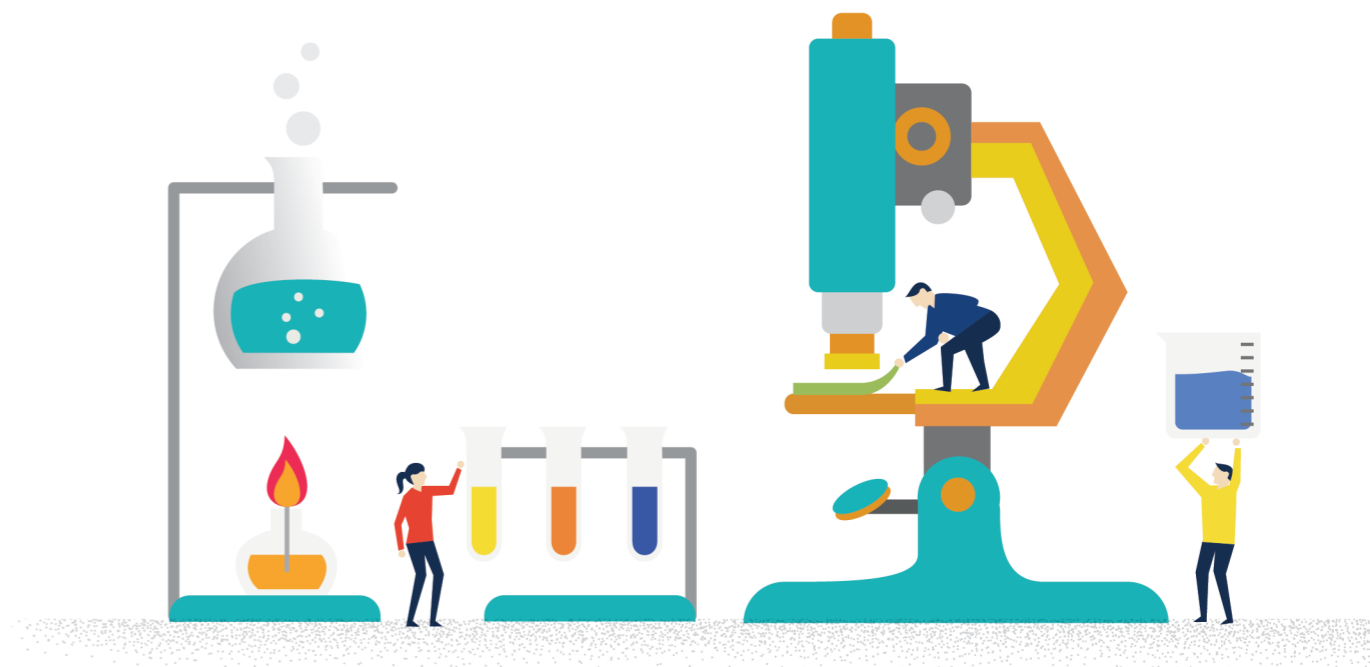
Name of Staff	Start Date	End Date	Collaborations with Institutions
Dr Vinicius Rosa	Jul 16	Jul 17	Kerr Corporation, CA (RCA)
Dr Tan Kai Soo	Dec 16	Dec 17	Sunstar Inc (RCA) & NUH
Dr Jaya Seneviratne	Jan 17	Jan 20	Medical Research Council Technology, UK (RCA)
Dr Tan Kai Soo / A/P Victoria Yu	Mar 17	Mar 18	Promega Corporation & NUH (NDA Bilateral)
A/P Cao Tong	Apr 17	Apr 18	Queen Mary University of London (NDA Mutual)
Dr Hu Shijia	May 17	Feb 20	Genome Institute of Singapore, Biomedical Sciences Institutes & NUH
Dr Sriram Gopu	Jun 17	Jun 18	STEMCELL Technologies Canada Inc (MTA)

RESEARCH AWARDS

S/N	Name of Student	Name of Award	Project Title	Award date	Remarks (if any)
1	Goh Hui Yi Clara, Haw Sue Yi, Leong Jin Ni & Ren Jiamin	3 rd prize in the 2 nd China-ASEAN Excellent Young Dental Student Forum	Distribution of Smile Types in the Singaporean Population and its Correlation with Lip Length and Mobility	Oct 16	Supervisor: Dr Fu Jia Hui
2	Dr Preethi Prajod (PhD)	IADR/Colgate Research in Prevention Award	Metagenomics of Oral Microbiome During Pregnancy and Postpartum Period	Mar 17	Supervisor: Dr Jaya Seneviratne Co-Supervisor: A/P Wong Mun Loke
3	Kassapa Ellepola (PhD)	IADR Lion Award	Streptococcus Mutans Gtfb Augments Candida Albicans Accumulation in Mixed-species Biofilms	Mar 17	Supervisor: Dr Jaya Seneviratne
4	Ng Sing Yi, James Joseph Tan, Bee Zhi, Keh Yu Jia, Tan Jian'en Julian @ Goh Julian	Outstanding Undergraduate Researcher Prize (OURP) AY2016/17	In-vitro Comparison of 3-dimensional Accuracy of Conventional Impressions Versus Intraoral and Extraoral Digital Impressions for Implant-supported Full-arch Fixed Dental Prostheses	Jun 17	Supervisor: A/P Keson Tan
5	Goh Hui Yi Clara, Haw Sue Yi, Ren Jiamin, Leong Jin Ni	Outstanding Undergraduate Researcher Prize (OURP) AY2016/17	Distribution of Gingival Smile Types and the Difference in Perception of Smile Aesthetics between Dentists and Laypeople	Jun 17	Supervisor: Dr Fu Jia Hui

RESEARCH ACHIEVEMENTS

Name	Information
Associate Professor Stephen Hsu	<p>Associate Professor Stephen Hsu and fellow researchers from the Singapore Institute for Clinical Sciences of the Agency for Science, Technology and Research discovered that infants with eczema were three times more likely to develop tooth decay at two and three years of age. The discovery was published in the The Journal of Allergy and Clinical Immunology in January 2017. This is an important discovery as eczema affects one in five school-going children here. From the 2009 Faculty of Dentistry study, 40 per cent of preschool children in Singapore suffer from tooth decay. The team has identified structural defects during tissue development as a possible reason for the link between eczema and tooth decay. Associate Professor Hsu believes tooth decay is highly preventable and the discovery can provide parents and caregivers of babies who have eczema with early warning of tooth decay development. As a result of this knowledge, more regular dental check-ups for these babies can prevent tooth decay.</p> <p>The Straits Times carried a report of this discovery on 24 January 2017. http://www.straitstimes.com/singapore/babies-with-eczema-at-higher-risk-of-tooth-decay Associate Professor Hsu was also interviewed by the BBC News on 30 January 2017 on the recent discovery.</p>
Associate Professor Keson Tan	<p>Associate Professor Keson Tan and team had their paper "Application of finite element analysis in implant dentistry: A review of the literature" listed within the Top 100 articles in a recent paper by Fardi et al. "Top Cited Articles in Implant Dentistry", The International Journal of Oral & Maxillofacial Implants 2017. It is ranked #39 and it is one of only four papers from Asia in the listing. To date, SCOPUS shows that the paper has been cited >400 cites.</p> <p>Geng, J.-P., Tan, K.B.C., Liu, G.-R. Application of finite element analysis in implant dentistry: A review of the literature, Journal of Prosthetic Dentistry 2001 journal-article DOI: doi:10.1067/mp.2001.115251 Journal of Prosthetic Dentistry, Volume 85, Issue 6, June 2001, Pages 585-598</p>
Dr Amr Fawzy	<p>Dr Amr Fawzy's research was featured on the cover of JDR Volume 96, Issue 7, Pages 780-789, 2017 Article link: http://journals.sagepub.com/doi/abs/10.1177/0022034517691757?journalCode=jdrb</p>
Dr Jaya Seneviratne & Associate Professor Kelvin Foong	<p>Featured as leading cover story of American Journal of Orthodontics and Dentofacial Orthopedics (AJO-DO), April issue, 2017, Pages 669-677 Article Link: http://www.sciencedirect.com.libproxy1.nus.edu.sg/science/article/pii/S0889540616308745?via%3Dihub</p>



