

CURRICULUM VITAE



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Physician, Assistant Professor of Biophysics

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Education

1997-2005 Medical Doctor Degree *: Faculty of Medicine, Tehran University of Medical Sciences (TUMS).

- (Including 18 months of Internship).

2010-2016 PhD of Biophysics, Institute of Biochemistry and Biophysics (IBB), University of Tehran, Tehran, Iran

- **PhD Dissertation:** Evaluation of adaptive response of Photobiomodulation to ionizing radiation in normal and cancerous cells

Work Experience

2016-present Assistant Professor of Biophysics, Laser Medical Research Center, ACECR, Tehran, Iran

2010-2016 PhD student, Institute of Biochemistry and Biophysics (IBB), University of Tehran, Tehran, Iran

2005-2010 Research Fellow, Medical Laser Research Center, Academic Center for Education, Culture and research (ACECR), Tehran, Iran

2005-present Research methodologist and biostatistics and Member of Research Committee at Iranian Research Center for HIV/AIDS, Tehran University of Medical Sciences, Tehran, Iran

1999-present Senior consultant of research methodology and biostatistics at Students' Scientific Research Center (SSRC), Tehran University of Medical Sciences, Tehran, Iran

Publications:

1. Keshmiri Neghab H, Goliaei B, Saboury AA, **Djavid GE**, Pornour M, Hong J, Grusch M. Modulation of cardiac optogenetics by vitamin A. *Biofactors*. 2019;45(6):983-990.

2. **Djavid GE**, Bigdeli B, Goliaei B, Nikoofar A, Hamblin MR. Photobiomodulation leads to enhanced radiosensitivity through induction of apoptosis and autophagy in human cervical cancer cells. *J Biophotonics*. 2017;10(12):1732-1742.
3. **Djavid GE**, Goliaei B, Nikoofar AR. Analysis of radiomodulatory effect of low level laser irradiation by clonogenic survival assay. *Photomed Laser Surg*. 2015 Sep;33(9):452-9
4. Vaseghi H, Pornour M, **Djavid GE**, Rigi G, Ganji SM, Novin L. Association of the gene expression variation of tumor necrosis factor- α and expressions changes of dopamine receptor genes in progression of diabetic severe foot ulcers. *Iran J Basic Med Sci*. 2017;20(11):1213-1219
5. Darabpour E, Kashef N, Amini SM, Kharrazi S, **Djavid GE**. Fast and effective photodynamic inactivation of 4-day-old biofilm of methicillin-resistant *Staphylococcus aureus* using methylene blue-conjugated gold nanoparticles. *Journal of Drug Delivery Science and Technology* 2017 Feb;37, 134-140.
6. Effatpanah H, Effatpanah M, Mohammadi MJ, Geravandi S, Ghadami M, Ahmadkhaniha HR, **Djavid GE**, Arabgol F. Determination of association between the polymorphism in exon 3 of dopamine receptor gene type 4 with attention deficit-hyperactivity disorder. *Clinical Epidemiology and Global Health* (<https://doi.org/10.1016/j.cegh.2019.08.016>), in press
7. **Djavid GE**, Naderi M, Khorsandi K, Hosseinzadeh R, Jahanshiri M. In-Vitro effect of low level laser irradiation on directional immigration of adipose tissue-derived stem cells (ADSCs) in Direct Current Electric Fields. 2nd International Congress on Stem Cells & Regenerative Medicine, May 2015, Mashhad, Iran
8. Kashef N, Karami S, **Djavid GE**. Phototoxic effect of hypericin alone and in combination with acetylcysteine on *Staphylococcus aureus* biofilms. *Photodiagnosis Photodyn Ther*. 2015 Jun;12(2):186-92.
9. Mirzaei H, **Djavid GE**, Hadizadeh M, Jahanshiri-Moghadam M, Hajian P. The efficacy of Radachlorin-mediated photodynamic therapy in human hepatocellular carcinoma cells. *J Photochem Photobiol B*. 2015 Jan;142:86-91.
10. Kashef N, Borghei YS, **Djavid GE**. Photodynamic effect of hypericin on the microorganisms and primary human fibroblasts. *Photodiagnosis Photodyn Ther*. 2013 May;10(2):150-5.
11. Kashef N, Ravaei Sharif Abadi G, **Djavid GE**. Photodynamic inactivation of primary human fibroblasts by methylene blue and toluidine blue O. *Photodiagnosis Photodyn Ther*. 2012 Dec;9(4):355-8.
12. Zand N, Fateh M, Ataie-Fashtami L, **Djavid GE**, Fatemi SM, Shirkavand A. Promoting wound healing in minor recurrent aphthous stomatitis by non-thermal, non-ablative CO(2) laser therapy: a pilot study. *Photomed Laser Surg*. 2012 Dec;30(12):719-23
13. Shirkavand A, Ataie-Fashtami L, Sarkar S, Alinaghizadeh MR, Fateh M, Zand N, **Djavid GE**. Thermal damage patterns of diode hair-removal lasers according to various skin types and hair densities and colors: a simulation study. *Photomed Laser Surg*. 2012 Jul;30(7):374-80.
14. Kashef N, Ravaei Sharif Abadi G, **Djavid GE**. Phototoxicity of phenothiazinium dyes against methicillin-resistant *Staphylococcus aureus* and multi-drug resistant *Escherichia coli*. *Photodiagnosis Photodyn Ther*. 2012 Mar;9(1):11-5.
15. **Djavid GE**, Emami A, Ataie-Fashtami L, Safaienodehi SR, Merikh-Baiat F, Fateh M, Zand N. Low level laser therapy in management of chemotherapy induced oral mucositis: prophylaxis or treatment? *Journal of Lasers in Medical Sciences* 2011, 2(1):12-17.

