

CURRICULUM VITAE

Parish P. Sedghizadeh DDS, MS, QME

Associate Professor of Clinical Dentistry
Director, USC Center for Biofilms
Section Chair, Diagnostic Sciences
Program Director, Oral Pathology and Radiology



I. BIOGRAPHICAL INFORMATION

PERSONAL INFORMATION:

University Office: University of Southern California
Herman Ostrow School of Dentistry of USC
Division of Periodontology, Diagnostic Sciences &
Dental Hygiene
925 West 34th Street, DEN 4110
Los Angeles, CA 90089-0064

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EDUCATION:

Postdoctoral Education:

2001-2004 Master of Science in Oral Biology
Residency Program, Oral and Maxillofacial Pathology
The Ohio State University
College of Dentistry

Doctoral Education:

1998-2001 Doctor of Dental Surgery
University of Southern California
Herman Ostrow School of Dentistry of USC

Undergraduate Education:

1992-1996 Bachelor of Science
University of California, Los Angeles
Major: Biology
Minor: Neurobiology
Awarded: 1998 (Magna Cum Laude)



Externships/Internships:

- 2004 Advanced Head and Neck Imaging, University of Toronto, Canada
– Served as extern to the radiology department learning advanced diagnostic head and neck imaging, including CT, MRI/MRA, PET, TMJ tomography, nuclear medicine, and sialography application and interpretation
- 2003 Dermatology–Dermatopathology, Ohio State University Medical Center, Ohio
– Served as intern in the dermatopathology department evaluating and managing patients with developmental, inflammatory and neoplastic skin lesions
- 2002 Hematopathology and Hematologic Oncology, Ohio State University Medical Center, Ohio
– Served as intern in the department of hematopathology, clinical hematology/hematologic oncology learning definitive diagnosis of blood cancers such as lymphoma, leukemia and myeloma
- 2001 Orofacial Pain Clinic, School of Dentistry, University of Southern California, California
– Served as intern in the orofacial pain clinic evaluating and managing patients with facial pain disorders and chronic pain conditions
- 2000 Oral and Maxillofacial Surgery; Los Angeles County + USC Medical Center, California
– Served as intern in the oral and maxillofacial surgery department learning evaluation and treatment planning for oral surgery and performing maxillofacial surgical procedures such as exodontia and biopsy

Additional Coursework and Training:

- 2013-2014 Massachusetts Institute of Technology, Open Courseware
– Biology, Chemistry, Physics, Mathematics, Engineering, Computer Science, Law, Economics, Business and Management
- 2013 Center for Excellence in Research, University of Southern California
– Transdisciplinary Team Leadership Course and Workshop
- 2013 Clinical and Translational Science Institute, University of Southern California
– “How to Respond to Reviewer Criticisms” Grant Seminar
- 2012 Clinical and Translational Science Institute, University of Southern California
– Summer Course in Clinical and Translational Research



- 2011 Clinical and Translational Science Institute, University of Southern California
– Summer Course in Translational Research and Bioinformatics
- 2011 Norris Medical Library, University of Southern California
– Workshop on Bioinformatics Software and Databases
- 2011 Center for Excellence in Research, University of Southern California
– Workshop on Developing NIH Grant Applications
- 2010 American Association for Dental Research Annual Meeting
– Task Force on Design and Analysis in Dental and Oral Research Workshop
- 2010 Center for Excellence in Research, University of Southern California
– Workshop on Responsible Conduct of Research
- 2010 Center for Excellence in Research, University of Southern California
– Workshop on Developing Funded Research Programs

ACADEMIC APPOINTMENTS:

- 2004-present Assistant Professor of Clinical Dentistry, Herman Ostrow School of Dentistry, University of Southern California (USC)
Director, USC Center for Biofilms
Program Director, USC Oral Pathology and Radiology distance learning program

OTHER PREVIOUS EMPLOYMENT:

- 2003-2004 Pathology Instructor, Hospital of Veteran's Affairs, Dayton, Ohio.
Taught a series of lectures and seminars that provided current and detailed information to general practice residents about oral and systemic diseases, including etiology, epidemiology, pathogenesis and management.
- 2002-2004 Instructor, Kaplan Test Centers, Inc., Columbus, Ohio.
Consultant and instructor for standardized entrance exams for dental (DAT), optometry (OAT), pharmacy (PCAT), and medical school (MCAT), in addition to teaching board exam material for these respective professions.



CONSULTANTSHIPS:

- 2017-present Consultant, BioVinc LLC and BV Pharma Inc., Pasadena, CA.
Bone-targeted therapeutics and diagnostics: <https://www.biovinc.com/>
- 2017-present Consultant, Oral Pathology Associates Inc., Los Angeles, CA.
Oral pathology biopsy service: <http://www.oralpathologyassociates.com>
- 2017-present Medicolegal Consultant, California Medical Evaluators[®], Los Angeles, CA.
<https://calmedeval.com>
- 2004-2010 Consultant, Primary Insight[®] Contributor Network (Independent Research Provider), <http://www.primaryinsight.com>
- 2005-2010 Consultant, Gerson Lehrman Group[®], Council of Healthcare Advisors (Healthcare and Biomedical Sector), <https://glg.it>
- 2001-2004 Consultant, Kaplan Test Prep[®], a Washington Post Subsidiary
<https://www.kaptest.com>

HONORS, AWARDS, FELLOWSHIPS:

- 2016 Fellow, Pierre Fauchard Academy
- 2015 Valuable Contribution Award for Education – 7th Annual Scientific Meeting, Qassim University College of Dentistry
- 2014 Valuable Contribution Award for mentoring minority and disadvantaged pre-health students – California State University Los Angeles
- 2013 Valuable Contribution Award for mentoring minority and disadvantaged pre-health students – California State University Los Angeles
- 2010 Certificate of Appreciation – Iranian Student Association, Herman Ostrow School of Dentistry of USC
- 2010 Certificate of Appreciation for valuable contribution to the academy – American Academy of Restorative Dentistry
- 2009-2015 Health Disparities Scholar and Grant Recipient – National Institutes of Health (NIH), National Institutes on Minority Health and Health Disparities (NIMHD)
- 2008 Charles E. English Annual Award in Clinical Science and Techniques – International Congress of Oral Implantologists
- 2008 Certificate of Appreciation for valuable contributions – 7th International Endodontic Symposium, School of Dentistry, University of Southern California
- 2007 Eminent Scientist of the Year in Medical Research and Pathology – World Scientists Forum and International Research Promotion Council
- 2007 Full-Time Basic and Applied Science Faculty Award – School of Dentistry, University of Southern California
- 2001-2005 Fellow – American Academy of Oral and Maxillofacial Pathology (AAOMP)



2001-2004	Fellow and Scholarship Recipient – American Cancer Society (ACS)
2001	R.L. Fowkes and L.J. Fogel Memorial Award – Southern California Academy of Oral Pathology
2001	USC Merit Scholarship – University of Southern California
2001	Merit Award – American Academy of Oral Medicine
2000	Dental Education Scholarship for Outstanding Achievement – California Dental Association
1998	Certificate of Recognition for Community Service – Placentia-Yorba Linda Unified School District and AYUDA Dental Clinic
1998-2001	Dean’s List, School of Dentistry – University of Southern California

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

2016-present	Fellow, Pierre Fauchard Academy
2011-present	Member, American Association for Dental Research / International Association for Dental Research
2014-present	Member, Southern California Orofacial Academy
2010-present	Member, American Association for the Advancement of Science
2007-present	Member, American Dental Education Association

MEMBERSHIP IN OTHER ORGANIZATIONS:

2008-2017	Board of Directors, Century Club Alumni Association, Herman Ostrow School of Dentistry, University of Southern California
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BOARD CERTIFICATION AND LICENSURE/CERTIFICATIONS:

2017-present	Qualified Medical Examiner (QME), State of California
2004-2015	Board Certified, American Board of Oral and Maxillofacial Pathology
2001-present	California State Dental Board —Doctor of Dental Surgery (DDS), License # 48677 —Drug Enforcement Agency (DEA) # FS2177182

II. ADMINISTRATIVE AND SERVICE ACTIVITIES

UNIVERSITY SERVICE:

