

Vision of Department of Stomatology, Taipei-VGH

I am pleased to present the Department of Stomatology in the bulletin of year 2012. The past years have been one of great success for us. The Department of Stomatology of Taipei-VGH aims to be the leading training institute in Taiwan and Asia. In 2012, the department is embracing a great upward momentum. Our performance shows that we are having a great advancement in the major tracks of teaching, academic, and didactic clinical fields of subspecialties. Currently, the department accepted 45~50 6th-year dental students from Yang-Ming and other 5 domestic dental schools for a 1-year internship, ~10 graduate trainees from the clinical dental institute of Yang-Ming, and other 10 domestic or international trainees. Outstanding board examination score of national licensure & many academic awards from graduate trainees each year demonstrated the quality & standing of this dental, oral & maxillofacial training institute. The published SCI articles each year significantly increased from 4 in 2004 to 31 in 2010 to achieve a record high. This breakthrough in the academic standing is attributed to the solid collaboration & support from the school of dentistry, National Yang-Ming University. In addition, the yearly clinical service amount in both OPD & inward care had a 30% growth from 2007 to 2010. The substantial feedback from the hospital was positive in supporting the total funding for the renovation of out-patient-clinics hardware locating at the 7th/8th floor of this 30-year-old clinical building. Starting from the August 2012, the renovated clinics will further upgrade the quality of patient-care as a landmark in the era of Taipei-VGH. Furthermore, the pedodontics division will have its new territory to join the lake-side pediatric clinics which will begin to run in January 2013. This further allows the birth of an integrated orthodontic division at the same time. Forseeing the future, the Department of Stomatology of Taipei-VGH will make the best effort to reach the goal of “beyond outstanding” in the tracks of clinics, teaching and research to build the graduate and undergraduate trainees with characters of passion, proactiveness, ethics, and discipline among the major dental institutes of Taiwan and worldwide.

My sincere and heartfelt thanks are extended to everyone, here or retired, who has worked to cultivate all achievements for our department.

Sincerely,



Shou-Yen Kao, DDS, MHA, DMSc
Head



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我們對財務績效的態度

對本院而言，財務和營運績效的重要性就好像人體內的血液跟水分一樣，絕對是生存的命脈，但卻不是生命所追求的最終目標

Superintendent

Lin Fang-Yue

Honorary consultant

Hwei ching-yuan

Chan Chao-Chang

Lin Tzu-Huai

Chang Che-Shoa

Editor-in Chief

Kao Shou-Yen

Editors

Chang Hong-Ji

Yip Shing-Wai

Lui Man-Tin

Lai Yu-Lin

Huang Shou-Hsin

Yang Shue-Fen

Shih Wen-Yu

Lo Wen-Liang

Yang Tsai-Hsiu

Cheng Dong-Hui

Technical assistants

Tsai Su-Ting

Ko Tzu-Yi

Hsiao Heng-Pei

Lee Ma-Li

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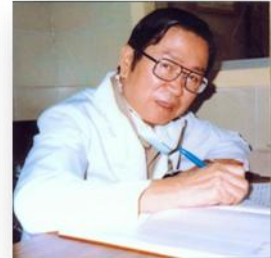
[Appendix]



I. Introduction

The Taipei-Veterans General Hospital was founded in 1959. The dental division, located in old central building, was initially established by Dr. Chin-Yuan Hwei with 5 dental units belonging to the department of Surgery. The dental division was further splitted off from Surgery and run independently in 1973. The Department of Dentistry later on moved to the 2nd out-patients clinical building and became to have subspecialties including periodontics, endodontics, pedodontics, orthodontics, prosthodontics, and oral & maxillofacial surgery with inward operation from 1975. By the contribution of several former Department heads of Dr. Chin-Yuan Hwei (1959-79), Dr. Chao-Hsian Chan (1979-1997), Dr. Ze-Hwai Lin (1997-2002), Dr. Che-Shoa Chang (2002-2008), it was now named by Department of Stomatology as one of the largest dental clinics with 100 dental units and 24 inward beds in 2008. The primary goal of services is to take care of veterans. Through continued changing and development for the last 50 years, the ultimate goal of this department aims to become one of the best clinics of dental medicine in Asia and worldwide with triple tracts of clinical service, teaching work, and research focus. Academically, it collaborates closely with National Yang-Ming University school of dentistry as mutual welfare.

In 2012, the Department of Stomatology has 5 administrative



Chin-Yuan Hwei
1959-1979



Chao-Hsian Chan
1979-1997



Ze-Hwai Lin
1997-2002

divisions with 8 subspecialties including oral & maxillofacial surgery (OPD/ward), prosthodontics, endodontics, periodontics, pedodontics, orthodontics, operative dentistry, & total patient care. Each division has one senior attending Dr. in charge of the administrative, teaching, & clinical work. In all, the Department of Stomatology has one administrative department head, five division chairs and other 15 attending physicians supervising the teaching and services of trainees including ~50 residents and 45~48 intern doctors mainly from National Yang-Ming University & other 5 dental schools. There are ~190 full time/part time personnels of administrative, technicians and nursery in this department. Currently, the out-patient clinics is located in the 7th/8th floor of the 2nd OPD building and the 26 inward beds belonging to the ward of B88, B108 & B118, are located in the 10th/11th floor of Hse-Yuan building. The surgery is performed in operating room 4 or 6 at the 3rd floor in Hse-Yuan building. In 2013, the pedodontics division will move to lake-side building to operate together with pediatric department in order to provide a high quality of dental/oral care for children.



Che-Shoa Chang
2002-2008

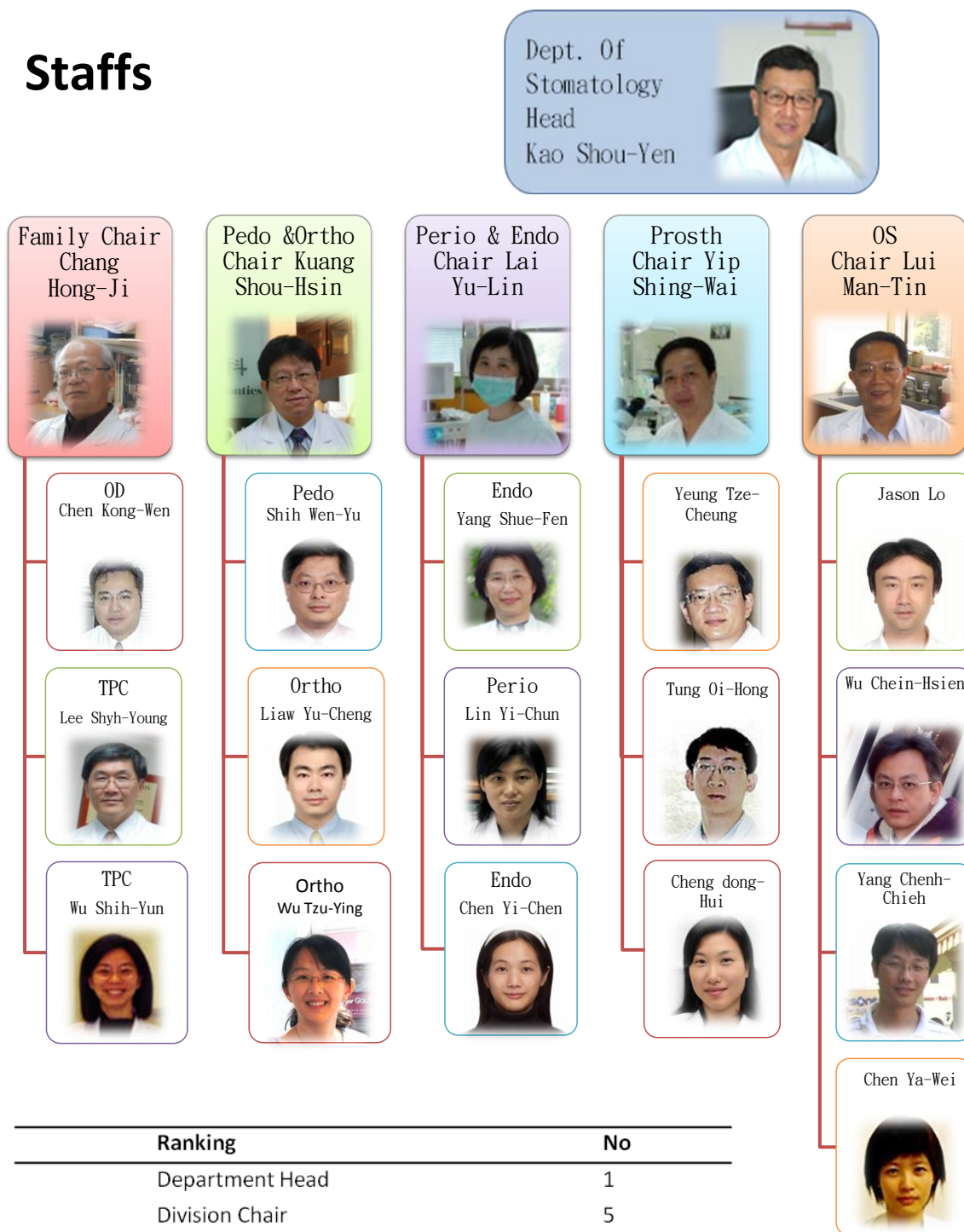


Shou-Yen Kao
2008-



II. Department

A. Staffs



| Ranking | No |
|-------------------------------|------------|
| Department Head | 1 |
| Division Chair | 5 |
| Attending Dr | 15 |
| Resident | 37 |
| Intern | 48 |
| Trainee (from other hospital) | 3 |
| Yang-Ming graduate student | 19 |
| <u>Drs total</u> | <u>128</u> |

Out-Patient Clinics



↑ Group photo of paramedical staffs of nurse, technicians, and clinical assistants.

Prosthetic lab : Miss TY Chu (leader, front) leading the 5- staffs team with teaching capacity ◦

Miss CS Yang (Chief of paramedical staffs)



↑ Administrative office , Miss Heng-Pei Hsiao, Mary Lee, Chia-Ling Yang & Tzu-Yi Ko ◦



Miss Yang, chief of nursery and technicians of Department of Stomatology, has been working in the Taipei-VGH from 1970 soon after graduating from the college in the age of 19. She spent about 40 years of career to see the growth and development of this department and worked like babysitter to arrange the everyday housekeeping work of paramedical staffs. Not only hard working, Miss Yang promoted herself by studying diligently to recharge herself in didactic fields of nursery, administrative, and health care management. She earned a bachelor degree in Chang-Gang University 1993. She further studied in the graduate program in Chung-Hwa University and got her master degree of health care management in 2008. She is now a grandmother to take care more things on her family side.

1. A Study in Human Resource Management of Dental Assistants-Four Taipei City Medical Centers as Examples. TSAI-HSIU YANG
2. Relationship between Cardiovascular Disease and Periodontal Disease as Well as Tooth Loss in residents of Taipei County. JUI-CHU TU
3. The Relationship between Health Beliefs of Primary caregivers and Early Childhood Caries amongst Preschool Children. HSU-CHEN WU



B. Ward



Operation room at the 3rd floor



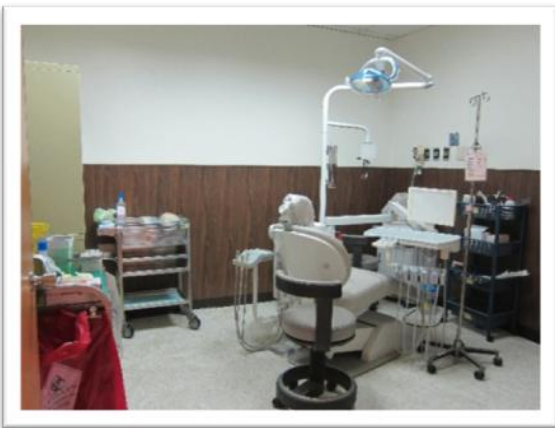
Staffs of ward B108



B108 ward station



Resident office



Room for oral care unit



Historical bulletin board at B108 ward

20 beds in ward B108 (10F), 2 beds in B88 (8F) and 3 beds of B118 (11F) provide the capacity of inward care for OMS patients. The operating room at the 3rd floor provides surgery under general anesthesia in the same building from Monday to Friday. The surgical fields encompass major and minor fields from oncology, orthognathic surgery, to trauma & so on.

C.Division

Oral & Maxillofacial Surgery

Features of division : developing computerized navigation surgery 、conducting basic research in oral carcinogenesis and tissue engineering, creating novel clinical trial on oral cancer prevention

Chair of division : Dr. Man-Tien Lui



Dr. Man-Tien Lui

Former Chair: Che-Shoa Chang 1984.1.15-2003.1.15

Shou-Yen Kao 2003.1.15-2008.5.1

The Oral & Maxillofacial Surgery division in Taipei-VGH undertook the goals of teaching, research, and clinical services covering the major fields of the OMS area. The services include the out-patient-clinics as well as the inward care of 26 beds of surgical cases. Current treatment of diseases of minor fields included surgical exodontias, preprosthetic surgery, dento-alveolar surgery, & implant surgery. The major fields included the surgical management of maxillofacial trauma, head and neck infection, TMJ surgery, orthognathic surgery, jaw bone tumors & cyst, various mucosa diseases, oral cancers, reconstructive surgery, & salivary gland disease. The teamwork functions in collaboration with the school of dentistry of National Yang-Ming university, other specialties of plastic surgeon, oncologists and other subspecialties in dentistry. The training includes short-term fellowship for domestic or foreign trainees, 4~5-year specialist and 2-year master programs. Around 200 SCI articles of didactic fields or topics have been published from OMS division since 1990~. The former chiefs of OMS division Dr. Che-Shoa Chang & Dr. Shou-Yen Kao had been the president of Taiwan association of OMS (ROCOMS). The goal of division was not only the leading domestic institute but aimed to be an outstanding international training center in oral and maxillofacial surgery. 5 full-time attending physicians took care of teaching and clinical training. The academy oriented teaching environment provides fruitful resources of learning in both clinical skills and basic knowledge for the trainees. The trainees consecutively won the academy awards in the annual meeting of ROCOMS association. Their performance in the board examination further won the appraisal of overseers in the association. The goal of division aims to develop computerized navigation surgery 、to join the team of conducting frontier basic research in oral carcinogenesis to create novel clinical trial on oral cancer prevention and to develop tissue engineering based implant & constructive surgery.

