

## Curriculum Vitae

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**Name:** Simon Wai Ming Young, DDS, MD, PhD, FACS

**Present Title:** Associate Professor (with Tenure),  
Director of Research

**Address:** Department of Oral and Maxillofacial Surgery  
The University of Texas Health Science Center at  
Houston, School of Dentistry  
7500 Cambridge St., Suite 6510  
Houston, Texas 77054  
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**Citizenship:** Both Canadian and US Citizenship

**Undergraduate Education:**

09/96 – 06/99 University of Toronto, Toronto, Ontario, Canada  
(B.Sc. in Human Biology, 1999)

**Graduate Education:**

09/99 – 06/03 Faculty of Dentistry, University of Toronto, Toronto,  
Ontario, Canada  
(D.D.S., *Honors*, 2003)

08/03 – 05/08 Rice University, Department of Bioengineering,  
Houston, Texas, USA  
(Ph.D. in Bioengineering, 2008)

08/08 – 05/11 The University of Texas Medical School at Houston,  
Houston, Texas, USA  
(M.D., 2011)

**Postgraduate Training:**

07/03 – 06/13 The University of Texas Health Science Center at  
Houston, Houston, Texas, USA  
(Oral & Maxillofacial Surgery Residency, 2013)

07/13 – 07/15 Harvard University, School of Engineering and  
Applied Sciences, Cambridge, Massachusetts, USA  
(Postdoctoral Research Fellow in Immuno-  
Engineering)

**Academic & Administrative Appointments:**

- 09/21 – Present            The University of Texas Health Science Center at Houston, School of Dentistry, Houston, Texas, USA (Associate Professor with Tenure in Oral & Maxillofacial Surgery)
- 06/21 – Present            The University of Texas MD Anderson Cancer Center, Houston, Texas, USA (Adjunct Assistant Professor in Head & Neck Surgery)
- 08/17 – Present            Baylor College of Medicine, Houston, Texas, USA (Adjunct Member of the Dan L. Duncan Cancer Center – Cancer Cell and Gene Therapy Program)
- 11/16 – Present            Baylor College of Medicine, Houston, Texas, USA (Adjunct Assistant Professor in Otolaryngology – Head & Neck Surgery)
- 07/16 – Present            Rice University, Houston, Texas, USA (Adjunct Assistant Professor in Bioengineering)
- 09/15 – 07/21              The University of Texas Health Science Center at Houston, School of Dentistry, Houston, Texas, USA (Assistant Professor in Oral & Maxillofacial Surgery)
- 07/13 – 09/15              The University of Texas Health Science Center at Houston, School of Dentistry, Houston, Texas, USA (Clinical Assistant Professor in Oral & Maxillofacial Surgery)

**Hospital Appointments:**

- 09/15 – Present            Houston Methodist Hospital - Texas Medical Center, Active Staff
- 09/13 – Present            Ben Taub General Hospital – Harris Health System, Active Staff
- 09/13 – Present            Lyndon B. Johnson General Hospital – Harris Health System, Active Staff
- 09/13 – Present            Memorial Hermann Hospital - Texas Medical Center, Active Staff

**Licensure:**

09/13 – Present Texas Medical Board  
07/03 – Present Royal College of Dental Surgeons of Ontario  
07/03 – Present Texas State Board of Dental Examiners

**Certification:**

11/16 – Present Collaborative Institutional Training Initiative (CITI)  
Human Subjects Research Training  
03/15 – Present Diplomate of the American Board of Oral and  
Maxillofacial Surgery  
06/13 – Present Pediatric Advanced Life Support Provider  
11/10 – 11/14 Advanced Trauma Life Support Provider  
07/03 – Present Advanced Cardiac Life Support Instructor  
07/03 – Present Basic Life Support Provider

**Professional Organizations / Committees of these Organizations:**

*International:*

2020 – Present International Academy of Oral Oncology, World  
Congress Scientific Planning Committee  
2015 – Present International Association for Dental Research /  
American Association for Dental Research,  
**President-Elect of the Oral & Maxillofacial Surgery  
Group (Term 2021 – 2022)**

*National:*

2019 – Present American College of Surgeons  
2017 – Present American Academy of Craniomaxillofacial Surgeons  
2015 – Present American Association of Cancer Research  
2010 – Present Alpha Omega Alpha Medical Honor Society  
2008 – 2018 American Medical Association

2006 – Present	American Dental Education Association
2006 – 2019	American Dental Association
2003 – Present	American Association of Oral and Maxillofacial Surgeons
2003 – Present	Omicron Kappa Upsilon Dental Honor Society
2003 –2015	Canadian Dental Association

*Regional/State:*

2013 – Present	Texas Society of Oral and Maxillofacial Surgeons
2011 – 2019	Texas Dental Association
2003 – 2015	Ontario Dental Association

*Local/Institutional:*

2013 – Present	Houston Society of Oral and Maxillofacial Surgeons
2013 – 2016	Greater Houston Dental Society

**Honors and Awards:**

*International:*

2019	Oral Abstract Scientific Presentation Award, 101 <sup>th</sup> Annual Meeting of the American Association of Oral and Maxillofacial Surgeons Held in Conjunction with the Dutch Association of Oral and Maxillofacial Surgeons (NVMKA). <b>Role:</b> Presenter and Research Primary Investigator.
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*National:*

2020	Faculty Educator Development Award, The American Association of Oral and Maxillofacial Surgeons and The Oral and Maxillofacial Surgery Foundation
2018	Oral Abstract Scientific Presentation Award, 100 <sup>th</sup> Annual Meeting of the American Association of Oral and Maxillofacial Surgeons. <b>Role:</b> Presenter and Research Primary Investigator.

- 2013 Pathway to Independence Award (K99/R00), National Institute of Dental and Craniofacial Research
- 2010 Alpha Omega Alpha National Medical Honor Society
- 2007 Research Summit Scholarship, The Oral and Maxillofacial Surgery Foundation
- 2007 Oral Abstract Scientific Presentation Award, 89<sup>th</sup> Annual Meeting of the American Association of Oral and Maxillofacial Surgeons. **Role:** Presenter and Graduate Student/Resident.
- 2004 Research Fellowship, The Oral and Maxillofacial Surgery Foundation

*Local/Institutional:*

- 2018 Oral Abstract Scientific Presentation 1<sup>st</sup> Place Award, UTHealth McGovern Medical School, House Staff Research Day. **Role:** Mentor and Research Primary Investigator.
- 2015 Rising STARS (Science and Technology Acquisition and Retention) Award, University of Texas System
- 2011 Hershel M. Rich Invention Award, Rice University
- 2003 Omicron Kappa Upsilon National Dental Honor Society
- 2003 The J.G. Bourassa Cup Proficiency Award, Faculty of Dentistry, University of Toronto
- 2003 The American Association of Oral and Maxillofacial Surgeons Dental Student/Implant Student Award, Faculty of Dentistry, University of Toronto
- 2002 The Dr. John A. Sherman Memorial Award, Faculty of Dentistry, University of Toronto
- 2002 The Ontario Dental Association Proficiency Award, Faculty of Dentistry, University of Toronto
- 2001 S.G. Bridgeman Prize, Faculty of Dentistry, University of Toronto

- 2001 The Wallace Seccombe Memorial Scholarship in Preventive Dentistry, Faculty of Dentistry, University of Toronto
- 2000 The Royal College of Dental Surgeons Scholarship in Basic Sciences, Faculty of Dentistry, University of Toronto
- 1999 Roche Diagnostics Award, Cellular Pathology Summer Student Program, University of Toronto
- 1999 Dean's List, Trinity College, University of Toronto
- 1999 Life Sciences Award, Department of Laboratory Medicine and Pathobiology, University of Toronto
- 1998 Trinity College Scholarship, Trinity College, University of Toronto
- 1998 Dean's List, Trinity College, University of Toronto
- 1997 Trinity College Scholarship, Trinity College, University of Toronto
- 1997 Dean's List, Trinity College, University of Toronto
- 1996 Trinity College Scholarship, Trinity College, University of Toronto

**Editorial Positions/Editorial Boards:**

- 2021 – Present Review Editor on the Editorial Board for the Open Access journal *JADA Foundational Science*, Published by Elsevier and the American Dental Association.
- 2021 – Present Review Editor on the Editorial Board for the Open Access journal *Frontiers in Physiology – Craniofacial Biology and Dental Research*, Published by Frontiers Media S.A.
- 2020 – Present Review Editor on the Editorial Board for the Open Access journal *Frontiers in Aging – Molecular Mechanisms of Aging*, Published by Frontiers Media S.A.
- 2019 Co-Editor of Textbook Entitled *Regenerative Strategies for Maxillary and Mandibular Reconstruction: A Practical Guide*, Published by Springer International Publishing, 2019.

