

CURRICULUM VITAE

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Educational Field:

2008- 2014 **Ph.D.**, Clinical Biochemistry, Biochemistry Department
Shiraz University of Medical Sciences, Shiraz, Iran.

Thesis title: Amylin in the rat spinal cord: Nociceptive properties,
functional characterization of receptors and effects on
the expression of BDNF in morphine tolerance.

1997-2000 **M.Sc.**, Clinical Biochemistry, Biochemistry Department
Shiraz University of Medical Sciences, Shiraz, Iran.

Thesis title: Effects of ICV injection of Glucagon like peptide -1
and its related peptides on serotonin metabolism and on
levels of amino acids in rat hypothalamus.

1986- 1990 **B.Sc:** Chemistry Chemistry Department, Az- Zahra

University

Professional Experiences:

2014 September – Assistant Professor, Dept. of Biochemistry, School of
present: Medicine, Shiraz University of Medical Sciences, **Shiraz/ Iran.**

2018 Nov – present: Co-founder of X-medical, Shiraz / Iran

2001 – 2008: Instructor of biochemistry laboratory, teaching
Biochemistry at Nursing and Midwifery School,
Paramedical School, and Hygiene School of Shiraz
university of medical sciences. assistant project and in
charge of Atomic Absorption Instrument, Biochemistry
Department, Medical School, Shiraz University of
Medical Sciences, Shiraz / Iran

1992- 2000: Laboratory instructor for general chemistry in the faculty
of pharmacy, Shiraz / Iran

Skills:

HPLC method, atomic absorption, Cell culture techniques, Western blot, RNA extraction Immunohistochemistry, RT-PCR, Gel Electrophoresis, Real time PCR, Eliza method, enzyme assay, some behavioural works, interathecal and intracerebroventricular injection, general biochemistry techniques. Microsoft Office package: Microsoft Word, Excel, Access and statistical operation: SPSS, Prism

Publications:

- 1- Neisy, A., **Khoshdel, Z.**, Koohpeyma, F., (...), Shokri, S., Zal, F. Daidzein improves neuronal health and alleviates inflammation and apoptosis through BDNF and estrogen receptors in the hippocampus of ovariectomized rats. Iranian Journal of Basic Medical Sciences, 28(7):888-898.
- 2- Shafiee, L., Mokarram, P., Shamsdin, S.A., **Khoshdel, Z.** *.Investigation of the Methylation Status of Two Autophagy Genes, LC3B and ATG5, with Autophagy Gene Polymorphism ATG16L1 in Patients with Colorectal Cancer in Fars Province. Shiraz E Medical Journal, 26(4): - 2025 (2025-3-31)
- 3- **Khoshdel, Z.**, Gholijani, N., Niknam, M., Hemmati-Dinarvand, M., Naghibalhossaini, F. Serum Copper and Zinc Levels Among Iranian Vitiligo Patients. Dermatology Practical and Conceptual 12(4): 2022 (2022-9-30)
- 4- Moghadam, D., Zarei, R., Tatar, M., **Khoshdel, Z.**, Mashayekhi, F.J., Naghibalhossaini, F. Anti-Proliferative and Anti-Telomerase Effects of Blackberry Juice and Berry-Derived Polyphenols on HepG2 Liver Cancer Cells and Normal Human Blood Mononuclear Cells. Anti-Cancer Agents in Medicinal Chemistry 22(2):395-403
- 5- Dianati-Nasab, A., Nasrollahi, H., **Khoshdel, Z.**, Ghorbani, M., Shafiee, S.M. Overexpression of TIGAR and HO-1 in peripheral blood mononuclear cells (PBMCs) of breast cancer patients treated with radiotherapy. International Journal of Radiation Biology, 98(10):1551-1558
- 6- M Borji, SM Shafiee, S Fakher, **Z Khoshdel**. The effects of Naringenin and resveratrol on the expression of brain-derived neurotrophic factor and nerve growth factor in rats hippocampus- Clinica Chimica Acta, 2024 – Elsevier
- 7- , M.A., Mahmoodazdeh, A., Shafiee, S.M., Sisakht, M., **Khoshdel, Z.** Adrenomedullin and Protecting Spinal Motor Neurons Against Doxorubicin-induced Toxicity, Basic and Clinical Neuroscience, 2024 (2024-8-31) 15(5):617-630.
- 8- Aghazadeh Ghadim Mir Behrad, Mahmoodzadeh Amir, Neisy Asma, **Khoshde Zahra** Effects of Lavender Aqueous Extract on the Levels of Oxidative Stress Markers in the Sera and Tissues from Male Sprague–Dawley Rats with Chronic Mild Stress . Journal of Advanced Biomedical Sciences, 2023-10-17
- 9- Mir Behrad Aghazadeh Ghadim, Asma Neisy, Mohsen Sisakht and **Zahra Khoshdel** *. Lavandula angustifolia aqueous extract ameliorates anxiety and depressive-like behaviors in chronic mild stress-treated male rats. Journal of Medicinal Plants Research Vol. 14(11), pp. 593-603, November, 2020
- 10- A. Mahmoodzadeh, SM. Shafiee, M. Sisakht, **.Z. Khoshdel**, M.A. Takhshid. Adrenomedullin protects rat dorsal root ganglion neurons against doxorubicin-induced toxicity by ameliorating oxidative stress. J Basic Med Sci 2020; 23:1-10.

