

# KHOJASTEH JOHARCHI

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## Curriculum Vitae

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## CAREER SUMMARY

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I am an MD., Ph.D. in pharmacology. I have been a pre-med student at California state university of Hayward, CA, USA, and have finished my M.D., and also Ph.in Pharmacology, in medical school at Shahid Beheshti University of Medical Sciences (SBUMS), Tehran, Iran. I had postdoctoral training in Molecular Biology at Kyorin University Hospital, Tokyo, Japan. I have about 20 years of experience working as a General practitioner in public and private clinics.

Consequently teaching and researching to become an Associate Professor of Pharmacology in medical school and a member of the Neuroscience Research Center in SBUMS. I have a particular interest in clinical pharmacology, and my goal is to make a link from bench to bed, also from traditional medicine to modern medicine. Hence, my work focuses on Diabetes, Neuropathic Pain, Morphine Tolerance, Nitric Oxide, laser therapy, and traditional remedies - proved evidently useful in new medical approaches such as wound healing- and recently on Malignant Ascites and Cancer. I have been the Deputy in Academic Affairs and also the Chief Preceptor and Chief Mentor of the pharmacology department at Medical school for more than 12 years. I have been managing, supervising, and advising many research projects, some Medical, Dental, and Ph.D. thesis, and several clinical trials. I have also launched a new laboratory for Nitric Oxide measurements in our department and invented a new domestically patented drug (ANNAS) out of a traditional Iranian remedy. I have been one of the editorial board members and the author of original articles in some leading journals, for instance, JPETH, EJP, NO, etc., and have several presentations at world congresses such as FAONS, IASP, and NO. I am also writing a few pharmacology books for medical and dental students whom I feel require much better comprehension of pharmacology, as one of the pillar stones in their future career, and more importantly in their patient's treatment procedures.

## WORK EXPERIENCE

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### ASSOCIATE PROFESSOR

2005 - PRESENT

School of Medicine, Shahid Beheshti University of Medical Sciences (SBUMS), Tehran, Iran

- Deputy in Academic Affairs of SBUMS pharmacology Department for more than 12 years.
- Manager and Chief Preceptor and Chief Mentor of the Department from 2005 till 2017.
- The Department representative in Medical Education Reform Council (senior course curriculum designer and program manager)
- Teaching average of 6 courses of basic and clinical pharmacology per semester in different disciplines

## Khojasteh Joharchi; MD., PhD. Of Pharmacology

- Establishing and equipping a new laboratory for Nitric Oxide measurements in the Department and inventing a new domestically patented drug.
- Workshop manager and director of interns, for correct prescribing and Rational Drug Use workshops.
- Educational and research Manager (Supervisor and Advisor) of some Medical, Dental, Master, and Ph.D. thesis.
- Manager and Director of many research projects and clinical trials.

### **POSTDOC**

**2004-2005**

#### **Department of Pharmacology, Kyorin University Hospital, Tokyo, Japan**

- Molecular biology research training course
- RNA extraction and Sub-cloning of two genes (F23F1.6 and AAT- 2) in C- elegans

### **General Physician**

**1994-2000**

#### **Public and private clinics medical Doctor, Tehran, Iran**

- The Manager and Head of Ahmadi's Clinic (North Tehran Public Clinics), supervising all the medical staff including three specialists (Pediatrician, Gynecologist, and Psychiatrist), four General Practitioners, Three Dentists and 14 other medical staff in the morning shift, Tehran, Iran. 1997-2000
- The Doctor in charge, Dogmehchi Public Clinic, morning shift, Tehran, Iran 1996-1997
- Manager and physician of Personal Private Clinic, Evening shift, Tehran, Iran 1994-2000

## **TEACHING INTEREST**

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*I am interested and have experience teaching Pharmacology at all levels and disciplines.*

Being a Medical Doctor gives me the knowledge and experience to teach the “Guide to Good Prescribing and Rational Drug Use,” and I have run twenty workshops in this field.

Since the fields of science are very close to each other and I have been a Pre-Med student at the California State University of Hayward and my major was biology at that time; also all of my research works are almost biological or molecular, I have the ability to teach Basic-Sciences and Neurosciences as well, especially cell biology and physiology.