2018 – Present Series Co-Editor of the *Techniques in Dentistry and Oral & Maxillofacial Surgery* Video Platform by Springer Nature Video. (<https://link.springer.com/video>)

**Reviewer:**

2021 – Present Manuscript Reviewer for *Scientific Reports* (one article/year)

2021 – Present Manuscript Reviewer for *Oral & Maxillofacial Surgery* (one article/year)

2020 – Present Manuscript Reviewer for *Annals of Biomedical Engineering* (one article/year)

2019 – Present Manuscript Reviewer for *Nature Biomedical Engineering* (one article/year)

2019 – Present Manuscript Reviewer for *The Journal of Dental Research* (one article/year)

2019 – Present Manuscript Reviewer for *The Journal of the California Dental Association* (one article/year)

2017 – Present Manuscript Reviewer for *Oncotarget* (one article/year)

2017 – Present Manuscript Reviewer for *Molecular Therapy* (one article/year)

2017 – Present Manuscript Reviewer for *Advanced Healthcare Materials* (one article/year)

2017 – Present Manuscript Reviewer for *Oncoimmunology* (two articles/year)

2016 – Present Manuscript Reviewer for *Oral Oncology* (one article/year)

2016 – Present Manuscript Reviewer for *International Journal of Nanomedicine* (one article/year)

2016 – Present Manuscript Reviewer for *Journal of Oral Implantology* (one article/year)

2009 – Present Manuscript Reviewer for *The British Journal of Oral and Maxillofacial Surgery* (one article/year)

2008 – Present Manuscript Reviewer for *The Journal of Oral and Maxillofacial Surgery* (one article/year)

2005 – Present Manuscript Reviewer for *Tissue Engineering* (two articles/year)

**Consultantships:**

2020 – Present Clinical Advisory Board Member, Proteocyte Diagnostics Inc.

**Service on International Grant Review Panels, Study Sections, Advisory Panels, and Committees:**

2020 – Present Grant Application Reviewer, US-Israel Binational Science Foundation

2019 – Present Member, Vanguard Committee for Strategic Planning, Osteo Science Foundation

2017 – Present Conference Abstract Reviewer, Oral & Maxillofacial Surgery Scientific Group, International Association for Dental Research Meetings

2017 – Present Grant Application Reviewer, Medical Research Council, UK

2015 – Present Grant Reviewer, Cancer Research UK

**Service on National Grant Review Panels, Study Sections, Advisory Panels, and Committees:**

Feb 2021 Ad Hoc Reviewer, National Institute of Dental and Craniofacial Research New Investigator R03 Application Review Panel, NIDCR ZDE1 NB 12

March 2020 Ad Hoc Reviewer, National Institute of Dental and Craniofacial Research Fellowship Application Review Panel, NIDCR ZDE1 NB 21

2017 – Present Conference Abstract Reviewer, Oral & Maxillofacial Surgery Scientific Group, American Association for Dental Research Meetings

Oct 2018 Ad hoc Reviewer, National Institutes of Health Center for Scientific Review, Special Emphasis Panel in Immune System Plasticity in Dental, Oral and Craniofacial Diseases, ZRG1 MOSS K57



Feb 2016 Early Career Ad Hoc Reviewer, National Institutes of Health Center for Scientific Review, Oral, Dental, and Craniofacial Sciences Study Section, 201605 ODCS

**Committees:**

**Service on International Committees:**

2021 – 2022 **President-Elect**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)

2020 – 2021 **Vice-President**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)

March 2020 **Council Representative**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)

July 2018 **Council Representative**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)

2017 – Present **Group Program Chair**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)

**Service on Texas Medical Center Committees:**

Baylor College of Medicine, Department of Otolaryngology – Head & Neck Surgery Committees:

2016 Resident Research Project Review Committee

**Service on The University of Texas Health Science Center at Houston, Committees:**

2021 – Present UTHealth Research Conflicts of Interest Committee

2021 – Present UTHealth Center for Laboratory Animal Medicine and Care Financial Oversight Committee

**Service on The University of Texas Health Science Center at Houston, Graduate School of Biomedical Sciences and Medical School Committees:**

2017 – Present Applicant interviewer for UTHealth Medical School / Graduate School of Biomedical Sciences MD/PhD program

**Service on The University of Texas Health Science Center at Houston, School of Dentistry Committees:**

The University of Texas Health Science Center at Houston, School of Dentistry  
Committees:

2021 – Present	Chair, IRB Protocol Submission Scientific Review Committee
2021 – Present	Promotion and Tenure Committee
2020 – Present	Associate Dean for Research Search Committee
2017 – Present	Craniofacial Center Vision Committee
2017 – Present	Research Operations Sub-committee
2017 – Present	Clinical Research Sub-committee
2016	Senior Faculty Search Committee, Department of Diagnostic and Biomedical Sciences
2015 – 2021	Credentialing Committee
2015 – Present	Research Committee

The University of Texas Health Science Center at Houston, School of Dentistry,  
Department of Oral & Maxillofacial Surgery Committees:

2017 – Present	Non-categorical Intern Admissions Committee
2015 – Present	Resident Admissions Committee
2015 – Present	Graduate Education Committee

**Community Service:**

Nov 2019	Houston Food Bank, 4 hours, (Participant)
Sep 2017	UTHealth School of Dentistry Mobile Clinic for Hurricane Harvey Victims, 8 hours, (Faculty Participant)
Sep 2005	The University of Texas at Houston Dental Branch Mobile Clinic for Hurricane Katrina Victims, 8 hours, (Resident Participant)
Nov 2002	Winter Clinic, Academy of General Dentistry, (Participant)
Feb 2002	International Dental Students Conference, (Participant)

June 1998                      Dental Clinic, Mount Sinai Hospital, Toronto, Canada,  
(Participant for 3 months)

**Sponsorship of Postdoctoral Fellows:**

2016 – 2018                      Fellow: Stacey Piotrowski  
Title of project: *Development of a preclinical model of  
compromised maxillofacial wound healing*  
Year of completion: 2018

**Membership on Thesis and Supervisory Committees:**

The University of Texas MD Anderson Cancer Center UTHealth Graduate School  
of Biomedical Sciences:

2019 – Present                      Graduate Student Thesis Advisory Committee  
Student: Caitlynn Barrows  
Title of project: *Design and Characterization of an In Vitro 3-  
Dimensional Salivary Gland Model of Sjogren's Syndrome*  
Degree sought: Doctor of Philosophy (PhD)  
Role: **Committee Chair**

Rice University, Department of Chemistry:

2016 – 2020                      Graduate Student Thesis Advisory Committee  
Student: David Leach  
Title of project: *Multidomain Peptide Biomaterials for  
Enhanced Delivery of Anti-Cancer Immunotherapies*  
Degree sought: Doctor of Philosophy (PhD)  
Year of completion: 2020  
Role: Committee Member

The University of Texas Health Science Center at Houston, School of Dentistry,  
Department of Orthodontics:

2017 – 2019                      Graduate Student Thesis Advisory Committee  
Student: Marian McCarty  
Title of project: *The impact of print orientation and UV curing  
duration on the dimensional accuracy of 3D-printed clear  
orthodontic aligners*  
Degree sought: Master of Science in Dentistry (MSD)  
Year of completion: 2019  
Role: Committee Member

- 2016 – 2018 Graduate Student Thesis Advisory Committee  
Student: Wyatt Loflin  
Title of project: *The effect of print layer thickness on the American Board of Orthodontics (ABO) Cast-Radiograph Evaluations (CRE) grading of 3D-printed models*  
Degree sought: Master of Science in Dentistry (MSD)  
Year of completion: 2018  
Role: Committee Member
- 2015 – 2017 Graduate Student Thesis Advisory Committee  
Student: Christian Favero  
Title of project: *A comparison of 3D-printed models using a desktop stereolithography printer to commercially fabricated 3D-printed models*  
Degree sought: Master of Science in Dentistry (MSD)  
Year of completion: 2017  
Role: Committee Member

**Student Advising:**

The University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences:

