

Curriculum Vitae

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

Present Title: Assistant Professor

Address: Department of Oral and Maxillofacial Surgery
University of Texas Health Science Center at
Houston, School of Dentistry
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Houston, Texas 77054
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Citizenship: Canadian, w/ Permanent Residency status in the USA

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 University of Texas Medical School at Houston,
Houston, Texas, USA
(M.D., 2011)

Postgraduate Training:

07/03 – 06/13 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)

Other Employment:

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

Hospital Appointments:

09/13 – Present Ben Taub General Hospital – Harris Health System

09/13 – Present Lyndon B. Johnson General Hospital –
Harris Health System

09/13 – Present Memorial Hermann Hospital - Texas Medical Center

09/15 – Present Houston Methodist Hospital - Texas Medical Center

Licensure:

07/03 – Present Royal College of Dental Surgeons of Ontario

07/03 – Present Texas State Board of Dental Examiners

09/13 – Present Texas Medical Board

Certification:

07/03 – Present Advanced Cardiac Life Support Instructor

07/03 – Present Basic Life Support Provider

11/10 – 11/14 Advanced Trauma Life Support Provider

06/13 – Present Pediatric Advanced Life Support Provider

03/15 – Present Diplomate of the American Board of Oral and
Maxillofacial Surgery

Professional Associations:

Local:

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

Regional:

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

National:

2003 – Present Omicron Kappa Upsilon Dental Honor Society
2003 – July 2015 Canadian Dental Association
2003 – Present American Association of Oral and Maxillofacial Surgeons
2006 – Present American Dental Education Association
2006 – Present American Dental Association
2008 – Present American Medical Association
2010 – Present Alpha Omega Alpha Medical Honor Society
2015 – Present American Association of Cancer Research
2015 – Present American Academy of Craniomaxillofacial Surgeons

Honors and Awards:

1996 Trinity College Scholarship, Trinity College, University of Toronto
1997 Trinity College Scholarship, Trinity College, University of Toronto
1997 Dean's List, Trinity College, University of Toronto

- 1998 Trinity College Scholarship, Trinity College, University of Toronto
- 1998 Dean's List, Trinity College, 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
- 2000 The Royal College of Dental Surgeons Scholarship in Basic Sciences, 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
- 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
- 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
- 2004 Research Fellowship, The Oral and Maxillofacial Surgery Foundation
- 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
- 2010 Alpha Omega Alpha National Medical Honor Society
- 2011 Hershel M. Rich Invention Award, Rice University
- 2013 Pathway to Independence Award (K99/R00), National Institute of Dental and Craniofacial Research
- 2015 Rising STARs (Science and Technology Acquisition and Retention) Award, University of Texas System

Reviewer:

- 2005 – Present Manuscript Reviewer, *Tissue Engineering*, (approx. 2 manuscript reviews per year)
- 2009 – Present Manuscript Reviewer, *The British Journal of Oral and Maxillofacial Surgery*, (approx. 2 manuscript reviews per year)
- 2016 – Present Manuscript Reviewer, *Oral Oncology*

Service on National Grant Review Panels, Study Sections, Committees:

- Feb 2016 Early Career ad hoc Reviewer, National Institutes of Health Oral, Dental, and Craniofacial Sciences Study Section

Service on International Grant Review Panels, Study Sections, Committees:

- 2015 – Present Grant Reviewer, Cancer Research UK

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

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

- 2015 – Present Credentialing Committee
- 2015 – Present Research Committee
- 2016 – Present Senior Faculty Search Committee, Department of Diagnostic and Biomedical Sciences
- 2016 – Present Mentor in Student Academic Advisor Program

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

2015 – Present Resident Admissions Committee

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

2016 – Present 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*

Service on Baylor College of Medicine Committees:

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

2016 – Present Resident Research Project Committee
2016 – Present Graduate Student Thesis Advisory Committee
Student: Jared Newton
Title of project: *Combined immunomodulation and
checkpoint inhibitors for HPV+ oropharyngeal cancer*

Service to the Community:

06/98 Dental Clinic, Mount Sinai Hospital, Toronto, Canada,
(Volunteer for 3 months)
02/02 International Dental Students Conference, (Volunteer)
11/02 Winter Clinic, Academy of General Dentistry, (Volunteer)
09/05 University of Texas at Houston Dental Branch Mobile Clinic
for Hurricane Katrina Victims (Volunteer)

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:

- 2004 – 2005 Teaching Assistant, Systems Physiology (BIOE 322)
- 2004 – 2008 Mentor, Dental Student Summer Research Program,
University of Texas Houston Health Science Center at
Houston
- 2005 – 2006 Teaching Assistant, Physiology Laboratory (BIOE 320) and
Biomaterials Engineering (BIOE 531)

University of Texas Health Science Center at Houston:

- 2003 – 2013 Formal Teaching of 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
- 2005 – Present Instructor, Advanced Cardiac Life Support (ACLS)
- 2009 – 2011 Instructor, History Taking and Physical Diagnosis Course for
Predoctoral Dental Students
- 2013 – Present Assistant Professor, Department of Oral & Maxillofacial
Surgery
- Responsibilities
- Training residents in both the clinic setting and in the operating room while performing cases
 - Participation in teaching dental students for the following courses:
 - o DEN 2804 (Essentials of Medicine I)
 - o DEN 3016 (Clinical Simulation I)

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

Grant support:

Current:

2013 – Present 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: 2013-2018, Role: Postdoctoral Research Fellow (K99 phase from 2013-2015), Primary Investigator (R00 phase from 2015-2018)

2015 – Present 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.