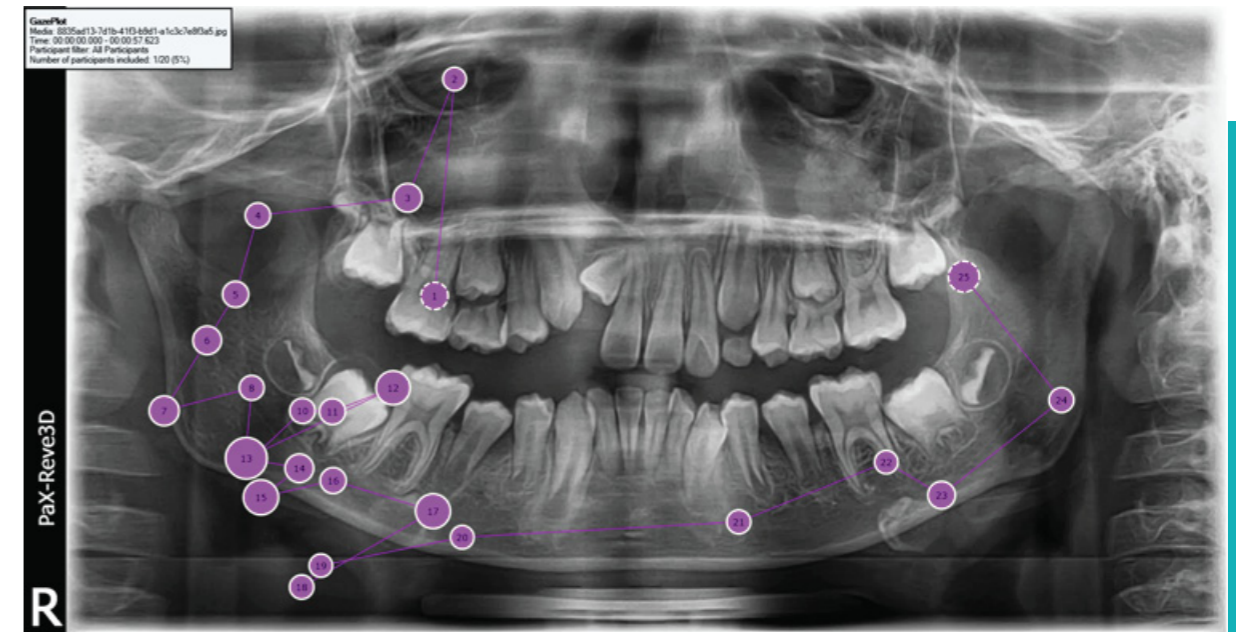
LIST OF SUCCESSFUL RESEARCH GRANTS

APR 2016 - MAR 2017

	PI	Co-PI/ Co-I	Collaborators	Grant's Title	Grant Type	Amount Awarded with IRC (S\$)
NMRC GRANTS						
1	Dr Jaya Seneviratne	NA	Prof Yue Wang (IMCB, A*STAR), Dr. Lit-Hsin Loo (Bioinformatics Institute, A*STAR), Dr. Daniele Zink (Institute of Bioengineering and Nanotechnology, A*STAR)	Evaluation of Comparative In Vitro and In Vivo Nephrotoxicity of Novel Antifungal Agents	NMRC/CIRG	\$ 598,800.00
NUHS GRANTS						
1	Dr Tan Kai Soo	NA	A/P Victoria Yu	Rapid Chair-side Detection of Root Canal Bacteria for Personalized Endodontic Treatment	Centre for Personalised Health (CPPH)	\$ 73,200.00
2	Dr Vinicius Rosa	Dr CS Jaya	Prof Antonio Helio Castro Neto (CA2DM, NUS), A/P Jose Carlos Viana Gomes (Physics), A/P Cao Tong	Graphene films onto three-dimensional prosthetic devices: effects on biocompatibility, osteogenesis and biofilm formation	NUHS O-CRG	\$ 179,999.00
3	A/P Stephen Hsu	NA	NA	Characterization of Oral-systemic Link and Oral-gut Microbiome Cross-talk to Explore Environmental-genetic Markers for Novel Diagnostics and Therapeutics in Oral/medical Healthcare	NUHS Bridging Funds	\$ 57,300.00
INDUSTRY						
1	Dr Tan Kai Soo	Dr Fu Jia Hui (NUH PI)	Mr Toyokazu Mori (Genral Manager, Oral Care Company, Sunstar Group)	An Investigation of the Immune Response of Type 2 Diabetes Mellitus Patients with Poor Glycemic Control Against Periodontal Pathogens	Sunstar Inc	\$ 53,506.45
2	Dr Vinicius Rosa	Dr Carlos Munoz (Kerr Corporation, USA)	NA	Physical and Mechanical Properties of Bulk-fill Restorative Materials	Industrial-Kerr Corporation	\$ 10,242.34
FACULTY GRANTS						
1	A/P Lim Lum Peng	Dr Tan Kai Soo, Dr Jacinta Lu, Chan Yiong Huak (Biostatistics)		Calcium Channel Blockers and Gingival Overgrowth	Faculty Fund	\$ 10,000.00
2	Dr Fu Jia Hui	Dr Toh Wei Seong		Exosome-based Therapy for Periodontal Regeneration in Intrabony Defects: A Proof-of-Concept Study	Faculty Fund	\$ 6,700.00
3	Dr Vinicius Rosa	-		Osteoblast Activity and Mechanical Stimulation of Cells Promoted by Graphene Produced by Chemical Vapour Deposition	ARF-FRC	\$ 50,000.00
4	A/P Catherine Hong	Dr Tan Kai Soo, Dr Francis Ho Cho Hao (Radiation Oncology, NUHS), Dr Rohan Williams (SCELS)		Probiotics Intake on Microbiome and Mucosa Inflammation in Oral Mucositis	ARF-FRC	\$ 50,000.00
STARTUP GRANTS						
1	Prof Patrick Finbarr Allen	A/P Wong Mun Loke	A/P Gerald Koh (SPH)	Impact of Subsidised Care Plans on Oral Health and Dental Service Utilisation among Older Singaporeans	Startup Grant	\$ 491,476.00
2	Dr Hu Shijia	NA	Dr David Ong Eng Hui (Dept of Medicine, NUH)	Exploring the Oral Microbiome and Metabolome in Crohn's Disease	Startup Grant	\$ 178,750.00
EDUCATION GRANTS						
1	A/P Kelvin Foong (Lead PI), A/P Quek Swee Tian, YLLSOM & A/P Yen Ching Chiu, SDE	A/P Asher Lim Ah Tong, A/P Frank Voon Chee Tet (YLLSOM), Dr Noohu Mohamed Irfan Ali (NYP), Ms Soon Lay Yong (NYP)	A/P Adrian G Dyer (RMIT)	Visual Attentional Focus in Expert Reasoning to Improve Accuracy in Diagnostic Imaging	MOE Tertiary Education Research Fund (TRF)	\$ 379,600.00
						INTERNAL GRANTS 1,097,425.00
						EXTERNAL GRANTS 1,042,148.79

FROM NOVICE TO EXPERTISE IN X-RAY READING: A MOE TERTIARY EDUCATION RESEARCH FUND PROJECT

Led by Associate Professor Kelvin Foong to Improve Diagnostic Performance



Example of a novice's eye movement on examining a DPT.

ONE OF THE FACULTY'S CORE OBJECTIVES IS "TO BE THE EDUCATIONAL HUB FOR DENTISTRY IN THE REGION, BEING A CONFLUENCE WHERE THE VERY BEST DENTAL STUDENTS, STAFF AND FACULTY INTERACT AND LEARN FROM ONE ANOTHER".

In order to achieve that, we need to conduct good educational research to drive our teaching pedagogy. Leveraging technology to enhance student learning has been a passion of Associate Professor Kelvin Foong. This project addresses the challenge of training novices for expert performance in reading X-rays and will be accomplished by first, understanding the role of visual search strategies in the novices' perception and interpretation of X-rays through the use of eye-tracking. The second aim is to develop and implement feedback interventions (based on the individual's eye movements) to reduce radiographic diagnostic errors, and to measure the effectiveness of these interventions.

This multi-department programmatic project is helmed by Associate Professor Kelvin Foong. The eye-tracking experiments are carried out in Diagnostic Radiology and overseen by Associate Professor Quek Swee Tian and Dr Thazin Han from the Department of Diagnostic Imaging (YLLSOM), in Oral Radiology with Associate Professor Asher Lim as a Co-Investigator, and in the Dental Hygiene and Therapy programme at the Nanyang Polytechnic under the care of Dr Noohu Mohamed Irfan Ali and Ms Soon Lay Yong. Associate Professor Frank Voon, from the Department of Anatomy (YLLSOM), will help students develop and strengthen the cognitive connection between clinical anatomy and radiographic anatomy. We will also have Associate Professor Adrian Dyer from RMIT University (Melbourne, Australia), a world-renowned expert in human perception and eye tracking, assisting the PIs and Co-PIs in designing eye-tracking experiments and analyse the eye tracking data.

With such a strong team in place and the support of the various schools, we hope to enhance the teaching and learning of X-ray reading for improved diagnostic performance.