Herman Ostrow School of Dentistry

2017-present	Section Chair, Diagnostic Sciences; Division of Periodontology, Diagnostic Sciences and Dental Hygiene
2015-2017	Faculty Advisor, Dental Ergonomics Club
2011-Present	Director, Summer Research Fellowship Program



- 2010-Present Faculty Advisor, Student Research Group
- 2010-2013 Member, Student Professional Performance and Evaluation Committee
- 2010-2011 Chair, Strategic Planning Committee, Division of Periodontology and Diagnostic Sciences
- 2009-Present Co-Chair, Annual Research Day Planning Committee
- 2009-2010 Member, Curriculum Committee
- 2008-Present Board of Directors, Century Club Alumni Organization
- 2006-2008 Member, Clinical Practice Committee

University of Southern California

- 2014-Present Member, Free Radical Institute, University of Southern California
- 2013-Present Grant Reviewer, Clinical and Translational Science Institute (CTSI)
- 2012-2013 Member, Industry Sponsored Clinical Trials Committee

ACTIVITIES IN PROFESSIONAL ORGANIZATIONS:

- 2016-present Fellow, Pierre Fauchard Academy
- 2006-present Director, Secretary, and Board Member; Southern California Academy of Oral Pathology

OTHER SERVICE/COMMUNITY ACTIVITIES:

- 2011-Present Mentor, California State University Los Angeles (provide mentorship for minority and disadvantaged pre-health students)
- 1993-1995 Volunteer, UCLA Medical Center – Los Angeles, CA
- 1998-2004 Volunteer, AYUDA Mobile Dental Clinics – Southern California, Mexico, South America
- 1998-2001 Volunteer, Veteran’s Affairs (VA) Hospital – Los Angeles, CA
- 1998-2001 Volunteer, Children’s Dental Clinic – Los Angeles, CA

PRIVATE PRACTICE:

- 2015-present Allan Jones DDS, MS Dentistry – A Professional Corporation; 23440 Hawthorne Blvd, Suite 120, Torrance, CA

EDITORIAL ACTIVITIES:

Editorial Board

- 2013-current *The Open Otorhinolaryngology Journal*

Review Editor



2014-current *Frontiers in Cellular and Infection Microbiology*

Guest Editor

2015-2016 *Journal of the California Dental Association*

Scientific Review for Journals

- *New England Journal of Medicine*
- *Journal of Bone and Mineral Research*
- *Bone*
- *Journal of Medical Microbiology*
- *BMC Infectious Diseases*
- *International Journal of Medical Microbiology*
- *American Journal of Infection Control*
- *British Journal of Cancer*
- *Journal of Rheumatology*
- *Therapeutics and Clinical Risk Management*
- *Journal of Clinical Pharmacology*
- *Journal of Cancer Research and Therapeutics*
- *Neuropsychiatric Disease and Treatment*
- *Clinical Orthopaedics and Related Research*
- *Orthopedic Research and Reviews*
- *Osteoporosis International*
- *Calcified Tissue International*
- *Clinical Interventions in Aging*
- *European Journal of Haematology*
- *European Journal of Pediatrics*
- *European Journal of Dentistry*
- *Medical Science Monitor*
- *Journal of Dentistry for Children*
- *World Journal of Surgical Oncology*
- *Journal of Maxillofacial and Oral Surgery*
- *BMC Oral Health*
- *Journal of Oral and Maxillofacial Pathology*
- *Oral Surgery Oral Medicine Oral Pathology Oral Radiology*
- *Odontology*
- *Oral Diseases*
- *Clinical Interventions in Aging*

III. SCHOLARLY ACTIVITIES

PUBLICATIONS

Published Papers in Peer-Reviewed Journals

(senior or corresponding author underlined, *signifies mentored USC student)

1. Stucky A, Sedghizadeh PP, Mahabady S*, Chen X, Zhang C, Zhang G, Zhang X, Zhong JF. Single-cell genomic analysis of head and neck squamous cell carcinoma. *Oncotarget* 2017; Epub ahead or print.
2. Mahabady S*, Tjokro N*, Aharonian S*, Zadeh HH, Chen C, Allayee H, Sedghizadeh PP. The in vivo Th17 and Treg immune response to *Aggregatibacter actinomycetemcomitans*. *Mol Oral Microbiol* 2017; Epub ahead of print.
3. Junka A, Szymczyk P, Ziółkowski G, Karuga-Kuzniewska E, Smutnicka D, Bil-Lula I, Bartoszewicz M, Mahabady S*, Sedghizadeh PP. Bad to the Bone: on in vitro and ex vivo microbial biofilm ability to directly destroy colonized bone surfaces without participation of host immunity or osteoclastogenesis. *PLoS One* 2017; 11;12(1): e0169565.



4. **Sedghizadeh PP**, Sun S, Junka A, Richard E, Sadrerarfi K, Mahabady S*, Bakhshalian N, Tjokro N, Bartoszewicz M, Oleksy M, Szymczyk P, Lundy MW, Neighbors JD, RG Russell, McKenna CE, **Ebetino FH**. Design, synthesis, and antimicrobial evaluation of a novel bone-targeting bisphosphonate-ciprofloxacin conjugate for the treatment of osteomyelitis biofilms. *J Med Chem* 2017;60:2326-43.
5. **Sedghizadeh PP**, Mahabady S*, Allen CM. Opportunistic infections of the oral cavity. *Dent Clin North Am* 2017; 61:389-400.
6. Cardona A*, Balouch A*, Mohammed MA*, **Sedghizadeh PP**, **Enciso R**. Efficacy of Chlorhexidine for the Prevention and Treatment of Oral Mucositis in Cancer Patients: A Systematic Review with Meta-analyses. *J Oral Pathol Med* 2017; 137:13-22.
7. Junka A, Wojtowicz W, Krasowski G, Zabek A, Smutnicka D, Bakalorz B, Dziadas M, Mlynarz P, **Sedghizadeh PP**, **Bartoszewicz M**. Metabolic profiles of exudates from infected chronic leg ulcerations. *J Pharm Biomed Anal* 2017; 137:13-22.
8. **Enciso R**, Keaton J*, Saleh N*, Ahmadiéh A, Clark GT, **Sedghizadeh PP**. Assessing the utility of sCTX as a predictor for the development of BRONJ: A systematic review and meta-analysis. *J Am Dent Assoc* 2016;S0002-8177(16)00099-4.
9. **Enciso R**, **Sedghizadeh PP**, Ahmadiéh A, Keaton J*, Saleh N*. Author's response. *J Am Dent Assoc* 2016;147(10):778-9.
10. **Sedghizadeh PP**. Dental Student Research. *J Calif Dent Assoc*. 2016;44:491.
11. Al-Eryani K*, Karasneh J, **Sedghizadeh PP**, Ram SS, **Sawair F**. Lack of Utility of Cytokeratins in Differentiating Pseudocarcinomatous Hyperplasia of Granular Cell Tumors from Oral Squamous Cell Carcinoma. *Asian Pac J Cancer Prev* 2016;1785-7.
12. **Sedghizadeh PP**, Billington WD*, Paxton D*, Ebeed R*, Mahabady S*, Clark GT, **Enciso R**. Is p16 positive oropharyngeal squamous cell carcinoma associated with favorable prognosis? A systematic review and meta-analysis. *Oral Oncol* 2016;54:15-27.
13. Karasneh J*, Al-Eryani K*, Clark GT, **Sedghizadeh PP**. Modified protocol including topical minocycline in orabase to manage medication-related osteonecrosis of the jaw cases. *J Oral Pathol Med* 2016; 45:718-20.
14. **Moazzam AA**, Rajagopal SM, **Sedghizadeh PP**, Zada G, Sanchez A, Habibian M. Intracranial bacterial infections of oral origin: a systematic review of the literature. *J Clin Neurosci* 2015;22:800-6.



