

# Faculty of Dentistry

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**WE ARE**

moving to the next lap

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## VISION

To be a dental institution of international distinction

## MISSION

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

A photograph of a modern glass building with a canopy over the entrance. The word "DENTISTRY" is written in large, white, 3D block letters on the canopy. The building's glass reflects the surrounding trees and sky. A dark blue diagonal graphic element is overlaid on the top left of the image.

# DENTISTRY

# Dean's Message

2014 is a special year – from being a department within the King Edward 7<sup>th</sup> College of Medicine Building at Outram to becoming a full-fledged university faculty in 1966, moving from the Outram campus to Lower Kent Ridge Road – this journey of the Faculty of Dentistry has taken 85 years. The NUS Faculty of Dentistry has much to be proud of as well as plenty to be thankful for, in its academic journey over these past eight and a half decades.

Alumni, students, staff and friends of the Faculty have contributed to making the Faculty a place of learning, discovery and meaningful employment. All have helped to raise the Faculty to the standing that it enjoys today. Our achievements are possible, because our core foundation is talented people and good teams who make our progress possible.

This year we hosted the International Advisory Panel (IAP). The IAP affirmed the Faculty's strength in teaching and our growing clinical reputation. The Faculty will need to develop our research and mentor our new scientists and young clinician scholars.

The Faculty will work at growing our research and continue to seek innovative ways to engage our students in learning. A significant success factor for the Faculty is the good support from our alumni, professional bodies and industry.



FACULTY OF DENTISTRY  
11 LOWER KENT RIDGE ROAD

# Deanery



**Dr Wong Mun Loke**  
Assistant Dean  
(Education)

**A/P Asher Lim**  
Vice Dean (Clinical  
Affairs) / Clinical Director  
University Dental Cluster, NUHS

**A/P Grace Ong**  
Dean / Chair,  
University Dental Cluster, NUHS

**A/P Kelvin Foong**  
Vice Dean  
(Academic Affairs)

**A/P Cao Tong**  
Vice Dean  
(Research)

# Board Members



*Standing, from Left to Right*

**Dr Wong Mun Loke**  
Assistant Dean  
(Education)

**A/P Asher Lim**  
Vice Dean (Clinical Affairs) /  
Clinical Director, University  
Dental Cluster, NUHS &  
Discipline Director, Oral and  
Maxillofacial Surgery

**A/P Kelvin Foong**  
Vice Dean (Academic  
Affairs) & Discipline Director,  
Orthodontics & Paediatric  
Dentistry

**A/P Cao Tong**  
Vice Dean (Research) &  
Discipline Director, Oral  
Sciences

*Seated, from Left to Right*

**A/P Lim Lum Peng**  
Discipline Director,  
Periodontics

**A/P Grace Ong**  
Dean / Chair,  
University Dental  
Cluster, NUHS

**A/P Jennifer Neo**  
Director, Division of Graduate Dental  
Studies & Discipline Director, Endodontics,  
Operative Dentistry & Prosthodontics

**WE ARE**  
Nurturing the Profession



## International Advisory Panel 2014

The Faculty was honoured to have Professor William Dodge, Dean, Health Science Centre, University of Texas; Professor Dianne Rekow, Dean, Dental Institute, King's College of London; and Professor Christian Stohler,

Dean, College of Dental Medicine, Columbia University to visit as an International Advisory Panel (IAP). They made their on-campus visit from 13 to 17 October 2014.



*From Left to Right: Professor Christian Stohler, Associate Professor Grace Ong, Professor Dianne Rekow and Professor William Dodge*

The Panel was appointed to advise on the general trends in research and education. They were also requested to make recommendations for the Faculty's planning, academic governance, curriculum delivery for both undergraduate and postgraduate programmes,

research focus, student profile, external and alumni relations, as well as infrastructure.

The on-campus visit provided the Panel with first-hand insights into the Faculty's activities, opportunities and



challenges. Meetings were arranged with Faculty staff, undergraduate and postgraduate students, part-time lecturers and the Advisory Committee. Dialogues were also held with representatives from the Basic Sciences as well as the executive and professional teams. Discussions with the senior leaders of NUS and NUHS also helped the IAP members assess the congruence of the Faculty's strategy with strategic imperatives.

The Faculty shared the development plans for the new Centre for Oral Health with Professor Stohler and Professor Dodge, who were recently engaged in similar facilities in their dental schools. Both professors shared valuable insights and offered useful guidance to help the Faculty shape the design of the new centre to support the education, research and clinical services of the future.



*Professor William Dodge operating the haptic simulator in the Simulation Laboratory with second-year student Sandra Chen*

The IAP provided a valuable assessment of the Faculty's strengths and weaknesses as well as its threats and opportunities. Each IAP recommendation will be carefully

considered and responded to, ensuring that the Faculty realises its vision of becoming a 'dental institution of international distinction'.

**“ Many critical elements exist for achieving international eminence. These include an energetic and bright faculty, strong leadership, outstanding newly hired clinical scholars and researchers, excellent clinical reputation, the prospect of moving to a new state-of-the-art facility, strong part-time faculty, supportive alumni, and alignment of NUS research themes . . . ”**

*International Advisory Panel*

**WE ARE****Fostering Independent Learning with Educational Technology**

We live in a fast-changing world where new knowledge is developing, evolving and disseminating rapidly every day. This underscores the need to nurture a spirit of independent learning and discovery among our students to ensure that they can adapt to this knowledge-based

economy. Over the last year, the Faculty has leveraged technology and explored innovative ways of inculcating this independent self-discovery through the pre-clinical curriculum of the Bachelor of Dental Surgery (BDS) programme.

**Honing Operative Dentistry Skills with the Haptic Simulator**

Sitting behind the patient simulator and cutting tooth preparations are familiar scenarios for many dentists and dental students. Beyond the conventional use of ivory and extracted teeth to train students to remove dental caries and prepare teeth for different filling materials, the Faculty recently introduced the haptic simulator as part of the Pre-clinical Operative Dentistry technique course. This simulator combines virtual reality and haptic technology to help students hone their hand-eye-brain co-ordination as well as spatial visualisation skills in operative dentistry. It provides the user with differentiated resistance through enamel, dentine and

pulp closely mimicking how the dental drill progresses through a natural tooth. Sandra Chen, a second-year dental student, shared that “the simulator provides a realistic feel of the texture and hardness of actual tooth structure which the plastic model does not.”

Students can look forward to receiving feedback on their cavity preparations from the simulator, allowing them to improve their skills. This new technology certainly supports the students’ pursuit of on-demand independent learning.

**“ It is a useful complement to working with ivory teeth as it enhances understanding of the tactile sensations of working with a real tooth. ”**

*Sandra Chen,  
second-year dental student*



*Student trying out the haptic simulator*

## Moving Self-Reflections and Continual Assessments Online

Dr Roxanna J Esguerra, the co-ordinator of the first-year Dental Morphology Course, is a firm believer of imbuing independent learning among her students. She introduced weekly self-assessments mounted on the NUS Integrated Virtual Learning Environment (IVLE) platform.

Following her weekly lecture, students can access these assessments and respond to 10 - 20 multiple-choice questions to help them identify possible gaps in their knowledge and seek clarifications. Such self-regulated learning encourages students to revise what had been covered that week. The end-of-term assessment comprising multiple-choice questions has also moved

to an online platform. Students who fail to achieve the minimum score are required to re-take the online assessment.