LISTING OF PUBLICATIONS

No.	Authors	Title	Year	Source title
1	Wu Y., Azmi D.F.B., Rosa V., Fawzy A.S., Fuh J.Y.H., Wong Y.S., Lu W.F.	Fabrication of dentin-like scaffolds through combined 3D printing and bio-mineralisation	2016	Cogent Engineering
2	Handral H.K., Sriram G., Cao T.	Stem Cells: A Potential Source for High Throughput Screening in Toxicology	2016	Stem Cells in Toxicology and Medicine
3	Huang Z., Wang Z., Zheng W., Hsu S.C.-Y.	Polarization-resolved hyperspectral stimulated Raman microscopy for tooth imaging	2016	2016 Conference on Lasers and Electro-Optics, CLEO 2016
4	Toh W.S., Brittberg M., Farr J., Foldager C.B., Gomoll A.H., Hui J.H.P., Richardson J.B., Roberts S., Spector M.	Cellular senescence in aging and osteoarthritis: Implications for cartilage repair	2016	Acta Orthopaedica
5	Foldager C.B., Bendtsen M., Berg L.C., Brinchmann J.E., Brittberg M., Bunker C., Canseco J., Chen L., Christensen B.B., Colombier P., Deleuran B.W., Edwards J., Elmengaard B., Farr J., Gatenholm B., Gomoll A.H., Hui J.H., Jakobsen R.B., Joergensen N.L., Kassem M., Koch T., Kold S., Krogsgaard M.R., Lauridsen H., Le D., Le Visage C., Lind M., Nygaard J.V., Olesen M.L., Pedersen M., Rathcke M., Richardson J.B., Roberts S., Rölfing J.H.D., Sakai D., Toh W.S., Urban J., Spector M.	Aarhus Regenerative Orthopaedics Symposium (AROS): Regeneration in the ageing population	2016	Acta Orthopaedica
6	Zhang Z., Ong S.H., Zhong X., Foong K.W.C.	Efficient 3D dental identification via signed feature histogram and learning keypoint detection	2016	Pattern Recognition
7	Nair R., Tsakos G., Yee Ting Fai R.	Testing reliability and validity of oral impacts on daily performances for Chinese-speaking elderly Singaporeans	2016	Gerodontology
8	Zhang S., Chu W.C., Lai R.C., Lim S.K., Hui J.H.P., Toh W.S.	Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration	2016	Osteoarthritis and Cartilage
9	Ding Q., Tan K.S.	The danger signal extracellular ATP is an inducer of <i>Fusobacterium nucleatum</i> biofilm dispersal	2016	Frontiers in Cellular and Infection Microbiology
10	Truong T., Zeng G., Lin Q., Kwang L.T., Tong C., Chan F.Y., Wang Y., Seneviratne C.J.	Comparative ploid proteomics of <i>Candida albicans</i> biofilms unraveled the role of the AHP1 gene in the biofilm persistence against amphotericin B	2016	Molecular and Cellular Proteomics
11	Un Lam C., Hsu C.-Y.S., Yee R., Koh D., Lee Y.S., Chong M.F.-F., Cai M., Kwek K., Saw S.M., Godfrey K., Gluckman P., Chong Y.S.	Influence of metabolic-linked early life factors on the eruption timing of the first primary tooth	2016	Clinical Oral Investigations
12	Un Lam C., Hsu C.-Y.S., Yee R., Koh D., Lee Y.S., Chong M.F.-F., Cai M., Kwek K., Saw S.M., Gluckman P., Chong Y.S.	Early-life factors affect risk of pain and fever in infants during teething periods	2016	Clinical Oral Investigations
13	Handral H.K., Tong H.J., Islam I., Sriram G., Rosa V., Cao T.	Pluripotent stem cells: An in vitro model for nanotoxicity assessments	2016	Journal of Applied Toxicology
14	Suriyanarayanan T., Periasamy S., Lin M.-H., Ishihama Y., Swarup S.	Flagellin FliC phosphorylation affects type 2 protease secretion and biofilm dispersal in <i>Pseudomonas aeruginosa</i> PAO1	2016	PLoS ONE

No.	Authors	Title	Year	Source title
15	Toh W.S., Lai R.C., Hui J.H.P., Lim S.K.	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment	2016	Seminars in Cell and Developmental Biology
16	Srinivasan A., Toh Y.-C., Loh X.J., Toh W.S.	Substrates and Surfaces for Control of Pluripotent Stem Cell Fate and Function	2016	Advanced Surfaces for Stem Cell Research
17	Lim K., Yap A.U., Agarwalla S.V., Tan K.B.C., Rosa V.	Reliability, failure probability, and strength of resin-based materials for CAD/CAM restorations	2016	Journal of Applied Oral Science
18	Yap A.U.J., Chua A.P.	Sleep bruxism: Current knowledge and contemporary management	2016	Journal of Conservative Dentistry
19	Herath T.D.K., Darveau R.P., Seneviratne C.J., Wang C.-Y., Wang Y., Jin L.	Heterogeneous <i>Porphyromonas gingivalis</i> LPS modulates immuno-inflammatory response, antioxidant defense and cytoskeletal dynamics in human gingival fibroblasts	2016	Scientific Reports
20	Hu S., Parker J., Divaris K., Padilla R., Murrah V., Wright J.T.	Ameloblastoma Phenotypes Reflected in Distinct Transcriptome Profiles	2016	Scientific Reports
21	Priyadarshini B.M., Selvan S.T., Lu T.B., Xie H., Neo J., Fawzy A.S.	Chlorhexidine Nanocapsule Drug Delivery Approach to the Resin-Dentin Interface	2016	Journal of Dental Research
22	Rosa V., Xie H., Dubey N., Madanagopal T.T., Rajan S.S., Morin J.L.P., Islam I., Castro Neto A.H.	Graphene oxide-based substrate: physical and surface characterization, cytocompatibility and differentiation potential of dental pulp stem cells	2016	Dental Materials
23	Hayes M., Da Mata C., Cole M., McKenna G., Burke F., Allen P.F.	Risk indicators associated with root caries in independently living older adults	2016	Journal of Dentistry
24	Wu Y., Sriram G., Fawzy A.S., Fuh J.Y.H., Rosa V., Cao T., Wong Y.S.	Fabrication and evaluation of electrohydrodynamic jet 3D printed polycaprolactone/chitosan cell carriers using human embryonic stem cell-derived fibroblasts	2016	Journal of Biomaterials Applications
25	Lei J., Fu J., Yap A.U.J., Fu K.-Y.	Temporomandibular disorders symptoms in Asian adolescents and their association with sleep quality and psychological distress	2016	Cranio - Journal of Craniomandibular Practice
26	Goo C.L., Yap A.U.J., Tan K.B.C., Fawzy A.S.	Effect of polishing systems on surface roughness and topography of monolithic zirconia	2016	Operative Dentistry
27	Tan G.-R., Wang M., Hsu C.-Y., Chen N., Zhang Y.	Small Upconverting Fluorescent Nanoparticles for Biosensing and Bioimaging	2016	Advanced Optical Materials
28	Melody F.M.S., U-Jin Y.A., Natalie T.W.M., Elizabeth T.W.L., Chien J.Y.S.	Effects of thermal fatigue on shear punch strength of tooth-colored restoratives	2016	Journal of Conservative Dentistry
29	Allen P.F., Anweigi L., Ziada H.	A prospective study of the performance of resin bonded bridgework in patients with hypodontia	2016	Journal of Dentistry
30	Tan S.F., Tong H.J., Lin X.Y., Mok B., Hong C.H.	The cariogenicity of commercial infant formulas: a systematic review	2016	European Archives of Paediatric Dentistry
31	Goh C.E., Guay M.P., Lim M.Y., Lim S.M., Loke S.Y., Toh H.E., Nair R.	Correlates of attitudes and perceived behavioural control towards oral care provision among trained and untrained nursing home caregivers in Singapore	2016	Journal of Clinical Nursing
32	Guo W., Quah S.Y., Lim K.C., Yu V.S.H., Tan K.S.	Cysteamine Enhances Biofilm Eradication Efficacy of Calcium Hydroxide	2016	Journal of Endodontics
33	Ashjayothi C., Prabhurajeshwar C., Handral H.K., Kelmani C.R.	Investigation of antifungal and anti-mycelium activities using biogenic nanoparticles: An eco-friendly approach	2016	Environmental Nanotechnology, Monitoring and Management

No.	Authors	Title	Year	Source title
34	Hu S. , Divaris K., Parker J., Padilla R., Murrach V., Wright J.T.	Transcriptome variability in keratocystic odontogenic tumor suggests distinct molecular subtypes	2016	Scientific Reports
35	Ooi X.J., Tan K.S.	Reduced glutathione mediates resistance to H2S toxicity in oral streptococci	2016	Applied and Environmental Microbiology
36	Nair R. , Chuang J.C.P., Lee P.S.J., Leo S.J., Yang N.Q., Yee R., Tong H.J.	Adult perceptions of dental fluorosis and select dental conditions-an Asian perspective	2016	Community Dentistry and Oral Epidemiology
37	Scully C., Robinson A.	Check before you travel: Zika virus-another emerging global health threat	2016	British Dental Journal
38	Li M., Zou Y., Lu Q. , Tang N., Heng A., Islam I., Tong H.J. , Dawe G.S., Cao T.	Efficient derivation of dopaminergic neurons from SOX1- floor plate cells under defined culture conditions	2016	Journal of Biomedical Science
39	Hong C., Tang K.S. , Villegas M., Tan P.L.	Case report: An unusual presentation of oral acute graft-versus-host-disease in a haploidentical hematopoietic stem cell transplant recipient	2016	Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology
40	Chen X., Zou X., Yu G., Fu X., Cao T. , Xiao Y., Ouyang H.	Expert consensus on induction of human embryonic stem cells into tenocytes	2016	Zhejiang da xue xue bao. Yi xue ban = Journal of Zhejiang University. Medical sciences
41	Seneviratne C.J. , Rajan S., Wong S.S.W., Tsang D.N.C., Lai C.K.C., Samaranyake L.P., Jin L.	Antifungal susceptibility in serum and virulence determinants of candida bloodstream isolates from Hong Kong	2016	Frontiers in Microbiology
42	Yu G., Cao T. , Zou X., Zhang X., Fu X., Peng S., Deng X., Li S., Liu H., Xiao R., Ouyang H., Peng H., Chen X., Zhao Z., Wang X., Fang H., Lu L., Ren Y., Xu M.	Development of human embryonic stem cell platforms for human health-safety evaluation	2016	Beijing da xue xue bao. Yi xue ban = Journal of Peking University. Health sciences
43	Tanikawa C., Zere E., Takada K.	Sexual dimorphism in the facial morphology of adult humans: A three-dimensional analysis	2016	HOMO- Journal of Comparative Human Biology
44	Kojima Y., Ohshima T., Seneviratne C.J. , Maeda N.	Combining prebiotics and probiotics to develop novel synbiotics that suppress oral pathogens	2016	Journal of Oral Biosciences
45	Wang Z., Zheng W., Hsu C.-Y.S. , Huang Z.	Polarization-resolved hyperspectral stimulated Raman scattering microscopy for label-free biomolecular imaging of the tooth	2016	Applied Physics Letters
46	Ding Q., Quah S.Y., Tan K.S.	Secreted adenosine triphosphate from Aggregatibacter actinomycetemcomitans triggers chemokine response	2016	Molecular Oral Microbiology
47	Islam I., Sriram G., Li M., Zou Y., Li L., Handral H.K., Rosa V., Cao T.	In Vitro Osteogenic Potential of Green Fluorescent Protein Labelled Human Embryonic Stem Cell-Derived Osteoprogenitors	2016	Stem Cells International
48	Rosa V., Dubey N., Islam I. , Min K.-S., Nör J.E.	Pluripotency of Stem Cells from Human Exfoliated Deciduous Teeth for Tissue Engineering	2016	Stem Cells International
49	Zhang S., Lu Q., Cao T., Toh W.S.	Adipose tissue and extracellular matrix development by injectable decellularized adipose matrix loaded with basic fibroblast growth factor	2016	Plastic and Reconstructive Surgery
50	Zhu Q., Lu Q., Gao R., Cao T.	Prospect of Human Pluripotent Stem Cell-Derived Neural Crest Stem Cells in Clinical Application	2016	Stem Cells International

