

Curriculum Vitae

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

Present Title: Assistant Professor, Director of Research

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

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 Faculty in Bioengineering)
09/15 – Present	The University of Texas Health Science Center at Houston, Houston, Texas, USA (Assistant Professor in Oral & Maxillofacial Surgery)
07/13 – 09/15	The University of Texas Health Science Center at Houston, 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:

2015 – Present	International Association for Dental Research / American Association for Dental Research, Vice-President of the Oral & Maxillofacial Surgery Group (Term 2020 – 2021)
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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, 101th Annual Meeting of the American Association of Oral and Maxillofacial Surgeons Held in Conjunction with the Dutch Association of Oral and Maxillofacial Surgeons (NVMKA). **Role:** Presenter and Research Primary Investigator.

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, 100th Annual Meeting of the American Association of Oral and Maxillofacial Surgeons. **Role:** 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, 89th 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 1st 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:

2020	Review Editor on the Editorial Board for the Open Access journal <i>Frontiers in Aging – Molecular Mechanisms of Aging</i> , Published by Frontiers Media S.A.
2019	Co-Editor of Textbook Entitled <i>Regenerative Strategies for Maxillary and Mandibular Reconstruction: A Practical Guide</i> , Published by Springer International Publishing, 2019.
2018 – Present	Series Co-Editor of the <i>Techniques in Dentistry and Oral & Maxillofacial Surgery</i> Video Platform by Springer Nature Video. (https://link.springer.com/video)

Reviewer:

2020 – Present	Manuscript Reviewer for <i>Annals of Biomedical Engineering</i> (one article/year)
2019 – Present	Manuscript Reviewer for <i>Nature Biomedical Engineering</i> (one article/year)
2019 – Present	Manuscript Reviewer for <i>The Journal of Dental Research</i> (one article/year)

2019 – Present	Manuscript Reviewer for <i>The Journal of the California Dental Association</i> (one article/year)
2017 – Present	Manuscript Reviewer for <i>Oncotarget</i> (one article/year)
2017 – Present	Manuscript Reviewer for <i>Molecular Therapy</i> (one article/year)
2017 – Present	Manuscript Reviewer for <i>Advanced Healthcare Materials</i> (one article/year)
2017 – Present	Manuscript Reviewer for <i>Oncoimmunology</i> (one article/year)
2016 – Present	Manuscript Reviewer for <i>Oral Oncology</i> (one article/year)
2016 – Present	Manuscript Reviewer for <i>International Journal of Nanomedicine</i> (one article/year)
2016 – Present	Manuscript Reviewer for <i>Journal of Oral Implantology</i> (one article/year)
2009 – Present	Manuscript Reviewer for <i>The British Journal of Oral and Maxillofacial Surgery</i> (one article/year)
2008 – Present	Manuscript Reviewer for <i>The Journal of Oral and Maxillofacial Surgery</i> (one article/year)
2005 – Present	Manuscript Reviewer for <i>Tissue Engineering</i> (two articles/year)

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 2018 Meeting
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:

March 2020	Ad Hoc Reviewer, National Institute of Dental and Craniofacial Research Fellowship Application Review Panel, NIDCR ZDE1 NB21
2017 – Present	Conference Abstract Reviewer, Oral & Maxillofacial Surgery Scientific Group, American Association for Dental Research 2018 Meeting
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:

March 2020	Vice-President , IADR Oral & Maxillofacial Surgery Group
March 2020	IADR Council Representative , Oral & Maxillofacial Surgery Group
July 2018	IADR Council Representative , Oral & Maxillofacial Surgery Group
2017 – Present	Group Program Chair , IADR/AADR Oral Surgery Scientific Group Symposium Organizing Committee

Service on Texas Medical Center Committees:

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

2016	Resident Research Project Review Committee
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**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 UTHHealth 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:

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 – Present 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 UTHHealth 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: <i>Development of a preclinical model of compromised maxillofacial wound healing</i> Year of completion: 2018
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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: <i>Design and Characterization of an In Vitro 3-Dimensional Salivary Gland Model of Sjogren's Syndrome</i> Degree sought: Doctor of Philosophy (PhD) Role: Committee Chair
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Rice University, Department of Chemistry:

2016 – 2020	Graduate Student Thesis Advisory Committee Student: David Leach Title of project: <i>Multidomain Peptide Biomaterials for Enhanced Delivery of Anti-Cancer Immunotherapies</i> Degree sought: Doctor of Philosophy (PhD) Year of completion: 2020 Role: Committee Member
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The University of Texas Health Science Center at Houston, School of Dentistry,
Department of Orthodontics:

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| 2017 – 2019 | Graduate Student Thesis Advisory Committee
Student: Marian McCarty
Title of project: <i>The impact of print orientation and UV curing duration on the dimensional accuracy of 3D-printed clear orthodontic aligners</i>
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: <i>The effect of print layer thickness on the American Board of Orthodontics (ABO) Cast-Radiograph Evaluations (CRE) grading of 3D-printed models</i>
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: <i>A comparison of 3D-printed models using a desktop stereolithography printer to commercially fabricated 3D-printed models</i>
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:

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| 2019 – Present | Primary Graduate Student Research Advisor
Student: Caitlynn Barrows
Title of project: <i>Design and Characterization of an In Vitro 3-Dimensional Salivary Gland Model of Sjogren's Syndrome</i> |
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The University of Texas Health Science Center at Houston, School of Dentistry,
Department of Oral & Maxillofacial Surgery:

- 2019 – Present Faculty Mentor for Resident Research Project
 OMS resident: Marcus Gillon, PGY2
 Title of project: *Efficacy of cellular bone allograft for maxillofacial reconstruction*
- 2019 – Present Faculty Mentor for Resident Research Project
 OMS resident: Audra Boehm, PGY2
 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, PGY3
 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 – Present Faculty Mentor for Resident Research Project
 OMS resident: Jack Hua, PGY6
 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, PGY4
 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, PGY4
 Title of project: *Multidomain peptide hydrogels for peripheral nerve regeneration in the craniofacial complex*
- 2017 – Present Faculty Mentor for Resident Research Project
 OMS resident: Huy Tran, PGY6
 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
DS1 (Class of '24): David Drake and Jacqueline Duquemin

2019 – Present Faculty Mentor for Undergraduate Dental Students
DS2 (Class of '23): Suhyung Kim and Esmeralda Diaz

2017 – Present Faculty Mentor for Undergraduate Dental Students
DS4 (Class of '21): Anthony Osborne and Luan Huynh

2016 – 2020 Faculty Mentor for Undergraduate Dental Students
DS4 (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:

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:

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| 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:

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| 2009 – 2011 | Resident Instructor, History Taking and Physical Diagnosis Course for Predoctoral Dental Students |
| 2003 – 2013 | Formal Teaching of Resident Peers <ul style="list-style-type: none">- 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:

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| 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. |
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Current Grant Support:

- 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, Role: co-PI, Funding amount: \$75,000.
- 2019 – Present **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)
- 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: 2019-2020, Role: Co-Mentor (Graduate student training grant), Funding amount: \$47,777 (direct costs)
- 2018 – Present **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 – 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, Role: Co-Investigator, Funding amount: \$1,065,930 (\$693,739 direct costs + \$372,191 indirect costs).

Completed Grant Support:

- 2018 – 2020 **Privo Corporation, Clinical Trial Support, *Phase I/II, 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:

- 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:

- 2019 *Injectable MDP Hydrogels for Localized Delivery of Cancer Immunotherapeutics*, 4th 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 24th Annual Short Course, Rice University, Houston, TX, 8/11/2016, 1 hour.
- 2006 *Tissue Engineering in Oral and Maxillofacial Surgery*, Advances in Tissue Engineering 14th Annual Short Course, Rice University, Houston, TX, 8/19/2006, 1 hour.

Service as a panelist or discussant at professional meetings:

- 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, 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 29th 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 28th 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 25th 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 *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:

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 (June 4-6, 2021). *Accepted*.
2. 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).
3. 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).
4. 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).