Prosthodontics

Features of division : center of oral rehabilitation

Chair of division: Dr. Shing-Wai Yip

The goal of prosthodontics division is to use teamwork based professional experience to restore the cosmetics and function of

patients. The unique advantage of this teamwork is the close cross-talk and collaboration among other subspecialties of

periodontics, endodontics & orthodontics before any comprehensive treatment plan was conducted. The long-term collaboration among different subspecialties was not merely based on consultation but consolidated by constant combined conferences to detail the treatment plan as well as to follow the outcome of cases. Those meeting were constantly held on weekly or monthly basis. The advanced knowledge based clinical skill or techniques paved the way to the leading role of prosthodontics division as one of the most outstanding domestic training institute. 4 full-time faculties with oversea graduate training background in famous dental schools and around 10 part-time faculties with domestic specialist board or post-graduate degrees organized the profound teaching environment drawing the attention of trainees.



Dr. Shing-Wai Yip

Former chair:

Dr. Ze-Hwai Lin 1984.1.15-1997.1.15

Dr. Hong-Ji Chang 1997.3.1-2005.3.31



Orthodontics

Features of division: Comprehensive plan for orthodontic management of general dentition malalignment & dento-maxillo-facial deformity

Chair of division: Dr. Shou-Hsin Kuang

Former chair: Dr. Jin-Jong Lin

Dr. Tony Fong-Tung Wu



The goal of orthodontics division is to provide comprehensive plan for orthodontic & surgico-orthodontic combined management for cases of general dental malalignment & dento-maxillo-facial deformity. The orthodontics division of Taipei-VGH provides a high-quality health care for cases seeking treatment. The teamwork of consists of a Dr. Shou-Hsin Kuang standard procedure of diagnosis, consultation with other specialties, and a comprehensive modality of treatment for a decade. Three full-time attending physicians and more than 5 part-time faculties offers a fruitful resource of teaching and clinical consultation for the trainees of resident and graduate students. The division constantly held conferences to didactically discuss the treatment plan for new cases. The surgico-orthodontics combined case conference on Monday and general case conference on Wednesday drew attention of colleagues to this subspecialty at other hospital to join, discuss, and share experience for a long time. Under the leadership of chairman, Dr. Shou-Hsin Kuang, the orthodontics division of Taipei-VGH had great contribution to the professional society by organizing high-quality continued education or conferences. The future goal of orthodontics division will target for providing a high-end & high-quality diagnostic tool/computerized image-assisted treatment for the patients. The division also aims at achieving a leading domestic subspecialty with outstanding clinical, teaching, & research multi-oriented active institute in Taiwan.



Pedodontics

Features of division: dental care of children, full mouth care of handicapped under General anesthesia, society service

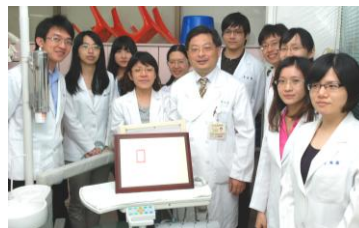
Chief of division: Dr. Wen-Yu Shih

Former chair: Hsiao-Fann Chia 1984.1.15-2008.6.15



Dr. Wen-yu Shih

The pedodontics division provides a high quality of dental/oral care of children. The teamwork of specialty was established by former chair, Dr. Hsiao-Fen Jia, and has long been famous for its well-established system of oral health care for school age children, handicapped & systemic diseased children in Taiwan. The goal of pedodontics division provides comprehensive plan of dental treatment for the children. Beside the oral cavity, the pedodontics division further emphasizes importance of looking after the general physical and mental status of children with passion. Any systemic diseases or conditions will be presented for consultation to incorporate with the main tract of oral health maintenance. 3 major operation days per week provided more than one hundred of children with different levels of oral health condition to have inward care with main treatment under general anesthesia in the OR. From the January of 2013, the campus of division will move to join the pediatric OPD lake-side building. This will allow the pediatric division being able to use their profound knowledge and skills with safety & efficiency to serve more and more children who seek for a better oral health care in Taipei-VGH.



Family dentistry (operative dentistry, total patient care)

Features of division: developing total patient care, operative dentistry

Chair of division: Shou-Yen Kao

2 major branches or units in family dentistry

Former chair: Guo-Xiong Zhong 1990.1.1-1999.12.16

Hong-Ji Chang 2005.4.1-2013.1.15

Operative dentistry (OD)

Chief: Dr. Kong-Wan Chan



Dr. Kong-Wan Chan

Conventional treatment scope of family dentistry aimed at the restoration of the morphology of decayed/caries teeth by amalgam, resin and other operative filling materials. The scope may extend to cosmetic bleaching, society oral hygiene instruction & preventive dentistry.

Total patient care (TPC)

Chief: Dr. Shyh-Yuan Lee

Currently, the total patient care unit was included into the territory of family dentistry in Taipei-VGH. The goal of TPC is to fulfill the comprehensive treatment centered by patient's need and safety. The sequence of treatment starts with a patient oriented history taking, physical and radiographic Examination, diagnosis, and an integrated multi-modality treatment plan.



Dr. Shyh-Yuan Lee

Through pretreatment consultation, the patient will be served by a sound and logic treatment sequence conducted by a doctor monitored by supervisor. Special charting and treatment record will be summarized and presented in the session of conference, which will retrieve the performance for each patients during and after treatment.

Periodontics

Features of division : 1. providing comprehensive periodontal care and optimal implant therapy. 2. responsible for teaching the disciplines of periodontology, and implant dentistry.

Chair of division : Dr. Yu-lin Lai

Former chair: Dr. Li-Jane Ling 1984.1.15-2004.7.15



Dr. Yu-lin Lai

The mission of the Division of Periodontology at Taipei-VGH is to provide optimal patient care, dental education, and scientific research in the field of periodontology and implant dentistry. The main scope of patient service includes highest level of periodontal health care which comprises management and prevention of periodontal disease, soft and hard tissue reconstruction for regenerating periodontal tissues, as well as advanced treatments for dental implant. The education includes strong training of pre-doctoral and post-graduate students within the framework of contemporary periodontology and oral implantology through didactic lectures, evidence-based learning, individual tutoring, e-learning modules and supervised clinical practice with the highly-diverse treatment planning. The post-graduate training is intended to prepare future leaders in the specialty of periodontics. In order to promote their academic ability and scholarly activity, all the periodontology specialty students enrolled in the postgraduate program are required to conduct original researches. The research results must be presented in the academy meeting or published in the professional journal. Current research interests includes a broad spectrum of basic and clinical science projects aiming at the assessment of microbiological etiology, pathogenesis and associated risk factors of periodontal diseases, as well as evaluation of anatomical structure for implant therapy that may be applicable in improving preventive and therapeutic strategies. Moreover, the studies in collaboration with the School of Dentistry, National Yang-Ming University involve bone biology, biomaterials and tissue engineering which bridge the gap between basic science and clinical applications.



Endodontics

Features of division: microscopic root canal treatment, microscopic periapical surgery, nonvital tooth bleaching, management of traumatic teeth

Chief of division: Dr. Shue-fen Yang

Former Chief: Dr. Zu-Pyn Yang 1984.6.11-1990.3.31



Dr. Shue-fen Yang

The goal of endodontics division is to provide endodontic diagnosis and treatment of pulpal and periapical diseases for clinic patients. In addition to the regular patients, the faculty receive endodontic cases that are referred from different dental clinics especially for searching microscopic endodontic diagnosis , treatment or surgery due to various endodontic difficulties. These difficulties include calcified canal, persistent symptoms, separated instrument, tooth with open apex or fractured tooth, etc. The endodontics division of Taipei-VGH also conducts an endodontic specialty training program qualified by Academy of Endodontics, Republic of China. There are two full time faculties and nine partial time faculties in the program. Other than weekly teaching activities, a collaborative domestic endodontic specialist meeting is held monthly at Taipei-VGH to discuss and to share advanced endodontic knowledge, skill or techniques.



III. Teaching

A. Faculties

| Department | Name/academic standing | Training background |
|------------------------------|----------------------------------|----------------------------------------------------------------------|
| Administrative | Head, Kao Shou-Yen, Prof. | DMSc, Harvard School of Dental Medicine. MHA, Chan-Gun University |
| Peirodontics | Chair, Lai Yu-Lin, Prof. | MS, Tufts University, School of Dentistry |
| | Lin Yi-Chun, Lecturer | NYMU, PhD program |
| Endodontics | Chief, Yang Shue-Fen, A Prof. | MS, The University of Iowa |
| | Chen Yi-Chen, Lecturer | NYMU, PhD program |
| Prosthodontics | Chair, Yip Shing-Wai, Lecturer | DSc, Boston University |
| | Yeung Tze-Cheung, Lecturer | MS, Northwestern University |
| | Tung Oi-Hong, Assist Prof | The University of Iowa, clinical fellow NYMU, PhD |
| Family Dentistry | Chair, Chang Hong-Ji, Lecturer | The University of Tokyo, Clinical fellow |
| | Chan Kong-Wan, Lecturer | MS, The University of Iowa |
| TPC (Total Patient Care) | Lee Shyh-Yuan, Prof | PhD, Boston University |
| | Wu Shih-Yun, Lecturer | NYMU, PhD program |
| Pedodontics | Chief, Shih Wen-Yu, Lecturer | UCLA, Clinical fellow, MS NYMU |
| Orthodontics | Chair, Kuang Shou-Hsin, Lecturer | University of Illinois, Clinical fellow NYMU, MS |
| | Liaw Yu-Cheng, Lecturer | |
| | Wu Tzu-Ying, Lecturer | Hospital of University of Freiburg, Fellow |
| Oral & Maxillofacial Surgery | Chair, Lui Man-Tin, Assist Prof. | University of Connecticut, Clinical fellow |
| | Kao Shou-Yen, Prof. | DMSc, Harvard School of Dental Medicine. MHA, Chan-Gun University |
| | Jason Lo, Assist Prof | University of Michigan, Research fellow NYMU PhD |
| | Yang Cheng-Chieh, Assist Prof. | PhD, University of Houston |
| | Wu Chein-Hsien, Assist Prof. | Hospital of University of Freiburg, Fellow |
| | Chen Ya-Wei, Lecturer | |
| Oral Patholgy | Chang Kuo-wei, Prof. | PhD, Northwestern University |

※ Volunterred Part time faculties: 50



B. Teaching

The department provides staffs with fruitful facilities and environment for seminar, website working equipment, rooms for discussion and conference. The unique PACS system for reading dental/medical images from the website. The profound contents in the e-learning platform comprised an outstanding environment for searching knowledge, literatures and places for teaching.



PACS Digital image system



e-learning platform



Monthly conference of Endo



Weekly conference of Pedo



Perio one to one instruction



Microscopic treatment in Endo

Resident presentation on every Tuesday morning 7:30~8:30 AM



The Tuesday morning 7:30~8:30 AM conference is one of the most important part in residents training. Critical comments are given by mentors. It might take a couple of months in preparing this stressful presentation, experienced by all resident/trainees. The topic of presentation, either review or study, covers various subspecialties from basic science to clinical cases series.

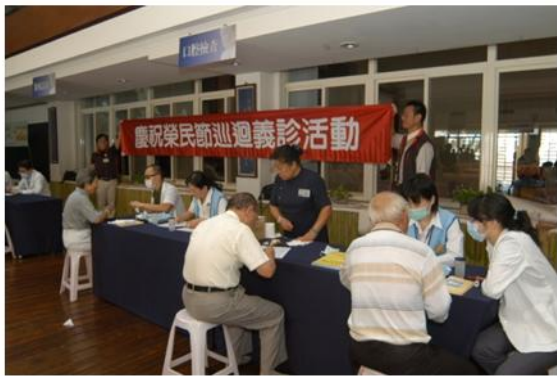
C. Society Services



2010.03.28 Community health care



2009.08.22 Community health care



2009.10.27 Community health care



2009.05.02 Community health care



Medical treatment for and physically or mentally handicapped children.



Dr. Kao Shou-Yen led String orchestra of Tian-Mu Jr. middle school to perform in Taoyuan veterans home.

Founding of **oral cancer patients society** supported by patients, families, & health care workers in July 5th, 2012 at conference auditorium, department of stomatology, Taipei-VGH.



Oral cancer is the fourth most common cancer in males of Taiwan. **Oral cancer** is associated with chronic irritating factors such as betel quid (BQ) use, smoking, and alcohol. While cigarette smoking and alcohol drinking are the major risk factors in western countries, betel quid use and smoking are major factors in the causation of oral cancer in Taiwan. About **2.5 million** people are BQ users in Taiwan. The incidence of OSCC in BQ users and smokers is around **100 times** higher than the general population. According to the data at Taipei-VGH, about 50% oral cancer patients were found to have their tumors ranking as stage III or stage IV at their first visit to the medical center. The 5-year survival of these patients is poor despite recent advances in the treatment modality. **Care** should be taken in the policy or strategy planning and performing the cancer detection/screening program. The chief health worker, **Miss Hai-Ling Deng**, said “we need to know what’s the role of our team-work in the screening and detection of oral cancer. More importantly, the passion and strong support should be given to the suffered and his families.” The **oral cancer patients network/club** is a breakthrough of the extension of social/health care from hospital to the family with substantial support of multi-tracks. This exercise was substantially functioning under the heavily engaged devotion by **Miss Deng**, **her associates**, and **Sun-Light charity foundation**.