While her primary objective of the online self-assessments is to encourage mastery of domain knowledge related to Dental Morphology, she is happy that her use of technology has yielded green effects too. Previously, the hard-copy assessments would each consist of 20 printed pages. Given the larger class size of 54 students, her online assessment helps to save over 1,000 pieces of paper.



*Dr Esguerra (right) and some of her first-year students engaging in online reflections for Dental Morphology*

**“Immediate automated marking with the online assessments allow students to receive feedback early. Such online assessments provide both educators and students more tools to accomplish the intended learning outcomes.”**

*Dr Roxanna J Esguerra,  
Co-ordinator, Dental Morphology course*

# Student Enrolment



Total: 292



## NUHS-Mochtar Riady Pinnacle Awards – Outstanding Mentor Award 2015



From Left to Right: Dr Andy Adhiwana (on behalf of Dr Mochtar Riady), Minister of State for Health, Dr Lam Pin Min (Guest-of-Honour) and Dr Betty Mok

**“Together with her many contributions to dental education, this achievement is a resounding affirmation from students and colleagues of Dr Betty Mok’s standing as a mentor par excellence.”**

Dr Betty Mok was presented the NUHS-Mochtar Riady Pinnacle Awards – Outstanding Mentor Award 2015 at the NUHS Tribute Night on 22 May 2015.

The Outstanding Mentor Award recognises clinicians and academic staff who have displayed professional excellence in medical teaching and mentorship, and have contributed significantly to clinical education and nurturing of clinicians and/or clinician scientists in NUHS.

Dr Mok has a flair for teaching that endears her to her students. By adopting an open approach to teaching

and learning, she creates an engaging environment where students are able to broaden their knowledge and sharpen their skills. Additionally, she solicits feedback and comments from students to advance her teaching skills. Apart from being a firm believer in maintaining professional discipline and high training standards of her students, she also tempers these expectations with a sense of practicality and a heart of kindness.

With her consistent and unequivocal demonstration of these qualities over the years, Dr Mok commands a high level of respect from both her past and present students who regard her highly as a friend, mentor and educator. Her peers consider her the ‘mentor of mentors’. Extending her role as a mentor, Dr Mok serves as an Associate Director in the NUS Office of Alumni Relations and is the Faculty’s liaison for alumni matters - a role she excels in, given her engaging personality and great influence among many past dental students.

## Appreciating Part-Time Faculty

The faculty is grateful to our part-time staff who have been supporting our teaching programmes throughout the years. We have about 128 part-time teaching staff and featured below are staff nominated by our students for their dedication to teaching.



**Dr Andrew Robinson**  
Discipline of Oral &  
Maxillofacial Surgery

Dr Robinson has been involved in part-time teaching in the Faculty since 1997. Currently teaching Year 4 undergraduates Oral Medicine, he is known to be an animated teacher. Full of passion for the topic he is teaching, he strives to emphasise important points during lectures. The students enjoy his interesting and effective teaching style as he constantly encourages students to think laterally. Dedicated and seeking ways to capture students' attention constantly, he has often gone out of his way to send students useful reading materials.



**Adjunct A/P Myra Elliott**  
Discipline of Oral &  
Maxillofacial Surgery

Prof Elliott has been involved in part-time teaching in the Faculty since 1987. With strong clinical skills, she is able to spark an interest in oral maxillofacial surgery. Known to be an engaging teacher, she often shares interesting stories with her students. Naturally, hardly anyone falls asleep in her class. Her immense dedication to teaching can be seen in her interactions with her students. Extremely patient and passionate, she ensures that she remains approachable to the students and constantly provides models / visual aids for students to ensure that they understand the topic better.



**Adjunct A/P Loh Poey Ling**  
Discipline of Endodontics,  
Operative Dentistry and Prosthodontics

Prof Loh has been involved in part-time teaching in the Faculty since 2002. She is known to be able to strike the balance between being very encouraging yet strict at the same time. Prof Loh is also very approachable and this has tremendously helped the students in their learning. Whenever students are in doubt, Prof Loh always provides sound advice to steer them in the right direction. Her willingness to visit the laboratory and assist students in need is very much appreciated by the students. The best compliment ever paid to her is that the students definitely know that they are in "safe hands" when they work under her.



**Dr Lee Chee Wee**  
Discipline of Endodontics,  
Operative Dentistry and Prosthodontics

Dr Lee has been involved in part-time teaching in the Faculty since 2006. Though a little stern at times, the students are aware that he is looking out for their welfare. He pays attention to small details and students have shared that they have learnt much from him. Patient and willing to impart all that he knows, he constantly encourages learning among the students so that they can feel assured and safe.

For a listing of the Adjunct Faculty, please refer to page 37.

**WE ARE**

**Expanding our Repertoire of Masters Programmes**

**Masters in Dental Surgery (Paediatric Dentistry)**

This new residency training programme aims to train dental specialists to provide professional and high quality dental services, and manage craniofacial developmental conditions, in children and adolescents.

The programme will be conducted primarily at the Faculty of Dentistry, NUS with clinical training carried out in the University Dental Cluster, National University Health System as well as appropriate public primary and tertiary dental services such as the School Dental Service, Health Promotion Board and National Dental Centre. This multi-site training will broaden the training and exposure for the residents.

Each year, three residents will be enrolled into the full-time three-year programme which comprises clinical training,

treatment planning and patient management, didactic training through tutorials, lectures and small-group learning, undergraduate teaching as well as research. The key staff involved in the teaching include Dr Betty Mok, Programme Director; Dr Eu Oy Chu and Dr Bien Lai, Associate Programme Directors; and Dr Catherine Hong, Dr Tong Huei Jinn, Dr Rashid Tahir and Dr Ng Jing Jing.

With this latest programme, the Faculty now offers a broader range of MDS residency training programmes across six disciplines – Endodontics, Oral and Maxillofacial Surgery, Orthodontics, Paediatric Dentistry, Periodontics and Prosthodontics.



*The first three residents who are enrolled in the programme, from Left to Right: Dr Justine Lim, Dr Jessica Khong and Dr Judith Quek*

## Calendar Of Events

### 10<sup>th</sup> Faculty of Dentistry Symposium (10 – 11 January 2015)

The annual symposium held at the Pan Pacific Hotel saw a total of more than 220 participants. It featured two overseas and two local speakers – Professor Brian L Mealey from USA, Dr Andreas Kurbad from Germany, Professor Chia Kee Seng and Dr Wong Mun Loke from Singapore. The theme of the symposium was “The Mouth and Beyond”. It broadened the perspectives of dentistry beyond the mouth. Speakers shed light on oral-systemic

connections; the significance of chronic medical diseases in dental practice; challenges and opportunities in clinical dentistry, and the aesthetic harmony of the body, face and teeth as well as its impact on anterior restorations.

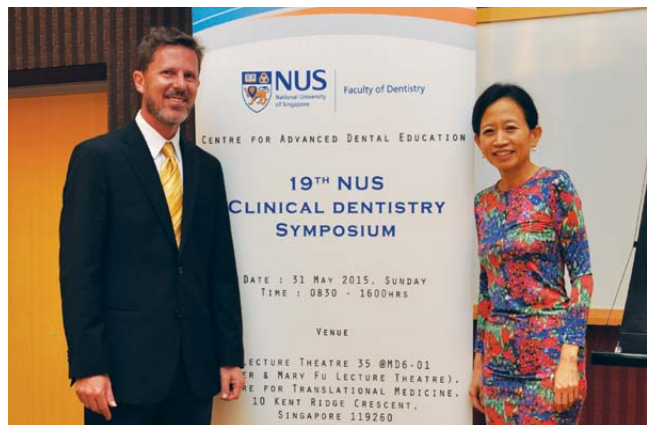
A significant number of trade participants also contributed towards this successful event.