## **TEACHING EXPERIENCES**

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### **To Specialist Fellowships:**

- 2013-2014: Pharmacology of Analgesic Drugs, Anesthesiology specialist pain fellowship

### **To Ph.D. Candidates:**

- 2022-till now: Consultant professor of Pharmacology Residents , Ph.D. in Pharmacology
- 2021-till now: Clinical Pharmacology, Drug Therapy in Pregnant and Nursing Women, Ph.D. in Pharmacology

## Khojasteh Joharchi; MD., PhD. Of Pharmacology

- 2021-till now: Pediatric Clinical Pharmacology and Therapeutics, Ph.D. in Pharmacology
- 2013-2015: Drug interactions with biomarkers, Ph.D. in Biochemistry
- 2013-till now: Pharmacology board exam question designer & Examiner, Ph.D. in Pharmacology
- 2013-till now: Pharmacology of Endocrine System, Ph.D. in Pharmacology
- 2012-till now: Pharmacology of Cancer Chemotherapy, Ph.D. in Biochemistry
- 2010-till now: Pharmacology of Cancer Chemotherapy, Ph.D. in Physiotherapy
- 2010-2021: Pharmacology of Topical Drugs, Ph.D. in Physiotherapy
- 2010-2021: Pharmacology of Emergency Drugs, Ph.D. in Physiotherapy
- 2009-till now: Pharmacology of Cancer Chemotherapy, Ph.D. in Pharmacology
- 2009-till now: Pharmacodynamics, Ph.D. of Pharmacology
- 2009-till now: Pharmacology of cardiovascular system, Ph.D. in Pharmacology
- 2009-till now: Pharmacology of GI tract, Ph.D. in Pharmacology
- 2009-till now: Advanced Pharmacology of CNS Drugs, Ph.D. in Pharmacology
- 2009-till now: Research Methodology I & II, Ph.D. in Pharmacology
- 2009-till now: Research issues, Ph.D. in Pharmacology
- 2009-till now: Scientific Seminars, Ph.D. in Pharmacology
- 2006-2008: Endocrine Physiopathology, Ph.D. in Pharmacology

### **Graduate Students:**

- 2020-till now: Basic and Clinical Pharmacology, MS. in Nutrition
- 2020-till now: Basic and Clinical Pharmacology, MS. In Physiology
- 2011-2012: Addiction Pharmacology, Master of Public Health
- 2010 till now: Geriatric Pharmacology, MS. in Geriatric Nursing
- 2008 till now: Pharmacology of Neonatal Intensive Care Nursing, MS. in NICU Nursing
- 2008-2010: Pharmacology of Emergency and ICU drugs, MS. in ICU Nursing
- 2005-till now: Guide to good prescribing and Rational Drug Use, Medical Interns

### **Undergraduate Students:**

- 2020-till now: Electronic Prescribing, Medical Interns
- 2020-till now: Basic and Clinical Pharmacology: Chemotherapy, medical students
- 2020-till now: Basic and Clinical Pharmacology: General Anesthetics, Local Anesthetics, Muscle Relaxants, medical students
- 2012-2020: Pharmacology of ENT Drugs, medical International stagers
- 2012- till now: Consultant professor of medical students, medical students, stagers, Interns
- 2011-2020: Special Aspects of Perinatal & Pediatric Pharmacology, medical International stagers
- 2011-2020: Pharmacology of drugs used in Surgery, medical International stagers
- 2011-2020: Pharmacology of drugs used in Dermatology, medical International stagers

## Khojasteh Joharchi; MD., PhD. Of Pharmacology

- 2005- till now: Approach to Good & Rational Prescribing, Medical Interns
- 2005- till now: Approach to Good & Rational Prescribing, Medical International Interns
- 2005-till now: Pharmacology of ENT Drugs, medical stagers
- 2005-till now: Special Aspects of Perinatal & Pediatric Pharmacology, medical stagers
- 2005-2015: Pharmacology of drugs used in Surgery, medical stagers
- 2005-2012: Pharmacology of drugs used in Dermatology, medical stagers
- 2005-2018: Pharmacology of Premedication, medical students
- 2006-2018: Introduction to the Pharmacology of CNS Drugs, medical students
- 2005-2018: Applied Pharmacology for Dentistry, Dental students
- 2005-2018: Applied Pharmacology for Dentistry, International Dental students
- 2005-2014: Basic and Clinical Pharmacology, BS. of Nutrition
- 2005-2007: Applied Pharmacology for Dentistry, Dental nursing associates
- 2005-2007: General Pharmacology and pharmacology of Premeditates and General Anesthetics, Operating room technician associates

