

Mehrsima Ghavami Lahiji

Email:

dr.m.ghavami@gmail.com

dr.m.ghavami@gums.ac.ir

m-ghavami@razi.tums.ac.ir

Education:

Ph.D of Dental Biomaterials (2014 - 2019), School of Dentistry, Tehran University of Medical Sciences, Tehran, Iran

- Thesis under supervision of Dr. Farhad Shafiei entitled “Fabrication and characterization of drug-containing polymeric film based on poly-caprolactone/alginate and evaluation of drug release properties and its in vitro effect on periopathogen bacteria” with score of 20 out of 20.

Doctor of Dental Surgery (1998 - 2004) School of Dentistry, Shahid Beheshti University of Medical Sciences, Tehran, Iran

- Thesis under supervision of Dr. Hassan Torabzadeh entitled “A comparative study of fluoride release from available glass-ionomers: 2-month data” with score of 19 out of 20.

Work:

- Assistant professor at Department of Restorative Dentistry, Dental Sciences Research Center, School of Dentistry, Guilan University of Medical Sciences, Rasht, Iran (19 Jan 2020 up to present.)
- Associate editor for Journal of Dentomaxillofacial Radiology, Pathology and Surgery (20 March 2020 up to present)
- Head of Dental Materials Unit at Department of Restorative Dentistry, School of Dentistry, Guilan University of Medical Sciences, Rasht, Iran (19 Jan 2020 up to present.)
- Dentist in Special Clinic, Guilan University of Medical Sciences, Rasht, Iran (21 May 2020 up to present.)

Contributions to academia

- Scientific peer-reviewing ([publons](#)) Reviewed manuscripts for several peer-reviewed journals including: Journal of Dental Materials and Techniques, Imaging Science in Dentistry.

Memberships:

- International Association for Dental Research (IADR)
- Iranian Dental Biomaterials Association
- Institute of Standard and Industrial Research of Iran, ISIRI/TC106.

Supervision experiences

- Supervised DDS and MSc theses, School of Dentistry, Guilan University of Medical Sciences, Rasht, Iran. (2020-2022)
- Supervised master, DDS students at Tehran University of Medical Sciences, Tehran, Iran (2016-2019).

PUBLICATIONS

1. Naser Alavi F, **Ghavami-Lahiji M**, Habibi P. Mechanical Performance of a Conventional Resin Composite and its Bulk-fill Restorative Counterparts after Long Term Accelerated Aging. *Dental and Medical Problems*. 2022; (Accepted July 7).
2. **Ghavami-Lahiji M**, Tayefeh Davaloo R, Tajziehchi G, Shams P. Microcomputed tomography in preventive and restorative dental research: A review. *Imaging Science in Dentistry*. 2021; 51:341-50.
3. Shafiei F, **Ghavami-Lahiji M**, Tahereh Sadat Jafarzadeh Kashi, Najafi F. Drug release kinetics and biological properties of a novel local drug carrier system. *Dental Research Journal (Isfahan)*. 2021;18: 94.
4. Masooleh HS, **Ghavami-Lahiji M**, Ciancio A, Tayebi L. Microfluidic Technologies Using Oral Factors: Saliva-Based Studies. *Applications of Biomedical Engineering in Dentistry: Springer*; 2020. p. 339-58.
5. **Ghavami-Lahiji M**, Shafiei F, Pourhajibagher M, Najafi F, Bahador A. The Antibacterial Activity of a New Polymeric Local Drug Delivery System against an In-vitro Multispecies Pathogens Associated with Periodontitis. *Journal of Dentomaxillofacial Radiology, Pathology and Surgery*. 2020; 9(4):1-10.
6. Hakimaneh SMR, Shayegh SS, **Ghavami-Lahiji M**, Chokr A, Moraditalab A. Effect of Silane Heat Treatment by Laser on the Bond Strength of a Repair Composite to Feldspathic Porcelain. *Journal of Prosthodontics*. 2020;29(1):49-55.
7. **Ghavami-Lahiji M**, Shafiei F, Najafi F, Erfan M. Drug-loaded polymeric films as a promising tool for the treatment of periodontitis. *Journal of Drug Delivery Science and Technology*. 2019; 52:122-9.
8. Abdulrazzaq Naji S, Behroozibakhsh M, Jafarzadeh Kashi TS, Eslami H, Masaeli R, Mahgoli H, **Ghavami-Lahiji M**, Rakhshan V. Effects of incorporation of 2.5 and 5 wt% TiO₂ nanotubes on fracture toughness, flexural strength, and microhardness of denture base poly methyl methacrylate (PMMA). *The journal of advanced prosthodontics*. 2018;10(2):113-21.
9. Behroozibakhsh M, Shahabi S, **Ghavami-Lahiji M**, Sadeghian S, Nazari NSF. Evaluation of crystalline changes and resistance to demineralization of the surface of human dental enamel treated with Er: YAG laser and fluoride using x-ray diffraction analysis and Vickers microhardness. *Laser Physics*. 2018;28(6):065602.