15. Guo J*, Vahidnia A, **Sedghizadeh PP**, Enciso R. Root and canal morphology of mandibular permanent first molars in a US population-A multi-ethnicity evaluation by CBCT. *Endodontic Practice Today* 2015;1;3-9.
16. Junka AF, Szymczyk P, Smutnicka D, Kos M, Smolina I, Bartoszewicz M, Chlebus E, Turniak M, **Sedghizadeh PP**. Microbial biofilms are able to destroy hydroxyapatite in the absence of host immunity in vitro. *J Oral Maxillofac Surg* 2015;73:451-64.
17. Guo J*, Vahidnia A, **Sedghizadeh PP**, Enciso R. Evaluation of root and canal morphology of maxillary permanent first molars in a North American population by cone beam computed tomography. *J Endod* 2014;40:635-9.
18. Jones AC, **Sedghizadeh PP**. Bisphosphonate-related osteonecrosis of the jaws is caused by dental procedures that violate oral epithelium; this is no longer a mysterious disease. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2014;117:392-3.
19. Ahmadiéh A*, Farnad F, **Sedghizadeh PP**. Gaucher disease with jawbone involvement: a case report. *J Med Case Rep* 2014;8(1):360.
20. Salek H*, Balouch A*, **Sedghizadeh PP**. Oral manifestation of Crohn's disease without concomitant gastrointestinal involvement. *Odontol* 2014;102:336-8.
21. Davidova LA*, **Sedghizadeh PP**, Balouch A*, Salek M*. Oral multifocal papillary lesions in a young child: clinico-pathologic and medico-legal considerations. *J Dent Oral Dis Ther* 2013;1:1-4.
22. **Sedghizadeh PP**. Bulimia Nervosa. *N Engl J Med* 2013;368:1238.
23. Lee PB*, Kiss AS*, Nguyen AL*, Shi S, **Sedghizadeh PP**, Le AD. Evaluation of serum biomarkers IL-17 and CTX for BRONJ: a pilot clinical case-control study. *J Calif Dent Assoc* 2013;41:819-23.
24. Guo J*, Simon JH, **Sedghizadeh PP**, Soliman ON, Chapman T, Enciso R. Evaluation of the reliability and accuracy of using cone-beam computed tomography for diagnosing periapical cysts from granulomas. *J Endod* 2013;39:1485-90.
25. Chadha GK*, Ahmadiéh A*, Kumar SK, **Sedghizadeh PP**. Osseointegration of dental implants and osteonecrosis of the jaw in patients treated with bisphosphonate therapy: A systematic review. *J Oral Implantol* 2013; 39:510-20.
26. Puliyl D*, Balouch A*, Ram S, **Sedghizadeh PP**. Foreign body implantation in the oral cavity mimicking a benign connective tissue tumor. *Case Rep Dent* 2013:369510.



27. Schaudinn C*, Jaramillo D, Freire MO, **Sedghizadeh PP**, Nguyen A*, Webster P, Costerton JW, Jiang C. Evaluation of a nonthermal plasma needle to eliminate ex vivo biofilms in root canals of extracted human teeth. *Int Endod J* 2013;46:930-7.
28. Melnick M, Deluca KA*, **Sedghizadeh PP**, Jaskoll T. Cytomegalovirus-induced salivary gland pathology: EGF, FGF8, TNF- α , and IL-6 signal dysregulation and neoplasia. *Exp Mol Pathol* 2013;94:386-97.
29. Melnick M, **Sedghizadeh PP**, Deluca KA*, Jaskoll T. Cytomegalovirus-induced salivary gland pathology: Resistance to kinase inhibitors of the upregulated host cell EGFR/ERK pathway is associated with CMV-dependent stromal overexpression of IL-6 and fibronectin. *Herpesviridae* 2013;4:1-15.
30. **Sedghizadeh PP**, Jones AC, LaVallee C, Jelliffe RW, Le AD, Lee P*, Kiss A*, Neely MN. Population pharmacokinetic and pharmacodynamic modeling for assessing risk of bisphosphonate-related osteonecrosis of the jaw. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2013;115:224-32.
31. Wanger G, Gorby Y, El-Naggar M, Yuvzinsky TD, Schaudinn C*, Gorur A*, **Sedghizadeh PP**. Electrically conductive bacterial nanowires in bisphosphonate-related osteonecrosis of the jaw biofilms. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2013;115:71-8.
32. **Sedghizadeh PP**, Chen MT, Schaudinn C, Gorur A, Jiang C. Inactivation kinetics study of an atmospheric-pressure cold plasma jet against pathogenic microorganisms. *IEEE Trans Plasma Science* 2012;40:2879-82.
33. Pandarakalam C*, Siegel W, **Sedghizadeh PP**. Persistent lip swelling: a case report. *Int J Dent Case Reports* 2012;2:23-6.
34. **Sedghizadeh PP**, Jones AC, LaVallee C, Jelliffe RW, Le AD, Lee P*, Kiss A*, Neely MN. Population PK-PD of bisphosphonate-related osteonecrosis of the jaw. *Clin Pharmacol Drug Develop* 2012;1:205-6.
35. **Sedghizadeh PP**, Yoosef S, Fadrosch DW, Zeigler-Allen L, Thiagarajan M, Salek M*, Farahnik F*, Williamson S. Metagenomic investigation of microbes and viruses in patients with jaw osteonecrosis associated with bisphosphonate therapy. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2012;114:764-70.
36. Schaudinn C*, Webster P, Gorur A*, Jones A, Neely M, Jelliffe RW, Le AD, **Sedghizadeh PP**. Quantification by energy dispersive x-ray spectroscopy of alendronate in the diseased jaw bone of patients with bisphosphonate-related jaw osteonecrosis. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2012;114:480-6.
37. Saber MH*, Schwarzberg K*, Alonaizan FA*, Kelley ST, **Sedghizadeh PP**, Furlan M, Levy TA, Simon JH, Slots J. Bacterial flora of dental periradicular lesions analyzed by the 454-pyrosequencing technology. *J Endod* 2012; 38:1484-8.



38. Stephens H*, Jensen B*, Carpiaux W*, **Sedghizadeh PP**, Chai Y. A collaborative approach to advance student research at the University of Southern California. *J Calif Dent Assoc* 2012;40:433-6.
39. **Sedghizadeh PP**, Nguyen M, Enciso R. Intracranial physiological calcifications evaluated with cone-beam computed tomography. *Dentomaxillofac Radiol* 2012;41:675-8.
40. Patel S*, Choyee S, Uyanne J, Nguyen A, Lee P*, **Sedghizadeh PP**, Kumar S, Lytle J, Shi S, Le A. Non-exposed bisphosphonate related osteonecrosis of the jaw: A critical assessment of current definition, staging and treatment guidelines. *Oral Dis* 2012;18:625-32.
41. Kumar SK, **Sedghizadeh PP**, Gorur A*, Schaudinn C*, Shuler CF, Costerton JW, Silverman S. Terminology. *J Am Dent Assoc* 2012;143:12.
42. Melnick M, **Sedghizadeh PP**, Allen CM, Jaskoll T. Human cytomegalovirus and mucoepidermoid carcinoma of salivary glands: cell-specific localization of active viral and oncogenic signaling proteins is confirmatory of a causal relationship. *Exp Mol Pathol* 2011;92:118-25.
43. Stoodley P, Ehrlich GD, **Sedghizadeh PP**, Hall-Stoodley L, Baratz ME, Altman DT, Sotereanos NG, Costerton JW, DeMeo P. Orthopedic biofilm infections. *Curr Ortho Pract* 2011;22:558-63.
44. Melnick M, Abichaker G*, Htet K*, **Sedghizadeh PP**, Jaskoll T. Small molecule inhibitors of the host cell COX/AREG/EGFR/ERK pathway attenuate cytomegalovirus-induced pathogenesis. *Exp Mol Pathol* 2011;91:400-10.
45. Freire M*, **Sedghizadeh PP**, Schaudinn C*, Gorur A*, Downey JS, Choi JH, Chen W, Chen C, Goodman SD, Zadeh HH. Development of an animal model for *Aggregatibacter actinomycetemcomitans* biofilm-mediated oral osteolytic infection: A preliminary study. *J Periodontol* 2011;82:778-89.
46. Olsen J*, Lee PC*, Adcox J*, **Sedghizadeh PP**. Papillary squamous cell carcinoma of the hard palate: report of a rare case affecting the oral cavity. *Dent Trib* 2010;5:5-7.
47. Parsa K, Schaudinn C*, Gorur A*, **Sedghizadeh PP**, Johnson T, Tse D, Costerton JW. Demonstration of bacterial biofilms in culture-negative silicone stent and Jones tube. *Ophthalm Plast Reconst Surg* 2010;26:426-30.
48. Boros AL*, **Sedghizadeh PP**, Davis JP, Yamashita DDR. Glomus tumor: report of a rare case affecting the oral cavity and review of the literature. *J Oral Maxillofac Surg* 2010;68:2329-34.