IV. Research

A. Projects

| | 2009 | 2010 | 2011 | 2012 |
|---------------------|------|------|------|------|
| VGH Grouts | 16 | 20 | 14 | 16 |
| Outsourcing project | 7 | 7 | 8 | 8 |
| Total | 23 | 27 | 22 | 24 |

B. SCI Publication

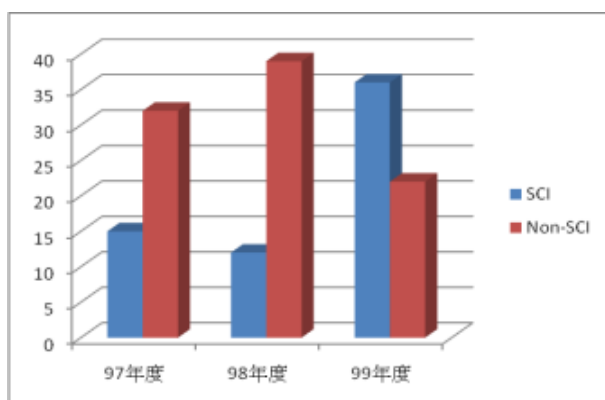
| Year/Number | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---------------------------|------|------|------|------|------|------|------|------|------|
| Department of Stomatology | 4 | 5 | 10 | 20 | 21 | 15 | 31 | 27 | 18+ |



VGH & Taiwan Union University System

榮臺聯大合作平台

推動臨床教學研究
拓展新發展方向



Taipei VGH Department of Stomatology
SCI/Non-SCI Medical theses statistics.



Translation medicine is
the future

C. Conferences



Dr. Che-Shoa Chang, the former department head, Dr. Shou-Yen Kao & Dr Wen-Liang Lo, in a group with ROCOMS fellows attended the 8th Asian congress of OMS at Bangkok, Tailand in 2008. Dr Shou-Yen Kao was the invited speaker in this congress giving a talk regarding the topic of “Surgical management of mandible prognathism”.



The fall academic conference of ROCOMS in 2009 was held in the meeting center of Taipei-VGH with a focus on the transformation of oral cancer. Professor Kwo-Wei Chang, leading the VGH/Yang-Ming research team in the exploration of the mechanism of oral cancer formation.



2012.1 Dr Larry Wolford was invited to give a speech in the topic of treatment planning and surgical techniques in orthognathis surgery in the conference center Taipei-Veterans General Hospital. The continued education was held by the ROC Association of Oral & Maxillo-facial Surgery and Taiwan Association of orthodontics.

International conferences



The Chief of orthodontics div., Dr Kuang Shou-Hsin was invited as guest speaker to Moyers orthodontics conference at Ann Arbor, Michigan St., USA in 2010



Dr. Kao Shou-Yen was invited as guest speaker to attend the 19th IAOMS at Shanghai, China, 2009



The department head, Dr. Shou-Yen Kao was invited as guest speaker in the 12th international congress on oral cancer, in Shanghai, China, 2008.



Dr Kuang Shou-Hsin was invited as guest speaker in the 5th Edgewise world ortho. Conference, at Xi-An, China, 2010



Dr. Shou-Hsin Kuang was invited as guest speaker to Chin-Dao, China, discussing the newer techniques development in orthodontics, 2010.



Dr. Shou-Yen Kao was invited as guest speaker to attend the 50th annual meeting of PCOMS at Manila, Phillipine, 2009.



The famous orthodontist, Dr. Larry Wolford, was invited to Taiwan to give a talk on the current trend of orthodontics treatment in the conference center of Taipei-VGH. The former president of Association of ROCOMS, Dr. Jia-Ning Du, gave the honorary remark to Larry because of their old friendship 30 years ago. Dr. Shou-Yen Kao, the current president of Association of ROCOMS hosted with other oral surgeons in the dinner to share experiences with Larry. The academy chair of Association of ROCOMS, Dr. Chun-Ji Liu, sent the gift of appreciation to Larry during the meeting. The conference was successfully held on Jan. 8th 2012 under the support from the Association of ROCOMS, Assoc. of Orthodontics, and Department of Stomatology, Taipei-VGH. The conference drew the attention of oral surgeons, orthodontists, many trainees and general practitioners with an estimate of around 200 attendees in the conference.



Dr Shou-Yen Kao, department head of stomatology, Taipei-VGH, took the presidency of Association of ROCOMS since 2011 March. The 24th annual meeting of Association of ROCOMS in conjoint with international conference was held in Chun-Shan Medical University on March 11th & 12th 2012. More than 8 international speakers and around 30 foreign attendees participated this conference. The conference also focused on the soft tissue and hard tissue management of the compromised jaw bone regarding to the preprosthetic surgery for dental implants. In all, the conference was successfully held in Chun-Shan with around 250 attendees. The sisterhood between both societies of oral surgeons of Taiwan and Japan was enjoyingly continued to the 5th year since 2008 with 2~3 exchanging invited speakers to attend to annual meeting on both sides.



2012 APDC as well as annual meeting of Chinese Dental Association in 2012 was successfully held at the international conference center in downtown Taipei from June 15th to 18th, 2012. The association of ROCOMS in conjoint with department of stomatology, Taipei-VGH sponsored the OMS session. Several international speakers were invited including 1 Japanese speaker, Dr. Tetsu Takahashi, the editor-in-chief of Asian J of OMS, 2 speakers from China, Dean Hung Jou, & Dr. Chen-Cheun Ho, the chair of OMS of Xi-An Jiao-Tung University, Dental

hospital, Dr. Nabil Samman, the past president of IAOMS. The former department head, Dr. Richard Chang & Dr. Mario Esquillo from Phillipine opened this session on the 18th June, 2012.

The annual meeting of Chinese Med Association was successfully held at the international conference center in downtown Taipei on June 25th & 26th, 2012. The department of Stomatology sponsored a session regarding the dental implants with recruitment of prosthodontists, periodontists and oral surgeons working together. The superintendent of Taipei-VGH, Dr. Feng-Yu Lin sent his welcoming remarks to open the session. Dr. Shing-Wai Yip, chair of prosthodontics div., and Dr. Yen-Tin Chen, the former president of Taipei Dental association chaired the whole session. The speakers included 2 oral surgeons the department head, Dr. Shou-Yen Kao, Prof. Da-Wai Chen, 1 periodontist, Prof. Lai Yu-Lin, chair of periodontics., 3 prosthodontists, Dr. Tze-Cheung Yeung, Dr. Ming-Lun Hsu, chair of department of dentistry, NYMU, & prof. Shyh-Yuan Lee, the Dean of school of dentistry, NYMU. The conference was also supported by the Yang-Ming dental alumni society & school of dentistry of Yang-Ming. In all, around 150 attendees came to this successful meeting.



**2013 Mar 2, 3 - Taipei-VGH & ROC Association of Oral & Maxillofacial Surgery
hosted the 2013 Taiwan Congress of OMS at NTU International Conference Center**

The 2013 Taiwan International Congress of OMS at NTU International Conference Center in conjoint with the annual meeting of ROCAOMS was successfully held in NTU international conference center on Mar 2, 3. Dr. Shou-Yen Kao, the president of ROCAOMS and the stomatology department chair of Taipei-VGH as well, invited more than 20 international guests from Germany, Japan, Korea, Singapore, Phillipine, & China to visit Taipei this time. There were around 40 foreign guests including trainees and spouse to attend this meeting. Using this conference, oral surgeons in Taiwan could had lots of chances to look at the rapid progression and modern trend of contemporary OMS from foreign speakers who brought us new knowledge and technology, especially, the computer assisted navigation surgery in the management of various diseases in the oral & maxillofacial area. Meanwhile, the conference also provided enough opportunities to allow all guests to recognize the ability of our society to host any important academic events in front of us. The success of this meeting paved an optimistic future for our OMS association to bid for the 2018 Asian congress of OMS or possibly the IAOMS meeting.





2013 Taiwan Congress on

Oral and Maxillofacial Surgery

March 2-3 NTUH International Convention Center



| 3月2日 301會議室 | | 3月3日 301會議室 | |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 主持人：吳哲輝、陳遠謙 | | 主持人：彭伯宇、陳韋全 | |
| 9:00-9:40 | Updates in treatment modalities and techniques for compromised alveolar ridge augmentation in implant therapy Dr. Myung-Jin Kim | 9:00-9:30 | Maxillofacial injuries - trauma management in war and peace Dr. Victor Van |
| 9:40-10:20 | New Trend in Orthognathic Surgery Dr. Park, Je-Uk | 9:40-10:10 | Oral Cancer in Taiwan - the ENT perspective Dr. Sheng-Po Hao |
| 主持人：黃模基、張陽明 | | 主持人：郭生興、歐嘉得 | |
| 10:40-11:20 | The Use of CAD - CAM in Orthognathic Surgery Dr. Jin Young Choi | 10:30-11:30 | Virtual 3D maxillary tumor marking – exact intraoperative coordinate mapping improve post-operative radiotherapy- Technology, principal consideration and clinical implementation. Dr. Majeed Rana |
| 11:20-12:00 | Harnessing the Potential of Fibula Osteoseptocutaneous Flap in Segmental Mandibular Defect Reconstruction Dr. Fu-Chan Wei | 11:30-12:00 | Navigation-assisted surgery for midface and maxilla reconstruction Dr. André Michael R. Eckardt |
| 主持人：郭英雄、雷文天 | | 主持人：Mario Esquillo、黃茂栓 | |
| 13:30-14:10 | Oral manifestations of HIV-infected patients Dr. Kazumasa SUGIHARA | 13:30-14:00 | Free flap reconstruction for oral & maxillofacial soft tissue defects Dr. Ji Tong |
| 14:10-14:50 | Current status on the diagnosis and treatment of oral cancer Dr. Masanori SHINOHARA | 14:00-14:30 | Surgical Correction of the Cleft Jaw Deformities: Conventional Orthognathic vs Distraction Osteogenesis Dr. Jong-Ryoul Kim |
| 主持人：張哲壽、陳萬宜 | | 主持人：夏毅然、蔡國陽 | |
| 15:20-16:00 | Mouth-opening exercise-based treatment algorithm for temporomandibular joint pain and trismus Dr. Kenichi Kurita | 14:50-15:20 | Application of CAD/CAM-assisted technique with surgical treatment in reconstruction of the mandible Dr. Huang HZ |
| 16:30- | 會員大會 | 15:20-15:50 | Incision and drainage of a submandibular space infection using mandibular block and superficial cervical plexus block Dr. Rolando Jaime R. Aldeco |
| 18:00- | 大會晚宴 | | |

現場報名費用：
 會員 3500
 非會員 3500
 相關費用 3500
 主辦單位：中華民國口腔顎面外科學會 台灣大學附設醫院牙科部
 大會日期：102年3月2~3日 大會地點：台大醫院國際會議中心 連絡電話：02-27063050

Organizer: Taiwan Association of Oral and Maxillofacial surgeons
Registration Fee:
 Foreign attendees: on site registration for foreign attendees
 Senior staffs: NT 3500
 本學年民國102年度由牙科學會第十四屆第一次會員大會暨第二十五次學術研討會榮獲頒發國際貿易局「推動國際會議展覽在臺辦理計畫」補助
 贊助單位：經濟部國際貿易局

Congress Honorary Chair:
 Co-Chair : Dr. Chun-Fu Lin
 President of TAOMS : Dr. Sung-Heng Kuo
 Academy Chair of TAOMS Congress : Dr. Shou-Yen Kao
 : Dr. Shou-Yen Kao

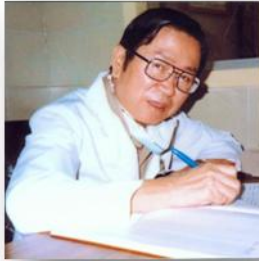
D. Awards

| | Name of awards | owners | resources |
|----|---------------------------------------------------------------------|-----------------------------|-----------------------------------------------------|
| 1 | 2006 Med tech renovation 2 nd prize awards | Kao Shou-Yen | Taipei Veterans General Hospital |
| 2 | 2007 Med tech renovation 3 rd prize awards | Lai Yu-Lin | Taipei Veterans General Hospital |
| 3 | 2008 Taiwan perio board exam oral 1 st prize award | Huang Ming-Shia | Taiwan Academy of Periodontology |
| 4 | 2008 Taiwan perio clin research article 2 nd prize award | Wang Chien-Hsing | Taiwan Academy of Periodontology |
| 5 | 2008 Taiwan perio basic research article 1st prize award | Kuo Nai-Chia | Taiwan Academy of Periodontology |
| 6 | 2008 Taipei betel prevention/OSCC screening | OMFS division | Department of Health, Taipei City Government |
| 7 | 2008 annual dental campaign, operative part 1 st prize | Lo Yu | Association for Dental Sciences of ROC |
| 8 | 2008 Chinese Med Assoc article 1 st prize award | Chen Ya-Wei | Chinese Medical Association-Taipei |
| 9 | 2008 ROCOMS 1 st prize award/oral presentation | Tu Hsi-Feng | ROC Association of Oral and Maxillofacial Surgeons |
| 10 | 2009 ROCOMS 1 st prize award/oral presentation | Lo Wen-Liang | ROC Association of Oral and Maxillofacial Surgeons |
| 11 | 2009 「 Dr. Chang Wen-Kuei perio 」 2 nd prize award | Yan Ruei-Ying | Chi Yuan foundation |
| 12 | 2010 「 oral cancer prevention 」 1 st prize award | Dept stomatol | Bureau of Health Promotion, Department of Health |
| 13 | 2010 Taiwan perio basic research 3 rd prize award | Chang Chih-Chia | Taiwan Academy of Periodontology |
| 14 | 2011 Taipei-VGH outstanding awards of Drs | Lo Wen-Liang Chen Ya-Wei | Veterans Affairs Commission, Executive Yuan, R.O.C. |
| 15 | 2011 Taiwan perio basic research 1st prize award | Chen Hsuan-hung | Taiwan Academy of Periodontology |
| 16 | 2011 「 Dr. Chang Wen-Kui perio 」 2 nd prize award | Wei Yu-Ru | Chi Yuan foundation |
| 17 | 2011 Taiwan perio clin research article 2 nd prize award | Li Wan-Ting | Academy of Endodontology, R.O.C |
| 18 | 2011 Endo annual meeting 1 st prize award | Chen Chih-Heng | Academy of Endodontology, R.O.C |
| 19 | 2011 ROCOMS 1 st prize award in board exam | Yu-Wei Chou | ROC Association of Oral and Maxillofacial Surgeons |



- A. Dr. Nai-Chia Kuo, 2008 Taiwan perio basic research article 1st prize award
- B. Dr. Chien-Hsing Wang, 2008 Taiwan perio clin research article 2nd prize award
- C. Dr. Ya-Wei Chen, 2008 Chinese Med Assoc article 1st prize award
- D. Dr. Wen-Liang Lo, 2009 ROCOMS 1st prize award/oral presentation

V. Resources & Career



Dr. Chin-Yuan Hwei

Dr. Chin-Yuan Hwei was the one who founded the dental clinic of Veterans General Hospital in 1959. Dr. Hwei graduated from National Defense Medical College. He was also the pioneer dentist having

graduate
training in
United

States. He had been visiting fellow in oral surgery, dental school of Yale university & master trainee in clinical periodontics program of New York University in early 1950~. After coming back to Taiwan, he helped to establish the dental clinics of VGH. Just starting from 5 dental chairs and belonging to department of Surgery, Dr Hwei further made



effort to build the independent territory of dentistry in 1973 and worked out the integrated department of dentistry by establishing 5 subspecialties of Oral & Maxillofacial Surgery, Prosthodontics, Periodontics, Endodontics, & Pedodontics. The inward care unit & operation room of OMS of was also founded in 1975. At the same time, Dr Hwei further designed a brand



new dental clinic at the 4th floor in the 2nd out-patient-clinics building providing full dental services from 32 dental chairs. In the meantime, Dr Hwei helped to establish the founding of dental school of National Yang-Ming Medical College in August 1976. He led the deanship from 1976~1979. The staffs of VGH also took part in teaching dental students of Yang-Ming.