- 2019 – Present Primary Graduate Student Research Advisor  
Student: Caitlynn Barrows  
Title of project: *Design and Characterization of an In Vitro 3-Dimensional Salivary Gland Model of Sjogren's Syndrome*

The University of Texas Health Science Center at Houston, School of Dentistry, Department of Oral & Maxillofacial Surgery:

- 2020 – Present Faculty Mentor for Resident Research Project  
OMS resident: Bristol Galbraith, PGY1  
Title of project: *OMFS Imaging Algorithm for Odontogenic Pain in the Emergency Department*
- 2020 – Present Faculty Mentor for Resident Research Project  
OMS resident: David Chubb, PGY1  
Title of project: *Outcomes of ACell Utilized in Lieu of Split Thickness Skin Grafts at Free Flap Donor Sites*
- 2020 – Present Faculty Mentor for Resident Research Project  
OMS resident: Nicholas Branham, PGY2  
Title of project: *Management of Linear Morphea*

- 2020 – Present Faculty Mentor for Resident Research Project  
OMS resident: James Park, PGY2  
Title of project: *Analysis of Idiopathic Unilateral Condylar Hyperplasia*
- 2019 – Present Faculty Mentor for Resident Research Project  
OMS resident: Marcus Gillon, PGY3  
Title of project: *Efficacy of cellular bone allograft for maxillofacial reconstruction*
- 2019 – Present Faculty Mentor for Resident Research Project  
OMS resident: Audra Boehm, PGY3  
Title of project: *Characterization of Bone Tissue Engineering Materials in the Compromised Maxillofacial Wound Healing Environment*
- 2018 – Present Faculty Mentor for Resident Research Project  
OMS resident: Victoria Manon, PGY4  
Title of project: *A multi-site, prospective study of the safety and effectiveness of immediate inferior alveolar nerve allograft reconstruction with ablation of the mandible for malignant pathology*
- 2018 – 2021 Faculty Mentor for Resident Research Project  
OMS resident: Jack Hua, (Graduated July 2021)  
Title of project: *A multi-site, prospective study of the safety and efficacy of the PRV111 chemotherapy patch for subjects with oral squamous cell carcinoma*
- 2017 – Present Faculty Mentor for Resident Research Project  
OMS resident: Steven Balandran, PGY5  
Title of project: *Evaluation of topical 5-fluorouracil as adjunct therapy for keratocystic odontogenic tumors*
- 2017 – Present Faculty Mentor for Resident Research Project  
OMS resident: Andrew Bhagyam, PGY5  
Title of project: *Multidomain peptide hydrogels for peripheral nerve regeneration in the craniofacial complex*
- 2017 – 2021 Faculty Mentor for Resident Research Project  
OMS resident: Huy Tran (Graduated July 2021)  
Title of project: *Acquisition and Experimental Use of Salivary Gland Tissue for Tissue Engineering*

2017 – 2018 Faculty Mentor for Resident Research Project  
OMS resident: Marcus Couey (graduated in July 2018)  
Title of project: *Robust Anti-Tumor Immunity Is Transient and Limited by Immune Escape in a Novel Model of HPV-Associated Head and Neck Cancer*

The University of Texas Health Science Center at Houston, School of Dentistry, Student Academic Advisor Program:

2020 – Present Faculty Mentor for Undergraduate Dental Students  
DS2 (Class of '24): David Drake and Jacqueline Duquemin

2019 – Present Faculty Mentor for Undergraduate Dental Students  
DS3 (Class of '23): Suhyung Kim and Esmeralda Diaz

2017 – 2021 Faculty Mentor for Undergraduate Dental Students  
(Class of '21): Anthony Osborne and Luan Huynh

2016 – 2020 Faculty Mentor for Undergraduate Dental Students  
(Class of '20): Alexander Cai and Ian Castell

The University of Texas Health Science Center at Houston, School of Dentistry, ADEA Academic Dental Careers Fellowship Program:

2017 – 2018 OMS Faculty Co-Mentor in the ADEA Academic Dental Careers Fellowship Program  
Dental student: Victoria Manon, DS4 (now graduated)  
Title of project: *Evaluation of the success rates of immediately placed implants: A 5 year retrospective pilot study at UTSD-Houston*

The University of Texas Health Science Center at Houston, School of Dentistry, Summer Student Research Program:

2021 Faculty Mentor for Summer Research Program  
Student researcher: Skylar Mai, incoming DS1 student  
Title of project: *Bioinformatic Analysis of Tissue-Specific ACE2 Receptor Expression Utilizing Global Databases*

2020 Faculty Mentor for Summer Research Program  
Student researcher: Jianfei Xue, incoming DS1 student  
Title of project: *Single-cell RNA Sequencing Bioinformatic Analysis of the Tumor Immune Microenvironment*

- 2019 Faculty Mentor for Summer Research Program  
Student researcher: Alyson Yee, DS2 student  
Title of project: *IFN-1 Pathway Gene Expression in MOC1 Cells Treated with CDN*
- 2019 Faculty Mentor for Summer Research Program  
Student researcher: Nicholas Tipton, incoming DS1 student  
Title of project: *Comparative Drug Efficacy Study to Enhance Cancer Immunotherapy*
- 2018 Faculty Mentor for Summer Research Program  
Student researcher: Adrianna Jones, Rice University  
Title of project: *Characterization of Murine Oral Cancer Cells in a Multidomain Peptide Gel*
- 2016 Faculty Mentor for Summer Research Program  
Student researcher: Alex Cai, DS student (now graduated)  
Title of project: *Determining Metastatic Potential, E6 and E7 Gene Expression in a Novel Preclinical Model of HPV-Associated Head and Neck Squamous Cell Carcinoma*

**Current Teaching responsibilities:**

The University of Texas Health Science Center at Houston, School of Dentistry:

*Didactic courses:*

- 2018 – Present Course: DBPG 4003C (Thursday Clinico-Pathologic Conference)  
Role: Course lecturer to OMS residents
- 2016 – Present Course: DBPG 4001C (Tuesday OMS Seminar)  
Role: Organizer of intern resident project presentation and evaluation sessions
- 2016 – Present Course: DENS 2804 (Essentials of Medicine I)  
Role: Course lecturer to DS2 dental undergraduate students
- 2016 Course: DBPG 4002A (Orthognathic Surgery Seminar)  
Role: Course lecturer to OMS residents
- 2016 – Present Course: DBPG 1009 (Interdisciplinary Research Seminar I)  
Role: Course lecturer to orthodontic residents
- 2016 – Present Course: DBPG 1011 (Interdisciplinary Research Seminar III)  
Role: Course lecturer to orthodontic residents

*Preclinical courses:*

- 2018 – Present      Course: DHBS 3209 (Emergencies in the Dental Office)  
Role: Course lecturer to DH2 dental hygiene students
- 2018                    Course: DENS 4541 (Emergency Procedures II)  
Role: Course lecturer / hands-on instructor for DS4 dental undergraduate students
- 2017 – Present      Course: DENF 3541 (Emergencies in the Dental Office)  
Role: Course lecturer to DS3 dental undergraduate students
- 2017                    Course: CLIN 3016 (Clinical Simulation I)  
Role: Course lecturer / group facilitator for DS3 dental undergraduate students

*Clinical courses:*

- 2015 – Present      Course: CLIN 3007 (Oral Surgery Clinic)  
Role: OMS faculty instructor for DS3 dental undergraduate students in LBJ Oral Surgery Clinic and Operating Room
- 2013 – Present      Course: unlisted  
Role: One-on-one training of OMS residents in the clinic setting, on hospital rounds, and in the operating room while performing cases at LBJ General Hospital, 1 day per week
- 2005 – Present      Course: Advanced Cardiac Life Support (ACLS)  
Role: Lecturer and hands-on instructor for course participants

The University of Texas Health Science Center at Houston, Graduate School of Biomedical Sciences:

*Didactic courses:*

- 2019                    Course: GS04 1751 (Design and Delivery of Advanced Research Seminar)  
Role: Course lecturer to PhD graduate students
- 2018                    Course: GS21 1611 (Topics in Molecular Medicine)  
Role: Course lecturer to MD/PhD graduate students

**Past Teaching responsibilities:**

University of Toronto, Undergraduate Program:



2001 – 2002 Tutor, Saturday Program for Inner City High School Students

2001 Student Mentor, Summer Mentorship Program in the Health Sciences

Rice University:

2005 – 2006 Teaching Assistant, Physiology Laboratory (BIOE 320) and Biomaterials Engineering (BIOE 531)

2004 – 2008 Graduate Student Mentor, Dental Student Summer Research Program, The University of Texas Houston Health Science Center at Houston

2004 – 2005 Teaching Assistant, Systems Physiology (BIOE 322)

The University of Texas Health Science Center at Houston, School of Dentistry, Department of Oral & Maxillofacial Surgery:

2009 – 2011 Resident Instructor, History Taking and Physical Diagnosis Course for Predoctoral Dental Students

2003 – 2013 Formal Teaching of Resident Peers

- OMFS Department Clinical Pathological Conference – 2 presentations
- OMFS Department Introduction to Medical Management of Patients – 1 presentation
- OMFS Department Bi-Monthly Morbidity & Mortality Conference – 7 presentations
- OMFS Department Case-Based Learning Conference – 2 presentations
- Multi-disciplinary Facial Trauma Conference – 1 presentation

**Clinical Service Responsibilities:**

2015 – Present Staff surgeon in Department of Oral & Maxillofacial Surgery at Lyndon B. Johnson General Hospital, responsible for supervising patient care in the clinic, wards, and the operating room.