49. Jaskoll T, Abichaker G*, Htet K*, Bringas P, Morita S, **Sedghizadeh PP**, Melnick M. CMV induces stage-dependent enamel defects and misexpression of amelogenin, enamelin, and dentin sialophosphoprotein in developing mouse molars. *Cells Tissues Organs* 2010;192:221-39.
50. Kumar SKS*, Gorur A*, Schaudinn C*, Shuler CF, Costerton JW, **Sedghizadeh PP**. The role of microbial biofilms in osteonecrosis of the jaw associated with bisphosphonate therapy. *Curr Osteoporos Rep* 2010;8:40-48.
51. Schaudinn C*, Gorur A*, **Sedghizadeh PP**, Costerton JW, Keller D. Manipulation of the microbial ecology of the periodontal pocket. *World Dent Report* 2010; March.
52. **Sedghizadeh PP**, Kumar SKS*, Gorur A*, Schaudinn C*, Shuler CF, Costerton JW. Microbial biofilms in osteomyelitis of the jaw and osteonecrosis of the jaw secondary to bisphosphonate therapy. *J Am Dent Assoc* 2009;140:1259-65.
53. Schaudinn C*, Gorur A*, Keller D, **Sedghizadeh PP**, Costerton JW. Periodontitis: an archetypical biofilm disease. *J Am Dent Assoc* 2009;140:978-86.
54. Jiang C, Chen MT, Gorur A*, Schaudinn C*, Jaramillo DE, Costerton JW, **Sedghizadeh PP**, Vernier PT, Gundersen MA. Nanosecond pulsed plasma dental probe. *Plasma Process Polym* 2009;6:479-83.
55. Jiang C, Chen MT, Vernier PT, Gundersen MA, Schaudinn C*, Gorur A*, **Sedghizadeh PP**, Costerton JW, Jaramillo DE. Nanosecond pulsed plasmas for biomedical disinfection. *ICOPS* 2009;6:1.
56. **Sedghizadeh PP**, Stanley K*, Caligiuri M*, Hofkes S*, Lowry B, Shuler CF. Oral bisphosphonate use and the prevalence of osteonecrosis of the jaw: an institutional inquiry. *J Am Dent Assoc* 2009;140:61-66.
57. Jiang C, Chen MT, Schaudinn C*, Gorur A*, Vernier T, Costerton JW, Jaramillo DE, **Sedghizadeh PP**, Gundersen MA. Pulsed atmospheric-pressure cold plasma for endodontic disinfection. *IEEE Trans Plasma Science* 2009; 37:1190-95.
58. **Sedghizadeh PP**, Kumar KSS*, Gorur A*, Schaudinn C*, Shuler CF, Costerton JW. Identification of microbial biofilms in osteonecrosis of the jaws secondary to bisphosphonate therapy. *J Oral Maxillofac Surg* 2008;66:767-75.
59. Jaskoll T, Abichaker G*, **Sedghizadeh PP**, Bringas P, Melnick M. Cytomegalovirus induces abnormal chondrogenesis and osteogenesis during embryonic mandibular development. *BMC Dev Bio* 2008;8:33.
60. **Sedghizadeh PP**, Kumar SKS*, Gorur A*, Mastin C*, Boros AL*. Toxic epidermal necrolysis with severe head and neck involvement and a unique long-term oral complication requiring surgical intervention. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2008;105:e29-33.



61. Le B, Burstein J, **Sedghizadeh PP**. Cortical tenting grafting technique in the severely atrophic alveolar ridge for implant site preparation. *Implant Dent* 2008;17:40-50.
62. Kumar SKS*, Meru M*, **Sedghizadeh PP**. Osteonecrosis of the jaws secondary to bisphosphonate therapy – a case series. *J Contemp Dent Prac* 2008;9:63-9.
63. Kumar SKS*, Dhyllon A*, **Sedghizadeh PP**. Diagnostic challenge: Indurated tongue lesion. *J Am Dent Assoc* 2008;139:159-61.
64. Liu L, Kumar SKS*, **Sedghizadeh PP**, Jayakar AN, Shuler CF. Oral squamous cell carcinoma incidence by subsite among diverse racial and ethnic populations in California. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2008;105:470-80.
65. Kumar SKS*, Shuler CF, **Sedghizadeh PP**, Kalmar JR. Oral mucosal melanoma with unusual clinico-pathologic features. *J Cutaneous Pathol* 2008;35:392-7.
66. **Sedghizadeh PP**, Wong D, Shuler CS, Linz V, Kalmar JR, Allen CM. Multifocal calcifying epithelial odontogenic tumor. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2007;104:e30-4.
67. Haghparast N, **Sedghizadeh PP**, Shuler CF, Ferati D, Christersson C. Evaluation of student and faculty perceptions of the PBL curriculum at two dental schools from a student perspective: a cross-sectional survey. *Eur J Dent Educ*. 2007;11:14-22.
68. Kumar SKS*, Ram S*, Jorgensen MG, Shuler CF, **Sedghizadeh PP**. Multicentric peripheral ossifying fibroma. *J Oral Science* 2006;48:239-43.
69. **Sedghizadeh PP**, Mallery SR, Thompson SJ, FM Beck, Kresty L, EK Parkinson, Biancamano J, Lang JC. Expression of the serine protease DESC1 correlates directly with normal keratinocyte differentiation and inversely with head and neck squamous cell carcinoma progression. *Head Neck* 2006;28:432-40.
70. Rawal YB, Angiero F, Allen CM, Kalmar JR, **Sedghizadeh PP**, Steinhilber AA. Gnathic osteoblastoma: A clinicopathologic study of 7 cases with long-term follow-up. *Oral Oncol* 2006;42:123-130.
71. **Sedghizadeh PP**, Williams JD, Allen CM, Prasad ML. MSG-1 expression in benign and malignant melanocytic lesions of cutaneous and mucosal epithelium. *Med Sci Monit* 2005;11:BR189-94.
72. Jewers WM*, Rawal YB, Allen CM, Kalmar JR, Fox E, Chacon GE, **Sedghizadeh PP**. Palatal perforation associated with intra-nasal prescription narcotic abuse. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2005;99:594-7.
73. **Sedghizadeh PP**, Allen CM, Kalmar JR, Miloro MJ, Suster S. Solitary central myofibroma presenting in the gnathic region. *Ann Diagn Pathol* 2004;8:284-9.



74. Elkhoury J, Tatakis DN, Cacchillo D, Kalmar JR, Allen CM, **Sedghizadeh PP**. Undifferentiated malignant neoplasm involving the interdental gingiva. *J Clin Periodontol* 2004;75:1295-9.
75. **Sedghizadeh PP**, Allen CM, Anderson KE, Kim DH, Kalmar JR, Lang JC. Oral graft-versus-host disease and programmed cell death: pathogenetic and clinical correlates. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2004;97:491-8.
76. **Sedghizadeh PP**, Angiero F, Allen CM, Kalmar JR, Rawal YB, Albright EA. Post-irradiation leiomyosarcoma of the maxilla: report of a case in a patient with prior radiation treatment for retinoblastoma. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2004;97:725-9.
77. Rawal YB, Wen P, **Sedghizadeh PP**, Allen CM, **Prasad ML**. Expression of new myoepithelial markers Maspin, Metallothionein and p63 in adenoid cystic carcinoma and polymorphous low grade adenocarcinoma. *Mod Pathol* 2004;17:231A.
78. **Sedghizadeh PP**, Allen CM, Kalmar JR, Magro CM. Pagetoid reticulosis: a case report and review of the literature. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2003;95:318-23.
79. **Sedghizadeh PP**, Shuler CF, Allen CM, Beck FM, Kalmar JR. Celiac disease and recurrent aphthous stomatitis: a report and review of the literature. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2002;94:474-8.
80. **Sedghizadeh PP**, Allen CM. AAOMP case challenge: white plaque of the lateral tongue. *J Contemp Dent Pract* 2002;3:36-9.

