

Hossein Bagheri – DDS; Ph.D in Dental Biomaterials Bagherih@mums.ac.ir

- **Assistant Professor of Dental Biomaterials**, Department of Operative Dentistry (Since 2015)
- **Director of Health Technology Development,** Mashhad University of Medical Sciences (Since Feb 2022)
- President of Iranian Association of Dental Biomaterils, (Since 2021)
- Vice-Chancellor for Research & Technology, School of Dentistry, Mashhad University of Medical Sciences (2018 2022)
- Head of Dental Materials Research Center, Mashhad University of Medical Sciences
- School of Dentistry, Mashhad University of Medical Sciences (Since 2017)

Research Student (Dec 2013-Apr 2014)

Department of Cariology and Restorative Dentistry Tokyo Medical and Dental University (TMDU) Tokyo - Japan

PhD Candidate for Dental Biomaterials (Since Feb2008-Feb2015)

Department of Dental Biomaterials School of Dentistry Tehran University of Medical Sciences Tehran – Iran

Ph.D. thesis: Evaluation of the combination effect of enamel peptides and calcium phosphate compounds on the remineralization of enamel defects.

Lecturer in Dental Biomaterials (Since 2010)

Faculty of dentistry Mashad University of Medical Sciences

Doctor of Dental Surgery (1998 - 2004)

Faculty of Dentistry Mashad University of Medical Sciences Mashad - Iran

Aluminus of Iranian National Organization for Exceptional Talents (1990 - 1998)

Mashad - Iran

Member of IADR

International Association of Dental research (since 2009)

Member of ADM

Academy of Dental Materials (since 2014)

Publications:

- 1. Effects of Diode, CO2, Er: YAG, and Er and Cr: YSGG on Titanium Implant Surfaces by Scanning Electron Microscopy A Moeintaghavi, H Bagheri, MY Pour, S Shafiei, H Moslemi, K Abbasi, ...Advances in Materials Science and Engineering 2021
- 2. Color change of primary teeth following exposure to an experimentally synthesized liposomal nano-encapsulated ferrous sulfate drop versus the commercially available iron drops. M Abbasi, F Mazhari, MR Jaafari, E Afshari, H Bagheri, I Parisay -Pediatric Dental Journal 31 (3), 256-267 2021
- 3. The effect of sodium hexametaphosphate on sensitivity and whitening effectiveness of an at-home bleaching gel: a randomized, triple-blinded clinical trial HS Mohammadipour, H Bagheri, M Akbari, S Behzadi, N Ramezanian, ...Quintessence Int 52 (7), 596-605 2021
- Antimicrobial Activity of Colloidal Selenium Nanoparticles in Chitosan Solution against Streptococcus mutans, Lactobacillus acidophilus, and Candida albicans - M Darroudi, A Rangrazi, K Ghazvini, H Bagheri, A Boruziniat - Pesquisa Brasileira em Odontopediatria e Clínica Integrada 21 - 2021
- 5. Evaluation and Comparison of Newly Developed Phosphoric Acid Gel (Exir) with Two Different Common Gels in Iran H Mohammadipour, H Bagheri, M Malekmohammadi, S Sekandari Journal of Dental Materials and Techniques 10 (1), 34-43 2021
- 6. Post-treatment Flare-up Incidence after Using Nano Zinc Oxide Eugenol Sealer in Mandibular First Molars with Irreversible Pulpitis M Javidi, M Zarei, E Ashrafpour, M Gharechahi, H Bagheri Journal of Dentistry 21 (4), 307 2020
- 7. Evaluation of the Effect of Incorporation of Nano-fluorohydroxyapatite on Tensile Strength and Modulus of Elasticity of an Essix Plate H Shafaee, H Aboutorabzadeh, H Bagheri, B Yaloodbardan, A Rangrazi Iran J Ortho 15 (1), 2020
- 8. The Effect of Sandblasting and Coating of Zirconia by Nano Composites on Bond Strength of Zirconia to Resin Cements PK Zarandi, A Madani, H Bagheri, M Moslemion Journal of Dentistry 21 (1), 63, 2020
- 9. Is impregnation of xenograft with caffeine effective on bone healing rate in mandibular defects? a pilot histological animal study S Samieirad, V Mianbandi, H Salari Sedigh, M Hosseini-Abrishami, ...Journal of Maxillofacial and Oral Surgery 19 (1), 85-92 2020