5. 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).
6. **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)**.
7. 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).
8. **Young S***, Piotrowski SL, Dharmaraj N, Clark A, Tailor 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).
9. 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).
10. 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).
11. 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).
12. **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)**.

13. 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).
14. 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).
15. 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).
16. 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**).
17. 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.
18. 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.
19. 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.
20. 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).
21. 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).

22. **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.
23. 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).
24. 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.
25. 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.
26. 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.
27. 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.
28. **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.
29. 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).
30. 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).
31. 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).

32. 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, 38th Meeting of the Controlled Release Society*, National Harbor, Maryland. (July 30-August 3, 2011).
33. 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: 4th International Conference on Tissue Engineering*, Chania, Crete, Greece. (May 31- June 5, 2011).
34. 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).
35. 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).
36. 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).
37. 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).
38. 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).

39. 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).
40. 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).
41. 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).
42. 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).
43. **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).
44. Azhar D*, **Young S**, Mikos A, Wong M: Characterization and Optimization of PPF/NVP Scaffolds. *J Dent Res* 87(Spec Iss A):0163, 2008.
45. **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)**.
46. 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.
47. **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).
48. **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. Piotrowski SL, Wilson L, Maldonado KL, Tailor R, Hill LR, Bankson JA, Lai S, Kasper FK, **Young S**: Effect of Radiation on DCE-MRI Pharmacokinetic Parameters in a Rabbit Model of Compromised Maxillofacial Wound Healing: A Pilot Study. *J Oral Maxillofac Surg*, 78(6):1034.e1-1034.e10, 2020.
2. Luo X, Donnelly CR, Moghbell T. **Young S (9/22)**...Lei YL [*I contributed data and edited the final paper*]: HPV16 Drives Cancer Immune Escape via NLRX1-mediated Degradation of STING. *J Clin Invest*, 130(4):1635-1652, 2020.
3. Melville JC, Tran HQ, Bhatti AK. **Young S (5/6)**...Wong ME [*I contributed data and edited the final paper*]: Is Reconstruction of Large Mandibular Defects Using Bioengineering Materials Effective? *J Oral Maxillofac Surg*, 78(4):661.e1-661.e29, 2020.
4. Leach DG, Newton JM, Florez M. **Young S (6/8)**...Hargerink JD [*I contributed data and edited the final paper*]: Drug-Mimicking Nanofibrous Peptide Hydrogel for Inhibition of Inducible Nitric Oxide Synthase. *ACS Biomater Sci Eng*, 5(12):6755-65, 2019. DOI: 10.1021/acsbiomaterials.9b01447
5. Wehr C, Cruz G, **Young S**, Fakhouri WD [*I assisted with study design and edited the final paper*]: An Insight into Acute Pericoronitis and the Need for an Evidence-Based Standard of Care. *Dent J (Basel)*, 7(3): E88, 2019.
6. Newton JM, Hanoteau A, Liu HC. **Young S (13/14)**...Sikora AG [*I contributed data and edited the final paper*]: Immune Microenvironment Modulation Unmasks Therapeutic Benefit of Radiotherapy and Checkpoint Inhibition. *J Immunother Cancer*, 7(1):216, 2019.
7. Piotrowski SL, Wilson L, Dharmaraj N, Hamze A, Clark A, Tailor R, Hill L, Lai S, Kasper FK, **Young S**: Development and Characterization of a Rabbit Model of Compromised Maxillofacial Wound Healing. *Tissue Eng Part C Methods*, 25(3):160-167, 2019.
8. Dharmaraj N, Piotrowski SL, Huang C, Newton JM, Golfman LS, Hanoteau A, Koshy ST, Li WA, Pulikkathara MX, Zhang B, Burks JK, Mooney DJ, Lei YL, Sikora AG, **Young S**: Anti-Tumor Immunity Induced by Ectopic Expression of Viral Antigens is Transient and Limited by Immune Escape. *Oncoimmunology*, 8(4):e1568809, 2019.
9. Tan YS, Sansanaphongpricha K, Xie Y. **Young S (13/19)**...Lei YL [*I contributed data and edited the final paper*]: Mitigating SOX2-Potentiated Immune Escape of Head and Neck Squamous Cell Carcinoma with a STING-Inducing Nanosatellite Vaccine. *Clin Cancer Res*, 24(17):4242-4255, 2018.