16. Kaviani A, **Djavid GE**, Ataie-Fashtami L, Fateh M, Ghodsi M, Salami M, Zand N, Kashef N, Larijani B. A randomized clinical trial on the effect of low-level laser therapy on chronic diabetic foot wound healing: a preliminary report. *Photomed Laser Surg.* 2011 Feb;29(2):109-14.
17. Zand N, Ataie-Fashtami L, **Djavid GE**, Fateh M, Alinaghizadeh MR, Fatemi SM, Arbabi-Kalati F. Relieving pain in minor aphthous stomatitis by a single session of non-thermal carbon dioxide laser irradiation. *Lasers Med Sci.* 2009 Jul;24(4):515-20.
18. Olfatbakhsh A, Beheshtian T, **Djavid GE**. Granulomatous mastitis, erythema nodosum, and oligoarthritis in a pregnant woman. *Breast J.* 2008 Nov-Dec;14(6):588-90.
19. **Djavid GE**, Mehrdad R, Ghasemi M, Hasan-Zadeh H, Sotoodeh-Manesh A, Pouryaghoub G. In chronic low back pain, low level laser therapy combined with exercise is more beneficial than exercise alone in the long term: a randomised trial. *Aust J Physiother.* 2007; 53(3):155-60.
20. Aghahosseini F, Arbabi-Kalati F, Fashtami LA, **Djavid GE**, Fateh M, Beitollahi JM. Methylene blue-mediated photodynamic therapy: a possible alternative treatment for oral lichen planus. *Lasers Surg Med.* 2006; 38(1):33-8.
21. Aghahosseini F, Arbabi-Kalati F, Fashtami LA, Fateh M, **Djavid GE**. Treatment of oral lichen planus with photodynamic therapy mediated methylene blue: a case report. *Med Oral Patol Oral Cir Bucal.* 2006; 11(2):E126-9.
22. Kaviani A, Ataie-Fashtami L, Fateh M, Sheikhabaee N, Ghodsi M, Zand N, **Djavid GE**. Photodynamic therapy of head and neck basal cell carcinoma according to different clinicopathologic features. *Lasers Surg Med* 2005; 10:65-74.
23. **Djavid GE**, Erfani R, Amoohashemi N, Pazouki M, Aghaee S, Pazokitroudi H. Effect of low level He-Ne laser on acute mucosal ulceration induced by indomethacine in rat. *Proc SPIE* 2002; 4903:189-192.

Honors and Rewards:

- Awarded as the best student researcher of Students' Scientific Research Center (SSRC), Tehran University of Medical Sciences, December 1999, Tehran, Iran.
- Certificate of honor for best paper in the international congress of laser in medicine (Laser Florence), 2003.
- Awarded as the best student researcher of medical school, Faculty of Medicine, Tehran University of Medical Sciences, 2002, Tehran, Iran.
- Certificate of honor for best Lecture in the international congress of laser in medicine (Laser Florence), 2005.

Research Skills

- Animal modeling
- Cell culture and in-vitro modeling
- Clonogenic survival assay
- Radiation Biophysics
- Low level lasers
- DNA injury assay
- Flow cytometry
- Clinical trial design
- Research Methodology
- Biostatistics

- Data mining and modeling