Conferences

Naser Alavi F, **Ghavami-Lahiji M**, Habibi P. *Flexural Properties of a Conventional Resin Composite and its High-Viscosity Bulk-fill Counterpart after Accelerated Aging*. **Oral presented at:** 17th International Association for Dental Research (IADR), Iranian Division Annual Meeting, Virtual; 2022, January 26-28, Tehran, Iran. (presenter)

Ghavami-Lahiji M, Tayefeh Davaloo R, Tajziehchi G, Shams P. *Micro-CT; an advanced technology for restorative dental research studies*. **Oral presented at:** 4th International TPCF Preclinical Imaging Symposium (TPIS 2021), Virtual; 2021, August 11-12, Tehran, Iran. (presenter)

Ghavami-Lahiji M, Shafiei F, Pourhajibagher, Najafi F, Bahador A. *Antibacterial Activity of a New Polymeric Local Drug Delivery System on a Multispecies Bacterial Community Associated with Periodontitis*. **Oral presented at:** 16th International Association for Dental Research (IADR), Iranian Division Annual Meeting, Virtual; 2020, December 24-25, Tehran, Iran. (presenter)

Ghavami-Lahiji M, Shafiei F, Najafi F, Erfan. *Fabrication, characterization and drug release profile of doxycycline film for treatment of periodontitis*. **Oral presented at:** International Student Congress Of (bio)Medical Sciences (ISCOMS). 2018, June 4-8, Groningen, Netherlands. (presenter)

Ghavami-Lahiji M, Salehipour-masooleh H, Ciancio A, Gonzalez J, Tayebi L, “Saliva-based Microfluidic Devices Using Smartphone”. **Poster presented at:** IADR/AADR/CADR General Session, 2019, June 19-22, Vancouver, BC, Canada.

Shayegh S, Hakimaneh S, Shokr A, **Ghavami-Lahiji M**. *The Effect of Laser Treatment on the Micro shear Bond Strength of a Repair Composite to Feldspathic Ceramic*. **Oral presented at:** 12th International Association for Dental Research (IADR), Iranian Division Annual Meeting, 2016, December 21-23, Tehran, Iran. (presenter)

Ghavami-Lahiji M, Bagheri H, Jafarzadeh Kashi TS, Razazpour F, Firouzmanesh M. *The effect of thermocycling on the degree of conversion of a microhybrid dental composite*. **Oral presented at:** 11th International Association for Dental Research (IADR), Iranian Division Annual Meeting. 2015, December 12, Tehran, Iran. (presenter)

Ghavami-Lahiji M. *Silicone Based Impression Materials, advantages and limitations*. **Oral presented at:** 12th Iranian General Dentists Association. 2018, January 9, Tehran, Iran. (presenter)

Ghavami-Lahiji M. *The effect of dentine desensitizers on the adhesive systems*. **Oral presented at:** 57th International Congress of Iranian Dental Association (EXCIDA) and 1st Middle Eastern Regional Congress, 2017, May 18; Tehran, Iran. (presenter)

Ghavami-Lahiji M, Salehipour Masooleh H. *Using saliva as a diagnostic body fluid through microfluidic approach*. **Poster presented at:** 14th IADR Iranian Division Annual Meeting, 2018, December 12-13, Tehran, Iran. (presenter)