### 19<sup>th</sup> NUS Clinical Dentistry Symposium (31 May 2015)

This symposium brought together a distinguished panel of international and local experts – Professor Andre V. Ritter and Professor Esmonde F. Corbet, who were also the external examiners for the Final Year BDS Professional Examinations as well as – Dr Dominic

Leung, Dr Henry Ho, Dr Bertrand Chew and Dr Joao Ferreira. They shared professional insights on a broad spectrum of clinical issues. A dental trade exhibition was also organised in conjunction with the symposium.





## MOH Health Manpower Development Plan (HMDP) Visitors

The Faculty hosted two Visiting Experts in the fields of Geriatric Dentistry and Dental Public Health in FY2014/2015. Both experts contributed significantly to the professional development of the faculty, as well as undergraduate and postgraduate teaching.

### Professor Angus Walls (20 – 31 October 2014)

Professor Angus Walls is the Director of the Postgraduate Dental Institute in the University of Edinburgh. He is also a Consultant in Restorative Dentistry to NHS Lothian. His research interests lie in the fields of dental materials and ageing. He has been awarded the Distinguished Scientist Award from the IADR for his work in the field of ageing. He is a past member of the Board of Faculty and Vice Dean of FDSRCS (Eng) and a former chair of

the SAC in Restorative Dentistry. He has also served as President of the British Society for Gerodontology, the British Society for Restorative Dentistry and the British Society for Oral and Dental Research. He is Chair and Honorary Director of the Oral and Dental Research Trust and has written extensively, including two text books and an excess of 100 published articles, on the topic of ageing and its effects on people and dental practices.



### Professor Peter Milgrom (3 – 13 February 2015)

Professor Peter Milgrom is currently Professor, Oral Health Sciences at the University of Washington. He is well recognised among the international dental fraternity as an established researcher, educator and dental public health advocate. In 2012, he received the Norton M. Ross Award for Excellence in Clinical Research, the American Dental Association's highest research honour. Professor Milgrom has a keen interest in a broad range of dental public health issues from oral health services research to the prevention of dental caries. He has done extensive research in these areas. He is also deeply passionate about behavioural science and how it can be harnessed to manage the dentally anxious and phobic patient in the clinical setting. He holds a concurrent appointment of Associate Director of the Dental Fears Research Clinic. In addition, Professor Milgrom holds appointments in Paediatric Dentistry and Health Services with the School of Public Health, University of Washington.



## Visiting Professors



### **Professor Niklaus Peter Lang**

Formerly Clinical Professor of Implant Dentistry at the University of Hong Kong, Professor Niklaus was Visiting Professor from 1 to 26 February 2015. He was involved in seminars and postgraduate teaching in Periodontics.



### **Professor Gunnar Bergenholtz**

Emeritus Professor at University of Gothenburg, Sweden, Professor Bergenholtz was Visiting Professor from 2 February to 27 March 2015. He was involved in both the endodontic residency programme and undergraduate teaching. He participated extensively in research discussions, seminars, lectures and treatment planning conferences.



### **Associate Professor Julie Yip**

From the College of Dentistry, NYU, Associate Professor Julie Yip was Visiting Associate Professor from 23 February to 13 March 2015 and 18 to 29 May 2015. She took part in clinical supervision and teaching of undergraduate Periodontics.



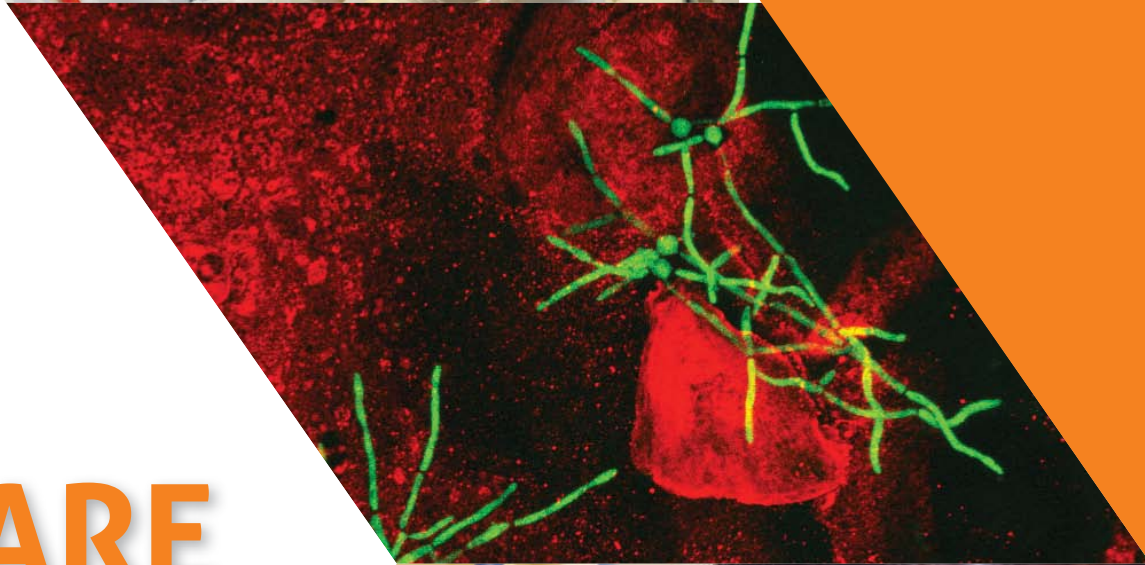
### **Professor Peter James Thomson**

Professor of Oral & Maxillofacial Surgery from Newcastle University, and Honorary Consultant Oral & Maxillofacial Surgeon, Newcastle upon Tyne Hospitals NHS Foundation Trust, Professor Thomson was Visiting Professor from 9 July to 5 September 2014. Professor Thomson was involved in both the undergraduate and postgraduate teaching.



### **Professor Shimon Friedman**

Professor and Director MSc Programme in Endodontics, Faculty of Dentistry, University of Toronto, Professor Friedman was Visiting Professor from 17 November to 12 December 2014. Professor Friedman was involved in both the undergraduate and postgraduate teaching as well as research.



# WE ARE

Discovering New Frontiers



**WE ARE****Growing our Research with Scientists from Around the World**

The Faculty has a pool of talented local and international Research Scientists who support the Faculty's mission to "improve oral health through academic excellence, high impact research and quality clinical service". Our Research Scientists, some of whom are also dentists, act as essential bridges between the clinical and scientific worlds by translating information, ideas and dental materials from the laboratory to the clinic. They bring with them scientific rigour and an added sense

of curiosity into the clinics, thus contributing greatly to dentistry by helping clinicians understand problems at a deeper level and discover new insights on patient care.

These are our Research Scientists and their teams who work tirelessly to support the Faculty's research endeavours. Here, they share with us their aspirations for dental research.