Manuscripts in Review or in Preparation

1. Junka AF, Rakoczy R, Szymczyk P, Bartoszewicz M, **Sedghizadeh PP**, Fijałkowski K. Application of Rotating Magnetic Fields Increase the Activity of Antimicrobials Against Wound Biofilm Pathogens. *Sci Rep* 2017; In revision.
2. Khan A, Stucky A, **Sedghizadeh PP**, Zhang X, Wang K, Zhong JF. Molecular Analysis of HPV Induced Head and Neck Squamous Cell Carcinoma. In preparation.
3. Imran A*, **Sedghizadeh PP**, Shook A*. MRONJ-like sequelae following wisdom tooth extraction in a young boy treated with chronic steroid and bisphosphonate therapy for Duchenne muscular dystrophy. *J Coll Physicians Surg Pak* 2017; In review.



Book Chapters

1. **Sedghizadeh PP**, Rojas R, Malfaz JM. Chapter 10: Imaging interpretation. In: Ingle's Endodontics 7th ed, BC Decker Inc., 2017; In press.
2. **Sedghizadeh PP**, Jones AC. Chapter 12: Osteonecrosis of the jaw. In: The Duration and Safety of Osteoporosis Treatment: Anabolic and Antiresorptive Therapy. Silverman and Abrahamsen, eds. Springer, 2015; ISBN #978-3-319-23639-1.
3. Anderson M, **Sedghizadeh PP**, Allen CM, Camisa C. Chapter 72: Oral diseases. In: Dermatology. Bologna, Jorizzo, and Rapini, eds. Harcourt Health Science Publishers, 2003:1079-98. ISBN # 0323024092.

Published Abstracts

- **American Society for Bone and Mineral Research annual meeting.** Bone targeted bisphosphonate-antibiotic conjugates for the treatment of osteomyelitis biofilms. Abstract/Poster; Denver, CO (2017).
- **7th International Workshop on the Molecular Pharmacology and Therapeutics of Bone and other Musculoskeletal Diseases.** Bone Targeted Therapeutics and Diagnostics. Poster; Oxford, UK (2016).
- **American College of Clinical Pharmacology Annual Meeting.** Population pharmacokinetics and pharmacodynamics of bisphosphonate-related osteonecrosis of the jaw. Abstract/Poster, ACCP Annual Meeting, San Diego, CA (2012).
- **International Conference on Plasma Science.** An atmospheric-pressure non-thermal plasma needle for endodontic biofilm disinfection; Abstract/Poster. Chicago, IL (2011).
- **American Physical Society Annual Session; 64th Annual Gaseous Electronics Conference.** Bactericidal effect of a non-thermal plasma needle against biofilms. Abstract/Poster; Salt Lake City, Utah (2011).
- **American Society for Microbiology Annual Session.** Electrically Conductive Nanowires in an Oral Osteonecrosis Biofilm. Abstract/Poster; New Orleans, LA (2011).
- **American Association for Dental Research Annual Meeting.** Development of a Novel Animal Model for Biofilm-mediated Oral Infection. Abstract/Poster; San Diego, CA (2011).
- **American Association for Dental Research Annual Meeting.** Research Advancement at USC: A Student Driven Approach. Abstract/Poster; San Diego, CA (2011).



- **American Academy of Oral and Maxillofacial Pathology (AAOMP) Annual Meeting.** Palatal perforation associated with intra-nasal prescription narcotic abuse. Abstract/Poster; Banff, Canada (2004).
- **United States and Canadian Academy of Pathology (USCAP) Annual Meeting.** Expression of new myoepithelial markers maspin, metallothionein and p63 in adenoid cystic carcinoma and polymorphous low grade adenocarcinoma. Abstract/Poster; Vancouver, Canada (2004).
- **American Academy of Clinical Pathology (AACP) Annual Meeting: MSG-1** expression in benign and malignant melanocytic lesions of the skin and mucosa. Paper/abstract; New Orleans, LA (2003).
- **American Academy of Oral and Maxillofacial Pathology (AAOMP) Annual Meeting.** Post-irradiation leiomyosarcoma of the maxilla. Abstract/Poster; Charleston, SC (2003).

News Releases

- 2017, September 5 *University of Southern California:* “Sedghizadeh receives \$1.5 million for bone infection treatment”
<http://dentistry.usc.edu/2017/09/05/sedghizadeh-receives-1-5-million-bone-infection-treatment/>
- 2017, February 10 *University of Southern California:* “Ostrow assistant professor develops novel drug compound to treat bone infection”
<http://dentistry.usc.edu/2017/02/08/ostrow-assistant-professor-patents-novel-drug-compound-treat-bone-infection/>
- 2011, November 15 *Annenberg TV News:* “USC Researchers Find New Cancer-Causing Virus” <http://www.atvn.org/news/2011/11/usc-researchers-find-new-cancer-causing-virus>
- 2009, August 3 *Wikipedia:* “Microplasma: Plasma Medicine”
<https://en.wikipedia.org/wiki/Microplasma>
- 2009, June 18 *NECN News:* “Plasma Dental Potential”
 Boston Museum of Science news story describing the first medical/dental application of cold plasma for treating a human disease (tooth infection); this represents my work and collaboration with Plasma Physicists at USC Viterbi School of Engineering
<https://ostrow.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=7e104bbc-5694-4b0e-add5-e5af77381815>



- 2009, June 12 *Dental Tribune*: “Cool plasma packs heat against biofilms”
http://www.dentaltribune.com/articles/news/usa/429_cool_plasma_packs_heat_against_biofilms.html
- 2009, June 11 *Phys.org news*: “Cool plasma packs heat against biofilms”
<http://phys.org/news/2009-06-cool-plasma-biofilms.html>
- 2009, June 11 *Softpedia News*: “Clean Your Teeth with Plasma”
<http://news.softpedia.com/news/Clean-Your-Teeth-with-Plasma-113853.shtml>
- 2009, June 5 *USC News*: “Cool Plasma Pack Heat Against Biofilms”
<http://news.usc.edu/29488/Cool-Plasma-Pack-Heat-Against-Biofilms/>
- 2009, March 31 *USC News*: “School of Dentistry Discusses New Findings in the Fight Against Oral Cancer” <http://pressroom.usc.edu/school-of-dentistry-discusses-new-findings-in-the-fight-against-oral-cancer/>
- 2009, March 1 *Center for Medical Consumers*: “Fosamax-Induced Osteonecrosis of the Jaw More Common Than Previously Thought”
<http://medicalconsumers.org/2009/03/01/fosamax-induced-osteonecrosis-of-the-jaw-more-common-than-previously-thought/>
- 2009, February 26 *USC News*: “Blasting Away Biofilms at Will”
<http://news.usc.edu/13970/Blasting-Away-Biofilms-at-Will/>
- 2009, February 1 Arthritis Foundation: “Osteonecrosis of the Jaw”
<http://www.arthritis.org/about-arthritis/types/osteoporosis/articles/osteonecrosis-jaw.php>
- 2009, January 25 *PSA Rising, Prostate Cancer Survivors*: “Dentist Links Fosamax-type Drugs to Jaw Necrosis” <http://www.psa-rising.com/2009/01/bisphosphonates-jaw-avn/>
- 2009, January 12 *Los Angeles Times*: “Osteoporosis drug Fosamax linked to serious diseases” <http://articles.latimes.com/2009/jan/12/health/he-closer12>
- 2009, January 5 *Medical News Today*: “Osteoporosis Drug Linked to Bone Death in Jaw” <http://www.medicalnewstoday.com/articles/134381.php>
- 2009, January 2 *Science Daily*: “Common Oral Osteoporosis Drugs Linked To Serious Jaw Necrosis”
<http://www.sciencedaily.com/releases/2009/01/090101135207.htm>



- 2008, April 30 *USC News*: “USC Dentistry Researchers Uncover Link Between Osteoporosis Drugs and Jaw Infection”
<http://pressroom.usc.edu/usc-dentistry-researchers-uncover-link-between-osteoporosis-drugs-and-jaw-infection/>
- 2007, November 13 *USC News*: “USC School of Dentistry Researchers Discover Link Between Oral Cancer and Ethnicity” <http://pressroom.usc.edu/usc-school-of-dentistry-researchers-discover-link-between-oral-cancer-and-ethnicity/>

Patents

Ebetino, F. H.; Sun, S.; Lundy, M. W.; McKenna, C. E.; Richard, E. T.; Sedghizadeh, P. P. US Patent: Bisphosphonate quinolone bioconjugates and uses thereof. Serial # PCT/US2017/035764; Filing Date: June 2, 2017

Thesis

Expression of the serine protease DESC1 correlates directly with normal keratinocyte differentiation and inversely with head and neck squamous cell carcinoma progression. Master of Science in Oral Biology, The Ohio State University, 2004.