Dr. Chao-Hsian Chan

Dr Chan succeeded the head position of department of Dentistry & the deanship of school of dentistry of Yang-Ming in 1979. The priority for him was to portrait the future need of the developing department in dentistry. In 1983, the department was moved from the 4th floor to the 7th & 8th floor of the same building to accommodate the volume of 100 dental chairs. The department was officially ranked as the first class department in hospital and formally had 5 divisions of Prosthodontics, Periodontics, Pedo/Orthodontics, Family dentistry, and Oral & Maxillofacial. Dr. Chan graduated from National Defense Medical College. In his career, he had been the president of Chinese Dental Association (Taiwan) and Association of Prosthodontics. Under his supravising, the departments of dentistry of TaiChung-VGH & KaoShiung-VGH were sequentially founded in 1983 & 1990. Under his leadership, the department had sent many young attending physicians to receive graduate training in the United States. Around 10 staffs were sent to take 1~4 years of graduate programs, either clinical or basic fields, in different dental schools (2 in Boston University, 1 in Tufts University, 1 in Northwest University, 3 in Iowa University, 1 in UIC at Chicago, 1 in UCLA, 1 in Harvard University). Dr Chan was honorarily retired in 1997.



台北榮民總醫院牙科部詹兆祥主任榮退紀念
中華民國八十六年一月十六日

Dr. Ze-Hwai Lin

Professor Ze-Hwai Lin was graduated from National Defense Medical College. In his early career serving at Veterans General Hospital, Dr. Lin had been sent to Saudi Arabia to join the medical service activity by the government support. After coming back from service, Dr. Lin was sent the hospital to have graduate training in United States as clinical fellow in dental school of Northwestern University & University of Illinois at Chicago for 2 years. He had been the chair of division of prosthodontics and department head from 1997 to 2002. During his term of department head, Dr. Lin at the same time took the deanship of school of dentistry of Yang-Ming. In year 2000, the school of dentistry was officially approved by the Ministry of Education as an independent college in the Yang-Ming University. He had been the president of ROC Association of Prosthodontics & Association of Hospital Dentistry. (In the Taipei-VGH hospital tournament, the basketball team of Department of Dentistry got the championship in 1990)



*Honorary Prof. Richard Che-Shoa Chang – A
respectful former Dean & Oral surgeon*



Professor Richard Che-Shoa Chang earned his DDS degree from National Defense Medical Center in 1968. He had Oral & Maxillofacial Surgery (OMS) residency program in Triservice General Hospital (Taipei) from 1970 to 1975. He received advanced training in OMS surgery at Medical Center, University of Alabama in Birmingham from 1979 and earned his Master degree in 1981. Dr. Chang was Dean at the School of Dentistry, National Yang-Ming University (2000~2008) and Chairman of Dental Department, Taipei Veterans General Hospital (2003~2008). He retired from official position in Jan. 2008. At present time, he is chair professor at the dental school, China Medical University. Professor Chang actively devoted in the professional career from holding the President of the Taiwan Association of Oral & Maxillofacial Surgeons (1991-1993), President of Asian Association of Oral & Maxillofacial Surgeons (1998-2001), the member of Education Committee of IAOMS (1999~2001), and the President, Association for Dental Sciences of the Republic of China (2001~2003). He was a Chairman of Membership Committee of Asian Association of Oral and Maxillofacial surgeons. (2001~2009) He was the chief of the Division of Oral & Maxillofacial Surgery at Taipei Veterans General Hospital for 18 years. He had a long period of teaching career from director of Institute of Oral Biology (1996-1998) and Institute of Dental Science (1993~2001) at Yang-Ming. During his outstanding academic career, professor Chang has authored 140 papers in scientific journals and OMS specialty.

His clinic interests is the Orthognathic Surgery and Oral Cancer Surgery and his research interests is in the development of stem cell/ tissue engineering for bone regeneration. Meanwhile, professor Chang also involved in correlated study in oral cancer and cooperated well with the basic scientists in this field. On Richard's career, he got many awards from his career; such as Research Awards from National Research Council, Creation Awards of Medicine from Veterans General Hospital (1988) and a Superior Alumni of National Defense Medical Center (1996) and Golden Award of Chinese-Taipei Dental Association (1999). He was offered a distinguished professor from National Yang-Ming University after retirement. (2008) Dr Chang further extended his momentum in Taipei-VGH to see patients and teaching in OPD. In the 2012 Asian congress of Oral & Maxillofacial Surgery in Bali, Indonesia, he was honored as honorary fellow of Asian Association of Oral & Maxillofacial Surgery.



Message from the Dean of School of Dentistry, NYMU



The Department of Stomatology at Taipei Veterans General Hospital (DOS-TPVGH) is going to celebrate its 53rd anniversary. As the dean of School of Dentistry of National Yang-Ming University (SOD-NYMU), I would like to take this opportunity to congratulate professor Kao, who is currently the director of DOS-TPVGH, and all the staff of DOS-TPVGH for the excellent oral health services

you provide to people at Taiwan and beyond.

Actually SOD-NYMU was founded nearly four decades ago, with almost all teaching faculty coming from DOS-TPVGH. Thanks to the vital contributions from staff of DOS-TPVGH, SOD-NYMU has grown up to be one of the best dental schools in Taiwan and possibly in the world. In the meantime, with strong support from all the past and present superintendents of TPVGH and powerful leadership from former directors (professors CY Hui, CH Chan, TH Lin, and CS Chang), DOS-TPVGH continues to prosper and live up to its reputation as one of the best medical centers and teaching hospitals in Taiwan, conducting clinical researches and publishing academic papers, whilst providing state-of-the-art oral health services, including prosthodontic, endodontic, periodontic, pedodontic, orthodontic, family dentistry, operative dentistry, as well as oral-maxillo-facial surgery and total-patient-care services.

The environmental features in Taiwan have changed significantly in the past decades, including the emergence of internet, and Taiwan launched its national health insurance in 1995, to name a few. It is getting more and more challenging for a dental health service providing institution boasting 20+ beds, 100+ dental chairs and nearly 200 staff, such as the DOS-TPVGH, to keep its financial balance while strive on academic achievement. With the outstanding leadership of professor Kao, DOS-TPVGH has done it with remarkable success.

It is my sincere hope and I have absolute confidence in that DOS-TPVGH will go boldly in to the frontier where only few hospital stomatological departments will achieve, and I look forward to an even closer cooperation between DOS-TPVGH and SOD-NYMU in the future, not only with respect to teaching & training but also in issues such as clinical researches & service development.

A 30-year collaboration with School of Dentistry, NYMU



The chairman of department of dentistry, National Yang-Ming Dental School, prof. Ming-Lun Hsu, pronounced the information to promote the collaboration between Yang-Ming & Department of Stomatology, Taipei-VGH, in teaching, clinical training and profound resources of research. Through an above 30 years of developing, the school of dentistry, NYMU currently sent 25~30 year-5 students to VGH for Internship training, and graduate students as trainee in a 2~4 years of clinical programs. Prof. Hsu stated that the **mission** of Yang-Ming is to become the top domestic dentistry education center and an internationally acclaimed oral medical science research and development center. The School also fosters basic dental science research personnel and a well-qualified teaching staff. The school offers a **six-year, self-financed program**. Till 2012, the School has 30 full-time faculty members – fifteen with a PhD degree and the other fifteen with a Master degree. With strong enthusiasm in knowledge-sharing and expertise, each of them contributes greatly in dental education, specializing in disparate fields of dentistry including basic, clinical, and community dental sciences. The **teaching** is conducted through problem-based learning (**PBL**), offering professional training such as clinical problem guidance in basic dental sciences, and forum discussions on the most up-to-date topics. The students are well-equipped to face future challenges and make informed professional choices. With strong intention of **Research achievements** for the school,

each of the faculty members is engaged in rigorous and groundbreaking research, and publishes the results in international journals of dentistry. The topics under investigation include: Oral Implantology, Oral Biomaterial, Oral Histoengineering, TMJ physiology, Oral Microbiology, Biology, Periodontal Regeneration, Genetic Dereglulation for Oral Pathogenesis (e.g. Oral Cancer), Oral Health Policy, and Mechanisms of Toothache.

Research focus – A teamwork led by professor Chang exploring the pieces of puzzles in Oral Cancer (ranked 4th in all malignancies of Taiwanese males)



Oral squamous cell carcinoma (OSCC) is a prevalent malignancy worldwide. MicroRNAs (miRNAs) are short, non-coding RNAs that regulate gene expression by RNA interference and they are crucial for tumorigenesis. In collaboration with Prof. Shu-Chun Lin, our studies have been focused on elucidating the roles of oncogenic miRNAs in the genesis and progression of OSCC. We identified that miR-211 mediates vascular invasion to worsen the survival of OSCC patients (2008 J Dent Res). We also showed that miR-31 is an oncomir overexpressed in OSCC, and it modulates pathogenesis by targeting FIH gene, which further activates hypoxia cascade for OSCC progression (2010 Cancer Res). In addition to functional insights, we also developed translational platforms for the diagnosis uses. The salivary and plasma miR-31 level in patients was validated as the early diagnosis markers for OSCC (2011 Oral Dis; 2012 Head & Neck). Areca chewing is strongly associated with the high prevalence of OSCC in Taiwan, while the molecular mechanisms of areca in OSCC are still obscure. We identified that areca nut extract (ANE) treatment activates NF- κ B and MAPKs for COX-2 up-regulation and other genetic disruption (2005 Int J Cancer, 2007 Clin Cancer Res, 2008 Oral Oncol, 2012 Head & Neck). ANE also induced the senescence of normal oral keratinocyte and normal oral fibroblast, which produced cytokines and MMPs to modify tissue microenvironments for neoplastic process (2006 Carcinogenesis; 2008 J Dent Res). Recently, ANE was found to activate hypoxia cascade and induce autophagy, which protected OSCC cells from the ROS injuries in our laboratories (2010 Autophagy). We have established transgenic mouse lines which express ectopic oncomirs in basal keratinocytes. Since these mice have high susceptibility to oral carcinogenesis, we are validating chemoprevention protocols and regimens against OSCC metastasis using this model (2010 Int J Cancer). We are also establishing a model for ANE-associated oral oncogenesis on the basis of these transgenic mice to further dissect OSCC pathogenesis. Financial supports of our laboratories are mainly from National Science Council and Taipei Veterans General Hospital. Several attending doctors and senior residents from Oral Maxillofacial Surgery, Department of Stomatology are joined investigators and key clinical collaborators of our laboratories. Parts of laboratory facilities are shown below.



Ting Yi Lue (Tiffany Lue) –Fellowship Experience in Taipei Veterans General Hospital



In the summer of 2010, I had an amazing opportunity to participate in a fellowship program hosted by one of the most prestigious hospitals in Taiwan: Taipei Veterans General Hospital. The program allowed me to fully explore the vast possibilities of a career in dentistry, and working in a large and busy hospital was an invaluable experience. Becoming a dentist was always something that attracted me, and my time at the hospital further confirmed how challenging and rewarding the work of a dentist can be.

During the summer before my senior year in college, my family and I went back to Taiwan to visit relatives and I found the dental program offered by TVGH. I applied to the fellowship program right away and was lucky to be accepted.

On the first day of the program, I had a chance to meet the head of the dentistry department, Dr. Kao. We discussed what I would like to get out of the program and he arranged for me to observe and shadow each of the five specialty divisions for one week each. There were above 100 dental units in the Out-patient-clinic building and 24 inward beds for Oral & Maxillofacial Surgery patients. All division chiefs and department chair had their own experience of post-doctorate graduate training in the United States. Dr. Shou-Yen Kao, department Chair, was an oral surgeon and earned his DrMSc at Harvard school of dental medicine in 1996. Dr. Yu-Lin Lai, chief of periodontics, had her master at Tufts dental school from 1994-96'. Dr. Shu-Fen Yang, chief of endodontics, earned her master degree at dental school of Iowa University in 1997. Dr. Kuang, chief of orthodontics, had his fellowship in UIC dental school & Dr. Shih, chief of Peodontics, had his fellowship in UCLA dental school respectively. That's why they could request their residents to present in English at their seminar or case conferences. The first specialty I went to was the oral surgery division. I was able to watch some of the more complicated procedures that dentists performed, and it was fascinating to see how the dentist was able to work so skillfully and quickly while also taking the time to comfort the more nervous patients.