10. Leach DG, Dharmaraj N, Piotrowski SL, Lopez-Silva TL, Lei YL, **Young S (6/7)***, Hartgerink JD* [*Co-senior author, study design, contribution of data, and editing the final paper*]: STINGel: Controlled Release of a Cyclic Dinucleotide for Enhanced Cancer Immunotherapy. *Biomaterials*, 163:67-75, 2018.
11. Wilson LA, Miller JJ, Work RK. **Young S (6/9)**...Hill LR [*I contributed data, performed experiments, and edited the final paper*]: Novel Diet Regimen for Lagomorphs in a Compromised Oral Wound Healing Study. *Lab Animal Sci Prof*, Mar: 49-51, 2018.
12. Darnell M, **Young S (2/8)**, Gu L...Mooney D [*I contributed data, performed experiments, and edited the final paper*]: Substrate Stress-Relaxation Regulates Scaffold Remodeling and Bone Formation in Vivo. *Adv Healthc Mater*, 6(1):1601185, 2017.
13. Shah SR, **Young S (2/6)**, Goldman JL...Mikos AG [*I contributed data and co-wrote the paper*]: A Composite Critical Size Rabbit Mandibular Defect for Evaluation of Craniofacial Tissue Regeneration. *Nat Protoc*, 11(10):1989-2009, 2016.
14. Melville JC, Hornberger JC, Chandler KM, **Young S**, Shum JW [*I contributed data and edited the final paper*]: Reconstruction of Temporal Hollowing Defect with Anterior-Lateral Thigh Free Flap Following Resection of Recurrent Ameloblastoma of the Infratemporal Fossa and Right Mandible (A Case Report). *J Oral Maxillofac Surg*, 74(9):1898.e1-9, 2016.
15. Melville JC, Tursun R, Shum JW, **Young S (4/6)**...Marx RE [*I contributed data and edited the final paper*]: A Technique for the Treatment of Oral-Antral Fistulae Resulting from Medication-Related Osteonecrosis of the Maxilla: The Combined Buccal Fat Pad Flap and Radical Sinusotomy. *Oral Surg Oral Med Oral Pathol Oral Radiol*, 122(3):287-91, 2016.
16. Kinard LA, Dahlin RL, Henslee AM. **Young S (9/12)**...Mikos AG [*I contributed to study design and edited the final paper*]: Tissue Response to Composite Hydrogels for Vertical Bone Augmentation in the Rat. *J Biomed Mater Res A*, 102(7):2079-88, 2014.
17. Spicer PP, Kretlow JD, **Young S (3/6)**...Mikos AG [*I contributed data and co-wrote the paper*]: Evaluation of Bone Regeneration using the Rat Critical Size Calvarial Defect. *Nat Protoc*, 7(10):1918-29, 2012.
18. Spicer PP, Kretlow JD, Henslee AM. **Young S (5/10)**...Kasper FK [*I contributed to study design and edited the final paper*]: In Situ Formation of Porous Space Maintainers in a Composite Tissue Defect. *J Biomed Mater Res A*, 100(4):827-33, 2012.

19. Nguyen C, **Young S (2/5)**, Kretlow JD...Wong M [*I designed the study, performed experiments, contributed data, and edited the final paper*]: Surface Characteristics of Biomaterials Used for Space Maintenance in a Mandibular Defect: a Pilot Animal Study. *J Oral Maxillofac Surg*, 69(1):11-18, 2011.
20. Kretlow JD, Shi M, **Young S (3/9)**...Mikos AG [*I helped with study design and contributed data*]: Evaluation of Soft Tissue Coverage over Porous Poly(Methyl Methacrylate) Space Maintainers within Non-Healing Alveolar Bone Defects. *Tissue Eng. Part C: Methods*, 16(6):1427-38, 2010.
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