**Current Grant Support:**

- 2021 – Present      **National Institute of Dental and Craniofacial Research, Grant # R01 DE030140, SynerGel: A Novel Tumor Microenvironment-Modulating Hydrogel for Local Immunotherapy**, PI: Simon Young, Inclusive years: 2021-2026, Funding amount: \$2,765,800 (\$2,158,298 direct costs + \$607,502 indirect costs)
- 2021 – Present      **KLS Martin Group, Semiconductor Biomaterials as Implant Coatings for Rapid CMF Bone Regeneration**, PI: Venu Varanasi. Inclusive years: 2021-2024, Role: Co-Investigator, Funding amount: \$101,142 (\$77,802 direct costs + \$23,340 indirect costs).
- 2020 – Present      **Osteo Science Foundation, Peter Geistlich Research Award, Antioxidant Implant Coatings for Rapid Bone and Vascular Regeneration in Compromised Wound Healing**, PI: Venu Varanasi. Inclusive years: 2020-2022, Role: Co-Investigator, Funding amount: \$40,000 (\$36,000 direct costs + \$4,000 indirect costs).
- 2020 – Present      **Osteo Science Foundation, Peter Geistlich Research Award, Use of a Compromised Maxillofacial Wound Healing Model for Characterization of Bone Graft Materials**, PIs: Simon Young, F. Kurtis Kasper, Paulo Coelho, Lukasz Witek. Inclusive years: 2020-2022, Role: Co-PI, Funding amount: \$100,000 (\$90,000 direct costs + \$10,000 indirect costs).
- 2020 – Present      **Oral & Maxillofacial Surgery Foundation, Research Support grant, Development of Surgically Implantable Minor Salivary Gland-Based Constructs for Treatment of Xerostomia**, PIs: Cindy Farach-Carson and Simon Young, Inclusive years: 2020-2021 NCE, Role: co-PI, Funding amount: \$75,000.
- 2019 – Present      **The University of Texas Health Science Center at Houston Center for Clinical Trials and Translational Sciences TL1 Program, Grant #TL1 TR003169, Identifying The Role of Immune Cells on Loss of Salivary Function in Sjogren's Syndrome**, PIs: Simon Young and Mary C. Farach-Carson, Inclusive years: 2019-2021, Role: Co-Mentor (Graduate student training grant), Funding amount: \$95,554 (direct costs)

- 2018 – Present      **National Institute of Dental and Craniofacial Research, Grant # U01 DE028233, *Targeting the Immunosuppressive Tumor Microenvironment to Enhance Efficacy of Radiotherapy and Immunoradiotherapy for Oral Cancer***, PI: Andrew Sikora, Inclusive years: 2018-2023, Role: Co-Investigator, Funding amount: \$179,370 (\$116,475 direct costs + \$62,895 indirect costs)
- 2017 – Present      **National Institute of Dental and Craniofacial Research, Grant # R01 DE021798, *Self-assembling Peptide Nanofiber Hydrogels for Nerve Regeneration***, PI: Jeffrey Hartgerink, Inclusive years: 2017-2022, Role: Co-Investigator, Funding amount: \$577,500 (\$375,000 direct costs + \$202,500 indirect costs)
- 2016 – Present      **National Institute of Dental and Craniofacial Research, Grant # R01 DE024747, *Tunable Nanolayer-Polymer Composite Patches for Cell-Free CMF Repair***, PI: Paula Hammond, Inclusive years: 2016-2021 NCE, Role: Co-Investigator, Funding amount: \$1,065,930 (\$693,739 direct costs + \$372,191 indirect costs).

**Completed Grant Support:**

- 2019 – 2021      **National Institute of Dental and Craniofacial Research, Grant # R56 DE027964, *Printing and Regenerating Fractured Bone Using Antioxidant Materials***, PI: Venu Varanasi, Inclusive years: 2019-2021, Role: Co-Investigator, Funding amount: \$132,175 (\$85,000 direct costs + \$46,892 indirect costs)
- 2018 – 2021      **National Institute of Dental and Craniofacial Research, Grant # R21 DE027794, *STINGel Immunotherapy for Treatment-Resistant Head and Neck Cancer***, PI: Simon Young, Inclusive years: 2018-2021, Role: PI, Funding amount: \$263,553 (\$171,138 direct costs + \$92,415 indirect costs)

- 2018 – 2020 **Privo Corporation, Clinical Trial Support, *Phase III, Open-Label, Single-Arm Safety, Tolerability, Anti-Tumor Effects, Systemic Exposure, and Device Technical Effects of PRV111 (Cisplatin Transmucosal System) in Subjects with Oral Squamous Cell Carcinoma***, PI: Simon Young, Inclusive years: 2018-2021, Role: PI, Funding amount: \$57,684 (\$44,372 direct costs + \$13,312 indirect costs).
- 2018 – 2019 **Oral & Maxillofacial Surgery Foundation, Research Support grant, *Exploring Mechanisms to Improve STINGel Immunotherapy in Head and Neck Cancer***, PIs: Simon Young and Jeffrey Hartgerink, Inclusive years: 2018-2019, Role: co-PI, Funding amount: \$37,500.
- 2016 – 2018 **Osteo Science Foundation, Peter Geistlich Research Award, *Development of a Compromised Maxillofacial Wound Healing Model for Bone Graft Evaluation***, PIs: Simon Young and F. Kurtis Kasper, Inclusive years: 2016-2018, Role: Co-PI, Funding amount: \$100,000 (\$90,000 direct costs + \$10,000 indirect costs).
- 2015 – 2018 **University of Texas System, Rising STARS (Science and Technology Acquisition and Retention) Award, *The Use of Novel Implantable Cancer Vaccines for the Treatment of Oral Cancer***, PI: Simon Young, Inclusive years: 2015-2018, Role: PI, Funding amount: \$250,000.
- 2015 – 2018 **National Institute of Dental and Craniofacial Research, Grant # R00 DE023577, *The Use of Novel Implantable Cancer Vaccines for the Treatment of Oral Cancer***, PI: Simon Young, Inclusive years: 2015-2018, Role: Primary Investigator, Funding amount: \$750,000 (\$345,000 direct costs + \$405,000 indirect costs).
- 2013 – 2015 **National Institute of Dental and Craniofacial Research, Grant # K99 DE023577, *The Use of Novel Implantable Cancer Vaccines for the Treatment of Oral Cancer***, PI: David Mooney, Inclusive years: 2013-2015, Role: Postdoctoral Research Fellow, Funding amount to Harvard University: \$213,794 (\$197,957 direct costs + \$15,837 indirect costs).

2004 **Oral & Maxillofacial Surgery Foundation, Research Fellowship, *Promotion of Alveolar Bone Healing with Biopolymers***, PI: Antonios Mikos, Inclusive years: 2004-2005, Role: research fellow, Funding amount to Rice University: \$40,000.