No.	Authors	Title	Year	Source title
51	Seneviratne C.J. , Rosa E.A.R.	Editorial: Antifungal drug discovery: New theories and new therapies	2016	Frontiers in Microbiology
52	Yap A.U.J., Pandya M., Toh W.S.	Depth of cure of contemporary bulk-fill resin-based composites	2016	Dental Materials Journal
53	Allen P.F. , Lee S., Brady P.	Clinical and subjective evaluation of implants in patients with hypodontia: A two-year observation study	2016	Clinical Oral Implants Research
54	Ohshima T., Kojima Y., Seneviratne C.J. , Maeda N.	Therapeutic application of synbiotics, a fusion of probiotics and prebiotics, and biogenics as a new concept for oral Candida infections: A mini review	2016	Frontiers in Microbiology
55	Sriram G., Natu V.P., Islam I. , Fu X., Seneviratne C.J., Tan K.S., Cao T.	Innate immune response of human embryonic stem cell-derived fibroblasts and mesenchymal stem cells to periodontopathogens	2016	Stem Cells International
56	Movahednia M.M., Kidwai F.K. , Jokhun D.S., Squier C.A., Toh W.S., Cao T.	Potential applications of keratinocytes derived from human embryonic stem cells	2016	Biotechnology Journal
57	Yusof Z.Y.M., Wan Hassan W.N., Razak I.A., Hashim S.M.N., Tahir M.K.A.M., Keng S.B.	Personality traits and stress levels among senior dental students: Evidence from Malaysia and Singapore	2016	Southeast Asian Journal of Tropical Medicine and Public Health
58	Li C.L., Lu W.W., Jayampath C. Seneviratne , Leung W.K., Zwahlen R.A., Wu Zheng L.	Role of periodontal disease in bisphosphonate-related osteonecrosis of the jaws in ovariectomized rats	2016	Clinical Oral Implants Research
59	Liu X., Tan G.-R. , Yu M., Cai X., Zhou Y., Ding H., Xie H., Qu F., Zhang R., Un Lam C. , Cui P., Fu B.	The effect of tumour necrosis factor- α on periodontal ligament stem cell differentiation and the related signaling pathways	2016	Current Stem Cell Research and Therapy
60	Rungarunlert S., Ferreira J.N. , Dinnyes A.	Novel bioreactor platform for scalable cardiomyogenic differentiation from pluripotent stem cell-derived embryoid bodies	2016	Methods in Molecular Biology
61	Lee D.-S., Lim M.-J., Choi Y., Rosa V. , Hong C.-U., Min K.-S.	Tooth discoloration induced by a novel mineral trioxide aggregate-based root canal sealer	2016	European Journal of Dentistry
62	Ferreira J.N. , Rungarunlert S., Urkasemsin G., Adine C. , Souza G.R.	Three-Dimensional Bioprinting Nanotechnologies towards Clinical Application of Stem Cells and Their Secretome in Salivary Gland Regeneration	2016	Stem Cells International
63	Toh W.S. , Foldager C.B., Hui J.H.P., Olsen B.R., Spector M.	Exploiting stem cell-extracellular matrix interactions for cartilage regeneration: A focus on basement membrane molecules	2016	Current Stem Cell Research and Therapy
64	Kalhan T.A., Loo E.X.L., Kalhan A.C., Kramer M.S., Karunakaran B., Un Lam C., Van Bever H., Shek L.P.C., Goh A., Chong Y.S., Lee B.W., Gluckman P., Kwek K., Saw S.M., Godfrey K., Hsu C.-Y.	Atopic dermatitis and early childhood caries: Results of the GUSTO study	2016	Journal of Allergy and Clinical Immunology
65	Lazar Adler N.R., Allwood E.M., Lucas D.D., Harrison P., Watts S., Dimitropoulos A., Treerat P., Alwis P. , Devenish R.J., Prescott M., Govan B., Adler B., Harper M., Boyce J.D.	Perturbation of the two-component signal transduction system, BprRS, results in attenuated virulence and motility defects in Burkholderia pseudomallei	2016	BMC Genomics
66	Cheng T.S., Loy S.L., Cheung Y.B., Chan J.K.Y., Tint M.T., Godfrey K.M., Gluckman P.D., Kwek K., Saw S.M., Chong Y.-S., Lee Y.S., Yap F., Lek N., Sheppard A., Chinnadurai A., Goh A.E.N., Rifkin-Graboi A., Qiu A., Biswas A., Lee B.W., Broekman B.F.P., Quah B.L., Shuter B., Chng C.K., Ngo C., Hsu S.C.-Y. , Bong C.L., Henry C.J., Chee C.Y.I., Fok D., Yeo G.S.H., Inskip H., Chen H., Van Bever H.P.S., Magiati I., Wong I.B.Y., Lau I.Y.-M., Kapur J., Richmond J.L., Holbrook J.D., Gooley J.J., Tan K.H., Niduvaje K., Singh L., Su L.L., Daniel L.M., Shek L.P.-C., Fortier M.V., Hanson M., Chong M.F.-F., Rauff M., Chua M.C., Meaney M., Teoh O.H., Wong P.C., Agarwal P., Van Dam R.M., Rebello S.A., Chong S.C., Cai S., Soh S.-E., Lim S.B., Rajadurai V.S., Stunkel W., Han W.M., Pang W.W., Goh Y.T.D., Chan Y.H.	Singaporean mothers' perception of their three-year-old child's weight status: A cross-sectional study	2016	PLoS ONE

CLINICAL SERVICES



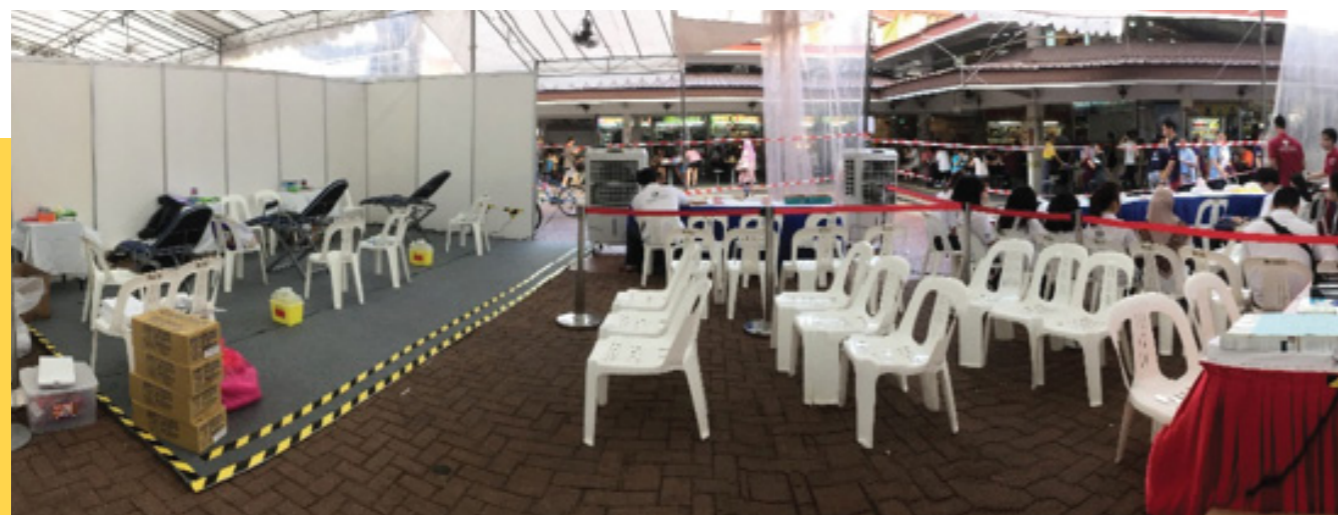
Clinical services remain a pivotal part of the mission of the Faculty. The University Dental Cluster in NUH provides a comprehensive range of specialist services to the public. It also constantly strives to explore new evidence-informed care pathways to deliver high quality dentistry.