Past:

2004 Oral & Maxillofacial Surgery Foundation, Research Fellowship, *Promotion of Alveolar Bone Healing with Biopolymers*, PI: Antonios Mikos, Inclusive years: 2004-2005, Role: research fellow

Publications:

Abstracts:

1. **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.
2. 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.
3. Azhar D, **Young S**, Mikos A, Wong M: Characterization and Optimization of PPF/NVP Scaffolds. *J Dent Res* 87(Spec Iss A):0163, 2008.

4. 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).
5. 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).
6. 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).
7. 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. *2009 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 11-14, 2010).
8. 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. *2009 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 11-14, 2010).
9. 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. *2009 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 11-14, 2010).
10. 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).
11. 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).

12. 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. *2009 Armed Forces Institute of Regenerative Medicine "All Hands" Meeting*, St. Pete Beach, Florida. (January 17-20, 2011).
13. 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).
14. 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).
15. 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).
16. 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).
17. **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. *American Association of Oral & Maxillofacial Surgeons Annual Meeting*, Las Vegas, Nevada (September 18-23, 2016). *Accepted*.

Peer Reviewed/Refereed Original Articles in Journals:

1. **Young S**, Wong M, Tabata Y, Mikos AG: Gelatin as a Delivery Vehicle for the Controlled Release of Bioactive Molecules. *J Control Release* 109(1-3): 256-274, 2005.
2. Kasper FK, **Young S**, Tanahashi K, Barry MA, Tabata Y, Jansen JA, Mikos AG: Evaluation of Bone Regeneration by DNA Release from Composites of Oligo(poly(ethylene glycol)fumarate) and Cationized Gelatin Microspheres in a Critical-sized Calvarial Defect. *J Biomed Mater Res A* 78(2): 335-342, 2006.

3. Ashcroft JM, Hartman KB, Kissell KR, Mackeyev Y, Pheasant S, **Young S**, Van der Heide PAW, Mikos AG, Wilson LJ: Single-molecule I₂@US-tube Nanocapsules: A New X-ray Contrast-Agent Design. *Adv Mater* 19(4): 573-576, 2007.
4. Hacker M, Ringhofer M, Appel B, Neubauer M, Vogel T, **Young S**, Mikos AG, Blunk T, Gopferich A, Schulz MB: Solid Lipid Templating of Macroporous Tissue Engineering Scaffolds. *Biomaterials* 28(24): 3497-3507, 2007.
5. **Young S**, Bashoura AG, Borden T, Baggett LS, Jansen JA, Wong M, Mikos AG: Development and Characterization of a Rabbit Alveolar Bone Non-Healing Defect Model. *J Biomed Mater Res A* 86A(1): 182-194, 2008.
6. Patel ZS, **Young S**, Tabata Y, Jansen JA, Wong M, Mikos AG: Dual Delivery of an Angiogenic and Osteogenic Growth Factor for Bone Regeneration in a Critical Size Defect. *Bone* 43(5):931-940, 2008.
7. **Young S**, Kretlow JD, Nguyen C, Bashoura AG, Baggett LS, Jansen JA, Wong M, Mikos AG: Microcomputed Tomography Characterization of Neovascularization in Bone Tissue Engineering Applications. *Tissue Eng B:Reviews*, 14(3): 295-306, 2008.
8. Kretlow JD, **Young S**, Klouda L, Wong M, Mikos AG: Injectable Biomaterials for Regenerating Complex Craniofacial Tissues. *Adv Mater*, 21(32-33):3368-3393, 2009.
9. **Young S**, Patel ZS, Kretlow JD, Murphy MB, Mountziaris PM, Baggett LS, Ueda H, Tabata Y, Jansen JA, Wong M, Mikos AG: Dose Effect of Dual Delivery of Vascular Endothelial Growth Factor and Bone Morphogenetic Protein-2 on Bone Regeneration in a Rat Critical Size Defect Model. *Tissue Eng A*, 15(9):2347-62, 2009.
10. Guo X, Park H, **Young S**, Kretlow JD, van den Beucken JJ, Baggett LS, Tabata Y, Kasper FK, Mikos AG, Jansen JA: Repair of Osteochondral Defects with Biodegradable Hydrogel Composites Encapsulating Marrow Mesenchymal Stem Cells in a Rabbit Model. *Acta Biomater*, 6(1):39-47, 2010.
11. Shi M, Kretlow JD, Nguyen A, **Young S**, Baggett LS, Wong ME, Kasper FK, Mikos AG: Antibiotic-releasing Porous Poly(methyl methacrylate) Constructs for Osseous Space Maintenance and Infection Control. *Biomaterials*, 31:4146-4156, 2010.
12. Kretlow JD, Shi M, **Young S**, Spicer PP, Demian N, Jansen JA, Wong ME, Kasper FK, and Mikos AG: 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.