**My research aim: "Create the perfect filling material which is self-adhesive, mechanically efficient, has anti-bacterial effect and also sustained aesthetics."**

**Research Team:**

- Collaborators - A/P Jennifer Neo, Dr Victoria Yu, Dr Roxanna J Esguerra and Prof Jerry Fuh (Faculty of Engineering/NUS)  
 PhD Student - Ms Balasankar Meera Priyadarshini  
 MSc Student - Dr Paulose Nandita Elizabeth

**Research Areas:**

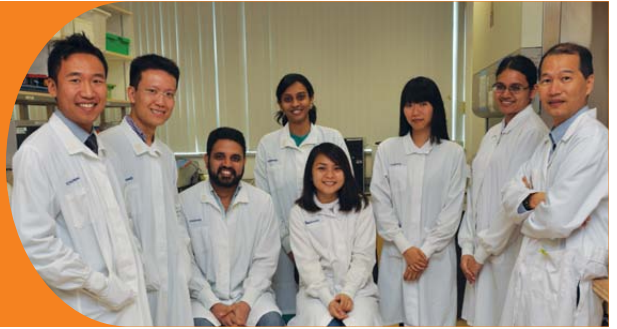
- 🦷 Adhesion to dentine and adhesive dentistry
- 🦷 Nanoencapsulation for drug delivery to dentine/pulp complex
- 🦷 Biomodification of human dentine collagen for enhancing the biodegradation resistance and improving the longevity of dentine-bonded restorations
- 🦷 Bioremineralisation of dental hard tissues
- 🦷 Fabrication of 3D scaffolds through electro-hydrodynamic jet (e-jet) printing for dental applications
- 🦷 Interaction between dental hard tissue and high intensity focused ultrasound (HIFU) for biofilm removal, excavation and surface treatment
- 🦷 Anti-bacterial nanoparticle modified restorative materials and root canal sealers
- 🦷 Biomodified human dentine as natural scaffold for osteogenic and odontogenic stem cell differentiation

🌐 Publication list: [http://www.dentistry.nus.edu.sg/Faculty/staff/files/CV\\_Amr\\_Fawzy.pdf](http://www.dentistry.nus.edu.sg/Faculty/staff/files/CV_Amr_Fawzy.pdf)

**Dr Amr Sherif Fawzy (Egypt)**



My research aim: “Contribute to the generation of evidence-based dentistry and knowledge on population health status; to help reduce the inequality of global oral healthcare through development of affordable and sustainable technologies for prevention of diseases.”



Research Team:

- Collaborator - Dr Rahul Nair
- Research Fellow - Dr Carolina Un Lam
- Research Assistant - Ms Cai Meijin
- PhD Students - Mr Tan Guang Rong, Mr Ashish Chetan Kalhan

Research Areas:

- Light-enamel interaction
- Caries risk assessment for children

Publication List: <http://www.dentistry.nus.edu.sg/Faculty/staff/files/shsu.pdf>

**Associate Professor Stephen Hsu (Taiwan)**

Research Team:

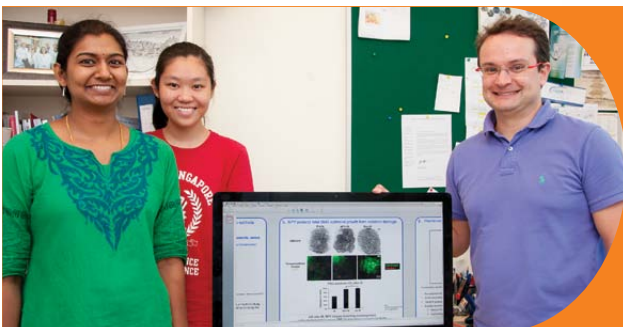
- Biomedical Engineer - Ms Arthi Kannan
- Research Intern - Ms Adeline Koh (Nanyang Polytechnic)

Research Areas:

- Salivary gland research
- Orofacial pain research

Publication List: <http://www.dentistry.nus.edu.sg/Faculty/staff/files/CV-Joao%20NAR%20Ferreira%20 NUS%20FoD.pdf>

**Dr Joao Nuno Andrade Requicha Ferreira (Portugal)**



My research aim: “Use different *in vivo* salivary gland radiation damage and pain models to improve the quality of care in oral health.”



My research aim: “Develop biosensors for early diagnosis of oral diseases and monitor development of pathologies.”

**Research Team:** 

Collaborator - Dr Ricardo Bentini (Faculty of Science/NUS)  
 PhD Students - Ms Xie Han, Mr Nileshkumar Dubey  
 MSc Student - Ms Shruti Agarwalla  
 Research Attachment Student - Ms Sneha Rajan

**Research Area:** 

 Advanced 2D materials for biomedical devices and tissue regeneration

 Publication List: <http://www.dentistry.nus.edu.sg/Faculty/staff/files/VRosa.pdf>

**Dr Vinicius Rosa  
(Brazil)**








My research aim: “Understand biofilm-associated infections, and possibly develop novel therapeutic strategies to fight biofilm infections.”



**Research Team:** 

PhD Students - Ms Thuyen Truong, Mr Kassapa Ellepola  
 Research Assistants - Ms Tanujaa Suriyanarayanan,  
 Dr Preethi Balan

**Research Areas:** 

-  Oral microbiomics
-  Salivary biomarkers
-  Anti-microbial drug discovery to alleviate oral diseases
-  Development of novel anti-microbial drugs against bacterial and fungal biofilms
-  Expertise in OMICS analyses to unravel the microbiota and salivary biomarkers associated with oral health and disease

 Publication List: <http://www.dentistry.nus.edu.sg/Faculty/staff/files/Jaya.pdf>



**Dr Chaminda Jayampath Seneviratne  
(Sri Lanka)**



**Dr Toh Wei Seong  
(Singapore)**

**Research Team:**

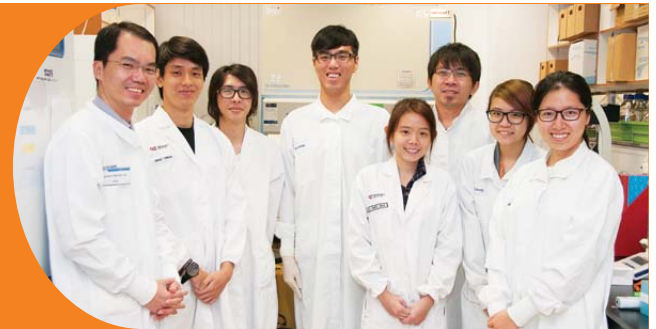
- Research Assistant - Mr Wong Jun Sheng
- PhD Student - Dr Zhang Shipin
- MDS Resident - Dr Muhammed Haseeb
- Research Interns - Mr Chan Hong Hao, Ms Lim Shin Ying,  
Mr Collin Chong, Ms Goh Chen Yun

**Research Areas:**

- Stem cells and generative medicine
- Development of innovative stem cell and biomaterial-based therapeutics for treatment of craniofacial defects and abnormalities through collaborative and interdisciplinary research
- Stem cells for characterisation and development of biomaterials
- Development of human stem cell-based models for biocompatibility evaluation of biomaterials, including dental materials

Publication List: <http://www.dentistry.nus.edu.sg/Faculty/staff/files/TWS.pdf>

**My research aim: “Gain a deeper understanding of specific disease conditions through *in vitro* studies and to develop novel stem cell and biomaterial-based therapeutics for treatment and functional evaluation in pre-clinical animal studies.”**



**Research Team:**

- Clinical Collaborators - A/P Lim Lum Peng, Dr Victoria Yu,  
Dr Catherine Hong, Dr Jacinta Lu
- Research Assistants - Ms Samantha Quah, Ms Lim Chu Ai
- PhD Students - Ms Ooi Xijia, Dr Ding Qinfeng,  
Dr Alphonsus Tay
- MDS Residents - Dr Lew Hui Pau, Dr Tay Chiew Xsia,  
Dr Edwin Goh

**Research Areas:**

- Periodontal and endodontic microbiology
- Dissecting the cellular and molecular mechanisms in host-pathogen interactions in periodontal infections
- Impact of periodontal health on chronic systemic inflammatory diseases, pneumonia incidence and colon cancer