TOTAL PATIENT ATTENDANCES JULY 2016 TO JUNE 2017



PUBLIC HEALTH SERVICE (PHS) 2016

8 - 9 OCT 2016



IT WAS A WONDERFUL OPPORTUNITY FOR THE FACULTY TO COME TOGETHER AND GIVE BACK TO THE COMMUNITY TO WHICH WE BELONG



THE PUBLIC HEALTH SERVICE IS AN ANNUAL OUTREACH INITIATIVE ORGANISED BY THE NUS MEDICAL SOCIETY. IT AIMS TO PROVIDE FREE HEALTH SCREENING AND CONSULTATION SERVICES FOR THE LOCAL RESIDENTS AGED 40 AND ABOVE.

In order to provide a comprehensive range of services, they collaborate with other healthcare related Faculties within the university. Dental students and members of the Dental Faculty worked closely with colleagues from the Yong Loo Lin School of Medicine to provide oral health screening and dental health education to the PHS 2016 participants at Clementi Central.

The first and second-year dental undergraduates ran simple games which carried a dental health message to heighten public awareness of the causes and prevention of common oral diseases such as dental caries and periodontal disease. They also helped to ensure the smooth flow of participants by taking care of the registration and crowd control. Third and final-year students conducted dental screenings for 259 participants under the supervision of Faculty staff and MDS residents. Those who required follow-up treatment were informed of a range of options they could consider for their oral health needs.

NUH ORAL HEALTH AWARENESS MONTH

THE MONTH OF AUGUST EACH YEAR MARKS THE NUH ORAL HEALTH AWARENESS MONTH. THIS YEAR, WE WERE PRIVILEGED TO HAVE OUR DENTAL SPECIALISTS SHARE THEIR INSIGHTS ON VARIOUS TOPICS ON ORAL HEALTH WITH MEMBERS OF THE PUBLIC AT THE NUH EDUCATION HUB EVERY FRIDAY IN AUGUST.

The talks received overwhelming response with participants showing keen interest in the topics presented.



Date	Speaker	Topic / Synopsis
4 Aug 2017	Dr Lim Shy Min Registrar, Orthodontics	Braces for You Dental braces have become more common these days. It has been successful in creating beautiful smiles and aligned teeth, with its associated improvement in confidence, oral health and oral function.
11 Aug 2017	Dr Hong Kanglun Associate Consultant, Oral Maxillofacial Surgery	Common Oral Infections Infections in the mouth may be related to teeth, gums, mucosa or jaw bone. These infections may be associated with bacteria, fungal or viral causes. Increased awareness promotes earlier detection and improved clinical outcomes.
18 Aug 2017	Dr Tan Mei Na Registrar, Prosthodontics	Dental Implant – Is it Always the Best Solution? The use of dental implants to replace missing teeth has become a popular and predictable treatment modality. However, are dental implants always the best option to replace missing teeth?
25 Aug 2017	Dr Jacinta Lu Associate Consultant, Periodontics	From Bleeding Gums to Shaky Teeth – What Are Your Teeth Trying to Tell You? Bleeding and swollen gums? Crooked and Shaky teeth? Bad breath? Here's what they signal – gum disease. Gum disease affects more than half of the population and is one of the most common causes as to why people lose their teeth.

ENGAGING OUR ALUMNI



DENTISTRY CLASS OF '77 REUNION IN PHUKET



WE HAD AN AWESOME 39TH YEAR REUNION WHICH WAS HELD AT THE BEAUTIFUL TURQUOISE VILLA, RAWAI, PHUKET FROM 28 TO 31 OCTOBER 2016. 16 ALUMNI MEMBERS FLEW IN FROM LONDON, SYDNEY, MELBOURNE AND SINGAPORE.

DAY 1

We arrived at the Phuket airport. Thanks to the excellent organisation by Chua Ee Kiam (EK), all but two of us (who were delayed by flights) were on time. What a riotous meeting! The years rolled back and we picked up exactly where we left off 39 years ago. We were whisked away to an idyllic restaurant overlooking the sea and ships where we stuffed ourselves with an exotic array of spicy Thai food. Chilli became our new mantra.

The villa had an infinity pool with a breathtaking view of the ocean and Rawai Beach, which lies on the southeast coast of Phuket. A cooking demonstration was held in the evening and we got to learn the secrets of lemongrass, *galangal*, *limau purut* and the different chillies in Thai cooking. Just as everyone was recovering from lunch, we were told that a barbeque pig was on the menu for dinner. We took turns at the spit as 'master chefs', serving meat and crackling that were cooked to perfection.

“
**THE YEARS ROLLED
BACK AND WE PICKED
UP EXACTLY WHERE
WE LEFT OFF
39 YEARS AGO**
”

After dinner we took a trip down memory lane as we were treated to a wonderful slideshow, courtesy of EK, of our student years, past reunions and an update of everyone's families. If only we had revision tutorials like this before! As members were uploading pictures and comments to the class chat, we were able to share the spontaneity, fun and laughter with those who were not present.



DAY 2

We moved out at 7am sharp to sail the high seas, regardless of the jetlag and booze from the night before. At the jetty, we donned the life jackets and confronted our worst fears. The two-hour trip was very rough, but there was nothing like shared suffering (seasickness) to strengthen the bonds of our friendship. At the end of the journey we felt an immense sense of accomplishment and adrenaline rush.

Kockrock Island was as exciting as its name. It had something for everyone – pristine beaches for sunbathing and swimming; clear waters for snorkelling; and dense tropical forest for the nature lovers. After a sumptuous picnic lunch, we headed to another island for more picture-taking before going to Koh Hae (loosely translated to five beautiful rocks arising from the sea) for more snorkelling. The waters were crystal clear and the corals were spectacular. Lulled by the beauty of our surroundings and exhausted from the day's activities, we headed back to the jetty. Seasoned sailors by now, most of us fell asleep in upright position during the journey back.

Once we got back, there was no time for rest. Energised by friendship and camaraderie, a change of clothes and we were off to a hilltop restaurant for dinner before attending the cultural show put up for us at Fantasea. I had never seen so many elephants (16 to be exact) performing at one go. Even the chickens had attitude. Needless to say, the talented Thai dancers were gorgeous.

DAY 3

Free and easy was our order for the day. We made our own breakfast and unlike what most would say, too many cooks did not spoil our soup. We also managed to spend some time at the pool before heading to town for some sightseeing. Our first stop was to the Big Buddha statue which was located on a very steep hill. On hindsight, it would have been easier if we had visited it on the first day when all of us were a few kilos lighter. Nevertheless the statue was very impressive and the view was spectacular.

Thereafter, we got back to town for a light lunch and a walk around the old town. EK and Seto took umpteen shots during the walk. The ladies felt like models on the runway. We got back to the villa to relax, swim and had a massage, while a few even managed to visit the night market before all of us returned to gather for the grand farewell dinner prepared by the villa's resident chef. During the dinner we were happy to receive door gifts from the University Alumni, as well as Mama and Baby Chang from EK.

We were very happy and grateful to have had a wonderful weekend with so many of our classmates. We are a diverse group that had remained cohesive because of the bonds forged during our varsity days. The laughter and genuine friendship extended by everyone was truly amazing.

The resounding success of the reunion for dental class of '77 was due in no small measure to the generosity and selfless efforts of EK and his team of Nah Nah, Sor Kheng and Amy.

THE 15TH YEAR REUNION OF THE CLASS OF '02



HERE'S TO THE CLASS OF '02 AND ANOTHER 15 MORE YEARS!



THE CLASS OF '02 MET IN JULY 1998, WHEN THE SONG "THE BOY IS MINE" WAS THE TOP HIT ON RADIO AND THE MOVIE ARMAGEDDON STOLE OUR HEARTS AND MADE US NOT WANNA CLOSE OUR EYES. LIKE EVERY FAMILY, THE CLASS HAD THEIR DIFFICULTIES. FROM SCREAMING MATCHES IN THE PLASTER ROOM TO COLD WARS BETWEEN PARTNERS, THE RELATIONSHIPS WERE ROCKY AT TIMES.

However, time does heal all pains and we realised that the relationships that were forged in the crucible, that is the dental school, are the ones that you will want to keep. For our 15th year reunion, the forever class mascot Andy brought most of the class together for a wonderful night of food and fellowship.

LIME at Parkroyal was the scene and what a night it was. The kids were left at home and the kids-at-heart came out to play. It was wonderful to catch up and re-live the antics that got us into trouble so many years ago.