**Presentations:**

*International:*

Conference, symposia, or workshop organizer:

2021 *Treating the Tumor Microenvironment in Head and Neck Cancer*, Annual Meeting of the International Association for Dental Research, Virtual Format, 7/22/21  
Role: IADR Symposium Organizer and Program Chair

2019 *Advances in Head and Neck Cancer Immunotherapy*, Annual Meeting of the International Association for Dental Research, Vancouver, Canada, 6/21/19  
Role: IADR Symposium Organizer and Program Chair

2019 *Advances in 3D Planning and Printing in Maxillofacial Surgery*, Annual Meeting of the International Association for Dental Research, Vancouver, Canada, 6/20/19  
Role: IADR Symposium Organizer and Program Chair

2019 *Advances in Maxillofacial Tissue Engineering*, Annual Meeting of the International Association for Dental Research, Vancouver, Canada, 6/19/19  
Role: IADR Symposium Organizer and Program Chair

2018 *Evolving Trends in Head and Neck Cancer Immunotherapy*, Annual Meeting of the International Association for Dental Research, London, United Kingdom, 7/27/18  
Role: IADR Symposium Organizer and Program Chair

Invited presentations at other universities and at professional meetings, conferences, and workshops:

2021 *From Tissue Engineering to Immunoengineering: Applying Materials for In Situ Cell Programming to Cancer Immunotherapy*, Advances in Tissue Engineering 28<sup>th</sup> Annual Short Course, Rice University, Houston, TX, 8/14/2021, 1 hour.

- 2021 *Biomaterial Platform Technologies for Enhancing Cancer Immunotherapy*, Annual Meeting of the International Association for Dental Research, Virtual Format, 7/22/21, 0.5 hours.
- 2019 *Injectable MDP Hydrogels for Localized Delivery of Cancer Immunotherapeutics*, 4<sup>th</sup> New Horizons in Immunotherapy for Head and Neck Cancer, Newberg, OR, 8/17/19, 0.5 hours.
- 2018 *Biomaterials-based Cancer Immunotherapy Platforms*, Annual Meeting of the International Association for Dental Research, London, United Kingdom, 7/27/18, 0.5 hours.
- 2016 *Novel Regenerative Medicine Strategies for Maxillofacial Reconstruction*, American Association of Blood Banks, AABB/TERMIS-Americas Joint Program: Regenerative Medicine Therapies for Wounded Soldiers, Orlando, FL, 10/24/16, 1 hour.
- 2016 *Applying Tissue Engineering Strategies to Cancer Immunotherapy*, Advances in Tissue Engineering 24<sup>th</sup> Annual Short Course, Rice University, Houston, TX, 8/11/2016, 1 hour.
- 2006 *Tissue Engineering in Oral and Maxillofacial Surgery*, Advances in Tissue Engineering 14<sup>th</sup> Annual Short Course, Rice University, Houston, TX, 8/19/2006, 1 hour.

Service as a panelist or discussant at professional meetings:

- July 2021 *Oral & Maxillofacial Surgery / Bone-Muscle Crosstalk and its Involvement in Craniofacial Bone Defect repair*, International Association for Dental Research Annual Meeting, Virtual Format, 7/24/21, 1.5 hours.  
Role: Oral Session Chair
- July 2021 *Oral & Maxillofacial Surgery / Next-Generation Advances in OMS Research*, International Association for Dental Research Annual Meeting, Virtual Format, 7/21/21, 1.5 hours.  
Role: Oral Session Chair

- June 2019      *Oral & Maxillofacial Surgery / TMJ, Cleft Lip/Palate, and Craniofacial Research*, International Association for Dental Research Annual Meeting, Vancouver, Canada, 6/21/19, 1.5 hours.  
Role: Oral Session Chair
- June 2019      *Oral & Maxillofacial Surgery / Cancer Research*, International Association for Dental Research Annual Meeting, Vancouver, Canada, 6/19/19, 1.5 hours.  
Role: Oral Session Chair
- June 2019      *Oral & Maxillofacial Surgery / Wound Healing and Tissue Regeneration*, International Association for Dental Research Annual Meeting, Vancouver, Canada, 6/19/19, 1.5 hours.  
Role: Oral Session Chair
- July 2018      *Oral & Maxillofacial Surgery / Cancer Research*, International Association for Dental Research Annual Meeting, London, United Kingdom, 7/26/18, 1.5 hours.  
Role: Oral Session Chair

Continuing education courses presented:

- 2020      *Innovations in Craniomaxillofacial Bone Tissue Engineering*, Osteo Science Foundation Webinar Series “Generations of Regeneration”, 4/24/20 at [www.osteoscience.org](http://www.osteoscience.org), 1 hour.

*National:*

Conference, symposia, or workshop organizer:

- 2018      *Immunotherapeutic Strategies Targeting Head and Neck Cancer*, American Association for Dental Research Annual Meeting, Ft. Lauderdale, USA, 3/22/18  
Role: AADR Symposium Organizer and Program Chair

Invited presentations at other universities and at professional meetings, conferences, and workshops:

- 2020      *Cancer Immunotherapy and Oral & Maxillofacial Surgery*, Collaborative OMFS Virtual Inter-Institutional Didactic (COVID) Program, multi-institutional online education program at <https://media.dent.umich.edu/sites/omfscovid/>, 08/13/20, 1.0 hour.

- 2019 *Biomaterials-based Cancer Immunotherapy Platforms for Intratumoral Delivery of Head and Neck Tumors*, TERMIS-AM Annual Meeting, Orlando, FL, 12/02/19, 0.5 hour.
- 2019 Trauma Clinical Interest Group: *Adaptable Osseous Regenerative Options for CMF Reconstruction*, Annual Meeting of the American Association of Oral and Maxillofacial Surgeons, Boston, MA, 9/19/19, 2 hours.
- 2018 *Biomaterials-based Cancer Vaccine Platforms*, Annual Meeting of the American Association for Dental Research, Ft. Lauderdale, FL, 3/22/18, 1 hour.

Service as a panelist or discussant at professional meetings:

- Mar 2018 *Oral & Maxillofacial Surgery / Research Session 1*, American Association for Dental Research Annual Meeting, Ft. Lauderdale, USA, 3/24/18, 1.5 hours,  
Role: Oral Session Chair

*Regional/State:*

Invited presentations at other universities and at professional meetings, conferences, and workshops:

- 2019 *Cancer Immunotherapy and Oral & Maxillofacial Surgery – Emerging Concepts for the Contemporary Surgeon*, The 29<sup>th</sup> Annual Edward C. Hinds Symposium on Contemporary Oral and Maxillofacial Surgery, The Houston Society of Oral & Maxillofacial Surgery, Houston, TX, 04/26/19, 1 hour.
- 2018 *Evolving Trends in Head and Neck Immunotherapy*, The 28<sup>th</sup> Annual Edward C. Hinds Symposium on Contemporary Oral and Maxillofacial Surgery, The Houston Society of Oral & Maxillofacial Surgery, Houston, TX, 04/28/18, 1 hour.
- 2015 *The Role of Growth Factors in Bone Formation*, The 25<sup>th</sup> Annual Edward C. Hinds Symposium on Contemporary Oral and Maxillofacial Surgery, The Houston Society of Oral & Maxillofacial Surgery, Houston, TX, 04/24/15, 0.5 hour.

*Local/Institutional:*

Conference, symposia, or workshop organizer:



- Feb 2020      *It's All About the Connection: The Team Concept for Dental Implant Therapy*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 2/13/20, 1 hour.  
Role: Study Club Organizer and Program Chair
- Sep 2019      *Risk Assessment for Biological Complications in Implant Dentistry: Bias and Checklists*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 10/10/19, 1 hour.  
Role: Study Club Organizer and Program Chair
- May 2019      *Recognizing Your Own Brand – The Most Important Implant Talk You'll Ever Hear*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 5/30/19, 1 hour.  
Role: Study Club Organizer and Program Chair
- Feb 2019      *Implant Dentistry: Research and Clinical Practice*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 2/21/19, 1 hour.  
Role: Study Club Organizer and Program Chair
- Sep 2018      *Enhancing Communication Using a Digital Workflow*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 9/20/18, 1 hour.  
Role: Study Club Organizer and Program Chair
- Apr 2018      *Considerations for Anterior Esthetics*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 4/23/18, 1 hour.  
Role: Study Club Organizer and Program Chair
- Nov 2017      *Are You Guided or Misguided?*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 11/30/17, 1 hour.  
Role: Study Club Organizer and Program Chair

- Aug 2017      *Peri-Implant Health and Complication Management*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 8/24/17, 1 hour.  
Role: Study Club Organizer and Program Chair
- May 2017      *The Predictably Unpredictable Implant*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 5/25/17, 1 hour.  
Role: Study Club Organizer and Program Chair
- Feb 2017      *Revitalize Fixed / Fixed Hybrid Surgical and Restorative Pick Up*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 2/16/17, 1 hour.  
Role: Study Club Organizer and Program Chair
- Nov 2016      *Trends in Digital Dentistry*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 11/17/16, 1 hour.  
Role: Study Club Organizer and Program Chair
- June 2016      *Implant Esthetics: Lessons I Have Learned*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 6/28/16, 1 hour.  
Role: Study Club Organizer and Program Chair

Invited presentations at other universities and at professional meetings, conferences, and workshops:

- 2020      *Immunotherapy for Head and Neck Cancer: A New Paradigm Using Biomaterials-Based Approaches*, Department of Diagnostic & Biomedical Sciences Seminar Series – University of Texas Health Science Center School of Dentistry at Houston, Houston, TX, 12/14/20, 1 hour.
- 2020      *Innovations in Craniomaxillofacial Tissue Engineering*, North American Strasbourg Osteosynthesis Research Group (S.O.R.G.) Meet the Expert Series – University Hospital University of Texas San Antonio, San Antonio, TX, 11/13/20, 2 hours.