The second specialty I visited was periodontics. This was a completely new and interesting experience for me because I got to see serious periodontal conditions and diseases that I didn't get to see at a general dentist's office. Being able to see the more

advanced stages of periodontitis and how much more complicated the treatments allowed me to understand the importance of treating symptoms at an early stage. After a week in periodontics, I was put in the orthodontics division. It became clear to me that this specialty is quite unique in that each case was a long-term project. As I watched orthodontists interact with patients, I realized that the long-term nature of these procedures allowed the orthodontist to build a strong relationship with each of their patients. The fourth specialty was endodontics. I learned that most of the root canals performed at the hospital were more complicated cases that were referred to the hospital by a general dentist. It was quite fascinating to observe the dentists performing procedures with the



help of a microscope. The microscope allowed the dentist to have a clear view of the pulp cavity and served as a guide to help the dentist perform endodontic treatment quickly without sacrificing any quality. My last week of the fellowship was spent with the pediatrics division. I was quite surprised to learn that even young children could develop serious dental problems as a result of their eating habits. Interestingly, they also provided comprehensive treatment under general anesthesia for severely mental retarded children. Seeing how dentists patiently calmed their young patients during treatment and explained the treatment in detail with worrying parents made me see that dentistry is really a profession that takes great patience and compassion.

In addition to observing dentists working in each division, I also had a chance to attend their weekly clinical meetings. During each meeting, there was a presentation on a topic or a case study presented by students and a doctor. By attending these meetings, it allowed me to see how dentistry is a career that involves teamwork, collaboration, and lifelong learning. Not surprisingly, I saw many clinical or scientific articles were published in the international journal. Before I left, Dr. Kao told me that he intended to bring this institute to one of the best dental center in Asia with didactic tracks on clinical services, teaching and research. Dr. Kao also encouraged me to make my best effort in pursuing the career in the dental science.

After this five-week fellowship program, I learned that the field of dentistry was quite diverse and offered a number of options that were each interesting and rewarding in their own way. It was exciting to be able to take a closer look at so many different specialties in dentistry, and I am extremely thankful that I had such a great opportunity to learn and explore more about a career in dentistry. My experience at Taipei Veterans General Hospital definitely helped strengthen my passion of becoming a dentist.

International students of graduate programs

2 years of Taiwan in my Life...

Anne Margaret H. Gonzalez, DMD

Country : Philippines

MS program in Oral and Maxillofacial Surgery



Time flies so fast. It has been almost a year now since I came to Taiwan for my masters program! Oh well... I can still remember when I was a newbie! A lot of people I've met have asked me...Why Taiwan? Why a non-Chinese speaking like me would choose to study in a Chinese speaking country. So what ?! Books are in English; Articles are in English as well. Second question would usually be, Why National Yang-Ming University (NYMU)? Even before entering this school, I have learned from some Taiwanese friends and Filipino friends studying in Taiwan that NYMU is the best Medical School in Taiwan. Upon entering Taiwan, I have attended some seminars and lectures on studying abroad and I have learned that in 2008, NYMU ranks 34th Top Universities in the World! I mean, in the world! That's a high rank. I came in September 2008; I can say that the most difficult times of adjustment period was the first 2-3 months. Adjustments include hearing a different language every time and not understanding a single thing on what people are talking about, different kinds of food, different weather and difficulties in living by yourself - far from your family and loved ones whom you can count on, being completely unaware of my whereabouts in a completely different place, being unable to ask for directions, and of course there's such a thing as culture shock. I am the second international student to study in the department of dentistry and it isn't easy for them to have me but they did their best in helping me in whatever way that they can. I am amazed by the number of cases they handle everyday. I have been exposed to a lot of Oral and Maxillofacial surgery cases in my 2-yr hospital training and residency in Philippines but I was overwhelmed by the number of cases they handle in TPE-VGH every single day, the system of learning, the residency program, the equipments that they have, and the way the nurses are well-trained and adept in the field of dentistry. And also met some VIP's who have their oral problems treated in TPE-VGH, which simply proves that TPE-VGH is one of the best hospital of choice of people from all walks of life. As I often say, Taiwan is my second home now and I will always go back to Taiwan whenever I have the chance and I will always have good memories.

***Trainee from the oversea* — Dr Hsing-Jie Du, DDS earned her dental licensure in NY. She joined the 1-year internship program to take the board of practice licensure of Taiwan. She performed exceedingly well and seemingly like a senior instructor to her fellows of class 2011 with passion and proactiveness.**



After earning a DDS degree from New York College of Dentistry (NYUCD) and having practiced in Manhattan and New Jersey for a few years, I packed my bags back to my hometown in pursuit of a dental license in Taiwan. According to the newly reformed Taiwanese dental licensure regulations, all foreign trained dentists need to first pass the Part I written dental examination, following one year internship at a selected hospital, and then pass the Part II written dental examination in order to become qualified for the application of a Taiwanese dental license. At the time when I passed my first part exam and was preparing for my internship program, Taipei Veterans General Hospital (Taipei VGH) released only one spot for this internship program and I was luckily enough to obtain the spot. Hence, I've begun my one year exciting internship life.

In the US, most college graduates, no matter in what majors, are qualified to apply for a 4-year dental school if a list of the academic requirements have been fulfilled. In fact, most dental schools prefer to select the students with different academic backgrounds or working experiences prior to apply for a dental school. The reasons are first the tuition for both dental and medical schools are extremely expensive, people who have been selected to become dentists or doctors need to be certain about their decision. Secondly, schools wish to have more mentally mature students to handle not only the academic stress but also patients' management.

Most American dental schools students start treating patients on the 3rd year of their dental education. NYUCD, for example, has their own student clinics within the school; hence, patients understand that they are treated by student doctors under the supervision of licensed dentists. One thing impresses me the most is how an intern doctor at Taipei VGH has to act as an experienced dentist while performing his/her first-ever procedure. The intern doctors here have to handle pressure not only from themselves but also a great deal from patients' demanding of efficiency and excellence. Aside from heavy clinical loads, intern doctors have journal readings, discussions, reports, presentations...etc. It is a challenge for both mental and physical endurance.

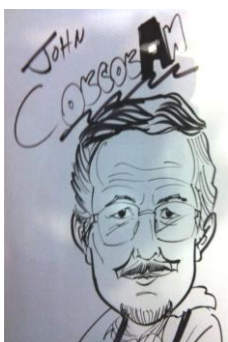
A great difference between NYUCD and Taipei VGH is patients' management. At NYUCD, once a patient is assigned to a student doctor, he/she is responsible for the diagnosis, treatment plan development and all the treating procedures. Each student doctor at NYUCD is assigned to one dental clinic for the entire 3rd and 4th years. At each student clinic, there is one director in charge of the whole activities of the clinic as well as faculties from different specialties at all time. Before each clinic session, student doctors look for the corresponding faculties for assistance according to patients' treatment plan of the day. If a procedure requires multiple visits, the same faculty will be responsible till the completion. And if a procedure requires specialists' assistance, the patient will be referred to a specialist-training dentist located at the adjacent building and transfer back to the same student doctor after the work is completed. The advantages for such system are that student doctors take responsibility for each treatment and have learned to build up a good doctor and patient relationship, and some treated patients will continue seeking the same student doctors' care after their graduation.

In the US, a majority of dentists start practicing as general practitioners (GP) after their graduation, and only fewer students will pursue for specialty training since a financial issue will be seriously considered. Once a student moves to a specialty career, he/she will no longer be allowed to do any procedure beyond his/her specialty. For example, an endodontist won't be allowed to do OD filling, crowns or ultrasonic scaling...etc. In other words, this system would ensure both GPs and specialists can work symbiotically. Hence, in schools, the training is mainly focused on diagnosis and how to coordinate a treatment plan with different specialties, not so much on procedures within each specialty.

At Taipei VGH, interns rotate to different departments and grasp as much knowledge as possible within the rotating period. Although there may be limitations to the works done by interns, interns are allowed to observe more advanced works performed by senior doctors, that would grant interns opportunities to learn new materials. However, the drawbacks are intern doctors may lack experience in developing long term treatment plans, and patients might suffer from adjusting new treating doctors at each department, that would result in a lack of trust and loyalty to one dentist for patients.

As the internship nearly comes to the end, I feel I have really learned a lot from it. First, my ability of making a power point presentation has certainly been improved from 0 to 60%. From the rotation between each department, I am able to obtain answers for those questions unsolved for ages. I can't even believe I would ever say so, but "it is good to be a student again!" It is great to be able to ask questions, to make mistakes, to observe procedures and to have someone guide you; all these privileges will be vanished once a student is graduated and steps outside the classrooms. So, for me, it is an intense year but also a relaxed year for me.

Dr. John William Corcoran - A respectful friend from the USA with a 30-year close friendship with Department of Stomatology, Taipei-VGH and Yang-Ming



Dr. John William Corcoran was a Professor and Chairman of Department of Pediatric Dentistry, Medical University of South Carolina. His specialty is in Pediatric Dentistry including Handicapped Children, Dental Trauma, Sedation and Fluorides. He is interested in Psychology/Counseling and applies hypnosis to resolve anxiety of treating patients. He was first



invited as a Visiting Professor supported by National Science Council for teaching undergraduates in the National Yang-Ming Medical College and worked at the Dental Department of Taipei VGH in 1985 to 1986. During the six-month stay, Dr. Corcoran has built long and close relationship with Taipei VGH and National Yang-Ming University. In order to accept an invitation to teach in Taipei from September 1, 1989 to February 28, 1990, Dr. Corcoran retired from full time teaching at Medical University of South Carolina on August 31, 1989, and his professional status and academic appointment after August 31, 1989 was Professor Emeritus of Pediatric Dentistry in the College of Dental Medicine. He gave a lot of talks in Taipei; the nearest one was given in October 3, 2001 titled "Practical Applications of Hypnosis to Dentistry". In addition to the above official invitations, Dr. Corcoran has re-visited Taiwan several times to see his old friends here by his personal trips. One of his letters can express his feeling to Taiwan, he wrote "I am homesick for Taiwan. I anxiously wait the time that I can return once more to see you and many friends. ---". This is our forever friend, Dr. John



William Corcoran, to his valuable friendship and continuous efforts to us. "We all missed him and his well-cooked chocolate" said by a senior staff of pedodontics in VGH. Professor Dai-Chian Chen & her classmate Dr. YS Hsu, former staff of Taipei-VGH, visited this respectful old friend in South Carolina 2012 August.

Dr. Shu-Yon Wang- A Pioneer Mentor in Department of Dentistry of Taipei-VGH/Yang-Ming



Crossing a 30-year-period of time when we stood at the brand new waiting hall of the department of stomatology locating at the 7th & 8th floors of the 2nd OPD building of Taipei-VGH, only very few senior staffs had the memory of working at the 4th floor of the former location of the old department of dentistry. While old memory gradually shed away year by year, we could hardly forget few respected mentors who had taught us 30 years ago. Professor Shu-Yong Wang is the right one having been here while most of us were junior and young in school or department. Professor Wang gave lectures of morphology in Yang-Ming medical college and had the specialty of orthodontics in clinics. He was the first pioneer orthodontist in our department. Professor Wang graduated outstandingly from National Defense Medical University in 1954, promoted as instructor in school of National Defense, Associate professor in 1969. He extended his graduate training in orthodontics in dental school of Columbia university, New York, USA from 1971~73. After that, he came back to teach in Yang-Ming and practiced in dentistry department, Taipei-VGH. He has been assigned as representative of our government to attend Western Pacific Regional Committee 10th session of World Health Organization 1962 to gave the talk regarding "Water fluoridation in school aged children in Taiwan". During lecturing in Yang-Ming he was granted by the National Science Council for 2 years with significant publications. In his career, more than 20 articles were published. He is now the Chair of dental department of Central Clinic Hospital, Taipei.



*The system establisher and pioneer in the treatment of
handicapped and systemically compromised pediatric patients*

Dr. Hsiao-Fann Chia



Dr Chia graduated from school of dentistry, Taipei Medical college in 1971 and was enrolled to Taipei-VGH as resident in 1972, promoted as attending Dr. in 1977. She was sent by hospital support to Eastman Medical center, Rochester, New York the USA from 1980 to 1982. This graduate pedodontics experience was extremely rare at that time in Taiwan. Dr Chia brought back her experience to establish the system of the pedodontics specialty, a unique and pioneered landmark across the field of dentistry and pediatrics fields in Taiwan.

Dr. Chia was the first pioneer to use Nitrous oxide (N₂O) in the sedative treatment of pedodontics patients who were afraid of dental chair, needle, dental procedure, or local anesthesia. The growth of economy in Taiwan drove the demand of dental health care. Yet, the medical/dental knowledge in general population still lagged behind. The milk-teeth-syndrome was so popular in Taiwan. Dr Chia made effort to devote her time and momentum for 30 years in conjoint with anesthesiologist, pediatrician to establish the standard treatment sequence to provide welfare to more than 4000 pedodontics patients who were incooperative, handicapped, or systemically compromised in need of more medical care. This concept was further commonly accepted in most medical centers in Taiwan to provide services to pediatric patients. Dr. Chia also devoted her time to educate young staffs in dental school of Yang-Ming University & Taipei-VGH. Dr. Chia also promoted lots of young staffs to the specialists of pedodontics, who made great contribution to the health care of children in this country. Dr. Chia was indeed the system establisher & a respectful mentor in the fields of pedodontics in Taiwan.



**A career shift from the 40-year-service in Taipei-VGH to Cheng-Hsin hospital-
Dr. Hong-Ji Chang, Former Chair of Family Dentistry**



Dr. Hong-Ji Chang, former chair of family dentistry, was a specialist in prosthodontics and had been the chair of prosthodontics division from 1997 to 2005. Afterwards, he undertook the chair position of family dentistry until he retired on Jan 16th 2013 after he served in Taipei-VGH for 40 years. Dr. Chang graduated from Kao-Hsiung Medical college, school of dentistry in 1973. He was enrolled as resident of VGH in 1975, and was promoted as attending Dr. in 1980. He was sent to Saudi Arabia for a mission of a 2-year service and was sent to Japan for a 1-year fellowship training from 1983~1984. Dr. Chang was responsible and had great contribution in editing the Journal of Dental Science of Taipei-VGH for more than 10 years. Dr. Chang was honorarily invited to take the chair position of department of dentistry in Cheng-Hsin General hospital, which is just neighbor to Taipei-VGH. This paved a good way and opportunity to further more enroll our well-trained young staffs from Taipei-VGH to join his new team in Cheng-Hsin.