DONATIONS RECEIVED

APR 2016 - JUN 2017

\$50,000 AND ABOVE

Midland Metals Overseas Pte Ltd
Sunstar Singapore Pte Ltd
Tote Board

\$10,000 - \$49,999

Ace Star Dental Services Pte Ltd
Kaan Sheung Kin
Kain Orthodontics Pte Ltd
Ko Djeng Dental Centre Pte Ltd
Kong Ming Leong, Nicholas
Lee Foundation
Lim Ming Hui, Andrew
Loh Kai Woh
Neo Tee Khin
OMP Alliance Pte Ltd
Ong Hui Lian, Grace
PB Tankers Ltd
Singapore Dental Association
Tan Chorh Chuan
Tan Kim Poon
Wong Ngjit Liong

\$1,000 - \$9,999

Allen Patrick Finbarr
Carl Zeiss Pte Ltd
Chan Chuan Chye, John
Chan Siew Luen
Chan Wat Kum, Jennifer
Chee Sang Dental Supply Pte Ltd
Cheng Eng Wah
Chew Chong Lin
Chng Chai Kiat
Chong Chi Tat
Chong Kai Chuan
Chong Yea Hwe
City Dental Private Limited
Citystate Capital Asia Pte Ltd
College of General Dental Practitioners (Singapore)
Deloitte & Touche LLP
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Eu Oy Chu
Foong Weng Chiong, Kelvin
Gan Chong Huey
Go Wee Ser
Goh Giang Beng
Goh Lin Ai, Janice
Goh Yew Lin
Ho Kee Hai
Holywell Foundation Limited
Hong Hsu Ling, Catherine
Hsu Chin Ying, Stephen
Hu Shijia
Huang Shiming
Kaung Myat Win
Keng Siong Beng
Kinetica Pte Ltd
Koelnmesse Pte Ltd
Koh Shuh Jen
Koh Wei Kee
Kuok Oon Kwong, Kay
L C Lien Dental Clinic Pte Ltd
Lee Ai Ling
Lee Eng Hin
Lee Hin Peng
Lee Huey Jee, Jenny
Lee Kwee Jin
Lee Ming San
Lee Ping, Geraldine
Lee Wei Boon, David
Lee Woon Oi, Teresa
Leung Wing Hung, Dominic
Lim Ah Tong, Asher
Lim Ching Chiat
Lim Kian Chong, Gerald
Lim Sor Kheng
Lim Yow Long, Raymond
Lo Tong Soon
Loh Poey Ling
Low Suat Tin, Joni
Lye Lin Heng, Irene
Ma Kah Woh, Paul
Mak Keat Meng
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Mok Yuen Pun, Clara
Mok Yuen Yue, Betty
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Neo Chiew Lian, Jennifer
Ng Bee Lang

Ng Fook Chin
Ng Jiak See
Ng Wai King
nTan Corporate Advisory Pte Ltd
NUS America Foundation, Inc
Obayashi Singapore Private Limited
Ong Boon Kwee, Peter
Palm Beach Seafood Restaurant Pte Ltd
Pharmaforte Singapore Pte Ltd
Phay Yew Ming
Phoenix Investors Pte Ltd
PricewaterhouseCoopers LLP
PSA Corporation Limited
Q & M Dental Group (Singapore) Limited
Quake Tiang Chye, Matthias
Seow Kim Bock, Jeffrey
Shofu Dental Asia-Pacific Pte Ltd
Siddhartha Centre
Siew Man Kok
Sim Peng Chuan, Timothy
Soh Yi-Wei, George
Sunny Dental Medical Supply Pte Ltd
Tan Beng Choon, Keson
Tan Choo Leng
Tan Eng Chye
Tan Eng Seong, Phillip
Tan Hwee Hiang
Tan Kai Soo
Tan Kwang Hwee
Tan Min Seet, Michael
Tan Sai Tiang
Tan Soo Guan
Tan Tee How
Tan Ter Shian
Tan Thiam Chye
Tan Thong Kwan, Benjamin
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Tay Seng Kong, Louis
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The Endodontic Practice Pte Ltd
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Tong Huei Jinn
Tseng Seng Kwong, Patrick
Wong Eu-Li, John

Wong Mun Loke
Wong Peng Cheang
Yang Tse Pin
Yap Kin Wai
Yeo Hung Sin

\$500 - \$999

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Alison Roberts
Ang Hooi Kia, Angeline
Asia Implant Support & Services
Bachmann Japanese Restaurant Pte Ltd
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Chan Axel
Chan Toong Sing
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Chow Kit Lin, Bernice
Chow Weng Fatt
Chua Ru Hong
Chua Sheng Da, Jason
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Fung Edi
Garry Ecker
Gn Soon Lay
Goh Tarn Peng
Guay Peiru, Melissa
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Ho Yoke Peng
Hwang Yee Cheau
Isnatara Abidin
Jack Kwong Trading
Ku Hwee Choo
Kuek Yit Liang
Kuo Yew Ting
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Lee Tong Lynn
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Teo Eng Sipp, Leslie
Thean Tsin Piao
TLC Dental Centre
Uy Joanne Ngo
Vertex-Dental Asia Pte Ltd
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Wong Lup Wai
Wong Shaun Yang
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Yeo Jin Fei
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Yue Weng Cheu
Yuen Kwong Wing
Zanelle Vorster

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Choo Keang Hai
Chook Pei Fen
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Chua Yi-You
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Lau Wen Jian, Matthew
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Tan Hui Xian, Melissa
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Thong Tony
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Wee Chong Yaw, Benjamin
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Yao Ying, Evelyn
Yap Juin Yui, Jeanette
Yeo See Chong, Gerald
Yeo Woon Chee
Yeo Yong Yan
Yip Wei Luen, James

STAFF DEVELOPMENT



The Faculty values all its staff and believes in developing everyone to their fullest potential. It also believes in building a collaborative culture to achieve the Faculty's vision and mission.

STAFF STRENGTH

Designation	Headcount		
	AY16/17	AY15/16	AY14/15
Professor	4	3	2
Associate Professor	11	12	9
Assistant Professor	14	13	17
Senior Lecturer	3	3	3
Senior Tutor	1	1	0
Instructor	5	5	6
Adjunct Staff	57	60	59
Research Staff	7	9	10
Executive & Professional Staff	18	14	12
Laboratory Technician / Operations	28	30	25
Associate / Specialist Associate			
Management Assistant Officer	14	12	13



ANNUAL TEACHING EXCELLENCE AWARD

THE FACULTY WOULD LIKE TO CONGRATULATE DR INTEKHAB ISLAM FOR WINNING THE NUS ANNUAL TEACHING EXCELLENCE AWARD

The Award recognises faculty members who have displayed a high level of commitment in their teaching. Dr Intek has been awarded multiple teaching awards at the Faculty level. It is truly encouraging that he is recognised at the University level.

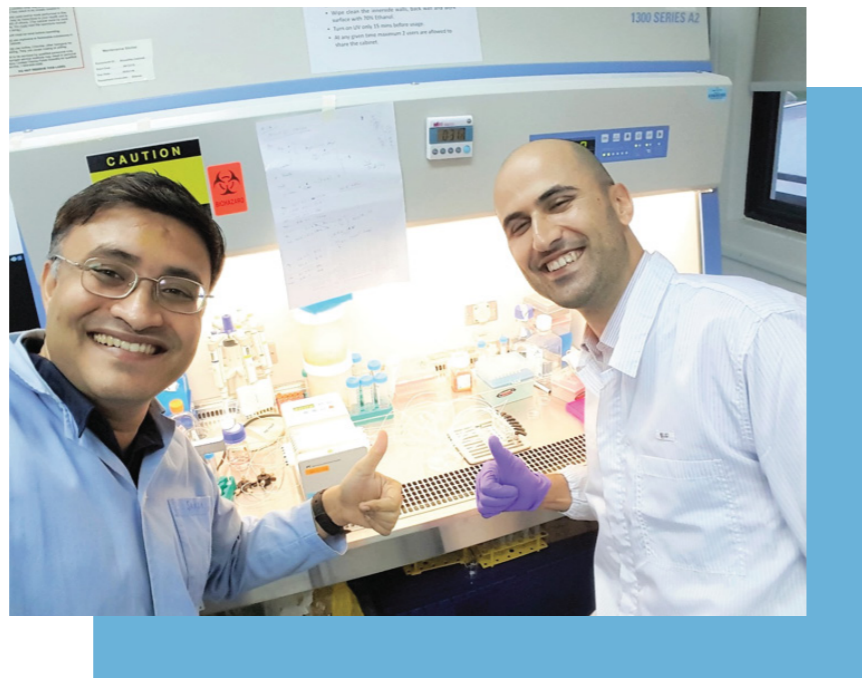


RETURNING SCHOLARS

DR GOPU SRIRAM

ASSISTANT PROFESSOR (ORAL SCIENCES)

I remember my first day in Singapore way back in January 2010 for registration into PhD at NUS, with the awesome hospitality of a complimentary upgrade to business class at Singapore Airlines. My research journey in Singapore over the past seven years has been filled with steep learning curves and wonderful interactions with researchers across different fields. I love the interdisciplinary nature of stem cell research and the potential to create human tissues in the laboratory. It is extremely delightful to work with cross-disciplinary researchers using state-of-the-art technologies such as microfluidic devices, 3D-printing and next generation imaging tools to answer scientific queries. My vision is to develop next generation tools to understand the role of angiogenesis and matrix dynamics in oral mucosal regeneration, ageing and cancer metastasis. I also look forward to inculcating the passion for research in the undergraduate and postgraduate students in Dentistry.



