

## CURRICULUM VITAE

**Date of preparation:** 23 December 2020

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**Education Field:**

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

**Thesis Title:** Amylin in rat spinal cord: Nociceptive properties,  
functional characterization of receptors and effects on the  
expression 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 – Present:**

Assistant Professor, Dept. Of Biochemistry, School of  
Medicine, Shiraz University of Medical Sciences,  
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 University of Medical Sciences, Shiraz, Iran.

**Skills:**

HPLC method, atomic absorption, Cell culture technique Immunohistochemistry, Immunoblotting, RNA extraction, RT-PCR, Real time PCR, Gel Electrophoresis, Eliza method , enzyme assay, protein purification methods and some behavioral works, intrathecal and intracerebroventricular injection, general biochemistry techniques.

**Publications:**

- 1- Delaram Moghadam , Reza Zarei , Mohsen Tatar, **Zahra Khoshdel** 1, Farideh Jalali Mashayekhi 2, Fakhraddin Naghibalhossaini “Anti-Proliferative and Anti-Telomerase Effects of Blackberry Juice and Berry-Derived Polyphenols on HepG2 Liver Cancer Cells and Normal Human Blood Mononuclear Cells” Anticancer Agents Med Chem 2021 Mar 14. doi: 10.2174/1871520621666210315092503.
- 2- 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)
- 3- 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

- 4- A. Mahmoodzadeh, S.M. 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.
  
- 5- 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.
  
- 6- Mahboubbeh Molaei, **Zahra Khoshdel**, Ramandeep Kaur, Rita Rezzani, Francesca Bonomini, Gaia Favero, Gabor Fischer, 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.
  
- 7- **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.
  
- 8- 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
  
- 9- 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
  
- 10- Shojaei, S., Panjehshahin, 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.
  
- 11- **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
  
- 12- **Z.Khoshdel** et al," Serum Copper and Zinc Levels Among Iranian Colorectal Cancer Patients, *Biological Trace Element Research* 170(2), pp. 294-299 2015
  
- 13- **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.

- 14 -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
- 15 -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
- 16- 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
- 17- 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
- 18- **Z.Khoshdela** 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

#### **Workshop participated:**

On Primer designe

On Real time PCR

On western blot

On gene Transfection

On Endnote X5

On Principles of Scientific Writing in Medical Sciences,

One-month medical education fellowship program in February and March 2015, EDC, SUMS

Reasearch Fellowship winter 2016, SUMS

Electronic Learning fellowship; Center of Excellence for Electronic Learning in Medical Sciences, June – July 2015, SUMS

### **Abstract Presented in Congresses:**

- 1- Evaluation of Zinc in serum of Iranian Vitiligo patients. The 6<sup>th</sup> Iranian Congress of Trace elements (ICTE 2020), 1-2 september2020 Tehran Iran
- 2-The study of DNA methylation patterns of prodynorphine gene (PDYN) promoters in morphine tolerance rats.The 15<sup>th</sup> Iranian National Congress of Biochemistry & 6<sup>th</sup> International Congress of Biochemistry and Molecular Biology, 25-28 August 2018, Isfahan, Iran.
- 3-Effects of amylin on the reversal of morphine tolerance and on the expression level of BDNF mRNA in the rat spinal cord. 6<sup>th</sup> International Congress on Neuropathic pain, Gothenburg, Sweden; June 15-18, 2017
- 4- Serum Copper and Zinc levels among Iranian Colorectal Cancer Patients. The 4rd Iranian Congress of Trace elements, 10 -12 March 2015
- 5- Effects of chronic administration of morphine on the expression of BDNF mRNA in the rat lumbar spinal cord. The 13<sup>th</sup> Iranian Congress of Biochemistry &5<sup>th</sup> International Congress of Biochemistry and Molecular Biology, 16-19 April 2013 Yazd, Iran
- 6- Comparing the atomic absorption spectrophotometry and photometry methods in the serum magnesium measurements. The 13<sup>th</sup> Iranian Congress of Biochemistry &5<sup>th</sup> International Congress of Biochemistry and Molecular Biology, 16-19 April 2013 Yazd, Iran
- 7- Effects of intrathecal of administration of amylin and salmon calcitonin on pain transmission in formalin model of inflammatory nociception in rats. The 12<sup>th</sup> Iranian Congress of Biochemistry & 4rd International Congress of Biochemistry and Molecular Biology, 6-9 September 2011, Mashhad, Iran.
- 8- Intrathecal CGRP 8-37 attenuates formalin induced pain behavior and spinal cord fos expression in rats The 12<sup>th</sup> Iranian Congress of Biochemistry & 4rd International Congress of Biochemistry and Molecular Biology, 6-9 September 2011, Mashhad, Iran.