VI. Activities - Education, tournament, celebration, fun...



Parties on the pool side – There were around 45 new interns joining the great family of the Department of Stomatology. They came from 6 different dental schools from the South to the North of Taiwan. During the 1-year internship training period, they lived & took duties in the Taipei-VGH, shared experiences from the challenge of clinical work, and built confidence in the first step of their own professional career. The welcoming party on the pool-side has been successfully held for them from 2008 to 2010.



1959初創時之中央大樓

1989年中正樓落成啟用

2009年科技大樓落成啟用

Table tennis (Ping-Pong compaign)



A minor tournament of table tennis gradually became one of the routine and important social events in the Department of Stomatology. Not only the young staffs of residents and interns showed their skills in this energetic sports, the senior staffs also participated in this game with great momentum and engaged

in a continued training to challenge themselves in 365 days of the whole year. Currently, the senior-staff team with an average age of above 55 no longer gave way to the 25-year-old young-staff team. The lady young staffs (Dr YC Hseih, Dr HJ Chan, & Dr YS Cheng) graduating from the Yang-Ming university, has been representatives of the school team with their names on the board of ranking. Right now, they became the major strength of the team in the Taipei-VGH and Veterans department of central government to compete with fame and honor in the presidential cup of the whole country. In the meanwhile, the little tournament with competition between different specialties increased the degree of entertainment of this special sport in our department. Dr Shing-Wai Yip, Dr Oi-Hong Tung, Dr Shyh-Yuan Lee and Dr Shou-Yen Kao are the 4 major forces of the senior group. Miss Mary Lee as new comer in this sports demonstrated her consistency as well as enthusiasm to gain respect in learning this high technical skills of table tennis.

Department of Stomatology Members on Beitou Hills Trail.

The fleet peek locating at the backyard of the Yang-Ming University is one of the most well-known scenic trails appealing tourists in northern Taipei.



The remodeling and decoration of the out-patient-clinics



The 30-year-old 7th & 8th floor in the department of stomatology, supported by the funding of hospital headquarter, had a great chance to renew its out-patient-clinic hardware & environment. The fully remodeled specialties or divisions included the Prosthodontics, Endodontics, Family Dentistry and Diagnostic area. The Oral Surgery, Periodontics, Orthodontics divisions were

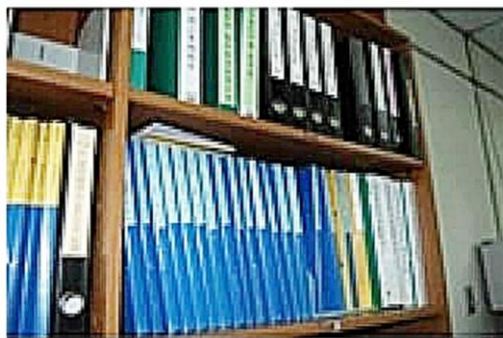
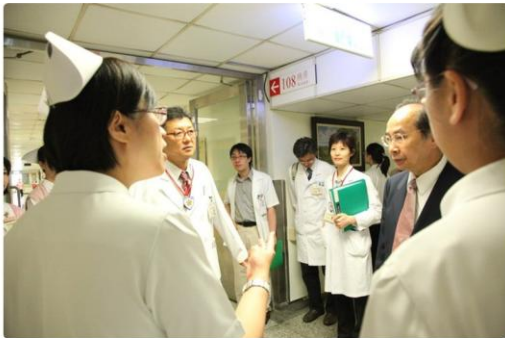
partially remodeled in the ceilings, floor and regional windows and desks. The brand new waiting hall, LED light-decorated aisles, first-class rest rooms all demonstrated the department being upgraded to the standing of high-end market value. This breakthrough encouraged staffs to study and work in a more enlightened environment than ever. The whole project, put forward by the team leader Miss Mary Lee, is accomplished by the end of August 2012.

Mary Lee – A propellant & gate keeper of the remodeling of OPD

The design of this project is an interesting artistic work in the beginning. Even though the remodeling started with a well-planned schedule, the piece by piece construction & progression of each day from March 24th, 2012 till August 20th really challenged us.” said Miss Mary Lee. Miss Mary Lee took the responsibility of “call for proposal” of this project in as early as 1 year before starting the engineering work. She devoted her momentum in the teamwork to monitor the progression, paying attention to the feedback of each part and finally to meet the expectation of all staffs from each division to work together in a brand new environment by the end the August 2012.



2011 Hospital accreditation and certification of Taipei-VGH



2011 is a challenging and fruitful year! The department of stomatology shared the same input and intensive exercise for preparing the medical center accreditation. This is the first time that the specialty of dentistry was included as one of the major branches in the content of hospital accreditation. The action team of department,

led by Professor Lai YL, devoted lots of time and momentum in preparing this exercise to demonstrate the best presentation in teaching, research and clinics. It took about half a year to do everything before the date of July 13~15th, 2011 when the officers representing the Ministry of Health to oversee our department. During that period of time in preparation, the department chairs in dentistry of NTU, professor Lin CB, Professor Jeng SJ of Taipei medical university, & professor Huang JS of Chang-Gung Memorial hospital were consecutive invited to visit Taipei-VGH and gave speech in didactic fields of dentistry regarding hospital management, research and infection control in dentistry. Furthermore, the department head Dr. Kao SY, Chair of perio. Dr. Lai YL, CR Dr. Hsiao YC in a group visited NTU to learn from their experiences in remodeling their out-patient-clinic building. This tour would be very helpful to us in designing the new dental clinic of Taipei-VGH.

New year memorial party in 2011 & 2012



New year memorial party –

At the end of each year, all staffs of department gathered in a dinner party to celebrate the incoming Chinese new year. Programs of singing, dancing and shows strongly demonstrated the creativity and energy of the young staffs. By the chance of party, all good people recharge themselves for the next year. Past department chairs, Dr Hwei, Dr Chen, Dr Lin and Dr Chang came to the party to chat and share the wonderful hour with old friends. The superintendent Dr Lin FY attended the party to award staffs performing

outstandingly in clinical/academic performance of the whole year.



New year memorial party in 2013



Academic exchange with China

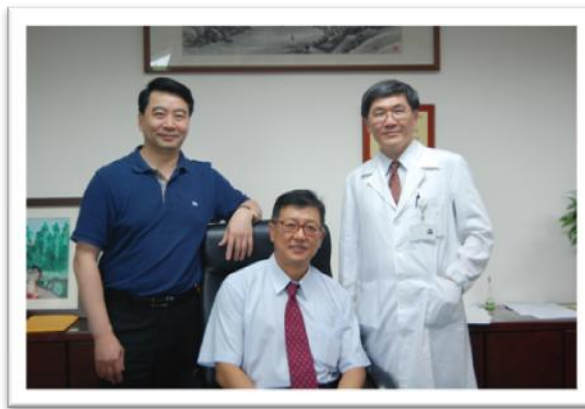
Visit Xi'an



4 attending physicians of dental department of hosp. of Xi-An Jiao-Tong Univ. had been visiting scholars at Taipei-VGH for 3 months in 2010. In return, a group of visitors, Dr. Shou-Yen Kao, Shing-Wai Yip, Shue-Fen Yang, & Dr Shou-Hsin Kuang, from VGH visited Xi-An Jio-Tun University hosp. in 2011.



2012.6.18-APDC- Dr Hong Zhou, Dean from Xi-An, was invited to Taipei



2009.6.25- Dr. Chen-Ping Zhang, vice superintendent of Shan-Hai 9th people hosp. visited VGH/Yang-Ming to gave a lecture regarding "Contemporary innovation of orthographic treatment".

The 50th year Anniversary of VGH

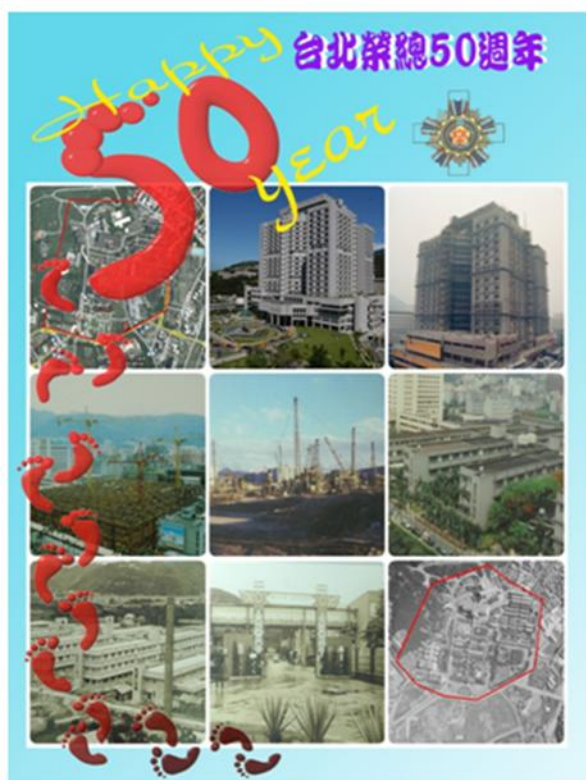
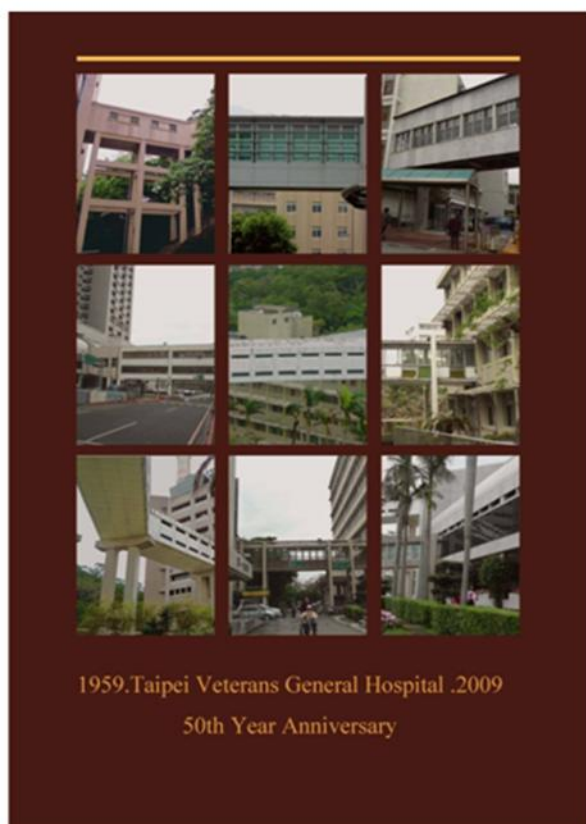


The concert of the 50th year Anniversary in Chieh Shou Hall in 2009.1.21



President Ma attendsthe 50th year Anniversary and gives a speech in 2009.11.1.

Posters of the 50th year Anniversary



[Appendix]

1. Chen YW, Tu HF, Wu TH, Lo WL, Chang CS, Chang KW, Kao SY: Sarcomas and sarcomatoid tumor after radiotherapy of oral squamous cell carcinoma: analysis of 4 cases. *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.* 2008, 105(1): 65-71
2. Hung PS, Kao SY, Shih YH, Chiou SH, Liu CJ, Chang KW, Lin SC: Insulin-like growth factor binding protein-5 (IGFBP-5) suppresses the tumorigenesis of head and neck squamous cell carcinoma. *J. Pathol.* 2008, 214(3): 368-376
3. Liu CJ, Liu TY, Kuo LT, Cheng HW, Chu TH, Chang KW, Lin SC: Differential gene expression signature between primary and metastatic head and neck squamous cell carcinoma. *J. Pathol.* 2008, 214(4): 489-497
4. Lin YC, Lai YL, Chen WT, Lee SY: Kinetics of fluoride release from and reuptake by orthodontic cements. *Am. J. Orthod. Dentofac. Orthop.* 2008, 133(3): 427-434
5. Kuo HK, Yu YH: The relation of peripheral arterial disease to leg force, gait speed, and functional dependence among older adults. *J. Gerontol. Ser. A-Biol. Sci. Med. Sci.* 2008, 63(4): 384-390
6. Huang TS, Hsieh JY, Wu YH, Jen CH, Tsuang YH, Chiou SH, Partanen J, Anderson H, Jaatinen T, Yu YH, Wang HW: Functional network reconstruction reveals somatic stemness genetic maps and dedifferentiation-like transcriptome reprogramming induced by GATA2. *Stem Cells.* 2008, 26(5): 1186-1201
7. Tu HF, Chen HW, Kao SY, Ina SC, Liu CJ, Chang KW: MDM2 SNP 309 and p53 codon 72 polymorphisms are associated with the outcome of oral carcinoma patients receiving postoperative irradiation. *Radiother. Oncol.* 2008, 87(2): 243-252
8. Cheng CY, Chang CS, Liu CJ, Kao SY: Vascular endothelial growth factor 936 C/T polymorphism is associated with vascular invasion in oral squamous cell carcinoma. *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.* 2008, 106(1): 79-84
9. Fong Y, Chou SJ, Hung KF, Wu HT, Kao SY: An investigation of the differential expression of Her2/neu gene expression in normal oral mucosa, epithelial dysplasia, and oral squamous cell carcinoma in Taiwan. *J. Chin. Med. Assoc.* 2008, 71(3): 123-127
10. Hsieh YL, Lai YL, Chen HL, Hung CY, Chen XL, Lee SY: Photoconductive method for measuring light transmission to the root of metal-ceramic and all-ceramic restorations. *Dent. Mater.* 2008, 24(9): 1230-1235
11. Yu YH, Kuo HK: Association between cognitive function and periodontal disease in older adults. *J. Am. Geriatr. Soc.* 2008, 56(9): 1693-1697
12. Chen HL, Lai YL, Chou IC, Hu CJ, Lee SY: Shear bond strength of provisional restoration materials repaired with light-cured resins. *Oper. Dent.* 2008, 33(5): 508-515