DR SOH SHEAN HAN

DENTAL INSTRUCTOR, REGISTRAR
(ORTHODONTICS AND PAEDIATRIC DENTISTRY)

I was always fascinated with how orthodontics embodies the complementary roles between science and art, in enhancing one's oral health and self-esteem. Receiving my residency training in the Department of Orthodontics at the University of Washington was an enriching experience. I was privileged to learn from a teaching faculty with diverse backgrounds, who gave me a very broad perspective of Orthodontic care modalities. I wish to utilise my training in providing quality orthodontic treatment to patients and contributing to the education of new generations of dental care providers in Singapore. I also intend to share my perspectives, skills and knowledge with fellow clinicians, both within and beyond the specialty of Orthodontics.

DR LIM LI ZHEN

DENTAL INSTRUCTOR, REGISTRAR
(ORAL & MAXILLOFACIAL SURGERY)

I still remember the day that I received my acceptance letter from the University of North Carolina at Chapel Hill, where I was admitted into their Masters programme for Oral and Maxillofacial Radiology. I was filled with equal parts excitement and trepidation, almost feeling like I was heading off into the unknown. However, I steeled myself, got on a plane and left Singapore. Three years on, I have not looked back on my academic journey with any regrets. My odyssey into Oral and Maxillofacial Radiology has been an eye-opening experience. During residency, we had a good mix of teaching, clinical exposure to oral and maxillofacial imaging modalities, and research. I especially enjoyed interacting with different specialties and helping them to answer their diagnostic questions. One special memory I have was witnessing a CBCT unit being assembled at my school. It is exciting being in a field where emerging technologies continuously evolve, and I look forward to seeing where this journey continues to take me.



DR TAN MING YI

DENTAL INSTRUCTOR, REGISTRAR
(ENDODONTICS, OPERATIVE DENTISTRY & PROSTHODONTICS)



At 8am one morning in June 2012, two friends and I huddled silently at a hostel lobby. Entering passwords for 'ISIS' (NUS' Integrated Student Information System) on smaller-sized phone screens of that era was a feat for trembling fingers. We had, most courageously, booked our graduation trip before confirmation of our graduation. The pages finally loaded, we checked each other's expressions and then collectively heaved a huge sigh of relief, Swiss mountain air filling those lungs that were temporarily forgotten. Each of us thought, "I'm out of dental school and never going back!" Fast forward two years, I found myself in front of Professor Chew Chong Lin, Associate Professor Keson Tan and Associate Professor Teoh Khim Hean, trying to convince them to take me back into dental school. Dentistry has been humbling, and the realisation of its complexity was the first step towards further education. I believe this learning journey will continue throughout my career.

STAFF DEVELOPMENT

NUS LONG SERVICE AWARDS

S/N	Name	NUS Job Position	Year
1	Mr Vellasamy s/o Muniandy	Specialist Associate	40
2	Mrs Lee Yue Peng	Discipline Management Assistant Officer	35
3	A/P Neo Chiew Lian, Jennifer	Discipline Director (Endodontics, Operative Dentistry & Prosthodontics)	35
4	A/P Ong Hui Lian, Grace	Associate Professor	35
5	Mr Tan Thoo Chai Richard	Laboratory Technician	35
6	A/P Foong Weng Chiong Kelvin	Discipline Director (Orthodontics & Paediatric Dentistry)	25
7	A/P Cao Tong	Vice Dean (Research)	15
8	Ms Chiang Im-Ping Perina	Senior Manager, Education	15
9	Ms Ong Lay Hoon Jane	Management Assistant Officer	15
10	Ms Ow Yong Oi	Deputy Director (Finance & Development)	10
11	Dr Tan Kai Soo	Assistant Professor	5
12	Mr Mok Yuen Pun, Clara	Senior Lecturer	5
13	Ms Ng Siew Hua	Management Assistant Officer	5
14	Ms Boh Siew Thang	Lead Radiographer	5

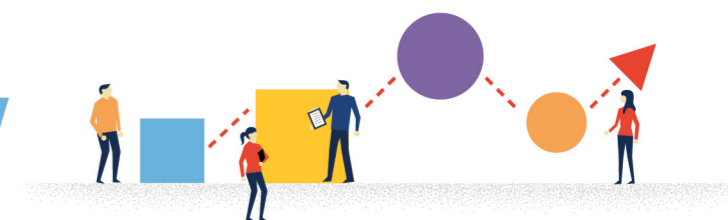
NATIONAL DAY AWARDS 2016 (NUS & NUH)

S/N	Award Recipient	Job Position
1	A/P Neo Chiew Lian, Jennifer	Discipline Director (Endodontics, Operative Dentistry & Prosthodontics)
2	A/P Tan Beng Choon, Keson	Associate Professor
3	Mdm Ek Ben Lai	Management Assistant Officer
4	Late Mdm Tan Geok Khim, Christine	Management Assistant Officer
5	Mdm Valliamah d/o K Thangavelu	Operations Associate
6	Miss Kou Keat Ing	Laboratory Technologist
7	Miss Ng Chor Eng	Laboratory Technologist
8	Mr Ang Biang Soon	Laboratory Technologist
9	Mr Lim Eng Chuan	Laboratory Technologist
10	Mr Mohd Khair Bin Abu Yamin	Laboratory Technologist
11	Mr Rosli Bin Ramlan	Technical Officer, University Dental Centre
12	Mr Tan Thoo Chai Richard	Laboratory Technologist
13	Mrs Ng-Tan Sok Lan	Laboratory Technologist
14	Ms Rohana Bte Jaafar	Clinic Supervisor, University Dental Centre

PROMOTIONS

S/N	Name	New Job Title	With Effect From
1	A/P Wong Mun Loke	Associate Professor	1 July 2016
2	Dr Clara Mok	Senior Consultant	1 July 2016
3	Dr Tong Huei Jinn	Consultant	1 July 2016
4	Dr John Loh	Consultant	1 July 2016
5	Dr Jacinta Lu	Senior Registrar	1 July 2016
6	Dr Hu Shijia	Assistant Professor & Registrar	1 July 2016
7	Dr Lim Shy Min	Assistant Professor & Registrar	1 July 2016
8	Dr Ode Wataru	Assistant Professor & Registrar	1 July 2016
9	Dr Wilson Lu	Assistant Professor & Registrar	1 July 2016
10	Ms Sharon Lim Tzer Ai	Senior Manager	1 July 2016
11	Ms Ong Choon Hong	Clinic Executive	1 July 2016
12	Ms Rashida Bte Mohamed Noor	Clinic Executive	1 July 2016
13	Ms Goh Lee Hoon	Clinic Supervisor	1 July 2016
14	Ms Goh Shi Ni	Dental Surgery Assistant	1 July 2016
15	Ms Ling Xiu Ting	Dental Surgery Assistant	1 July 2016
16	Ms Hemamalini d/o Ramachandran	Patient Service Associate	1 July 2016
17	Dr Hong Kanglun	Associate Consultant	1 January 2017
18	Dr Sim Chien Joo	Associate Consultant	1 January 2017
19	Dr Rashid Tahir	Adjunct Senior Lecturer	1 January 2017
20	Ms Gina Ng Siew Hua	Management Assistant Officer	1 January 2017
21	Ms Ally Chan	Management Assistant Officer	1 January 2017

LISTING OF PART-TIME FACULTY



ADJUNCT STAFF

S/N	Discipline	Name	Appointment
1	Endodontics, Operative Dentistry & Prosthodontics	A/P Ansgar Cheng Chi Chung	Adjunct Associate Professor
2		A/P Lim Kian Chong, Gerald	Adjunct Associate Professor
3		A/P Loh Poey Ling	Adjunct Associate Professor
4		Dr Cheong Kim Yan	Adjunct Senior Lecturer
5		Dr Goh Kwee Chien, Benny	Adjunct Senior Lecturer
6		Dr Lee Chee Wee	Adjunct Senior Lecturer
7		Dr Lee Hoon Hwee	Adjunct Senior Lecturer
8		Dr Lee Siew King Terence	Adjunct Senior Lecturer
9		Dr Leung Wing Hung, Dominic	Adjunct Senior Lecturer
10		Dr Lim Ching Chiat	Adjunct Senior Lecturer
11		Dr Lim Gim Teck	Adjunct Senior Lecturer
12		Dr Lim, Michael	Adjunct Senior Lecturer
13		Dr Liu Hao Hsing	Adjunct Senior Lecturer
14		Dr Loganathan Vijayan	Adjunct Senior Lecturer
15		Dr Neo Tee Khin	Adjunct Senior Lecturer
16		Dr Ong Eng Yau, Timothy	Adjunct Senior Lecturer
17		Dr Pang Soon Eng	Adjunct Senior Lecturer
18		Dr Phay Yew Ming	Adjunct Senior Lecturer
19		Dr Shahul Hameed	Adjunct Senior Lecturer
20		Dr Teh Kiat Seong	Adjunct Senior Lecturer
21		Dr Wong Keng Mun	Adjunct Senior Lecturer
22		Dr Wong Soon May, Adeline	Adjunct Senior Lecturer
23		Dr Yap Yi Roon, Ronnie	Adjunct Senior Lecturer
24		Dr Chin Yee Fatt	Adjunct Lecturer
25		Dr Chng Huey Shin	Adjunct Lecturer
26		Dr Chong, Isaac	Adjunct Lecturer
27		Dr Leong Woei Jian, Elvin	Adjunct Lecturer
28		Dr Lim Eng Yong, Jerry	Adjunct Lecturer
29		Dr Lim Sze Kheng	Adjunct Lecturer
30		Dr Lim Toh Seong Andy	Adjunct Lecturer
31		Dr Ong Kheng Kok	Adjunct Lecturer
32		Dr Ong Teng Sin	Adjunct Lecturer
33		Dr Thean Tsin Piao	Adjunct Lecturer
34	Oral Sciences	A/P Lee Woon Oi, Teresa	Adjunct Associate Professor
35	Oral & Maxillofacial Surgery	A/P Elliott, Myra nee Lin Wen Jui	Adjunct Associate Professor
36		A/P Go Wee Ser	Adjunct Associate Professor
37		A/P Loh Fun Chee	Adjunct Associate Professor
38		Dr Chan Siew Luen	Adjunct Senior Lecturer
39		Dr Lee Kim Chuan, Lewis	Adjunct Senior Lecturer
40		Dr Robinson Narendran Andrew	Adjunct Senior Lecturer
41	Orthodontics and Paediatric Dentistry	Dr Mohamed Azharashid Bin Mohamed Tahir	Adjunct Associate Professor
42		Dr Hwang Yee Cheau	Adjunct Senior Lecturer
43		Dr Kaan Sheung Kin	Adjunct Senior Lecturer
44		Dr Koh Chay Hui	Adjunct Senior Lecturer
45		Dr Lim Chong Yang, Arthur	Adjunct Senior Lecturer