Publication List: <http://www.dentistry.nus.edu.sg/Faculty/staff/files/TKS.pdf>



**Dr Tan Kai Soo  
(Malaysia)**

**My research aim: “Provide new insights into oral disease pathogenesis at the cellular and molecular level and unravel platforms for novel approaches to disease management.”**



## List of Successful Grants

by Principal Investigators (FY2014)

PI	Grant Title	Grant Type	Amount Awarded + IRC (S\$)
<b>External Grants</b>			
Dr Jaya Seneviratne	Deciphering the mechanism of action of a novel anti-fungal agent with the use of Candida Albicans haploids	NMRC-NUHS Clinician Scientist Individual Research Grant (CS-IRG)	477,600.00
<b>Internal Grants</b>			
<b>NUHS Grants</b>			
Dr Amr Fawzy	Improving the Longevity of Resin-Dentin Bonded Restorations Through Nano-Encapsulation of Collagen Cross-Linkers and/or MMPs Inhibitors	NUHS Oral Health Seed Grant	50,000.00
Dr Jaya Seneviratne	Oral health, oral microbiome and salivomics in pregnant and post-partum Chinese women in Singapore: a pilot prospective cohort study	NUHS Oral Health Seed Grant	50,000.00
Dr Tan Kai Soo	Development of a20 peptides as a prospective medicine for inflammatory oral mucosal diseases	NUHS Oral Health Seed Grant	50,000.00
Dr Toh Wei Seong	Quantitative ultrasound imaging of cartilage repair	NUHS Oral Health Seed Grant	50,000.00
A/P Cao Tong	Vascularised human mucosa and skin derived from hESC for basic study, drug discovery, industrial and clinical applications	NUHS Clinician Research Grant	150,000.00
Dr Jaya Seneviratne	Novel probiotic-based anti-fungal formulation for oral candidiasis	NUHS Bench-To-Bedside-To-Product (NUHS B2B)	50,000.00
<b>Education Grants</b>			
Dr Jaya Seneviratne	Spit classroom: Technology-enhanced experimental learning of salivary biology for NUS dental students	Teaching Enhancement Grant	3,000.00
Dr Wong Mun Loke	Mobile application to train dental undergraduates in non-English communications with elderly patients	Learning Innovation Fund (LIFT)	6,200.00
<b>Faculty Grants</b>			
Dr Toh Wei Seong	Novel multifunctional hydrogels for cartilage Regeneration	ARF-FRC	60,000.00
Dr Tong Huei Jinn	Regenerative endodontic therapy of immature Non-vital teeth: a randomised controlled trial	ARF-FRC	39,955.71
Dr Tan Kai Soo	Oral systemic links	Faculty Fund - OOE	171,246.00

## Research Funding 2014



Funding Amount



## Our Research Achievements

### André Schroeder Research Prize 2014 – Dr Fu Jia Hui

The André Schroeder Research Prize is one of the most prestigious awards in dentistry which aims to support scientific advancements in the fields of implant dentistry and oral tissue regeneration.

The 2014 prize was awarded to Dr Fu Jia Hui, Assistant Professor, Discipline of Periodontics, for her research on “A randomised clinical trial evaluating the efficacy of the sandwich bone augmentation technique in increasing buccal bone thickness during implant placement surgery: I. Clinical and radiographic parameters”. Results from the study demonstrated the efficacy of the sandwich bone augmentation technique in regenerating buccal bone on dental implants. Compared to harvesting a block graft, this technique is conservative, has minimal surgical trauma, reduces treatment time, and delivers predictable therapeutic outcomes.

This study was conducted in the Department of Periodontics and Oral Medicine, Faculty of Dentistry, University of Michigan, Ann Arbor from 2008 to 2011 as Dr Fu’s Masters’ thesis, while she was on an NUS Overseas Graduate Scholarship.



### IADR Wrigley Clinical Salivary Research Award for Dental Scientists 2014 – Dr Joao Ferreira



Dr Joao Ferreira, Assistant Professor, Discipline of Oral and Maxillofacial Surgery, was awarded the International Association for Dental Research (IADR) Wrigley Clinical Salivary Research Award for Dental Scientists in recognition of his research titled “Neurturin-expressing adenovirus protects salivary gland function from radiation damage” at the 2014 IADR Congress in Cape Town, South Africa.

### ExxonMobil-NUS Research Fellowship for Clinicians Award 2014 – Dr Loke Wei Qiang

Dr Loke Wei Qiang, Assistant Professor, Discipline of Endodontics, Operative Dentistry and Prosthodontics was the proud recipient of the ExxonMobil-NUS Research Fellowship for Clinicians Award. This Fellowship aims to recruit and nurture a promising cadre of clinician-scientists and clinician-investigators in Singapore who are actively involved in translational research.



## IADR/SEAAD 2014 Best Paper in Cariology and Mineralised Tissues – A/P Stephen Hsu and Mr Tan Guang Rong

Associate Professor Stephen Hsu and Mr Tan Guang Rong (PhD Student) were awarded the Best Paper in Cariology and Mineralised Tissues at the IADR-SEAAD 28th Annual Scientific Meeting in Sarawak. Their paper was titled “Increasing Cariostatic Effect by Heat Therapy of Organic Matrix”.



## IADR-SEA Unilever Hatton Divisional Award (2014) (Junior Category) – First Prize

### IADR General Meeting Hatton Award – Second Prize

Dr Tan Kai Soo, Dr Joshua Chong Ern-Wei, Dr Gabriel Tan Heng Seh, Dr Ivan Lim Yi Rong, Dr Barnabas Loh Yu Ping

An undergraduate research project titled “Low Dose C-Reactive Protein on Macrophage Response to Bacterial Infection” supervised by Dr Tan Kai Soo was awarded the first prize, IADR-SEA Divisional Hatton Award (Junior Category) at the IADR-SEAAD 28th Annual Scientific Meeting held in Sarawak, August 2014. Representing the IADR-SEA division, the group went

on to compete with other IADR Divisional and Section winners at the IADR General Session held in Boston, in March in 2015. They won the Second Prize for the Hatton Award. This prestigious international award is designed to provide an opportunity for the best junior dental investigators to present their research at the annual IADR General Session.



“Research provides the bedrock of evidence upon which we can raise the standard of care provided to the patients whom we pledge to care for, through the use of novel techniques, technology, and biocompatible materials.