13. Lai KC, Chang KW, Liu CJ, Kao SY, Lee TC: IFN-induced protein with tetratricopeptide repeats 2 inhibits migration activity and increases survival of oral squamous cell carcinoma. *Mol. Cancer Res.* 2008, 6(9): 1431-1439
14. Lu HH, Liu CJ, Liu TY, Kao SY, Lin SC, Chang KW: Areca-treated Fibroblasts Enhance Tumorigenesis of Oral Epithelial Cells. *J. Dent. Res.* 2008, 87(11): 1069-1074
15. Chen CS, Hsu ML, Chang KD, Kuang SH, Chen PT, Gung YW: Failure Analysis: Enamel Fracture after Debonding Orthodontic Brackets. *Angle Orthod.* 2008, 78(6): 1071-1077
16. Yeh PY, Pai SF, Lee YY, Yang SF: Dentinogenesis imperfecta: a challenge for root canal treatment - case report. *J. Dental Sci.* 2008, 3(2): 117-122
17. Hung PS, Kao SY, Liu CJ, Tu HF, Wu CH, Lin SC: Insulin-like growth factor binding protein-5 enhances the migration and differentiation of gingival epithelial cells. *J. Periodont. Res.* 2008, 43(6): 673-680
18. Chen YW, Yu EH, Wu TH, Lo WL, Li WY, Kao SY: Histopathological factors affecting nodal metastasis in tongue cancer: analysis of 94 patients in Taiwan. *Int. J. Oral Maxillofac. Surg.* 2008, 37(10): 912-916
19. Liaw YC, Kuang SH, Chen YW, Hung KF, Tsai HC, Kao SY, Fong JHJ: Multimodality Treatment for Rehabilitation of Adult Orthodontic Patient with Complicated Dental Condition and Jaw Relation. *J. Chin. Med. Assoc.* 2008, 71(11): 594-600
20. Hung CY, Lai YL, Hsieh YL, Chi LY, Lee SY: Effects of Simulated Clinical Grinding and Subsequent Heat Treatment on Microcrack Healing of a Lithium Disilicate Ceramic. *Int. J. Prosthodont.* 2008, 21(6): 496-498
21. Yu YH, Kuo HK, Chang KW: The Evolving Transcriptome of Head and Neck Squamous Cell Carcinoma: A Systematic Review. *PLoS One.* 2008, 3(9) (Review)
22. Lu HH, Chen LK, Cheng CY, Hung SL, Lin SC, Chang KW: Areca nut extract-treated gingival fibroblasts modulate the invasiveness of polymorphonuclear leukocytes via the production of MMP-2. *J. Oral Pathol. Med.* 2009, 38(1): 79-86
23. Shieh TM, Tu HF, Ku TH, Chang SS, Chang KW, Liu CJ: Association between lysyl oxidase polymorphisms and oral submucous fibrosis in older male areca chewers. *J. Oral Pathol. Med.* 2009, 38(1): 109-113
24. Wu HT, Ko SY, Fong JHJ, Chang KW, Liu TY, Kao SY: Expression of phosphorylated Akt in oral carcinogenesis and its induction by nicotine and alkaline stimulation. *J. Oral Pathol. Med.* 2009, 38(2): 206-213
25. Wu TY, Yang SF, Kuang SH, Wu CH: Treatment of a Child With 4 Congenitally Missing Maxillary Premolars by Autotransplantation and Orthodontic Intervention: A Case Report. *J. Oral Maxillofac. Surg.* 2009, 67(2): 450-456
26. Chang LY, Wan HC, Lai YL, Kuo YF, Liu TY, Chen YT, Hung SL: Areca nut extracts increased expression of inflammatory cytokines, tumor necrosis factor-alpha, interleukin-1 beta, interleukin-6 and interleukin-8, in peripheral blood mononuclear cells. *J. Periodont. Res.* 2009,

44(2): 175-183

27. Lai YL, Kao SY, Yeung TC, Lee SY: Rapid implant therapies: immediate implant placement and immediate restoration. *J. Dental Sci.* 2009, 4(1): 1-6
28. Chen YC, Lee YY, Pai SF, Yang SF: The Morphologic Characteristics of the Distolingual Roots of Mandibular First Molars in a Taiwanese Population. *J. Endod.* 2009, 35(5): 643-645
29. Chen YC, Chen YW, Hsu HS, Tseng LM, Huang PI, Lu KH, Chen DT, Tai LK, Yung MC, Chang SC, Ku HH, Chiou SH, Lo WL: Aldehyde dehydrogenase 1 is a putative marker for cancer stem cells in head and neck squamous cancer. *Biochem. Biophys. Res. Commun.* 2009, 385(3): 307-313
30. Wu CH, Tu HF, Gong NR, Chen YW, Liu CJ, Kao SY: The Val allele of HER-2 codon 655 predicts the progression of oral squamous cell carcinoma. *Oral Oncol.* 2009, 45(7): 579-583
31. Kao SY, Chu YW, Chen YW, Chang KW, Liu TY: Detection and Screening of Oral Cancer and Pre-cancerous Lesions. *J. Chin. Med. Assoc.* 2009, 72(5): 227-233
32. Wu TY, Kuang SH, Wu CH: Factors Associated With the Stability of Mini-Implants for Orthodontic Anchorage: A Study of 414 Samples in Taiwan. *J. Oral Maxillofac. Surg.* 2009, 67(8): 1595-1599
33. Hsieh CF, Liu CK, Fang TJ, Yu YH, Lai CL, Kuo HK: Previous Hepatitis A Virus Infection Is Related to Slower Psychomotor Speed in Elderly Adults. *J. Gerontol. Ser. A-Biol. Sci. Med. Sci.* 2009, 64(10): 1090-1096
34. Cheng CF, Lee YY, Chi LY, Chen YT, Hung SL, Ling LJ: Bacterial Penetration Through Antibiotic-Loaded Guided Tissue Regeneration Membranes. *J. Periodont.* 2009, 80(9): 1471-1478
35. Liu HS, Lu HH, Lui MT, Yu EH, Shen W, Chen YP, Chang KW, Tu HF: Detection of copy number amplification of cyclin D1 (CCND1) and cortactin (CTTN) in oral carcinoma and oral brushed samples from areca chewers. *Oral Oncol.* 2009, 45(12): 1032-1036
36. Lee YY, Yeh PY, Pai SF, Yang SF: Maxillary first molar with six canals. *J. Dental Sci.* 2009, 4(4): 198-201
37. Hung PS, Chen FC, Kuang SH, Kao SY, Lin SC, Chang KW: miR-146a Induces Differentiation of Periodontal Ligament Cells. *J. Dent. Res.* 2010, 89(3): 252-257
38. Fong JHJ, Wu HT, Huang MC, Chou YW, Chi LY, Fong Y, Kao SY: Analysis of Facial Skeletal Characteristics in Patients With Chin Deviation. *J. Chin. Med. Assoc.* 2010, 73(1): 29-34
39. Chen YC, Chang CJ, Hsu HS, Chen YW, Tai LK, Tseng LM, Chiou GY, Chang SC, Kao SY, Chiou SH, Lo WL: Inhibition of tumorigenicity and enhancement of radiochemosensitivity in head and neck squamous cell cancer-derived ALDH1-positive cells by knockdown of Bmi-1. *Oral Oncol.* 2010, 46(3): 158-165
40. Lin SC, Liu CJ, Lin JA, Chiang WF, Hung PS, Chang KW: miR-24 up-regulation in oral carcinoma: Positive association from clinical and in vitro analysis. *Oral Oncol.* 2010, 46(3): 204-208
41. Lai YL, Chen HL, Chang LY, Lee SY: Resubmergence Technique for the Management of Soft Tissue Recession Around an Implant: Case Report. *Int. J. Oral Maxillofac. Implants.* 2010, 25(1):

201-204

42. Ho CM, Hsueh PR, Liu CY, Lee SY, Chiueh TS, Shyr JM, Tsao SM, Chuang YC, Yan, JJ, Wang LS, Wang JH, Ho MW, Tien N, Lu JJ: Prevalence and accessory gene regulator (agr) analysis of vancomycin-intermediate Staphylococcus aureus among methicillin-resistant isolates in Taiwan-SMART program, 2003. *Eur. J. Clin. Microbiol. Infect. Dis.* 2010, 29(4): 383-389
43. Wu SY, Chen YT, Chen CW, Chi LY, Hsu NY, Hung SL, Ling LJ: Comparison of Clinical Outcomes Following Guided Tissue Regeneration Treatment with a Polylactic Acid Barrier or a Collagen Membrane. *Int. J. Periodontics Restor. Dent.* 2010, 30(2): 173-179
44. Chiu YW, Tu HF, Wang IK, Wu CH, Chang KW, Liu TY, Kao SY: The implication of osteopontin (OPN) expression and genetic polymorphisms of OPN promoter in oral carcinogenesis. *Oral Oncol.* 2010, 46(4): 302-306
45. Liu CJ, Kao SY, Tu HF, Tsai MM, Chang KW, Lin SC: Increase of microRNA miR-31 level in plasma could be a potential marker of oral cancer. *Oral Dis.* 2010, 16(4): 360-364
46. Ho WH, Lee YY, Chang LY, Chen YT, Liu TY, Hung SL: Effects of areca nut extract on the apoptosis pathways in human neutrophils. *J. Periodont. Res.* 2010, 45(3): 412-420
47. Chang KW, Hung PS, Lin IY, Hou CP, Chen LK, Tsai YM, Lin SC: Curcumin upregulates insulin-like growth factor binding protein-5 (IGFBP-5) and C/EBP alpha during oral cancer suppression. *Int. J. Cancer.* 2010, 127(1): 9-20
48. Liu CJ, Tsai MM, Hung PS, Kao SY, Liu TY, Wu KJ, Chiou SH, Lin SC, Chang KW: miR-31 Ablates Expression of the HIF Regulatory Factor FIH to Activate the HIF Pathway in Head and Neck Carcinoma. *Cancer Res.* 2010, 70(4): 1635-1644
49. Wu CH, Wu TY, Li CC, Lui MT, Chang KW, Kao SY: Impact of Diabetes Mellitus on the Prognosis of Patients with Oral Squamous Cell Carcinoma: A Retrospective Cohort Study. *Ann. Surg. Oncol.* 2010, 17(8): 2175-2183
50. Yang CM, Hsieh YD, Yang SF: Refractory apical periodontitis associated with a calculus-like deposit at the root apex. *J. Dental Sci.* 2010, 5(2): 109-113
51. Tsai KS, Kao SY, Wang CY, Wang YJ, Wang JP, Hung SC: Type I collagen promotes proliferation and osteogenesis of human mesenchymal stem cells via activation of ERK and Akt pathways. *J. Biomed. Mater. Res. Part A.* 2010, 94A(3): 673-682
52. Chen YW, Yang MH, Kao SY, Wu CH: A Rare Complication of Acquired Factor VIII Inhibitors in a Postoperative Oral Cancer Patient: A Case Report. *J. Oral Maxillofac. Surg.* 2010, 68(8): 1989-1993
53. Kao SY, Chen YP, Tu HF, Liu CJ, Yu AH, Wu CH, Chang KW: Nuclear STK15 expression is associated with aggressive behaviour of oral carcinoma cells in vivo and in vitro. *J. Pathol.* 2010, 222(1): 99-109
54. Lu HH, Kao SY, Liu TY, Liu ST, Huang WP, Chang KW, Lin SC: Areca nut extract induced oxidative stress and upregulated hypoxia inducing factor leading to autophagy in oral cancer cells. *Autophagy.* 2010, 6(6): 725-737

55. Kuo HK, Chen CY, Liu HM, Yen CJ, Chang KJ, Chang CC, Yu YH, Lin LY, Hwang JJ: Metabolic risks, white matter hyperintensities, and arterial stiffness in high-functioning healthy adults. *Int. J. Cardiol.* 2010, 143(2): 184-191
56. Shieh TM, Chang KW, Tu HF, Shih YH, Ko SY, Chen YC, Liu CJ: Association between the polymorphisms in exon 12 of hypoxia-inducible factor-1 alpha and the clinicopathological features of oral squamous cell carcinoma. *Oral Oncol.* 2010, 46(9): E47-E53
57. Chen CF, Chuang SH, Wu HT, Wu CH, Li WY, Chuang CL, Yang WC, Yang CY: A dialysis patient with a nodular tongue. *Kidney Int.* 2010, 78(6): 624-624
58. Shen WL, Chen CS, Hsu ML: Influence of Implant Collar Design on Stress and Strain Distribution in the Crestal Compact Bone: A Three-Dimensional Finite Element Analysis. *Int. J. Oral Maxillofac. Implants.* 2010, 25(5): 901-910
59. Su PF, Huang WL, Wu HT, Wu CH, Liu TY, Kao SY: p16(INK4A) promoter hypermethylation is associated with invasiveness and prognosis of oral squamous cell carcinoma in an age-dependent manner. *Oral Oncol.* 2010, 46(10): 734-739
60. Yang MH, Hsu DSS, Wang HW, Wang HJ, Lan HY, Yang WH, Huang CH, Kao SY, Tzeng CH, Tai SK, Chang SY, Lee OKS, Wu KJ: Bmi1 is essential in Twist1-induced epithelial-mesenchymal transition. *Nat. Cell Biol.* 2010, 12(10): 982-992
61. Hsu MJ, Wu CY, Chiang HH, Lai YL, Hung SL: PI3K/Akt signaling mediated apoptosis blockage and viral gene expression in oral epithelial cells during herpes simplex virus infection. *Virus Res.* 2010, 153(1): 36-43
62. Yang WE, Huang HH: Improving the biocompatibility of titanium surface through formation of a TiO₂ nano-mesh layer. 2010, *Thin Solid Films.* 2010, 518(24): 7545-7550
63. Uan JY, Lin JK, Sun YS, Yang WE, Chen LK, Huang HH: Surface coatings for improving the corrosion resistance and cell adhesion of AZ91D magnesium alloy through environmentally clean methods. *Thin Solid Films.* 2010, 518(24): 7563-7567
64. Lai YL, Wu CY, Lee YY, Chang HW, Liu TY, Hung SL: Stimulatory Effects of Areca Nut Extracts on Prostaglandin E-2 Production by Human Polymorphonuclear Leukocytes. *J. Periodont.* 2010, 81(5): 758-766
65. Chen YW, Chen KH, Huang PI, Chen YC, Chiou GY, Lo WL, Tseng LM, Hsu HS, Chang KW, Chiou SH: Cucurbitacin I Suppressed Stem-Like Property and Enhanced Radiation-Induced Apoptosis in Head and Neck Squamous Carcinoma-Derived CD44(+) ALDH1(+) Cells. *Mol. Cancer Ther.* 2010, 9(11): 2879-2892
66. Fong JHJ, Wu HT, Chio YW, Gonzalez AM, Huang CK, Chen YW, Kao SY: Comprehensive Rehabilitation After Severe Maxillofacial Injury in a Cleft Patient. *J. Chin. Med. Assoc.* 2010, 73(10)
67. Wu MJ, Jan CI, Tsay YG, Yu YH, Huang CY, Lin SC, Liu CJ, Chen YS, Lo JF, Yu CC: Elimination of head and neck cancer initiating cells through targeting glucose regulated protein78 signaling. *Mol. Cancer.* 2010, 9(-)