## PROFESSIONAL INTEREST

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- Making a link from bench to bed and from traditional medicine to modern medicine has always been one of my biggest goals. I have a particular interest in clinical pharmacology and translational medicine.
- I am involved in clinical trials, and most of my works have focused on Nitric Oxide, iNOS, CATs (Cationic Amino Acid Transporters) and their involvements in many biological and molecular pathways, such as Neuropathic Pain, Diabetes and Morphine Tolerance.
- Moreover, Endocrinology, Molecular Biology, Cancer research, and Oncology are also my favorites, and recently, I am working on Malignant Ascites.
- I have been a member of the neuroscience research center of SBUMS and have some experience in neuroscience researches.
- Have some experiences in Evidence-Based Medicine.
- Bridging Traditional to Modern Medicine and have a distinct attention on Natural and Herbal medications - proved evidently useful in new medical approaches - and recently I have invented a new drug (ANNAS) out of a traditional Iranian remedy which has been patented domestically and has unique effects on treatment of inflammation and healing the wounds without any scars.
- Thus my work also focuses on Inflammation, wound healing, and Laser Therapy.

## ONGOING RESEARCH ACTIVITIES

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- 1- Studying Diabetes and morphine tolerance and the role of Nitric Oxide in this Process; Perusing the transcription of iNOS and cationic amino acid transporters (CATs) on selected tissues of intact, diabetic, and diabetic morphine-tolerated male and female rats. (A joint project between our Neuroscience research center and Kyorin University, Japan, 2005 till now).
- 2- Working on a natural Iranian traditional medicine (AnbarNesa) and making a new product by dissolving it in propylene glycol and named it: ANNAS, which has been patented domestically and studied the effects of this invention and the involved mechanisms of its actions (2005-now)

## PREVIOUS RESEARCH ACTIVITIES

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- 1- Studying the Duloxetine effects on the treatment of diabetic neuropathic pain and the mechanism of its probable effects in type-2 diabetic patients: A double-blinded clinical trial; (2019-2021) .
- 2- Perusing Healthy and useful nutrition in the prevention and treatment of breast cancer and the role of antioxidants in metastatic breast cancer; (2019-2021) .
- 3- Investigating the Frequency of using various drugs for suicide in patients referred to Loghman Hakim Hospital in Tehran from 2018 to 2019; (2019-2021).
- 4- Using first-generation Anticholinergics in urinary incontinence and comparing it to the second-generation Anticholinergics, a retrospective study (2019-2021).
- 5- Studying the Methods for investigating the effect of ANNAS (AnbarNesa Solution) on Interleukin17 involved in psoriasis lesions (2018-2020).
- 6- Examining the Pregabalin effects on nitric oxide (NO) and inducible nitric oxide synthase (iNOS) plasma concentration in type-2 diabetic patients and the role of these mediators in neuropathic pain; (2018-2020)
- 7- Inspecting the Probable effect of ANNAS (AnbarNesa Solution) on Interleukin-23 involved in psoriatic lesions; (2018-2020)
- 8- Answering this question: Does ANNAS (AnbarNesa Solution) have any effect on  $TNF\alpha$ ?; (2018-2020)
- 9- Finding the effect of Minocycline in reducing the cytokines (IL-6, IL-8 & VEGF) Levels in Malignant Ascites(2017-2022)
- 10- Working on the mechanism of ANNAS (AnbarNesa Solution) on wound healing: Is that via an effect on VEGF?; (2017-2018)
- 11- Comparing Duloxetine and Pregabalin effects on plasma concentrations of nitric oxide (NO) and inducible nitric oxide synthase (iNOS) in type 2 diabetic patients and the role of these mediators in neuropathic pain( 2016-2019)
- 12- Examining the photoactivated disinfectant Therapy for Staphylococcus aureus Infection in a rat Skin Abrasion Model (2016-2018)
- 13- Observing the effect of Betahistine, as an  $H_3$  receptor antagonist, on blood glucose and insulin level after glucose injection; (2016-2017)
- 14- Studying the effect of Nigella Sativa on Maturation and Epigenetic Markers of Oocytes in oxidative stress in PCOS Mouse Model;(2015-2019)
- 15- Comparing the expression of iNOS and Cationic Amino Acid Transporters, CAT-1 and CAT-2, in Nondiabetic and Diabetic Morphine-Tolerated Male Rats (2015-2017)
- 16- Checking the assessment of ANNAS anti-inflammatory effect on the expression of IL-8 via LPS-induced inflammatory intestinal epithelial HT-29 cell line; (2015-2017)
- 17- Studying the gene expression of cationic amino acid transporters (CAT-1 and CAT-2) and iNOS in liver, kidney, brain, and spinal cord tissues of diabetic and morphine-tolerated female rats (2015-2017).
- 18- Investigating the Apoptotic effect of ANNAS on spinal cord Neurons (2015-2016)
- 19- Documenting the native medicinal plants of Mazandaran (The northern state of Iran) and their therapeutic effects. (2014-2015)
- 20- Studying the Rational Drug Use in public health centers of SBUMS. (2013-2014)