- 10. Synthesis and antibacterial activity of colloidal selenium nanoparticles in chitosan solution: a new antibacterial agent A Rangrazi, H Bagheri, K Ghazvini, A Boruziniat, M Darroudi Materials Research Express 6 (12), 2020
- 11. Color properties of artificial white spot lesions treated by experimental resin infiltrants containing bioactive glass and nano-fluorohydroxyapatite H Bagheri, F Namdar, M Hosseini Rivandi, S Asadi Int J Esthet Dent 15 (3), 334-343 2020
- 12. Polymerization shrinkage, shrinkage stress, and degree of conversion in bulk-fill resin composites after different photo-activation methods S Majidinia, H Bagheri, S Ramezani, MJ Giv, N Vatanparast, F Namdar Dental Hypotheses 11 (1), 4 2020
- 13. Samieirad S, Mianbandi V, Sedigh HS, Hosseini-Abrishami M, Shiezadeh F, Bagheri H, Tohidi E, Saghravanian N. Is Impregnation of Xenograft with Caffeine Effective on Bone Healing Rate in Mandibular Defects? A Pilot Histological Animal Study. Journal of Maxillofacial and Oral Surgery. 2019:1-8.
- 14. Saberi S, Doshanlo SS, Bagheri H, Rezaei SM, Shahabi S. Evaluation of Tooth Surface Irradiated With Erbium: Yttrium Aluminum Garnet and Carbon Dioxide Lasers by Atomic Force Microscopy. Journal of lasers in medical sciences. 2018;9(3):188.
- 15. Ghavami-Lahiji M, Firouzmanesh M, Bagheri H, Jafarzadeh Kashi TS, Razazpour F, Behroozibakhsh M. The effect of thermocycling on the degree of conversion and mechanical properties of a microhybrid dental resin composite. Restorative dentistry & endodontics. 2018 Mar 6;43(2).
- 16. .4 Shekofteh K, Boruziniat A, Moghaddas MJ, Namdar F, Zahabi E, Bagheri H. Formulation and mechanical characterization of a semi-crystalline nano-fluorine hydroxyapatite-filled dental adhesive. Journal of the Australian Ceramic Society. 2018 Dec 1;54(4):731-8.
- 17. Heravi F, Omidkhoda M, Koohestanian N, Hooshmand T, Bagheri H, Ghaffari N. Retentive Strength of Orthodontic Bands Cemented with Amorphous Calcium Phosphate-Modified Glass Ionomer Cement: An In-Vitro Study. Journal of Dentistry of Tehran University of Medical Sciences. 2017;14:13-20.
- 18. Madani A, Nakhaei M, Karami P, Rajabzadeh G, Salehi S, Bagheri H. Sol—gel dip coating of yttria-stabilized tetragonal zirconia dental ceramic by aluminosilicate nanocomposite as a novel technique to improve the bonding of veneering porcelain. International Journal of Nanomedicine. 2016:11:3215.
- 19. Heravi F, Bagheri H, Rangrazi A, Zebarjad SM. An in vitro study on the retentive strength of orthodontic bands cemented with CPP-ACP-containing GIC. Materials Research Express. 2016;3:125401.
- 20. Heravi F, Bagheri H, Rangrazi A, Zebarjad SM. Incorporation of CPP-ACP into Luting and Lining GIC: Influence on Wear Rate (in the Presence of Artificial Saliva) and Compressive Strength. ACS Biomaterials Science & Engineering. 2016;2:1867-71.
- 21. Heravi F, Bagheri H, Rangrazi A, Zebarjad SM. Effects of the addition of casein phosphopeptideamorphous calcium phosphate (CPP-ACP) on mechanical properties of luting and lining glass ionomer cement. Materials Research Express. 2016;3:075405.
- 22. Fekrazad R, Naghdi N, Nokhbatolfoghahaei H, Bagheri H. The combination of laser therapy and metal nanoparticles in cancer treatment originated from epithelial tissues: a literature review. Journal of Lasers in Medical Sciences. 2016;7:62.
- 23. Tabatabaei MH, Sheikhzadeh S, Rad HGM, Beygi A, Bagheri H. Effect of In-Office Carbamide Peroxide-Based Tooth Bleaching System on Wear Resistance of Silorane-Based and Methacrylate-Based Dental Composites. Journal of dentistry (Tehran, Iran). 2015;12:557.