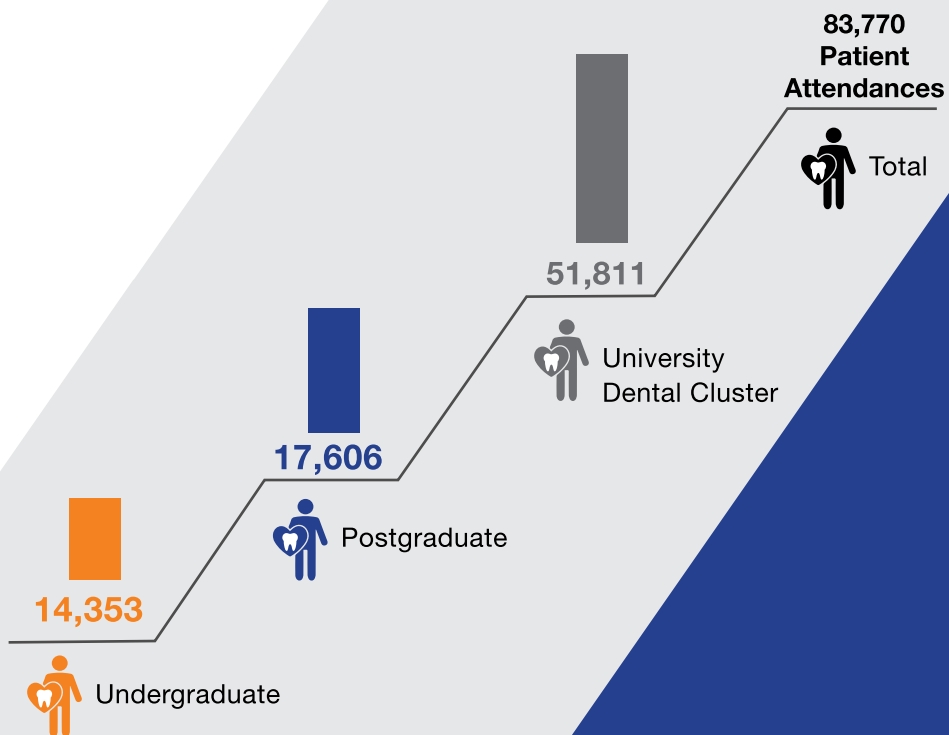
The Undergraduate Research Opportunities Programme (UROP) has taught us to respect all the hard work behind established facts in the literature.”

*The winning UROP Team*

# WE ARE

Empowering the Community to Smile

## Patient Care at a glance (FY2014)



**WE ARE****Engaging in Inter-Professional  
Capacity Building****Partnering Nursing Homes to Bring Smiles to Senior Residents**

With an increasingly ageing population, greater emphasis is being placed on improving the health, including oral health, of our seniors. The Faculty, together with the NUH Dental Centre, supported the NUHS Regional Health System (NUHS RHS) to develop and organise an oral health promotion programme for care staff in five nursing homes.

This collaboration is part of a nation-wide effort to enhance the overall standards of nursing homes in Singapore. A team comprising Dr Wong Mun Loke, Dr Tay Chong Meng, Dr Tan Mei Na, Dr Jacinta Lu and Ms Ding Yuting (Oral Health Therapist) worked closely with the care staff to heighten their awareness of common oral conditions affecting the elderly, showing the significance of oral-systemic interactions. They were also taught to identify common dental conditions for timely referral to an oral health care professional as well as practical skills to maintain good oral hygiene for their residents.

The team has started work with three nursing homes under the NUHS RHS and will continue to work with another two in 2015. When completely rolled out, this programme will have the potential to reach out to close to 500 seniors residing in these care facilities.



**“ The programme has adequate hands-on experiential learning to apply the theory taught. My colleagues are now more familiar with the oral conditions and complications that the elderly are particularly prone to. The knowledge acquired has made them more confident in helping our elderly residents detect oral health issues for timely referral and dental management. ”**

*Ms Lyn Edel Yip,  
CEO and Group Director of Nursing,  
Orange Valley Nursing Home*

**Training Nursing Students to Promote Oral Health among their Patients**

Nurses play a crucial role in the healthcare arena. Through their regular interactions with patients, they are well poised to offer opportunistic oral health advice. In the hospital setting, they can help to render simple oral hygiene care for patients and identify early signs of oral problems to facilitate timely referrals for oral health care.

Recognising the increasing importance of a multi-disciplinary team-based approach in oral health care, the Faculty of Dentistry collaborated with the Alice Lee Centre for Nursing Studies, NUS to conduct a new training module for its first-year nursing undergraduates as part of their “Fundamentals of Nursing” curriculum.

This module sought to heighten the undergraduates’ awareness of oral-systemic interactions, the importance of oral health, common oral conditions, as well as equip them with knowledge to offer oral health advice and skills

to help their patients maintain good oral hygiene in the hospital setting. Delivered through a blended pedagogy of lectures, small group sessions and simulated training workshops, Dr Wong Mun Loke and Dr Tay Chong Meng trained more than 100 undergraduates over three days.



**WE ARE****Using Dental Science to Pique Scientific Curiosity**

Assistant Professor Dr Jaya Seneviratne and his team comprising Dr Loke Wei Qiang, Dr Wong Mun Loke, Dr Preethi Balan, Ms Tanujaa, Dr Sneha, NUS PhD candidates Mr Kassapa Ellepola and Ms Thuyen Truong, conducted a Dental Science training workshop at the Science Centre on 7 April 2015.

Attended by the Centre's in-house science educators, the workshop showed how concepts of dental caries and biofilms in the oral cavity could be incorporated into

simple problem-based activities to inspire the young to learn more about science.

Through a series of problem-based scenarios, the science educators found answers to how saliva is an important buffer; how inappropriate brushing techniques could lead to dental problems and how bite marks, lip prints or palatal rugae could help pin down murder suspects!



*Dr Jaya Seneviratne's team with participants*

**“ I really enjoyed this workshop! Lots of relevant information, super fun and engaging hands-on experiments. The workshop covered such a good range of topics that are so close to my daily life. I am now in awe of my saliva! ”**

*Workshop participant*

**WE ARE****Relieving Pain and Bringing Comfort**

## Orofacial Pain and Temporomandibular Joint Disorders (TMD) Clinic

The University Dental Cluster launched the Orofacial Pain and TMD Clinic in September 2014 to reach out and help patients with acute and chronic orofacial pain. Dr Tan Hee Hon and Dr Joao Ferreira oversee the clinic and are supported by Dr Catherine Hong and Dr Andrew Robinson who provide Oral Medicine expertise. Dr Tan and Dr Joao have received training and are calibrated by the Faculty of Odontology's Orofacial Pain and Jaw Function unit at Malmo University, Sweden to use the DC/TMD diagnostic protocol which is one of

the most widely used global tools in TMD diagnosis. The clinic offers a broad range of treatment including pharmacological management, surgery, appliances as well as cognitive behavioural therapy. Multi-disciplinary collaborative patient care is a hallmark of the clinic as it works closely with colleagues from the Pain Clinic, ENT, Physiotherapy, and Occupational Therapy in NUH. Since its launch, the Orofacial Pain and TMD Clinic has attended to over 200 patients.



*From Left to Right : Dr Catherine Hong, Dr Andrew Robinson, Dr Joao Ferreira and Dr Tan Hee Hon*

## Oral and Maxillofacial Surgery: Orthognathic Clinic

The NUH Oral and Maxillofacial Surgery (OMS) team, led by Associate Professor Asher Lim, has seen a recent increase in the number of orthognathic surgery cases at NUH Dental Centre. The Clinic works closely with colleagues from the Discipline of Orthodontics in NUHS as well as private orthodontists and the Singapore Armed Forces to manage dentofacial deformities.

More advanced methods of treatment planning using the CAD/CAM-printed surgical wafers which act as positioning guides have been widely used in the Orthognathic Clinic. Computer assisted surgical simulation for better visualisation and approximation of potential surgical results have also been regularly used.

The NUH OMS team also pioneered the use of computer generated cutting guides with fixation plates. Areas of thickest bone for screw placement, safe distances from anatomic structures (nerves, root of the teeth) are first calculated. Cutting guides and fixation plates are then designed incorporating this information and printed in titanium. This eliminates the need for measurement during surgery, thus improving surgical accuracy and reducing operating time. The team is the first in the Asia Pacific region, and the second team in the world, outside of France to employ the use of this surgical technique.