68. Tung OH, Lai YL, Ho YC, Chou IC, Lee SY: Development of digital shade guides for color assessment using a digital camera with ring flashes. *Clin. Oral Investig.* 2011, 15(1):49-56
69. Tseng YH, Yang CC, Lin SC, Cheng CC, Lin SH, Liu CJ, Chang KW: Areca nut extract upregulates vimentin by activating PI3K/AKT signaling in oral carcinoma. *J. Oral Pathol. Med.* 2011, 40(2):160-166
70. Tu HF, Liu CJ, Liu SY, Chen YP, Yu EH, Lin SC, Chang KW: Serum decoy receptor 3 level: a predictive marker for nodal metastasis and survival among oral cavity cancer patients. *Head Neck-J. Sci. Spec. Head Neck.* 2011, 33(3):396-402
71. Lo WL, Yu CC, Chiou GY, Chen YW, Huang PI, Chien CS, Tseng LM, Chu PY, Lu KH, Chang KW, Kao SY, Chiou SH: MicroRNA-200c attenuates tumour growth and metastasis of presumptive head and neck squamous cell carcinoma stem cells. *J. Pathol.* 2011, 223(4):482-495
72. Lo JF, Yu CC, Chiou SH, Huang CY, Jan CI, Lin SC, Liu CJ, Hu WY, Yu YH: The Epithelial-Mesenchymal Transition Mediator S100A4 Maintains Cancer-Initiating Cells in Head and Neck Cancers. *Cancer Res.* 2011, 71(5):1912-1923
73. Yu YH, Lai YL, Cheung WS, Kuo HK: Oral Health Status and Self-Reported Functional Dependence in Community-Dwelling Older Adults. *J. Am. Geriatr. Soc.* 2011, 59(3):519-523
74. Lin JK, Uan JY, Wu CP, Huang HH: Direct growth of oriented Mg-Fe layered double hydroxide (LDH) on pure Mg substrates and in vitro corrosion and cell adhesion testing of LDH-coated Mg samples. *J. Mater. Chem.* 2011, 21(13):5011-5020
75. Lo WL, Lai JY, Feinberg SE, Izumi K, Kao SY, Chang CS, Lin A, Chiang HK: Raman spectroscopy monitoring of the cellular activities of a tissue-engineered ex vivo produced oral mucosal equivalent. *J. Raman Spectrosc.* 2011, 42(2):174-178
76. Yu CC, Chen YW, Chiou GY, Tsai LL, Huang PI, Chang CY, Tseng LM, Chiou SH, Yen SH, Chou MY, Chu PY, Lo WL: MicroRNA let-7a represses chemoresistance and tumorigenicity in head and neck cancer via stem-like properties ablation. *Oral Oncol.* 2011, 47(3):202-210
77. Tu HF, Chang KW, Chiang WF, Liu CJ, Yu EH, Liu ST, Lin SC: The frequent co-expression of the oncogenes PIK3CA and PAK1 in oral carcinomas. *Oral Oncol.* 2011, 47(3):211-216
78. Yang CC, Hung PS, Wang PW, Liu CJ, Chu TH, Cheng HW, Lin SC: miR-181 as a putative biomarker for lymph-node metastasis of oral squamous cell carcinoma. *J. Oral Pathol. Med.* 2011, 40(5):397-404
79. Ho YC, Lai YL, Chou IC, Yang SF, Lee SY: Effects of light attenuation by fibre posts on polymerization of a dual-cured resin cement and microleakage of post-restored teeth. *J. Dent.* 2011, 39(4):309-315
80. Kuo YL, Tu TY, Chang CF, Li WY, Chang SY, Shiao AS, Chu PY, Chan KT, Tai SK, Wang YF, Kao SC, Kao SY, Lo WL, Wu CH, Shu WH, Ma S, Wang TH: Extra-major salivary gland pleomorphic adenoma of the head and neck: a 10-year experience and review of the literature. *Eur. Arch. Oto-Rhino-Laryn.* 2011, 268(7):1035-1040
81. Hsiao WK, Yew TL, Lai YL, Lee SY, Chen HL: Intramarrow Bone Morphogenetic Protein 4 Gene

- Delivery Improves Local Bone Quality in Femurs of Ovariectomized Rabbits. *J. Periodont.* 2011, 82(6):854-862
82. Lin HC, Pai SF, Hsu YY, Chen CS, Kuo ML, Yang SF: Use of Rubber Dams During Root Canal Treatment in Taiwan. *J. Formos. Med. Assoc.* 2011, 110(6):397-400
 83. Yang CJ, Shen WG, Liu CJ, Chen YW, Lu HH, Tsai MM, Lin SC: miR-221 and miR-222 expression increased the growth and tumorigenesis of oral carcinoma cells. *J. Oral Pathol. Med.* 2011, 40(7):560-566
 84. Lai YL, Kuo NC, Hsiao WK, Yew TL, Lee SY, Chen HL: Intramarrow Bone Morphogenetic Protein 4 Gene Delivery Enhances Early Implant Stability in Femurs of Ovariectomized Rabbits. *J. Periodont.* 2011, 82(7):1043-1050
 85. Tung OH, Lee SY, Lai YL, Chen HF: Characteristics of subgingival calculus detection by multiphoton fluorescence microscopy. *J. Biomed. Opt.* 2011, 16(6):-
 86. Hsieh YS, Ho YC, Lee SY, Lu CW, Jiang CP, Chuang CC, Wang CY, Sun CW: Subgingival calculus imaging based on swept-source optical coherence tomography. *J. Biomed. Opt.* 2011, 16(7):-
 87. Hsiao WK, Yew TL, Lai YL, Lee SY, Chen HL: Intramarrow BMP4 gene delivery improves local bone quality in femurs of ovariectomized rabbits. *Journal of Periodontology* 2011, 82(6): 854-862
 88. Ho YC, Lai YL, Chou IC, Yang SF, Lee SY: Effects of light attenuation by fiber posts on polymerization of a dual-cured resin cement and microleakage of post-restored teeth. *Journal of Dentistry* 2011, 39: 309-315
 89. Yu YH, Lai YL, Cheung WS, Kuo HK: Oral health status is differentially associated with self-reported functional dependence among community-dwelling older adults. *Journal of the American Geriatrics Society* 2011, 59(3)519-523
 90. Tung OH, Lee SY, Lai YL, Chen HF: Characteristics of subgingival calculus detection by multi-photon fluorescence microscopy. *Journal of Biomedical Optics* 2011, 16(6):066017(1-7)
 91. Yu YH , Chiou GY , Huang PI , Lo WL , Wang CY , Lu KH , Yu CC , Alterovitz G , Huang WC , Lo JF , Hsu HS , Chiou SH : Network Biology of Tumor Stem-like Cells Identified a Regulatory Role of CBX5 in Lung Cancer. *SCIENTIFIC REPORTS* 2012 584, 2012 AUG 16.
 92. Chang CW , Yang CJ , Lai YL: Phenytoin- and amlodipine-induced gingival overgrowth. *J DENT SCI* 2012 MAR ,7(1) :85-88.
 93. Tu HF , Liu CJ , Chang CL , Wang PW , Kao SY , Yang CC , Yu EH , Lin SC , Chang KW: The Association between Genetic Polymorphism and the Processing Efficiency of miR-149 Affects the Prognosis of Patients with Head and Neck Squamous Cell Carcinoma. *PLOS ONE* 2012 DEC 14 ,7(12).
 94. Lo WL , Chu PY , Lee TH , Su TL , Chien Y , Chen YW , Huang PI , Tseng LM , Tu PH , Kao SY , Lo JF: A Combined DNA-Affinic Molecule and N-Mustard Alkylating Agent Has an Anti-Cancer Effect and Induces Autophagy in Oral Cancer Cells. *INT J MOL SCI* 2012 MAR ,13(3) :3277-3290.
 95. Huang PI , Lo WL , Cherng JY , Chien Y , Chiou GY , Chiou SH: Non-Viral Delivery of RNA

- Interference Targeting Cancer Cells in Cancer Gene Therapy. CURR GENE THER 2012 AUG ,12(4) :275-284
96. Yang WH , Lan HY , Huang CH , Tai SK , Tzeng CH , Kao SY , Wu KJ , Hung MC , Yang MH: RAC1 activation mediates Twist1-induced cancer cell migration NAT CELL BIOL, 2012 APR ,14(4) :366.
 97. Hung PS , Chang KW , Kao SY , Chu TH , Liu CJ , Lin SC: Association between the rs2910164 polymorphism in pre-mir-146a and oral carcinoma progression. ORAL ONCOL 2012 MAY ,48(5) :404-408.
 98. Chen YW , Chen CY , Chiang SC , Lui MT , Kao SY , Yang MH: Predictors and impact of microsurgical complications in patients with locally advanced oral squamous cell carcinoma. CANCER SCI. 2012 SEP ,103(9) :1672-1678.
 99. Liu CJ , Lin SC , Yang CC , Cheng HW , Chang KW: Exploiting salivary miR-31 as a clinical biomarker of oral squamous cell carcinoma. HEAD NECK-J SCI SPEC. 2012 FEB ,34(2) :219-224.
 100. Tseng YH , Chang KW , Yang CC , Liu CJ , Kao SY , Liu TY , Lin SC: Association between areca-stimulated vimentin expression and the progression of head and neck cancers. HEAD NECK-J SCI SPEC. 2012 FEB ,34(2) :245-253.
 101. Huang HH , Sun YS , Wu CP , Liu CF , Liaw PK , Kai W: Corrosion resistance and biocompatibility of Ni-free Zr-based bulk metallic glass for biomedical applications. INTERMETALLICS. 2012 NOV ,30:139-143.
 102. Yao KT , Kao HC , Cheng CK , Fang HW , Yip SW , Hsu ML: The effect of clockwise and counterclockwise twisting moments on abutment screw loosening. CLIN ORAL IMPLAN RES. 2012 OCT ,23(10) :1181-1186.
 103. Huang HH , Chen JY , Lin MC , Wang YT , Lee TL , Chen LK: Blood responses to titanium surface with TiO₂ nano-mesh structure. CLIN ORAL IMPLAN RES. 2012 MAR ,23(3) :379-383.
 104. Wei YJ , Lin YC , Kaung SS , Yang SF , Lee SY , Lai YL: Esthetic periodontal surgery for impacted dilacerated maxillary central incisors. AM J ORTHOD DENTOFAC. 2012 OCT ,142(4) :546-551
 105. Lo WL , Chien Y , Chiou GY , Tseng LM , Hsu HS , Chang YL , Lu KH , Chien CS , Wang ML , Chen YW , Huang PI , Hu FW , Yu CC , Chu PY , Chiou SH: Nuclear localization signal-enhanced RNA interference of EZH2 and Oct4 in the eradication of head and neck squamous Cell carcinoma-derived cancer stem cells. BIOMATERIALS. 2012 MAY ,33(14) :3693-3709.
 106. Wang MC , Hung PS , Tu HF , Shih WY , Li WC , Chang KW. Lipopolysaccharide Induces the Migration of Human Dental Pulp Cells by Up-regulating miR-146a. J ENDODONT 2012 DEC ,38(12) :1598-1603.
 107. Chen YW , Kao SY , Yang MH: Analysis of p16INK4A expression of oral squamous cell carcinomas in Taiwan: Prognostic correlation without relevance to betel quid consumption. J SURG ONCOL 2012 AUG ,106(2) :149-154.
 108. Hung SL , Chiang HH , Wu CY , Hsu MJ , Chen YT: Effects of herpes simplex virus type 1 infection on immune functions of human neutrophils. J PERIODONTAL RES 2012 OCT ,47(5) :635-644.
 109. Chang KW , Kao SY , Wu YH , Tsai MM , Tu HF , Liu CJ , Lui MT , Lin SC: Passenger strand miRNA

miR-31* regulates the phenotypes of oral cancer cells by targeting RhoA. ORAL ONCOL 2013 JAN ,49(1) :27-33.

110. Chu PY , Hu FW , Yu CC , Tsai LL , Yu CH , Wu BC , Chen YW , Huang PI , Lo WL:
Epithelial-mesenchymal transition transcription factor ZEB1/ZEB2 co-expression predicts poor prognosis and maintains tumor-initiating properties in head and neck cancer ORAL ONCOL 2013 JAN ,49(1) :34-41
111. Sun YS , Chang JH , Huang HH: Corrosion resistance and biocompatibility of titanium surface coated with amorphous tantalum pentoxide. THIN SOLID FILMS 2013 JAN 15 ,528:130-135.
112. Huang HH , Wu CP , Sun YS , Lee TH: Improvements in the corrosion resistance and biocompatibility of biomedical Ti-6Al-7Nb alloy using an electrochemical anodization treatment. THIN SOLID FILMS 2013 JAN 15 ,528 :157-162.
113. Chou CH , Yang NK , Liu TY , Tai SK , Hsu DSS , Chen YW , Chen YJ , Chang CC , Tzeng CH , Yang MH: Chromosome Instability Modulated by BMI1-AURKA Signaling Drives Progression in Head and Neck Cancer. CANCER RES 2013 JAN 15 ,73(2) :953-966.



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