MAJOR PUBLIC PRESENTATIONS

Presentations as Invited Speaker

- 2017 [May] *Medication-related osteonecrosis of the jaw* (Invited Speaker Plenary Session). American Academy of Orofacial Pain Annual Meeting; Scottsdale, AZ.
- 2017 [February] *Oral Manifestations of Systemic Diseases* (Invited Speaker). Northridge Hospital Medical Center; Northridge, CA
- 2016 [September] *Microbial biofilms in medication-related osteonecrosis of the jaw* (Invited Speaker). 98th Annual Meeting of the American Association of Oral and Maxillofacial Surgeons; Biofilm Symposium; Las Vegas, NV
- 2016 [March] *The role of biofilms in maxillofacial pathology* (Invited Speaker). American Association for Dental Research (AADR) 45th Annual Meeting; Biofilm Symposium; Los Angeles, CA
- 2015 [February] *The role of problem-based learning in clinical education and research* (Invited Speaker). 7th Annual Scientific Meeting, Qassim University, College of Dentistry; Buraidah, Saudi Arabia



- 2014 [October] *The role of biofilms in osteonecrosis of the jaw associated with anti-resorptive therapy* (Invited Speaker). Symposium on Antiresorptive Osteonecrosis of the Jaw: An Update, University of Pennsylvania, School of Medicine and School of Dental Medicine; Pennsylvania, CA
- 2014 [October] *Osteonecrosis of the jaw associated with anti-resorptive therapy* (Invited Speaker). Southern California Orofacial Academy; Pasadena, CA
- 2014 [June] *Clinical oral pathology, radiology and medicine* (Invited Speaker). Ranchos Los Amigos National Rehabilitation Center; Los Angeles, CA
- 2013 [March] *Osteonecrosis of the jaw associated with anti-resorptive therapy* (Invited Speaker). National Institutes of Health (NIH); National Institute of Dental and Craniofacial Research (NIDCR) Clinical Grand Rounds Series; Bethesda, MD
- 2013 [November] *Hard Tissue Pathology of Significance to the Endodontist* (Invited Speaker). USC 12th International Endodontic Symposium; Los Angeles, CA
- 2013 [October] *Oral Health and Disease in Rheumatologic Practice* (Invited Speaker). American College of Rheumatology Annual Meeting; San Diego, CA
- 2013 [April] Cutting Edge Dental Research at the Ostrow School of Dentistry of USC (Moderator and Invited Speaker). California Dental Association Annual Meeting; Anaheim, CA
- 2012 [May] *Radiographic Pathology of the Head and Neck* (Invited Speaker). Journées Internationales du Québec. Congres annuel de l'ordre des dentistes du Quebec; Montreal, Canada
- 2012 [April] *The role of biofilms in osteonecrosis of the jaw* (Co-Organizer and Speaker). Symposium: Anti-Resorptive Agent Induced Osteonecrosis of the Jaw: Pathogenesis and Management, USC Keck School of Medicine & USC Center for Craniofacial Molecular Biology; Los Angeles, CA
- 2012 [January] *Bone biology and pathology associated with anti-resorptive therapy* (Invited Speaker). 37th Annual USC International Periodontal and Implant Symposium; Los Angeles, CA
- 2009 [July] *Improving Function and the Future* (Moderator). USC 5th Annual Head and Neck Symposium: Beyond Survivorship: Emerging Technology and Surgical Techniques in the Management and Rehabilitation of Head and Neck Cancer; Los Angeles, CA



- 2009 [May] *Radiographic Pathology of the Head and Neck* (Invited Speaker). Journées Internationales du Québec. Congrès annuel de l'ordre des dentistes du Québec; Montreal, Canada
- 2009 [January] *Osteonecrosis of the jaw associated with bisphosphonate therapy* (Invited Speaker). 34th Annual USC International Periodontal and Implant Symposium; Los Angeles, CA
- 2008 [November] *Osteonecrosis of the jaw associated with bisphosphonate therapy* (Invited Speaker). USC Oral Medicine Symposium: Where Dentistry Meets Medicine; Los Angeles, CA
- 2008 [February] *Maxillofacial Infections* (Invited Speaker). Ostrow School of Dentistry of USC and Universidad DeLaSalle Bi-National Dental Symposium; Leon, Guanajuato, Mexico
- 2007 [November] *Hard tissue oral pathology of significance to the endodontist* (Invited Speaker). USC 6th International Endodontic Symposium; Los Angeles, CA
- 2007 [September] *Clinico-pathologic features and bony changes in osteomyelitis and osteonecrosis of the jaw* (Invited Speaker). USC Center for Craniofacial Molecular Biology; Los Angeles, CA
- 2007 [May] *Tumor Surveillance for Head and Neck Cancer* (Invited Speaker). USC 3rd Annual Head and Neck Symposium; Los Angeles, CA
- 2005 [October] *The Application of Biofilm Science to the Study of Craniofacial Osteomyelitis* (Invited Speaker). USC Biofilm Symposium, Los Angeles, CA
- 2004 [April] *Clinical Dermatopathology of the Head and Neck* (Invited Speaker). American Academy of Oral Medicine Symposium; Los Angeles, CA

GRANTS AWARDED

Principal Investigator

09/2017-08/2019 R42 DE025789-02
 NIH-NIDCR
 “Bone targeted antimicrobials for biofilm-mediated osteolytic infection treatment”
 Role: PI
 % Effort: 25
 Total Funding: \$1.5 million



- 10/2016-05/2017 Seed Grant
 Herman Ostrow School of Dentistry of USC
 “Molecular Diagnosis of Kaposi Sarcoma Associated Herpesvirus with Oral Swab”
 Role: Co-PI
 % Effort: 10
 Total Funding: \$10,000
- 01/2016-01/2017 R41DE025789-01
 NIH-NIDCR
 “Bone targeted antimicrobials for biofilm-mediated osteolytic infection treatment”
 Role: PI
 % Effort: 10
 Total Funding: \$150,000
- 07/2013-06/2015 L32 MD003617
 NIH-NIMHD
 “The application of pharmacokinetic-pharmacodynamic analytical tools for assessing risk of jaw osteonecrosis associated with bisphosphonate therapy”
 Role: PI
 % Effort: 60
 Total Funding: \$70,000 (2nd renewal)
- 10/2013-05/2014 Seed Grant
 Herman Ostrow School of Dentistry of USC
 “Pharmacometrics for assessing risk of jaw osteonecrosis”
 Role: PI
 % Effort: 10
 Total Funding: \$20,000
- 07/2011-06/2013 L32 MD003617
 NIH-NIMHD
 “The role of biofilms in osteonecrosis of the jaw associated with bisphosphonate therapy”
 Role: PI
 % Effort: 60
 Total Funding: \$70,000 (1st renewal)
- 07/2009-06/2011 L32 MD003617
 NIH-NIMHD
 “The role of biofilms in osteonecrosis of the jaw associated with bisphosphonate therapy”
 Role: PI