- 2020 *Novel Biomaterials Approaches to Cancer Immunotherapy Development*, Department of Head and Neck Surgery Research Seminar Series – University of Texas MD Anderson Cancer Center, Houston, TX, 10/21/20, 1 hour.
- 2020 *Novel Biomaterials Approaches to Cancer Immunotherapy Development*, Immunology and Microbiology Seminar Series – Baylor College of Medicine, Houston, TX, 09/15/20, 1 hour.
- 2019 *Biomaterials-Based Approaches to Head and Neck Cancer Immunotherapy*, Center for Research and Scholarship – The University of Texas Arlington, Arlington, TX, 11/13/19, 1 hour.
- 2019 *Biomaterials-Based Cancer Immunotherapy Platforms for Head and Neck Cancer*, Department of Oral and Maxillofacial Surgery – Brooke Army Medical Center Oral and Maxillofacial Surgery Residency Program, San Antonio, TX, 09/04/19, 2 hours.
- 2019 *Clinical and Translational Research Projects in the Department of Oral & Maxillofacial Surgery*, Houston Center of Biomaterials & Biomimetics Dept. Research Series, University of Texas Health Science Center School of Dentistry, Houston, TX, 04/17/19, 1 hour.
- 2019 *Biomaterials-Based Cancer Immunotherapy Platforms for Head and Neck Cancer*, Thoracic, Head and Neck Cancer Research Seminar – University of Texas MD Anderson Cancer Center, Houston, TX, 02/04/19, 1 hour.
- 2019 *Biomaterials-Based Cancer Immunotherapy Platforms for Head and Neck Cancer*, Department of Bioscience Research Seminar Series – University of Tennessee Health Science Center, Memphis, TN, 01/16/19, 1 hour.
- 2018 *Biomaterials-Based Cancer Immunotherapy Platform Technologies*, Oral & Maxillofacial Surgery Grand Rounds – Mayo Clinic, Rochester, MN, 08/17/18, 1 hour.
- 2018 *Biomaterials-Based Cancer Immunotherapy Platforms*, Otolaryngology Head & Neck Surgery Grand Rounds – Baylor College of Medicine, Houston, TX, 06/07/18, 1 hour.

- 2017 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Oral & Maxillofacial Surgery Service Meeting - Houston Methodist Hospital, Houston, TX, 07/27/17, 30 minutes.
- 2016 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Thoracic, Head and Neck Cancer Research Seminar – University of Texas MD Anderson Cancer Center, Houston, TX, 05/02/16, 1 hour.
- 2016 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Department of Diagnostic & Biomedical Sciences Seminar Series – University of Texas Health Science Center School of Dentistry at Houston, Houston, TX, 02/22/16, 1 hour.
- 2015 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Head & Neck Cancer Working Group Monthly Seminar, Baylor College of Medicine, Houston, TX, 09/09/15, 0.5 hour.
- 2014 *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Department of Oral & Maxillofacial Surgery – University of California San Francisco, San Francisco, CA, 10/20/14, 1 hour.
- 2014 *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Department of Otolaryngology – Baylor College of Medicine, Houston, TX, 10/13/14, 1 hour.
- 2014 *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Goldman School of Dental Medicine - Boston University, Boston, MA, 9/25/14, 1 hour.
- 2014 *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Rutgers School of Dental Medicine, Newark, NJ, 9/23/14, 1 hour.
- 2007 *Tissue Engineering in Oral and Maxillofacial Surgery*, Department of Diagnostic and Biomedical Sciences, University of Texas Dental Branch at Houston, Houston, TX, 11/15/07, 1 hour.

2007 *Tissue Engineering in Oral and Maxillofacial Surgery: Trials and Tribulations*, Houston Society of Oral & Maxillofacial Surgeons, Houston, TX, 2/13/07, 1 hour.

**Publications:**

**H-index:** 23 (3,891 citations by September 2021)

Abstracts (\* = Presenting author):

1. **Young S\***, Dharmaraj N, Leach DG, Sikora AG, Hartgerink JD: Novel Tumor Microenvironment-Modulating Hydrogels for Cancer Immunotherapy. *American Academy of Craniomaxillofacial Surgeons Annual Meeting*, Orlando, Florida (Sep 2-5, 2021).

2. Zhang W\*, Saxena S, Fakhrzadeh A, Rudolph S, **Young S**, Kohn J, Yelick PC: hDPSC/HUVEC seeded E1001(1k) constructs for craniomaxillofacial bone repair. *International Association for Dental Research Annual Meeting*, (July 21-24, 2021).

3. Barrows C\*, Wu D, Callahan LS, **Young S**, Farach-Carson MC: Neurointegration of Assembling Human Salivary Stem/Progenitor Cells Assists Neotissue Formation. *International Association for Dental Research Annual Meeting*, (July 21-24, 2021).

4. Agrawal N\*, Izumchenko E, Hodge K, **Young S**, Melville JC, Shum J, Alsuwied D, Sandulache V, Harris M, Manzi A, Goldberg M: A Phase II Study of PRV111 Nanoengineered Cisplatin Patch as a Neoadjuvant Therapy for Early-Stage Oral Squamous Cell Carcinoma (OSCC), *Annual Meeting of the American Society of Clinical Oncology*, Online (June 4-8, 2021).

5. Chow C\*, **Young S**, Farach L, Farach-carson MC, Vigneswaran N, Manon V, Chubb D, Guenther J, Wong ME, and Melville JC: Genomic Analysis of COVID-Related Massive Macroglossia, *Annual Meeting of the Southwest Society of Oral & Maxillofacial Surgeons*, San Antonio, Texas (April 17, 2021).

6. Barrows CML\*, Wu D, Callahan LS, **Young S**, Farach-Carson MC: Tissue Engineering Strategies to Develop a 3D Innervated Salivary Gland Avatar. *3<sup>rd</sup> Biennial Patricia Levy Zusman International Workshop on Neuroregeneration*, Houston, Texas, USA (Mar 3-5, 2021).

7. Leach D, Munoz N, Dupuis C, Williams M, Dixon K, **Young S**, Sheth R\*, Hartgerink J: Self-Assembling Hydrogel Platform Improves Intratumoral Drug Delivery and Retention. *Society of Interventional Radiology Annual Scientific Meeting*, Seattle, Washington (Mar 28-Apr 2, 2020). (Conference canceled).