13. Nguyen C, **Young S**, Kretlow JD, Mikos AG, Wong M: 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.
14. Spicer PP, Kretlow JD, Henslee AM, Shi M, **Young S**, Demian N, Jansen JA, Wong ME, Mikos AG, and Kasper FK: *In Situ* Formation of Porous Space Maintainers in a Composite Tissue Defect. *J Biomed Mater Res A*, 100(4):827-33, 2012.
15. Spicer PP, Kretlow JD, **Young S**, Jansen JA, Kasper FK, Mikos AG: Evaluation of Bone Regeneration using the Rat Critical Size Calvarial Defect. *Nat Protoc*, 7(10):1918-29, 2012.
16. Kinard LA, Dahlin RL, Henslee AM, Spicer PP, Chu CY, Tabata Y, van den Beuckenn JJ, Jansen JA, **Young S**, Wong ME, Kasper FK, and Mikos AG: Tissue Response to Composite Hydrogels for Vertical Bone Augmentation in the Rat. *J Biomed Mater Res A*, 102(7):2079-88, 2014.
17. Melville JC, Tursun R, Shum JW, **Young S**, Hanna IA, and Marx RE: 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 Ora Pathol Oral Radiol*, in press. DOI: 10.1016/j.oooo.2016.03.015
18. Melville JC, Hornberger JC, Chandler KM, **Young S**, and Shum JW: 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*, in press. DOI: 10.1016/j.joms.2016.04.032
19. Shah SR, **Young S**, Goldman JL, Jansen JA, Wong ME, Mikos AG: A Composite Critical Size Rabbit Mandibular Defect for Evaluation of Craniofacial Tissue Regeneration. *Nat Protoc*, Accepted.

Chapters:

1. Spicer P, **Young S**, Kasper FK, Athanasiou KA, Mikos AG, Wong M: Tissue Engineering in Oral and Maxillofacial Surgery. *In Principles of Tissue Engineering*, 4th edition. (ed. Lanza R, Langer R, Vacanti JP). Academic Press, San Diego, USA, 2013.
2. Smith BT, Shum J, Wong M, Mikos AG, **Young S**: Bone Tissue Engineering Challenges in Oral & Maxillofacial Surgery. *In Advances in Experimental Medicine and Biology*, Vol. 881. (ed. Bertassoni L and Coelho P). Springer International Publishing, 2015.

3. **Young S**, Kasper FK, Melville J, Shum J, Mikos AG, Wong M: Novel regenerative medicine strategies for maxillofacial reconstruction. *In* Carlson E. *The Luckiest Man in the World: Clinical Studies in Honor of Robert E. Marx*. Chicago: Quintessence, 2016. *In press*.

Presentations:

International:

Invited presentation:

- 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.*
- 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.*

National:

Conference:

- 2007 *Poly(Propylene Fumarate) Scaffolds with Surface Porosity for Space Maintenance of Mandibular Defects, 89th Annual Meeting of the American Association of Oral and Maxillofacial Surgeons, Honolulu, Hawaii, 10/11/07, Scientific abstract presentation*
- 2016 *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, CO, 3/15/16, Educational seminar*

Regional/State:

Conference:

- 2004 *Material Properties of Importance to Bone Regeneration, Southwest Society of Oral & Maxillofacial Surgeons Annual Meeting, San Diego, CA, 4/16/04, Resident presentation*

- 2005 *Controlled Release Technology for Bone Regeneration*, Southwest Society of Oral & Maxillofacial Surgeons Annual Meeting, Las Vegas, NV, 4/08/05, Resident presentation
- 2016 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, TX, 4/15/16, Resident presentation

Local/Institutional:

Invited presentation:

- 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.
- 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.
- 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*, 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*, Department of Oral & Maxillofacial Surgery – University of California San Francisco, San Francisco, CA, 10/20/14, 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.
- 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.
- 2015 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Department of Orthodontics – University of Texas Health Science Center School of Dentistry at Houston, Houston, TX, 09/23/15, 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.
- 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.

Patents:

Mikos AG, Wong, ME, **Young SW**, Kretlow JD, Shi M, Kasper FK, Spicer PP. Combined space maintenance and bone regeneration system for the reconstruction of large osseous defects. US Patent Application # 13/548,385 (filed 2012). *Pending*.

Mooney DJ, Gu L, Chaudhuri O, Huebsch N, **Young S**, Darnell M. Viscoelastic hydrogels with fast relaxation. US Patent Application # 14/738,294 (filed 2015). *Pending*.

Contact Information:

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