- 11- A Seghatoleslam, **Z Khoshdel**, R Ghafouri, Sh Fakher, M Molaei, M Namavari, F ZalThe composition and anti-toxicity effects of Cichorium intybus distillate on serum antioxidant status in CCl4-treated female rats .Archives of Razi Institute Archives of Razi Institute, Vol. 76, No. 1 (2021)
- 12- Sisakht, M., Darabian, M., Mahmoodzadeh, A, S.M. Shafiee, Mokarram, P., **Khoshdel, Z.** The role of radiation induced oxidative stress as a regulator of radio-adaptive responses. International Journal of Radiation Biology, 2020; 96(5), pp. 561-576.
- 13- Mahboubeh Molaei^{1, 2}, **Zahra Khoshdel**², Ramandeep Kaur¹, Rita Rezzani³, Francesca Bonomini³, Gaia Favero³, Gabor Fischer⁴, Mohammed H. Moghadasian*. Anti-Atherogenic Diets: Observations from Mouse Models. Advances in Nutrition and Food Science ANAFS-162. Received Date: December 21, 2019; Accepted Date: December 30, 2019; Published Date: January 09, 2020 Volume **2020**, Issue.
- 14- **Khoshdel, Z.,** Ahmadpour Jirandeh, S., Takhshid, M.A., Jalali Mashayekhi, F., Shojaei, S., Owji, A.A. The BDNF Protein and its Cognate mRNAs in the Rat Spinal Cord during Amylin-induced Reversal of Morphine Tolerance. Neuroscience, **2019** 422, pp. 54-64.
- 15- Jalali Mashayekhi, F., Rasti, M., **Khoshdel, Z.,** Owji, A.A. Expression Levels of the Tyrosine Hydroxylase Gene and Histone Modifications Around its Promoter in the Locus Coeruleus and Ventral Tegmental Area of Rats during Forced Abstinence from Morphine. European Addiction Research, 2019; 24(6), pp. 304-311
- 16- Miladpour, B., Rasti, M., Owji, A.A., **Z. Khoshdel**, Noorafshan, A., Zal, F. Quercetin potentiates transdifferentiation of bone marrow mesenchymal stem cells into the beta cells in vitro. Journal of Endocrinological Investigation, 2017; 40(5), pp. 513-521
- 17- Shojaei, S., Panjeshahin, M.R., Shafiee, S.M., **Z, Khoshdel**, Ghasempour, G., Owji, A.A. Differential effects of resveratrol on the expression of brain-derived neurotrophic factor transcripts and protein in the hippocampus of rat brain. Iranian Journal of Medical Sciences, 2017; 42(1), pp. 32.
- 18- **Z.Khoshdel** et al" _Effects of intrathecal amylin on formalin-induced nociception and on cAMP accumulation in the rat embryonic spinal cells" Neuropeptides, 57, pp. 95-100 2016
- 19- **Z.Khoshdel** et al," Serum Copper and Zinc Levels Among Iranian Colorectal Cancer Patients, Biological Trace Element Research 170(2), pp. 294-299 2015
- 20- **Khoshdel.Z,** Takhshid.M, Qwji.AA. Intrathecal Amylin and Salmon Calcitonin Affect Formalin Induced c-Fos Expression in the Spinal Cord of Rats. Iran J Med Sci. 2014 Nov; 39(6):543-551.
- 21 -Dastgheib L, Mostafavi-Pour Z, Abdorazagh AA, **Khoshdel Z**, Sadati MS, Ahrari I, Ahrari S, Ghavipisheh M.,Comparison of zn, cu, and fe content in hair and serum in alopecia areata patients with normal group. Dermatol Res Pract. 2014; 2014: 784863
- 22 -Mostafavi-pour Z*, Vessal M, Zal F, **Khoshdel Z**, Torabinejad S,. "Protection effects of vitamin E and or Quercetin Co- Supplementation on the Morphology of Kidney in Cyclosporine A- treated rats.Iranian journal of medical sciences, vol 34(4) : 271-276 2009
- 23- Z.Amirghofran*, M.Gharagozloo, **Z.khoshdel**"The effects of an iron (III) chelator, silybin, on the proliferation and cell cycle of Jurkat cells; a comparison with desferrioxamine "European journal of pharmacology 'European journal of pharmacology 589(1-3): 1-7, 2008

24- M.Vessal*, N.Fathi, **Z.Khoshdel**, “Effects of aqueous extract of physalis alkekengi fruits on the activity of ovarian 3- beta and 20 alpha – hydroxylstroid dehydrogenase in late pregnancy in rat” Iranian journal of medical sciences, Vol. 29, NO. 4 Dec 2004

25- **Z.Khoshdel** et al, « Effects of intracerebroventricular injection of glucagons like peptide -1 and its related peptides on serotonin metabolism and on levels of amino acids in rat hypothalamus”, Brain Research 929,(70-75)2002