% Effort: 60
Total Funding: \$70,000

Participated as Co-PI

- 12/2010-11/2011 Seed Grant
Herman Ostrow School of Dentistry of USC
“Characterization of pulpal and periapical microbiology using a novel sequencing technique”
Role: Co-PI
% Effort: 10
Total Funding: \$20,000
- 12/2010-12/2011 Ideas Empowered Grant
USC Stevens Institute
“Non-invasive therapy to cure chronic and recurrent bacterial diseases”
Role: Co-PI
% Effort: 10
Total Funding: \$50,000
- 12/2010-12/2011 Zumberge Grant
University of Southern California
“The role of biofilms in osteonecrosis of the jaw secondary to bisphosphonate therapy”
Role: Co-PI
% Effort: 10
Total Funding: \$25,000

Participated as Co-Investigator

- 09/2010-08/2012 R21 DE020167-01A1
NIH-NIDCR
“Nanosecond pulsed plasma technology for oral biofilm disinfection”
PI: Chunqi Jiang
Role: Co-Investigator
% Effort: 10
Total Funding: \$250,000

IV. TEACHING ACTIVITIES

COURSES TAUGHT (DIRECTED) AND DEVELOPED:

- 2017-present (Summer) OPR 701
Bone Pathology and Clinical Oral and Maxillofacial Radiology (1 unit): Review of hard tissue and bone pathology affecting the jaws



and other maxillofacial structures. The role of conventional dental x-rays versus cone-beam CT scans will be discussed. Interpretation of hard tissue imaging studies including CBCT scans is taught, with emphasis on clinical applications related to oral pathology diagnosis.

- 2017-present (Summer) OPR 702
Principles and Practice of Oral Medicine (1 unit): Overview of the evaluation and management of patients with primary oral conditions and also oral diseases related to systemic pathology. Oral manifestations of systemic diseases and systemic manifestations of oral diseases are taught.
- 2017-present (Summer) OPR 703
General and Systemic Human Pathology (1 unit): Review of disease mechanisms and principles through discussion of the pathological entities associated with each organ system. Fundamentals of disease processes including developmental, inflammatory, and neoplastic conditions are illustrated by means of clinicopathological material and case studies.
- 2017-present (Fall) OPR 704
Clinical Oral Pathology and Maxillofacial Medicine (3 Units): Review of soft tissue diseases affecting the oral cavity and their management, which includes mucosal and connective tissue abnormalities.
- 2017-present (Fall) OPR 730
Case Portfolio: This course has multiple elements including (0.5 Unit):
(A) Weekly online (web-based) conferences presentations and discussions of de-identified patient cases that have been posted on blackboard for discussion and analysis.
(B) Based on these weekly discussions the residents are given a set of case-driven learning need assignments that they must deliver to the entire groups file exchange folder within two to three weeks after the assignment.
- 2017-present (Spring) OPR 705
Oral Histopathology and Surgical Pathology (2 Units): Review of common and rare oral pathology focusing on microscopic findings and clinicopathologic correlation.
- 2017-present (Summer) OPR 732



Knowledge Assessment (1 Unit): Knowledge-based assessment course requiring each student to successfully pass a set of examinations (Essay, MCQ, OSCE, Virtual Patient and Oral-Viva Voce) in order to demonstrate competency.

- 2017-present (Summer) OPR 731
Case Portfolio (0.5 Unit): Progressively across these 3 trimesters, the residents will be expected to select, prepare and defend their Portfolio. This will include presentation and defense of their approach to 6 patient cases that they have documented. These 6 cases constitute portfolio and it is due end of the program.
- 2005-Present (Summer) OFPOM702A: Hard and Soft Tissue Diseases for Dental Graduates (1 unit)
This graduate course is part one of a 2-part course which provides understanding and knowledge of the clinical presentation and diagnostic process used to identify the various hard and soft tissue diseases affecting the oral cavity. Residents are taught to understand and have knowledge of the pathogenic mechanisms and evidence basis for treatment and management of each disease discussed. The clinical aspects of these disease is emphasized throughout the course to give students a foundation for translating the didactic material to the clinical diagnosis and management of the many conditions covered.
- 2005-Present (Fall) OFPOM702B: Hard and Soft Tissue Diseases for Dental Graduates (2 units)
This graduate course is part two of a 2-part course which provides understanding and knowledge of the clinical presentation and diagnostic process used to identify the various hard and soft tissue diseases affecting the oral cavity. Residents build on what they learn in part one of the course with more detailed understanding and application to clinical practice.
- 2005-2010 (Spring) PTHL 312ABC: Medicine and Pathology (3 units)
This dental hygiene course offers an integrated approach to clinical, gross and microscopic study of basic disease processes, systemic pathology, oral pathology, internal medicine, pathophysiology, physical evaluation and emergency medicine for significant organ systems. Clinical-pathologic correlation is stressed along with evaluation, classification, and differential diagnosis of oral lesions.
- 2007-2011 (Summer) PTHL601: Advanced Oral Pathology Seminar (2 units)



This dental hygiene course offers detailed discussion and analysis of pathology cases representing a wide variety of oral conditions, stressing differential diagnosis and clinical-pathologic correlations. Clinical, radiographic, gross and microscopic characteristics of mucosal, skin, fibro-osseous and salivary gland diseases, odontogenic tumors and cysts, benign and malignant neoplasms and iatrogenic conditions are discussed.

2005-Present (Spring, Summer, Fall) PTHL 501, 504AB: Oral Pathology Seminar (4 units)

This course teaches 3rd and 4th year dental students how to diagnose and manage conditions affecting oral and maxillofacial structures that range from developmental to inflammatory and neoplastic diseases. Findings and features of head and neck cancers are stressed to prepare students for application to clinical practice as they graduate.

2005-Present (Spring, Summer, Fall) NBDE I and II: National Board Dental Examination Review Course for Part I and Part II board exams (0 units)

This course helps dental students to prepare for the NBDE Part I and II. Each part has several months of weekly review sessions on the various topics of the boards which include anatomy, physiology, biochemistry, pathology and microbiology for part one, and all of dental clinical sciences and specialties for part two. Our first-time pass rate is well over 90% for these exams as one metric for success.

MENTORING ACTIVITIES

2004-Present Faculty Attending and Mentor, Oral Medicine Clinic, Herman Ostrow School of Dentistry of USC

This is a teaching clinic I have directed for a decade now that evaluates patients from the Greater Los Angeles area and all over the nation for pathology affecting the maxillofacial region. I mentor residents, and dental and medical students, that serve or rotate through this clinic where we provide comprehensive care in the form of evaluation, diagnosis, and treatment including surgery, laser therapy and cryotherapy for various oral and maxillofacial conditions.

Post-doctoral Fellows and Residents

2014-Present Jasjot Sahni, Resident in Oral Medicine

- Awarded a 2015 Research Grant from the American Academy of Oral Medicine for project entitled “Comparison of complications between MRONJ patients with history of cancer versus MRONJ patients with osteoporosis and other bone disorders”

2014-Present Kamal Al-Eryani, Resident in Orofacial Pain



- Awarded a 2015 Research Grant from the American Academy of Oral Medicine for project entitled “Effects of Bisphosphonate Therapy on the Temporomandibular Joint”

Current position: Assistant Professor of Clinical Dentistry, Ostrow School of Dentistry of USC.