- 21- Examining the TNF- $\alpha$  serum level and comparing it in male and female Diabetic and non-diabetic morphine-tolerated rats. (2012-2013)
- 22- Making Sucralfate mouthwash and studying the effect of this product on radiotherapy & chemotherapy-induced mucositis. (2011-2012).
- 23- Investigating the effects of laser therapy on treating third-degree burn lesions (2009-2011).
- 24- Checking the effects of ANNAS solution on wound healing in rats (2009-2011).
- 25- Perusing the cytotoxic effects of ANNAS on L929 fibroblasts cell line (2009-2011).
- 26- Comparing the antibacterial effects of ANNAS with 0.2% Chlorhexidine on staphylococcus variants (2009-2011)
- 27- Making a kind of Solder and using it in Laser therapy instead of the suture in the treatment of ruptured sciatic nerve (2007 -2009)
- 28- Sub-cloning of two genes (F23F1.6 and AAT-2) in C-elegance (My 6-month research training course in Kyorin University, Japan, 2004-2005).
- 29- Setting up a new lab for the measurement of Nitric Oxide in our department. (2002-2004)
- 30- Working on Brain Slice electrophysiological Set-up and Isolated Tissue set-ups (1998-2000)

## PUBLICATIONS

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### Under Publication:

- 1- Does Pregabalin change serum levels of iNOS and NO in diabetic patients with neuropathic pain? A quasi-experimental study (Journal of Diabetes & Metabolic Disorders);
- 2- Does the Tumor Necrosis Factor- $\alpha$  level change in Male and Female rats in a Diabetic state? (Journal of Diabetes & Metabolic Disorders; Under review);
- 3- Tumor Necrosis Factor- $\alpha$  serum level and Morphine tolerance in Male and Female rats? (Iranian Journal of Basic Medical Sciences; submitted)
- 4- The effect of AnbarNesa solution (ANNAS) on gene expression of IL-8 in intestinal epithelial cell line HT-29; (Traditional Medicine; under review);
- 5- Effects of Low-Level Laser Therapy on the Healing of Third-degree Skin Burns in Rats: a Comparison between Two Wavelengths (Red and Infrared) and a Control group; (Lasers in Surgery & Medicine; submitted)
- 6- Does the TNF $\alpha$  serum level differ in male and female diabetic and non-diabetic morphine tolerated rats? (Iranian Journal of Basic Medical Sciences; submitted)
- 7- The Adamantinoma of femur: a case report; (Middle East Journal of Cancer, Submitted)
- 8- Effects of topical Sucralfate on radiotherapy and chemotherapy-induced oral mucositis; (under Submission)
- 9- Medicinal plants of Mazandaran and their therapeutic applications;(Book; under review by Shahid Beheshti University Press)
- 10- Applied Pharmacology for Dentistry; (Book; under review by SBUMS Press)
- 11- Clinical ENT Pharmacology;(Book; under review by Shahid Beheshti University Press)
- 12- Clinical Pediatrics Pharmacology;(Book; under review by Shahid Beheshti University Press)
- 13- Clinical Nutrition Pharmacology (Book; under review by SBUMS Press)