- 24. Shafiei F, Hossein BG, Farajollahi MM, Fathollah M, Marjan B, Tahereh JK. Leucine-rich amelogenin peptide (LRAP) as a surface primer for biomimetic remineralization of superficial enamel defects: An in vitro study. Scanning. 2015;37:179-85.
- 25. Madani AS, Astaneh PA, Nakhaei M, Bagheri HG, Moosavi H, Alavi S, et al. Effectiveness of Silica-Lasing Method on the Bond Strength of Composite Resin Repair to Ni-Cr Alloy. Journal of Prosthodontics. 2015;24:225-32.
- 26. Khaksaran NK, Kashi TJ, Rakhshan V, Zeynolabedin ZS, Bagheri H. Kinetics of pulpal temperature rise during light curing of 6 bonding agents from different generations, using light emitting diode and quartz-tungsten-halogen units: An in-vitro simulation. Dental research journal. 2015;12:173.
- 27. Jafarzadeh T-S, Erfan M, Behroozibakhsh M, Fatemi M, Masaeli R, Rezaei Y, et al. Evaluation of polymerization efficacy in composite resins via FT-IR spectroscopy and Vickers microhardness test. Journal of dental research, dental clinics, dental prospects. 2015;9:226.
- 28. Hossein BG, Sadr A, Espigares J, Hariri I, Nakashima S, Hamba H, et al. Study on the influence of leucine-rich amelogenin peptide (LRAP) on the remineralization of enamel defects via microfocus x-ray computed tomography and nanoindentation. Biomedical Materials. 2015;10:035007.
- 29. Bagheri H, Hooshmand T, Aghajani F. Effect of Ceramic Surface Treatments After Machine Grinding on the Biaxial Flexural Strength of Different CAD/CAM Dental Ceramics. Journal of dentistry (Tehran, Iran). 2015;12:621.
- 30. Bagheri H, Sadr A, Espigares J, Nakashima S, Hamba H, Shafiei F, et al. Leucine rich amelogenin peptide improves the remineralization of enamel lesions. Dental Materials. 2014:30:e172-e3.
- 31. sadat Madani A, Astaneh PA, Shahabi S, Nakhaei MR, Bagheri H, Chiniforush N. Influence of different power outputs of intraoral Nd: YAG laser on shear bond strength of a resin cement to nickel–chromium dental alloy. Lasers in medical science. 2013;28:229-34.
- 32. Madani AS, Astaneh PA, Shahabi S, Nakhaei MR, Bagheri H, Chiniforush N. Influence of different power outputs of intraoral Nd: YAG laser on shear bond strength of a resin cement to nickel-chromium dental alloy. Lasers in Medical Science. 2013;28:229.
- 33. Fateme Nematollahi NA, Sima Shahabi, Hossein Bagheri G. Comparison effect of artificial tooth type and cyclic loading on the bond strength to auto-polymerized acrylic denture base resins. Journal of Dental Medicine. 2013;26:81-90.
- 34. Behzad S, Sima S, Hossein B, Mahsa Y. Effect of three disinfectants (chlorhexidine, sodium hypochlorite and hydrogen peroxide) on the microleakage of 7th generation bonding agents. Journal of Dental Medicine. 2013;26:321-7.
- 35. Shahabi S, Bagheri HG, Ramazani K. Tensile bond strength of sealants following Er: YAG laser etching compared to acid etching in permanent teeth. Lasers in medical science. 2012:1-5.
- 36. Rezaei Y, Bagheri H, Esmaeilzadeh M. Effects of laser irradiation on caries prevention. Journal of Lasers in Medical Sciences. 2011;2:159.
- 37. Kashi TJ, Behroozibakhsh M, Fatemi S, Rezaei Y. Degree of conversion of nano-and microhybrid resin composites cured by different light sources. dental materials. 2010;26:e18-e9.
- 38. Kashi TJ, Behroozibakhsh M, Fatemi S, Erfan M. The effect of temperature on the efficacy of polymerization of a dental resin composite. dental materials. 2010;26:e19-e20.
- 39. Ghoddusi J, Javidi M, Zarrabi M, Bagheri H. Flare-ups incidence and severity after using calcium hydroxide as intracanal dressing. The New York state dental journal. 2005;72:24-8.
- 40. Kashi TSJ, Erfan M, Najafabadi AF, Fatemi SM, Behroozibakhsh M, Hali H, et al. Degree of conversion of micro-hybrid, nano-hybrid and Ormocer composites using LED and QTH light-curing units. Journal of Dental Medicine.25.

Book Publications:

- 1. CDR for Dental Materials (Based on Introduction to Dental Materials Van noort 2007)
- 2. CDR for Dental Materials (Based on Applied Dental Materials McCabe 2008)

Patents:

- Production of Casein Phosphopeptide (CPP) from cow milk Patent No.
 139750140003007468 Registration No. 98255. I.R Iran Intellectual Property Organization.
- New dental adhesive containing chitosan-silver oxide combination. Patent No. 139850140003002503 - Registration No. 102174. I.R Iran Intellectual Property Organization.
- 3. Teeth whitening gel containing 40% hydrogen peroxide and 1% fluorohydroxyapatite for use in dental offices and clinics. Patent No. 139850140003011618 Registration No.102350. I.R Iran Intellectual Property Organization.
- 4. Teeth whitening gel containing 3% hydrogen peroxide and 1% sodium hexametaphosphate for home use. Patent No. 139950840003001691 Registration No. 102373. I.R Iran Intellectual Property Organization.
- 5. Production of anti-microbial colloidal solution of selenium nanoparticles in chitosan substrate Patent No. 139950140003001762 Registration No. 103159. I.R Iran Intellectual Property Organization.
- 6. HA hydroxyapatite bone powder with caffeine to increase the power of bone repair in jaw and face defects. Patent No. 139850140003002814 Registration No. 100214. I.R Iran Intellectual Property Organization.
- 7. Real-time recording device of polymerization shrinkage of dental materials and presentation of shrinkage pattern. Patent No. 139750140003005367 Registration No. 99866. I.R Iran Intellectual Property Organization.