8. Yee A\*, Dharmaraj N, **Young S**: IFN-I Pathway Gene Expression in MOC1 Cells Treated with CDN. *International Association for Dental Research Annual Meeting*, Washington DC, USA (Mar 18-21, 2020). (Conference canceled).
9. Ahuja N\*, Awad K, Monte F, Brotto M, Aswath P, Kim H, **Young S**, Varanasi V: Effect of Silicon-Oxynitrophosphide on Osteogenesis and Angiogenesis in Craniofacial Applications. *International Association for Dental Research Annual Meeting*, Washington DC, USA (Mar 18-21, 2020). (Conference canceled).
10. Barrows C\*, Wu D, Callahan LS, **Young S**, Farach-Carson MC: Neuroprogenitor Cells Influence Human Salivary Microstructures in Bioactive Hydrogels. *International Association for Dental Research Annual Meeting*, Washington DC, USA (Mar 18-21, 2020). (Conference canceled).
11. **Young S\***, Dharmaraj N, Leach DG, Piotrowski S, Sikora AG, Hartgerink JD: Biomaterials-Based Cancer Immunotherapy in Preclinical Models of Treatment-Resistant Head and Neck Cancer. *American Association of Oral & Maxillofacial Surgeons Annual Meeting*, Boston, Massachusetts (September 16-21, 2019). **(Winner, oral abstract session)**.
12. Ahuja N\*, Awad K, Tran H, Wilson L, Aswath P, **Young S**, Varanasi V: Antioxidant Properties and Enhanced Osteointegration by SiONx Coated Mandibular Implants. *International Association for Dental Research Annual Meeting*, Vancouver, Canada (June 18-22, 2019).
13. **Young S\***, Piotrowski SL, Dharmaraj N, Clark A, Taylor R, Bankson J, Hill LR, Lai SY, Kasper FK: Development of a Novel Rabbit Model of Compromised Oral Wound Healing. *American Academy of Craniomaxillofacial Surgeons Annual Meeting*, San Antonio, Texas (May 9-10, 2019).
14. Tan YS, Heath BR, Hill BD, Luo X, Rizvi SM, Moghbeli T, Hu H, Siismets E, Wen H, Xie Y, Sun D, **Young S**, Zou W, Wen F, Lei YL: Resolving STING-Mediated Tumor Immune Microenvironment Shift at Single-Cell Resolution. *AACR-AHNS Head and Neck Cancer Conference: Optimizing Survival and Quality of Life through Basic, Clinical, and Translational Research*, Austin, Texas (April 29-30, 2019).
15. Leach DG\*, Dharmaraj N, Piotrowski SL, Lopez-Silva TL, Lei YL, Sikora AG, **Young S**, Hartgerink JD: STINGel: A Biomaterial-Based Drug Delivery Vehicle for Enhanced Cancer Immunotherapy. *Materials Research Society Spring Meeting*, Phoenix, Arizona (April 22-26, 2019).

16. Ali N\*, **Young S**, Shum JW, Hanna IA, Wong ME, Melville JC: The Efficacy of Bioengineering (Stem Cells, Allogeneic bone, and rhBMP-2) for Reconstruction of Large Mandibular Continuity Defects: A Retrospective Study of 24 Patients over a 3-Year Period. *American Association of Oral & Maxillofacial Surgeons Annual Meeting*, Chicago, Illinois (October 8-13, 2018).

17. **Young S\***, Dharmaraj N, Leach DG, Piotrowski S, Sikora AG, Hartgerink JD: Biomaterials-Based Cancer Immunotherapy in Preclinical Models of Treatment-Resistant Head and Neck Cancer. *American Association of Oral & Maxillofacial Surgeons Annual Meeting*, Chicago, Illinois (October 8-13, 2018). (**Winner, oral abstract session**).

18. Kasper FK\*, Piotrowski SL, Dharmaraj N, Clark A, Tailor R, Bankson J, Hill LR, Lai SY, **Young S**: Development of a Compromised Maxillofacial Wound Healing Model for Bone Tissue Engineering. *TERMIS World Congress*, Kyoto, Japan (September 4-7, 2018).

19. Melville JC\*, Tran H, Carrier MS, **Young S**, Shum JW, Hanna I, Wong ME: Efficacy of Stem-Cell Biotechnology for Reconstruction of Large Mandibular Continuity Defects. *International Association for Dental Research Annual Meeting*, London, United Kingdom (July 25-28, 2018).

20. Menegotto K\*, Hanna IA, Shum JW, **Young S**, Wong ME, and Melville JC: The Efficacy of Stem Cell Biotechnology for Reconstruction of Mandibular Continuity Defects: A Retrospective Study of 24 Patients Over a 3-year Period, *Combined Annual Meeting of the Southwest Society of Oral & Maxillofacial Surgeons and Texas Society of Oral & Maxillofacial Surgeons*, Carmel, California (April 20, 2018).

21. Couey M\*, Dharmaraj N, Piotrowski SL, Golfman LS, Koshy ST, Li WA, Mooney DJ, Sikora AG, **Young S**: Robust Anti-Tumor Immunity Induced by Ectopic Expression of Viral Antigen is Transient and Limited by Immune Escape. *UTHealth House Staff Research Day*, Houston, Texas (April 9, 2018). (**Winner, poster session**).

22. Dharmaraj, N\*, Leach DG, Piotrowski SL, Sikora AG, Hartgerink JD, **Young S**: STINGel Immunotherapy in MOC2-E6E7, a Murine Orthotopic Model of HNSCC. *J Dent Res*, 97 (Spec Iss A):0722, 2018.

23. Melville JC, Johnson J, Jaul D\*, Shum JW, **Young S**, Hanna I, Wong ME: Efficacy of Stem-Cell Biotechnology for Reconstruction of Mandibular Continuity Defects. *J Dent Res*, 97 (Spec Iss A):1388, 2018.

24. Piotrowski SL\*, Dharmaraj N, Clark A, Tailor R, Bankson J, Hill LR, Lai SY, Kasper FK, **Young S**: Development of a Novel Pre-Clinical Model of Compromised Oral Wound Healing. *J Dent Res*, 97 (Spec Iss A):1510, 2018.

25. Manon VA\*, Gilbert HD, **Young S**, Young JS: Evaluation of the Success Rates of Immediately Placed Implants: A 5 Year Retrospective Pilot Study at UTSD Houston. *American Dental Education Association Annual Meeting*, Orlando, Florida (March 17-20, 2018).
26. Dharmaraj N\*, Piotrowski SL, Golfman LS, Koshy ST, Li WA, Mooney DJ, Sikora AG, **Young S**: Robust Anti-Tumor Immunity Induced by Ectopic Expression of Viral Antigen is Transient and Limited by Immune Escape. *Innovations in Cancer Prevention and Research Conference Annual Meeting*, Austin, Texas (November 13-14, 2017).
27. **Young S\***, Dharmaraj N, Piotrowski S, Koshy ST, Li WA, Mooney DJ, Sikora AG: Overcoming Resistance to Checkpoint Inhibitors through a Rationally-Designed Combinatorial Immunotherapy Approach. *J Oral Maxillofac Surg*, 75(10 Suppl): e331-e332, 2017.
28. Wilson LA\*, Miller JJ, Work RK, Piotrowski SL, **Young S**, Lai SY, Lockworth CR, Hill LR: Novel Diet Regimen for Lagomorphs in a Compromised Oral Wound Healing Study. *American Association for Laboratory Animal Science Annual Meeting*, Austin, Texas (October 15-19, 2017).
29. Cai A, Golfman L, Dharmaraj N, **Young S\***: Characterization of MOC-2-E6E7, A Novel Preclinical Model of HPV-Associated HNSCC. *J Dent Res*, 96 (Spec Iss A):1770, 2017.
30. Melville JC\*, Shum JW, Hanna IA, **Young S**, Wong ME: The Role of Stem Cells in Mandibular Reconstruction. *J Dent Res*, 96 (Spec Iss A):1739, 2017.
31. Melville JC, Nasser NN\*, Hanna I, Demian NM, **Young S**, Wong ME, Shum JW: Immediate Trans-Oral Tissue Engineered Allogeneic Bone Grafting for Large Continuity Defects. Less Morbidity, More Bone. A Paradigm in Benign Tumor Mandibular Reconstruction? *J Oral Maxillofac Surg*, 74(9 Suppl):e84, 2016.
32. Johnson JM, Bishop R, Maida BD\*, Carrier MS, **Young S**, Shum JW, Hanna I, Wong ME, Melville JC: The Use of a Custom-Made Ethylene Vinyl Acetate Interim Obturator for Sub-Total and Total Maxillectomies: A Report of 4 Cases. *J Oral Maxillofac Surg*, 74(9 Suppl):e83, 2016.
33. **Young S\***, Koshy ST, Li WA, Golfman L, Melville JC, Shum JW, Sikora AG, Wong ME, Mooney DJ: Development of Mesoporous Silica Rod-Based Immunotherapies for Head and Neck Squamous Cell Carcinoma. *J Oral Maxillofac Surg*, 74(9 Suppl):e5, 2016.