- 2013-2015 Jumana Karasneh, Resident in Oral Medicine
Current position: Associate Professor, Jordan University of Science and Technology

- 2013-2015 Diego Dalla-Bona, Resident in Orofacial Pain
Current position: Currently applying for faculty positions nationwide

- 2012-2014 Divya Puliyel, Resident in Oral Medicine
Current position: Adjunct Faculty, Case Western Reserve School of Dental Medicine, Ohio

- 2012-2015 Azadeh Ahmadiieh, Resident in Oral Medicine
Current position: Part-time Faculty, Herman Ostrow School of Dentistry of USC, Los Angeles, California

- 2011-2013 Akihiro Ando, Resident in Oral Medicine
Current position: Chief of Orofacial Pain and Oral Medicine Center Clinic, Showa University School of Dentistry, Japan

- 2011-2013 Mirhamid Salek, Resident in Oral Medicine
Current position: Treating clinician and community service volunteer, Clinica Sierra Vista, California Health Center, Bakersfield, California

- 2010-2012 Seena Patel, Resident in Orofacial Pain
 - Awarded 2nd place for Advanced Specialty Research at the 2012 Ostrow School of Dentistry of USC Annual Research Day

Current position: Treating clinician, Southwest Pain Management Associates, Arizona

- 2009-2011 Sibel Dincer, Resident in Orofacial Pain
Current position: Clinical Assistant Professor, Herman Ostrow School of Dentistry of USC, Los Angeles, California

- 2008-2010 Tomoko Wada, Resident in Oral Medicine
Current position: Assistant Professor of Clinical Dentistry, Herman Ostrow School of Dentistry of USC, Los Angeles, California

- 2008-2010 Phuu Han, Resident in Oral Medicine
Current position: Assistant Professor of Clinical Dentistry, Herman Ostrow School of Dentistry of USC, Los Angeles, California



- 2007-2009 Mohd Khalaf, Resident in Oral Medicine
Current position: Program Director and Faculty, University of Kentucky Oral Medicine Department, Kentucky
- 2006-2008 Cyril Pandarakalam, Resident in Oral Medicine
Current position: Associate Professor with Tenure, Southern Illinois University, School of Dental Medicine, Illinois
- 2006-2008 Antonia Teruel, Resident in Oral Medicine
 - Awarded the Lester Burket Memorial Award for Basic Science Research Category from the American Academy of Oral Medicine
Current position: Assistant Professor, Department of Diagnostic Sciences, University of Pittsburgh School of Dental Medicine, Pittsburgh, Pennsylvania
- 2005-2007 Jacqueline Venturin, Resident in Orofacial Pain
Current position: Previously an Assistant Professor of Clinical Dentistry, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- 2005-2007 Piedad Suarez, Resident in Oral Medicine
 - Awarded the Saul Kamen Scientific Report Award from the American Society for Geriatric Dentistry
Current position: Associate Professor of Clinical Dentistry and Section Chair, Geriatrics and Special Patients, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- 2005-2007 Werner Shintaku, Clinical Fellow and Instructor in oral medicine and radiology
Current position: Associate Professor and Director of Imaging Sciences, Department of Diagnostic Sciences and Oral Medicine, University of Tennessee Health Science Center, Tennessee
- 2005-2010 Christoph Schaudinn, Post-Doctoral Researcher
Current position: Senior Scientist, Robert Koch Institute, Germany
- 2004-2008 Satish Kumar, Resident in Oral Medicine
 - Awarded the Lester Burket Memorial Award in Clinical Research Category from the American Academy of Oral Medicine
 - Awarded the Outstanding Academic Achievement Award at the 25th Annual International Graduation Award and Reception Ceremony, Ostrow School of Dentistry of USC
Current position: Assistant Professor, Department of Periodontics and Preventive Dentistry, University of Pittsburgh School of Dental Medicine, Pittsburgh, Pennsylvania



2004-2006 Saravanan Ram, Resident in Orofacial Pain
Current position: Associate Professor of Clinical Dentistry and Director of the Advanced Program in Oral Medicine with Emphasis in Orofacial Pain, Herman Ostrow School of Dentistry of USC, Los Angeles, California

PhD Students, Advisor

2013-2017 Susan Mahabady, PhD in Craniofacial Biology, Herman Ostrow School of Dentistry of USC, Los Angeles, California

PhD Students, Committee Member

2015-2017 Sarah Tuggy, PhD Guidance Committee, USC Craniofacial Biology graduate program

2013-2015 Jing Guo, PhD Guidance Committee and Mentor, USC Craniofacial Biology graduate program
Current position: Resident, Advanced Program in Endodontics, Herman Ostrow School of Dentistry of USC, Los Angeles, California

Master's Students

2014-Present Dain Paxton DMD; MS program in Orofacial Pain and Oral Medicine, Herman Ostrow School of Dentistry of USC, Los Angeles, California

2014-Present William D. Billington DMD; MS program in Orofacial and Oral Medicine, Herman Ostrow School of Dentistry of USC, Los Angeles, California

2014-Present Rabeh Ebeed DDS; MS program in Orofacial Pain and Oral Medicine, Herman Ostrow School of Dentistry of USC, Los Angeles, California

2011-2013 Susan Mahabady, MS in Craniofacial Biology Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California
Current position: PhD in Craniofacial Biology Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California

2005-2009 Amita Gorur MS, Research Assistant
Current position: PhD student at Lawrence Berkeley National Laboratory under Randy Schekman the 2013 Nobel Prize winner in Physiology/Medicine

DDS Students



- 2015-2017 Research Mentor for Moshe Eizdi and Robert Hanna, DDS Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- Awarded 1st place for Clinical Research at the Ostrow School of Dentistry Annual Research Day 2015
 - Awarded the 2015 Dentsply-American Dental Association Student Clinicians of the American Dental Association Award
 - Awarded the 2015 American Association for Dental Research Southern California Best Student Poster
- 2014-2017 Faculty Advisor for Dental Ergonomics Club, Herman Ostrow School of Dentistry of USC, Los Angeles, California
This club provides education and awareness to dental students through seminars and hands-on workshops by ergonomics experts on how to prevent work-related injury and improve health and quality of life as relevant to daily dental work rigors and posture and biokinesiology
- 2014-2017 Faculty Advisor for Oral Radiology and Pathology Study Club, Ostrow School of Dentistry of USC
This club provides education to interested dental students through meetings and seminars on the importance and applications of radiographic and pathologic diagnosis to dental practice
- 2013-2017 Research Mentor for Simon Cheong, DDS Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- Awarded 1st place in Basic Sciences at the 2014 Ostrow School of Dentistry Annual Research Day
 - Awarded the Dean's Research Award at the at the 2014 Ostrow School of Dentistry Annual Research Day
- 2012-2013 Research Mentor for Ronald Chung, DDS Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- Awarded 1st place in Research Table Clinic at the 2013 California Dental Association Annual Meeting
- 2011-2013 Research Mentor for Peter Lee, DDS Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- Awarded 1st place in Clinical Research at the 2013 Ostrow School of Dentistry of USC Annual Research Day
- 2010-2012 Research Mentor for Justin Olsen, DDS Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- Awarded the R.L. Fowkes/L.J. Fogel Memorial Award for outstanding achievement in oral pathology.
 - Currently an Assistant Professor of Surgery at the F. Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences.



- 2010-Present Director and Mentor, Summer Research Fellowship Program, Herman Ostrow School of Dentistry of USC, Los Angeles, California
This fellowship program, in collaboration with the Office of Admissions and the Office of the Associate Dean for Research, provides interested incoming dental students to the Ostrow School of Dentistry with the opportunity for summer research experience in labs prior to matriculation in dental school, providing for early exposure and a more applied level of experience in basic sciences
- 2009-Present Faculty Advisor for Student Research Group, Herman Ostrow School of Dentistry of USC, Los Angeles, California
- Awarded the 2013 Meskin Journalism Award by the American Association of Dental Editors (AADE) for Excellence in Dental Student Publication (*The Explorer Journal*)
 - Awarded the 2012 American Association for Dental Research (AADR) National Student Research Group Award for the Best Student Research Group Newsletter (*The Explorer Journal*)
- 2007-2010 Clinical and Research Mentor for Audrey Boros
Next position: Resident in Oral Pathology at New York Hospital Queens
Current position: Assistant Professor of Clinical Dentistry, Herman Ostrow School of Dentistry of USC, Los Angeles, California and private practice oral pathology laboratory in Los Angeles

Undergraduate Students

- 2016-Present Joseph Pallares, Observorship; Cal State LA, pre-health program
- 2014-2016 Research Mentor for Christina Gonzalez, California State University Los Angeles bachelor of science program, pre-medical
Current position: Medical student at the University of Illinois at Chicago, College of Medicine
- 2006-2007 Research Mentor for Hamid Barkhordar, USC Dana and David Dornsife College of Letters, Arts and Sciences bachelor of science program, pre-dental
Next position: DDS student, Herman Ostrow School of Dentistry of USC, Los Angeles, California
Current position: Residency in Orthodontics at UCLA