**Published:**

- 1- Which pharmaceutical agent is most commonly used for suicide? An epidemiological investigation in Loghman Hakim Hospital, 2018 – 2019; (Physiology and Pharmacology Volume 27, March 2023, 92-99); <http://dx.doi.org/10.52547/phypha.27.1.13>
- 2- Evaluation of antimicrobial photodynamic therapy on wounds infected by Staphylococcus aureus in animal models (Photodiagnosis and Photodynamic Therapy, Volume 33, March 2021, 102092) <https://www.sciencedirect.com/science/article/abs/pii/S1572100020304464?via%3Dihub>
- 3- Improvement in the epigenetic modification and development competence in PCOS mice oocytes by hydro-alcoholic extract of Nigella sativa during in-vitro maturation: An experimental study (International Journal of Reproductive BioMedicine, , Vol. 18, No. 9, July 2020, 733-746) <https://doi.org/10.18502/ijrm.v13i9.7668>
- 4- Therapeutic potential of bone marrow-derived mesenchymal stem cells and imatinib in a rat model of liver fibrosis (European Journal of Pharmacology, Volume 882, 5 Sep 2020, 173263) <https://www.sciencedirect.com/science/article/abs/pii/S0014299920303551#!>
- 5- Wound Healing and the Effect of ANNAS; a New Product of AnbarNesa (Jundishapur J Nat Pharm Prod, Jan 2020) doi: 10.5812/jjnpp.66668. <https://sites.kowsarpub.com/jjnpp/articles/66668.html>
- 6- Efficacy and safety of duloxetine and Pregabalin in Iranian patients with diabetic peripheral neuropathic pain: a double-blind, randomized clinical trial (Journal of Diabetes & Metabolic Disorders, Sep 2019, pages 1-8, ) <https://link.springer.com/content/pdf/10.1007%2Fs40200-019-00427-w.pdf>
- 7- Cover Image; (Journal of Molecular Reproduction & Development, Volume 86, Issue 8, August 2019, Pages i, 923-1080) Wiley Online Library: <https://onlinelibrary.wiley.com/toc/10982795/2019/86/8>
- 8- Thymoquinone reduces intracytoplasmic oxidative stress and improves epigenetic modification in PCOS mice oocytes, during in-vitro maturation? (Molecular Reproduction and Development; June 2019); <https://onlinelibrary.wiley.com/doi/abs/10.1002/mrd.23222>
- 9- Transected sciatic nerve repair by diode laser protein soldering (Journal of Photochemistry and Photobiology B: Biology Volume 173, August 2017, Pages 441-447) <https://www.sciencedirect.com/science/article/pii/S1011134417302312>
- 10- Does the new product of AnbarNesa have its traditional pharmacological effect on wound healing? (IJBPAS, June 2017, 6(6): 1086-1100) <http://ijbpas.com/pdf/2017/June/1496469607MS%20IJBPAS%202017%204136.pdf>
- 11- How Nitric Oxide increases in diabetic morphine tolerated male rats; (Iranian Journal of Pharmaceutical Research, Spring 2017, 16 (2): 630-639) [http://ijpr.sbmu.ac.ir/article\\_2056\\_ac2ea0adb7d66178e55591a931d316e4.pdf](http://ijpr.sbmu.ac.ir/article_2056_ac2ea0adb7d66178e55591a931d316e4.pdf)
- 12- Intracytoplasmic Oxidative Stress Reverses Epigenetic Modifications in Polycystic Ovary Syndrome; (Reproduction, Fertility, and Development - April 2017) <https://doi.org/10.1071/RD16428>
- 13- Evaluation of therapeutic laser influences on the healing of third-degree burns in rats according to different wavelengths (Journal of Cosmetic and Laser Therapy, Feb. 2017, 19 (4), 232-236) <https://www.tandfonline.com/doi/abs/10.1080/14764172.2017.1288255>
- 14- The study of patients' opinions and their expectations about physicians' prescriptions in health centers of Shahid Beheshti University of Medical Sciences in 1393; (Research on Medicine, Vol.39; No.4; 2016, P:201-207). [http://pejouhesh.sbmu.ac.ir/browse.php?a\\_id=1442&sid=1&slc\\_lang=en](http://pejouhesh.sbmu.ac.ir/browse.php?a_id=1442&sid=1&slc_lang=en)