Shahabi S, Karimian R, **Ghavami-Lahiji M**. *Influence of different surface treatments on micro- push out bond strength of fiber posts to composite resin core materials*. **Poster presented at:** 13th IADR Iranian Division Annual Meeting, 2018, January 10-12, Tehran, Iran. (presenter)

Ghavami-Lahiji M, *Recent advances in management of dentine hypersensitivity*; **Poster presented at:** 17th annual congress of Iranian Association of Restorative Dentistry, 2016, October, Tehran, Iran. (presenter)

Ghavami-Lahiji M, Jafarzadeh Kashi TS, Bagheri H, Firouzmanesh M, Mohammadian M. *The Effect of Aging on the Microhardness of a Microhybrid Dental Composite*; **Poster presented at:** 12th IADR Iranian Division Annual Meeting, Dec 2016, Tehran, Iran. (presenter)

Ghavami-Lahiji M, *Zirconia ceramics in contemporary dentistry*; **Poster presented at:** 16th International congress of Iranian Association of prosthodontics, December 6-9, 2016, Tehran, Iran. (presenter)

Ghavami-Lahiji M, *Validity of bond strength tests*; **Poster presented at:** 15th International congress of Iranian Association of prosthodontics, December 15-18, 2015, Tehran, Iran. (presenter)

Ghavami-Lahiji M, *Recent advances in development of calcium phosphates as preventive materials in dentistry*; **Poster presented at:** 10th Congress of General Dentist Association, September 1-4, 2015, Tehran, Iran. (presenter)

Ghavami-Lahiji M. *Tooth-bleaching process and its controversial effects*; **Poster presented at:** 10th Congress of General Dentist Association, September 1-4, 2015, Tehran, Iran. (presenter)

Behroozibakhsh, M, **Ghavami-Lahiji M**, Shahabi S, Sadeghian S, Davaie S. *Effect of Er:YAG Laser and Topical Fluoride Application on the Surface Changes of Dental Enamel Subjected to a pH-cycling Regime and Acid Challenge*. **Oral presented at:** 11th IADR Iranian Division Annual Meeting. 2015, December 23-24, Tehran, Iran.

Shahabi S, **Ghavami-Lahiji M**, *Effect of surface treatments with Er:YAG laser and silica-coat compared to acid etching on the tensile bond strength of resin composite repaired*. **Oral presented at:** 11th IADR Iranian Division Annual Meeting, December 23-24, 2015, Tehran, Iran.

Teaching experience:

“New science and technology” in educational curriculum, International Campus, School of Dentistry, Tehran University of Medical Sciences, 2017

“Metals and alloys, Amalgam, and Ceramics” in educational curriculum, School of Dentistry, Artesh University of Medical Sciences, 2018

“Dental Biomaterials” in educational curriculum, School of Dentistry, Guilan University of Medical Sciences, 19 Jan 2020 up to present.

“Applied Dental Biomaterials” in educational curriculum, School of Dentistry, Guilan University of Medical Sciences, 19 Jan 2020 up to present.

Courses/ Workshops:

1. “TPCF Imaging School: Micro-CT Imaging and its application” by Tehran University of Medical Sciences. Sep 8, 2021
2. “Introduction to Dental Medicine”. A 7-week online course by **University of Pennsylvania. USA.** Grade Achieved: 95.5%. May 17, 2020

3. "How do scientific journals review your articles; the PhD position: Finding them, funding them". International Student Congress of (bio)Medical Sciences (ISCOMS). 2018. June 4-8, Groningen, Netherlands.
 4. "Applied Course on 3D Printer Technologies". 2017, November 1, Tehran.
 5. "The Introduction of a Differential Scanning Calorimeter (DSC) and Its Applications". October 6, 2017, Tehran.
 6. "The Principles of Cell Scaffold & Material Synthesis for Medical Applications". June 1, 2015, Tehran.
 7. "The Principles of Cell Culture". June 17, 2015, Tehran.
 8. "UV-Visible Spectroscopy". April 27, 2017. Tehran.
 9. "Systematic review". February 4-5, 2017. Tehran.
 10. "Introduction to X-Ray Diffraction Method (XRD)". July 24, 2015, Tehran.
 11. "PCR, Real Time PCR". January 12-13, 2020, Tehran.
-