S/N	Discipline	Name	Appointment
46	Orthodontics and	Dr Ong Hoe Boon	Adjunct Senior Lecturer
47	Paediatric Dentistry	Dr Tan Hwee Hiang	Adjunct Senior Lecturer
48		Dr Tan Tzee Jen	Adjunct Senior Lecturer
49		Dr Ching Siew May, Eileen	Adjunct Lecturer
50	Periodontics	A/P Chung Kong Mun	Adjunct Associate Professor
51		Dr Ang Chee Wan	Adjunct Senior Lecturer
52		Dr Henry Kwek Swee Nguang	Adjunct Senior Lecturer
53		Dr Lee Kwee Jin	Adjunct Senior Lecturer
54		Dr Madeliene Rathi Gunaratnam	Adjunct Senior Lecturer
55		Dr Marlene Teo	Adjunct Senior Lecturer
56		Dr Tan Thong Kwan, Benjamin	Adjunct Senior Lecturer
57		Dr Tay Lai Hock Alphonsus	Adjunct Senior Lecturer
58		Dr Lee Hui Jing Helena	Adjunct Lecturer
59			

CLINICAL FACULTY SCHEME STAFF

S/N	Company	Discipline	Name	Appointment
1	Jurong Health Services	Endodontics, Operative Dentistry & Prosthodontics	Cl. A/P Adrian Yap U-Jin	Clinical Associate Professor
2			Dr Clarisse Ng	Clinical Lecturer
3		Oral & Maxillofacial Surgery	Dr Bertrand Chew Shen Hui	Clinical Lecturer
4		Periodontics	Dr Wong Li Beng	Clinical Lecturer
5	KK Women's & Children's Hospital	Orthodontics and Paediatric Dentistry	Dr Chng Chai Kiat	Clinical Lecturer
6	National Dental Centre Singapore	Endodontics, Operative Dentistry & Prosthodontics	Cl. A/P Chen Nah Nah	Clinical Associate Professor
7			Cl. A/P Christina Sim Poh Choo	Clinical Associate Professor
8			Cl. A/P Chua Ee Kiam	Clinical Associate Professor
9			Cl. A/P Teoh Khim Hean	Clinical Associate Professor
10			Dr Chee Hoe Kit	Clinical Senior Lecturer
11			Dr Ken Tan	Clinical Senior Lecturer
12			Dr Lim Sor Kheng	Clinical Senior Lecturer
13			Dr Lui Jeen Nee	Clinical Senior Lecturer
14			Dr Quek Heng Chuan	Clinical Senior Lecturer
15			Dr See Toh Yoong Liang	Clinical Lecturer
16		Oral & Maxillofacial Surgery	Cl. A/P Goh Bee Tin	Clinical Associate Professor
17			Cl. A/P Kwa Chong Teck	Clinical Associate Professor
18			Cl. A/P Poon Choy Yoke	Clinical Associate Professor
19			Cl. A/P Raymond Peck Hong Lian	Clinical Associate Professor
20			Cl. A/P Tay Ban Guan, Andrew	Clinical Associate Professor
21			Cl. A/P Teh Luan Yook	Clinical Associate Professor
22			Dr Tan Ben Poon, Danny	Clinical Senior Lecturer
23			Dr Chelsia Sim Qiuxia	Clinical Lecturer
24			Dr Lai Juen Bin	Clinical Lecturer
25			Dr Lim Tian Wei	Clinical Lecturer
26			Dr Natthareen Chanchareonsoo	Clinical Lecturer
27			Dr Rahul Harshad Nagadia	Clinical Lecturer
28			Dr Soong Poh Luon	Clinical Lecturer
29		Orthodontics and Paediatric Dentistry	Cl. A/P Chew Ming Tak	Clinical Associate Professor
30			Cl. A/P Mimi Yow	Clinical Associate Professor
31			Dr Choo Johanna	Clinical Senior Lecturer
32			Dr Lim Kuen Fui, Ivan	Clinical Senior Lecturer
33			Dr Rosalind Wong Yoke Cheng	Clinical Senior Lecturer
34			Dr Lai Wen Pui Bien	Clinical Lecturer
35			Dr Md Badrun Nafis Bin Salon	Clinical Lecturer
36			Dr Tan Li Yen Elaine	Clinical Lecturer
37		Periodontics	Cl. A/P Marianne Ong Meng Ann	Clinical Associate Professor
38			Dr Koh Chu Guan	Clinical Senior Lecturer
39			Dr Tan Ching Ching	Clinical Senior Lecturer
40	National Healthcare Group Polyclinics	Endodontics, Operative Dentistry & Prosthodontics	Dr Low Meng Tze Kenneth	Clinical Senior Lecturer
41	Tan Tock Seng Hospital	Orthodontics and Paediatric Dentistry	Dr Tan Hui Ling, Vivien	Clinical Senior Lecturer

PART-TIME TEACHING STAFF

S/N	Discipline	Name
1	Dean's Office	Dr Asha Karunakaran
2		Dr Chong Tse Feng Gabriel
3		Ms Ho Koon Chyn, Florence
4		Ms Kuah Boon Theng
5		Dr Loh Kai Woh, Ronald
6		Dr Tan Peng Hui
7		Dr Tay Khoon Mei
8	Endodontics, Operative Dentistry & Prosthodontics	Dr Ang Ee Choon Richard
9		Dr Basanti Sankaran
10		Dr Bruce Lee Chi Hong
11		Dr Chong Yea Hwe
12		Dr Choo Keang Hai
13		Dr Goh Tarn Peng
14		Dr Juliana Tereza Colpani
15		Dr Justina Ung
16		Dr Khng Kwang Yong Kelvin
17		Dr Li Shan Shan Angela
18		Dr Long Benjamin Charles
19		Dr Marrwa Ibrahim Abdelhamed Ibrahim
20		Dr Mccully Leroy Edgar
21		Dr Ng Ming Chan
22		Dr Richard Ow Kok Keng
23		Dr Sherine Yang Shi Lin
24		Dr Sim Peng Chuan, Timothy
25		Dr Simon Ng Dih Hann
26		Dr Sng Hong Cheong, Jeffrey
27		Dr Steven Soo
28		Dr Tan Lisa
29		Dr Tan Tiat Heng, Edwin
30		Dr Tan Ying Han
31		Dr Tay Li Chye
32		Dr Teo Juin Wei
33		Dr Terence Jee Shizhuan
34		Dr Unadkat Hemant Vijaykumar
35		Dr Willy Chang Shian Wei
36		Dr Winston Tan Kwong Shen
37	Oral & Maxillofacial Surgery	Dr Aidan Yeo Choon Poh
38		Dr Henry KL Ho
39		Dr Ho Kok Sen
40		Dr Lye Kok Weng
41		Dr Sng Kong Chee
42		Dr Tan Min Seet
43		Dr Vijaya Kumar A/L Ramulu
44		Dr Wee Tze Haur
45	Orthodontics & Paediatric Dentistry	Dr Bryce Lee Pheng Hean
46		Dr Eugene Wee Chun Kheng
47		Dr Geraldine Oh Sin Yin
48		Dr Loh Eu-Min Eugene Lester
49		Dr Teh Yi Mui, Marina
50		Dr Natalia Yip Pei Wen
51		Dr Neo Bijuan
52		Dr Ng Jing Jing
53		Dr Poon Kah Chai
54		Dr Sham Pui Yin Enrica
55		Dr Sylvia Tan
56		Dr Terry Teo Kuo-Yih
57		Dr Woo Mei Yee
58		Dr Lee Ping Geraldine
59	Periodontics	Dr Bai Shuren Adrian
60		Dr Hoang Tram Ngoc
61		Dr Leong Jack Min Daylene
62		Dr Maung Than Zaw Oo
63		Dr Ng Cher Hui Mervyn
64		Dr Tan Wah Ching
65		Dr Yap Kin Wai
66		Dr Yeo Boon Keng Alvin



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