*From Left to Right: Dr Sabrina Ng, Dr Lee Qi Qi, Dr Benjamin Ng, Assoc Prof Yeo Jin Fei, Dr Adrian Shi, Assoc Prof Asher Lim, Dr Raymond Wong, Dr John Loh, Dr Albert Lee, Dr Joao Ferreira and Dr Tan Mei Hui*

**WE ARE**

**Engaging Our Alumni**

As we come together to celebrate the faculty's past, present and future, we thank our alumni whose presence represent the spirits of all the many men and women who have journeyed with the Faculty in the past 85 years.





## 85th Anniversary Gala Dinner



*From Left to Right: Prof John Wong (CE, NUHS), Prof Tan Eng Chye (Provost, NUS), Mr Wong Ngit Leong (Chairman, NUS Board of Trustees), Mr Heng Swee Keat, then Minister for Education (Guest-of-Honour), A/P Grace Ong (Dean, FoD), A/P Keson Tan and Prof Tan Chorh Chuan (President, NUS)*

The Gala Dinner held on 30 August 2014 was the grand finale for the Faculty's 85th Anniversary celebrations. It was attended by then Minister for Education, Mr Heng Swee Keat, Guest-of-Honour; Mr Wong Ngit Liong, Chairman of NUS Board of Trustees (BOT); Professor

Tan Chorh Chuan, President of NUS; and Prof John Wong, Chief Executive of NUHS; and close to 600 alumni, guests, staff and students. It was an evening of nostalgic reminiscence and camaraderie as the alumni gathered at the Pan Pacific Hotel.



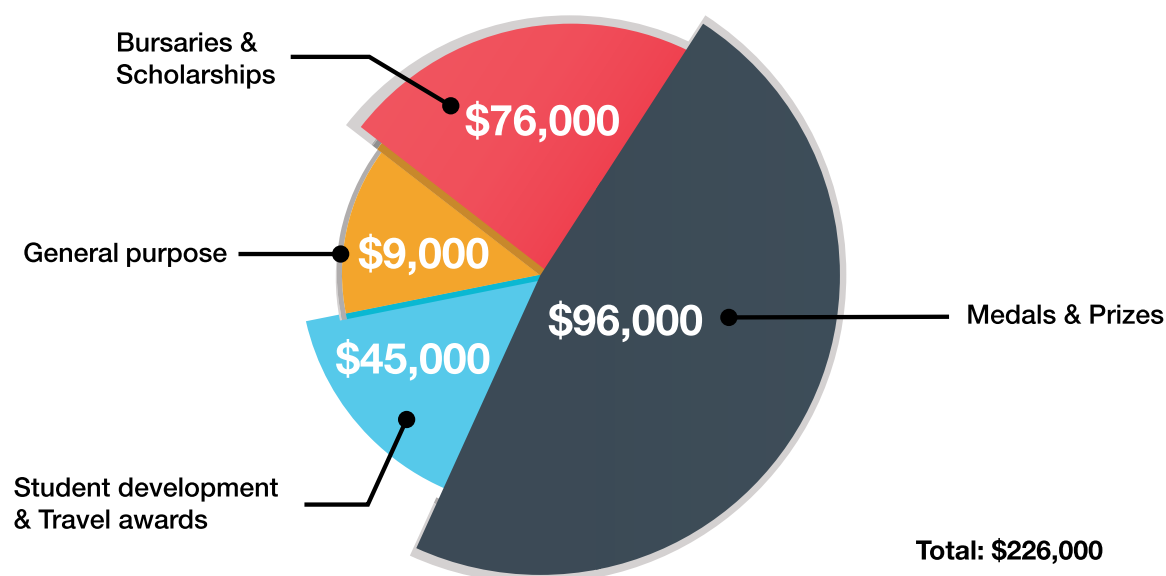
*Class of '85 contributed generously towards Mr Ong Kim Seng's (right of painting) oil painting*

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Connected

Keep in touch and up-to-date with the latest happenings at the Faculty of Dentistry.  
Log on to : [www.dentistry.nus.edu.sg](http://www.dentistry.nus.edu.sg)

**WE ARE**

Thankful to our Alumni Donors

**Utilisation of Donations (April 2014 - March 2015)****Donations (April 2014 - March 2015)**

The Faculty would like to acknowledge and extend their deepest gratitude to the following donors for their generous donations.

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### WE ARE

### Developing our Human Capital

The University Dental Cluster (Faculty of Dentistry and University Dental Centre), NUHS has been grooming and developing its staff for the continuity of dental education, research and clinical services. Four scholars

recently completed their further training in the disciplines of Endodontics, Oral and Maxillofacial Surgery, Prosthodontics and Periodontics.

#### Dr Loke Wei Qiang

Dr Loke Wei Qiang completed a 5-year Master of Science Programme with dual specialisation in Prosthodontics, Periodontology and Oral Implantology at the University of Texas Health Science Centre at San Antonio (2009-2014).

Dr Loke loves the science of dental reconstruction and the inter-disciplinary nature of restorative dentistry. He also finds the perio-restorative interface particularly fascinating and hence, decided to pursue the dual specialisation course.

**To him, teaching is a calling, a passion and a gift. He enjoys teaching very much and his mantra has always been “to bring out the best in my students by instilling the joy of learning in them”.**

His vision for Prosthodontics and Periodontics is a future where the science of one discipline propels the other. This can be readily seen in the discipline of Oral Implantology, where the technological advances and understanding of one specialty benefits the other, so much so that both specialities become inextricably linked at the interface.



#### Dr Ivan Koh

Dr Ivan Koh completed his MDS in Endodontics at NUS (2011-2014).

He derives satisfaction from managing patients in pain and helping to ease their stress. It is a reward in itself to have a patient coming in with negative impressions of root canal treatment and yet leave thinking that the experience was not too bad or painful.

**He is deeply passionate about endodontics and looks forward to sharing his knowledge in the field with the undergraduates and postgraduates to enhance their appreciation of endodontics in dentistry.**



## Dr Hong Kang Lun

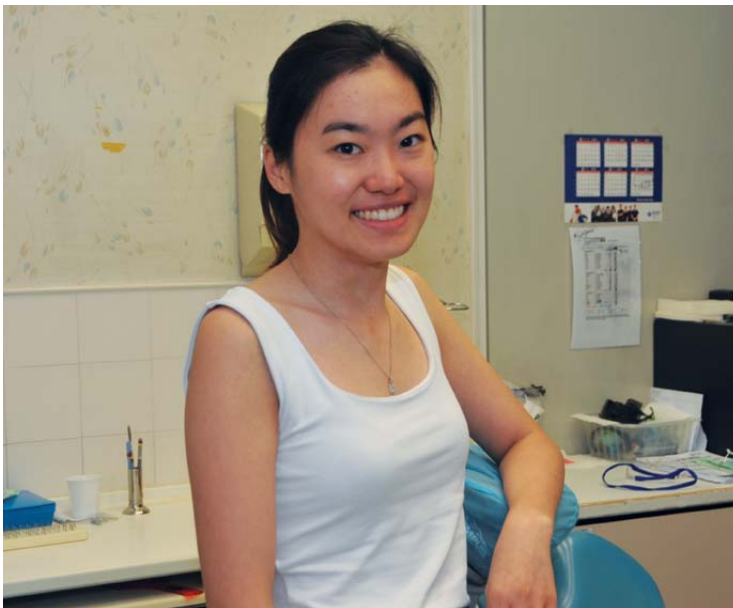
Dr Hong Kang Lun completed his MDS in Oral and Maxillofacial Surgery (OMS) at NUS (2011-2014).

He spends most of his time in the outpatient clinic or in the operating theatres. He is excited about contributing towards the growth and increased presence of OMS in the hospital, especially in the area of maxillofacial trauma.