34. Couey M\* and **Young S**: Immunotherapy in the Treatment of Oral Cancer, *Combined Annual Meeting of the Southwest Society of Oral & Maxillofacial Surgeons, Texas Society of Oral & Maxillofacial Surgeons, and Midwestern Chapter of Oral & Maxillofacial Surgeons*, Grapevine, Texas (April 15, 2016).
35. Shum S, Dyalram D, **Young S\*** and Melville J: Integrate Hospital Clinics into Clinical Curricula: Capitalize on the Experience! *American Dental Education Association Annual Meeting*, Denver, Colorado (March 12-15, 2016).
36. Gu, L\*, Chaudhuri O, Darnell M, **Young S**, Klumpers D, Weaver JC, Bencherif SA, Huebsch N, and Mooney DJ: Regulating Stem Cell Fate Using Hydrogels with Tunable Stress Relaxation. *Annual Meeting of the Biomedical Engineering Society*, Tampa, Florida. (October 7-10, 2015).
37. Spicer PP\*, Shi M, Kretlow JD, **Young S**, Demian N, Jansen JA, Wong ME, Kasper FK, and Mikos AG: Antibiotic-Releasing Porous Poly(methyl methacrylate) Space Maintainers for Soft Tissue Healing and Infection Control. *Bioactive Materials: Regenerative Medicine Technologies Session, 38<sup>th</sup> Meeting of the Controlled Release Society*, National Harbor, Maryland. (July 30-August 3, 2011).
38. Spicer PP, Shi M\*, Kretlow JD, **Young S**, Demian N, Jansen JA, Wong ME, Kasper FK, and Mikos AG: Antibiotic-Releasing Porous Poly(methyl methacrylate) Space Maintainers for Craniofacial Tissue Engineering. *Aegean Conferences: 4<sup>th</sup> International Conference on Tissue Engineering*, Chania, Crete, Greece. (May 31- June 5, 2011).
39. Spicer PP\*, Henslee AM, Kretlow JD, Shi M, **Young S**, Demian N, Wong ME, Kasper FK, and Mikos AG: *In Situ* Formation of Porous Poly(methyl methacrylate) Scaffolds for Space Maintenance of Craniofacial Bone Defects. *2011 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 17-20, 2011).
40. Spicer PP, Kretlow JD\*, Henslee AM, Shi M, **Young S**, Demian N, Jansen JA, Wong ME, Kasper FK, and Mikos AG: *In Situ* Formation of Porous Poly(methyl methacrylate) Space Maintainers for Craniofacial Complex Regeneration. *Tissue Engineering and Regenerative Medicine International Society (TERMIS) North American Annual Conference*, Orlando, Florida. (December 5-8, 2010).
41. Shi M\*, Kretlow JD, **Young S**, Wong ME, Kasper FK, and Mikos AG: Gelatin Microparticle-Incorporating Poly(methyl methacrylate) Constructs for Craniofacial Tissue Engineering. *The Society for Biomaterials Annual Meeting*, Seattle, Washington. (April 21-24, 2010).

42. Shi M\*, Kretlow JD, **Young S**, Wong ME, Kasper FK, and Mikos AG: Antibiotic-releasing Porous Poly(methyl methacrylate) Constructs for Osseous Space Maintenance and Infection Control. *2010 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 11-14, 2010).
43. Kretlow JD\*, Shi M, **Young S**, Spicer PP, Damien N, Jansen JA, Wong ME, Kasper FK, and Mikos AG: Porous Poly(methyl methacrylate) Space Maintainers Promote Soft Tissue Coverage of Clean/Contaminated Alveolar Bone Defects. *2010 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 11-14, 2010).
44. Spicer PP\*, Kretlow JD, Shi M, **Young S**, Wong ME, Kasper FK, and Mikos AG: *In Situ* Formation of Porous Poly(methyl methacrylate) Scaffolds for Space Maintenance of Craniofacial Bone Defects. *2010 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 11-14, 2010).
45. Shi M\*, Kretlow JD, **Young S**, Kasper FK, Wong ME, and Mikos AG: Antibiotic-releasing Porous Poly(methyl methacrylate) Scaffolds for Osseous Space Maintenance and Infection Control. *2nd World Congress of the Tissue Engineering and Regenerative Medicine International Society (TERMIS)*, Seoul, Korea. (August 31-September 3, 2009).
46. Kretlow JD\*, Shi M, **Young S**, Kasper FK, Wong ME, and Mikos AG: Porous Poly(methyl methacrylate) Implants for Osseous Space Maintenance and Promotion of Soft Tissue Healing around Craniofacial Bone Defects. *2nd World Congress of the Tissue Engineering and Regenerative Medicine International Society (TERMIS)*, Seoul, Korea. (August 31-September 3, 2009).
47. Shi M\*, Kretlow JD, **Young S**, Kasper FK, Wong ME, and Mikos AG: Porous Poly(methyl methacrylate) Implants for Osseous Space Maintenance Following Craniofacial Injury. *2009 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 13-16, 2009).
48. **Young S\***, Mikos AG, Wong ME: Controlled Release Technology for Bone Regeneration Applications. *Southwest Society of Oral & Maxillofacial Surgeons Annual Meeting*, Houston, Texas (April 25, 2008).
49. Azhar D\*, **Young S**, Mikos A, Wong M: Characterization and Optimization of PPF/NVP Scaffolds. *J Dent Res* 87(Spec Iss A):0163, 2008.
50. **Young S\***, Nguyen C, Kretlow JD, Mikos AG, Wong M: Poly(Propylene Fumarate) Scaffolds with Surface Porosity for Space Maintenance of Mandibular Defects. *J Oral Maxillofac Surg* 65: 36.e1, 2007. **(Winner, oral abstract session)**.

51. Nguyen C\*, **Young S**, Kretlow JD, Wong M, Mikos AG: Soft Tissue Response to Implantation of Hybrid Poly(Propylene Fumarate) Scaffolds in a Critical Size Mandibular Defect. *J Oral Maxillofac Surg* 65: 43.e66-67, 2007.

52. **Young S\***, Mikos AG, Wong ME: Controlled Release Technology for Bone Regeneration. *Southwest Society of Oral & Maxillofacial Surgeons Annual Meeting*, Las Vegas, Nevada (April 08, 2005).

53. **Young S\***, Fisher J, Lalani Z, Mikos AG, Wong ME: Material Properties of Importance to Bone Regeneration. *Southwest Society of Oral & Maxillofacial Surgeons Annual Meeting*, San Diego, California (April 16, 2004).

Peer Reviewed/Refereed Original Articles in Journals:

(\* = Co-senior author)

1. Shi Y, Xie T, Leach DG. **Young S (5/11)**...Rangel R [*I contributed to study design and edited the final paper*]: Local Anti-PD1 Delivery Prevents Progression of Premalignant Lesions in a 4NQO-Oral Carcinogenesis Mouse Model. *Cancer Prev Res (Phila)*, 2021. *In press*. DOI: 10.1158/1940-6207.CAPR-20-0607

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3. Munoz N, Williams M, Dixon K. **Young S (15/18)**...Sheth RA [*I contributed to study design, methodology, data acquisition, and edited the final paper*]: Influence of Injection Technique, Drug Formulation and Tumor Microenvironment on Intratumoral Immunotherapy Delivery and Efficacy. *J Immunother Cancer*, 9(2):e001800, 2021.

4. Leach DG, Dharmaraj N, Lopez-Silva T, Rodriguez Venzor J, Pogostin B, Sikora AG, Hartgerink JD\*, **Young S\***: Biomaterial-facilitated Immunotherapy for Established Oral Cancers. *ACS Biomater Sci Eng*,7(2):415-421, 2021.

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1. Shen C, Witek L, Flores R, Tovar N, Torroni A, Coelho PG, Kasper FK, Wong M, **Young S**: 3D Printing for Craniofacial Bone Tissue Engineering. *Tissue Eng Part A*, 26(23-24):1303-1311, 2020.

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1. **Young S**, Kasper FK, Melville JC, Donahue R, Athanasiou KA, Mikos AG, Wong M: Tissue Engineering in Oral and Maxillofacial Surgery. *In Principles of Tissue Engineering*, 5th edition. (ed. Lanza R, Langer R, Vacanti JP, Atala A). London, United Kingdom: Academic Press, 2020: 1201-1216.
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Books:

1. Regenerative Strategies for Maxillary and Mandibular Reconstruction: A Practical Guide, 1<sup>st</sup> edition. (ed. Melville JC, Shum JW, **Young S**, Wong ME). Cham, Switzerland: Springer International Publishing, 2019.

**Patents:**

Mooney DJ, Gu L, Chaudhuri O, Huebsch N, **Young S**, Darnell M. Viscoelastic hydrogels with fast relaxation. US Patent # 11,065,362 B2 (7/20/21).

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