**His vision is to develop a well-respected and highly valued OMS service that is able to work collaboratively with fellow oral health care and medical colleagues and positively shape the overall health and wellbeing of patients.**

## Dr Tan Mei Na



Dr Tan Mei Na completed her MDS in Prosthodontics at NUS (2011-2014).

Dr Tan's interest lies in Geriatric Dentistry and she believes that specialising in Prosthodontics will help her to better plan and execute treatment for the elderly patients to enhance their quality of life. She hopes to enhance the provision of quality clinical care at the NUH Dental Centre and support the education and nurturing of future clinicians at the Faculty of Dentistry.

**As a clinician, her greatest satisfaction is seeing patients' confidence restored with the ability to function comfortably. She also finds joy in helping her students see meaning in what they are learning. She believes in equipping them with the knowledge and skills to be excellent and compassionate clinicians.**

### Academic Medicine Development Award - Dr Intekhab Islam

Dr Intekhab Islam received the NUHS Academic Medicine Development Award (AMDA) and worked as a Fellow in the Department of Oral and Maxillofacial Surgery at Ninewells Hospital, Dundee, Scotland.

During his attachment from March to November 2014, Dr Intekhab's focus of training was in Total Prosthetic Reconstruction of the Temporomandibular Joint under the guidance of Professor Philip McLoughlin.

In addition, he also received hands-on experience in other areas of Oral and Maxillofacial surgery including Orthognathic Surgery, Complex Facial Trauma, Facial Aesthetic Surgery, Oncology and Dermatology.

Apart from Clinical work, Dr Intekhab was involved in teaching and research at University of Dundee. The networks he established while in Scotland are fondly remembered by Dr Intekhab.

**“Friends add to the beauty of a place and I will always cherish the friendship, warmth and hospitality of the staff at Ninewells Hospital.”**



*Dr Intekhab (back row, first on left) with friends from Ninewells*

### National Institute of Technical Education Certificate (NITEC)

Ms Elicia Chan Jia Ying, Ms Nareema Binte Mohmad Ibrahim, Ms Sharon Wong and Ms Natasha Ong



*From Left to Right: Ms Elicia Chan, Ms Nareema Binte Mohmad Ibrahim, Ms Sharon Wong and Ms Natasha Ong*

The Faculty recruited 4 new laboratory assistants who are undergoing the 2-year NITEC in Dental Technology course.

## Staff Strength and New Staff (as at 31 March 2015)

Professor	2
Associate Professor	9
Assistant Professor	17
Senior Lecturer	3
Instructor	6
Adjunct Staff	59
Research Staff	10
Executive & Professional Staff (Directors/Professionals)	12
Laboratory Technician/Operations Associate/Specialist Associate	25
Management Assistant Officer	13

## Award Recipients (July 2014 – June 2015)

Associate Professor Patrick Tseng	National Day Awards 2014 – Public Administration Medal (Silver)
Associate Professor Patrick Tseng	National Day Awards 2014 – Long Service Award
Dr Chiew Yim Tho	
Ms Lim Ai Chin	
Ms Lim Seow Hwa Connie	National Day Awards 2014 – The Efficiency Medal
Dr Chiew Yim Tho	NUH Long Service Award (25 years)
Associate Professor Kelvin Foong	NUH Long Service Award (20 years)
Associate Professor Asher Lim	NUH Long Service Award (15 years)
Dr Raymond Wong	NUH Long Service Award (10 years)
Dr Clara Mok	NUH Long Service Award (5 years)
Dr Intekhab Islam	NUH Long Service Award (5 years)
Dr Melvin Liew	NUH Long Service Award (5 years)
Dr Michael Mah	NUH Long Service Award (5 years)
Dr Ode Wataru	NUH Long Service Award (5 years)
Mr John Chan	NUH Long Service Award (5 years)
Mr Peter Lim	NUH Long Service Award (20 years)
Ms Muayanah Binti Amat	NUH Long Service Award (5 years)
Dr Betty Mok	NUHS-Mochtar Riady Pinnacle Awards 2015 – Outstanding Mentor Award

## Adjunct Faculty (as at 25 June 2015)

### Discipline of Oral Sciences

A/P Lee Woon Oi, Teresa

### Discipline of Oral & Maxillofacial Surgery

A/P Elliott, Myra nee  
Lin Wen Jui

A/P Go Wee Ser

A/P Kwa Chong Teck

A/P Loh Fun Chee

A/P Peck Hong Lian,  
Raymond

A/P Poon Choy Yoke

A/P Tay Ban Guan,  
Andrew

A/P Teh Luan Yook

Dr Bertrand Chew  
Shen Hui

Dr Chan Siew Luan

Dr Goh Bee Tin

Dr Hong Kanglun

Dr Lai Juen Bin

Dr Lee Kim Chuan,  
Lewis

Dr Melvin Liew Kang Ming

Dr John Loh

Dr Lum Jing Li

Dr Natthareen Chanchareonsook

Dr Robinson Narendran Andrew

Dr Sim Qiuxia Chelsia

Dr Soong Poh Luon

Dr Tan Ben Poon,  
Danny

### Discipline of Endodontics, Operative Dentistry & Prosthodontics

A/P Chen Nah Nah

A/P Cheng Chi  
Chung, Ansgar

A/P Chua Ee Kiam

A/P Lim Kian Chong,  
Gerald

A/P Loh Poey Ling

A/P Sim Poh Choo,  
Christina

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Dr Lim Ching Chiat

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Dr Pang Soon Eng

Dr Phay Yew Ming

Dr Quek Heng Chuan

Dr See Toh Yoong Liang

Dr Shahul Hameed

Dr Tan Ken

Dr Tan Mei Na

Dr Tay Chong Meng

Dr Teh Kiat Seong

Dr Thean Tsin Piao

Dr Uy Joanne Ngo

Dr Wendy Wang

Dr Wong Keng Mun

Dr Wong Soon May, Adeline

Dr Yap Yi Roon, Ronnie

Dr Peter Yu

### Discipline of Periodontics

A/P Chung Kong Mun

A/P Ong Meng Ann,  
Marianne

Dr Ang Chee Wan

Dr Chee Hoe Kit

Dr Chiew Yim Tho

Dr Koh Chu Guan

Dr Kwek Swee  
Nguang Henry

Dr Lee Hui Jing,  
Helena

Dr Lee Kwee Jin

Dr Jacinta Lu

Dr Madeliene Rathi  
Gunaratnam

Dr Marlene Teo

Dr Tan Ching Ching

Dr Tan Thong Kwan, Benjamin

Dr Tay Lai Hock, Alphonsus

### Discipline of Orthodontics & Paediatric Dentistry

A/P Chew Ming Tak

A/P Yow Mimi

Dr Ching Siew May,  
Eileen

Dr Chng Chai Kiat

Dr Choo Johanna

Dr Hwang Yee Cheau

Dr Kaan Sheung Kin

Dr Koh Chay Hui

Dr Lim Chong Yang,  
Arthur

Dr Lim Kuen Fui

Dr Mohamed Azharashid  
Bin Mohamed Tahir

Dr Ong Hoe Boon

Dr Sim Chien Joo

Dr Tan Hwee Hiang

Dr Elaine Tan Li Yen

Dr Sylvia Tan

Dr Tan Tzee Jen

Dr Tang Kok Siew

Dr Wong Yoke Cheng,  
Rosalind

### Dean's Office Adjunct Faculty

Ms Ho Koon Chye Florence



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