- 15- Effect of Laser Photostimulation on the Healing of Third-Degree Burn wounds in Rats;(J Arch Mil Med., Aug. 2014), [http://jammonline.com/?page=article&article\\_id=22315](http://jammonline.com/?page=article&article_id=22315)
- 16- Evaluation of cytotoxic effects of AnbarNesa on fibroblast L929: Can it be used as a mouthwash? (ASL\_97\_13R12; Ancient Science of Life / Apr-Jun 2014 / Vol.33 / Issue 4). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4293746/>
- 17- Iranian traditional medicine: Comparison of the antibacterial effect of ANNAS 0.2% and chlorhexidine 0.2%; (African Journal of Microbiology Research Vol. 6(15), pp. 3600-3603, 2012); <http://www.academicjournals.org/journal/AJMR/article-abstract/E1280E429499>
- 18- The role of nitric oxide in diabetes-induced changes of morphine tolerance in rats ;( European Journal of Pharmacology, EJP (IF 2.749) 570 (2007) 66–71). <http://www.sciencedirect.com/science/article/pii/S0014299907006280%E2%80%8E>
- 19- Diabetes Increases the Analgesia and Tolerance To Morphine in Acute Pain, but Not in Chronic Pain, while Attenuates the Dependency in Rats; (International J. of Endocrinology and Metabolism: IJEM, 2006; 4: 136-146). [http://www.sid.ir/en/VEWSSID/J\\_pdf/101120061104.pdf](http://www.sid.ir/en/VEWSSID/J_pdf/101120061104.pdf)
- 20- Mechanisms of the effects of experimental diabetes on the development of tolerance to morphine antinociception in the rat;(IJPR, Iranian Journal of Pharmaceutical Research, Article 21, Volume 3, Supplement 1, Autumn 2004, Page 12-12. [http://ijpr.sbm.ac.ir/article\\_87\\_3.html](http://ijpr.sbm.ac.ir/article_87_3.html)
- 21- Subsensitivity to Opioids Is Receptor-Specific in Isolated Guinea Pig Ileum and Mouse Vas Deferens after Obstructive Cholestasis, (J of Pharm. & Experi. Thera. JPET (Vol. 293, Issue 3, 1 Jun 2000, P: 946–951). <http://jpet.aspetjournals.org/content/jpet/293/3/946.full.pdf>
- 22- The Ph.D. of Mikimouse, (Newsletter of the Iranian Association of Physiology and Pharmacology, Winter 2000; Vol. 20, P: 12-14).
- 23- Mind beyond the the body, (Newsletter of the Iranian Association of Physiology and Pharmacology, Fall 2000; Vol. 20, P: 14-16).

## CONFERENCE PAPERS AND PRESENTATIONS

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- 1- Black Cumin Seeds From Traditional to Modern Medicine (Accepted for Oral Presentation; 8<sup>th</sup> Iranian Herbal Medicine Congress, 24-25, April 2019, Tehran, Iran)
- 2- Can we use the new product of AnbarNesa for the treatment of GI Cancers? (Accepted for Oral Presentation; 14<sup>th</sup> International Breast Cancer & 4<sup>th</sup> International GI Cancer Congress, 20-22, Feb. 2019, Tehran, Iran)
- 3- Elsevier Author Workshop-Introduction to Scholarly Publishing (Managing; The Elsevier workshop in Shahid Beheshti University of Medical Sciences, 4, Dec. 2018, Tehran, Iran)
- 4- Effect of Betahistine, as an H3 receptor antagonist, on blood glucose and insulin level after glucose injection (Poster Presentation; The 12<sup>th</sup> International Congress of Endocrine Disorders, 14-16 Nov. 2018, Tehran, Iran)
- 5- Pregabalin and the treatment of diabetic peripheral neuropathic pain (Poster Presentation; The 12<sup>th</sup> International Congress of Endocrine Disorders, 14-16 Nov. 2018, Tehran, Iran)
- 6- Can we use the new product of AnbarNesa for the treatment of inflammatory bowel Diseases? (Accepted speech; 7<sup>th</sup> National Congress on Medicinal Plants, 12-14 May 2018, Shiraz, Iran)
- 7- High incidence of Duloxetine adverse effects in Iranian Type-2 diabetic patients with peripheral neuropathic pain; (speech; 23<sup>rd</sup> International Iranian Congress of Physiology and Pharmacology, 15-18 February 2018, Chabahar, Iran)



- 8- Pharmacotherapy in neuropathic pain (Invited speaker, 13<sup>th</sup> Congress of Iranian Pain Society, IASP chapter, 2017, Tehran, Iran)
- 9- Pregabalin and Duloxetine in the management of diabetic peripheral neuropathic pain in Iranian Patients (oral poster, 13<sup>th</sup> Congress of Iranian Pain Society, IASP chapter, 2017, Tehran)
- 10- The TNF- $\alpha$  plasma level in male and female diabetic and non-diabetic morphine-tolerated rats (Poster, 22<sup>nd</sup> Iranian congress of Physiology & Pharmacology (ICPP),2015, Kashan, Iran)
- 11- The study of behaviors and the expectations of patients about prescriptions prescribed by physicians in health centers of Shahid Beheshti University of Medical Sciences in 2014 (Poster presentation, The 3<sup>rd</sup> national Seminar on the role of Medical Basic Sciences in Health Promotion, Feb./18/2015, Tehran, Iran).
- 12- Effects of ANNAS solution on the incisional wound healing in rats, (oral poster presentation, 3<sup>rd</sup> National Congress on prevention & Treatment by Complementary medicine, 2014, Isfahan, Iran).
- 13- Does the Expression of Cationic Amino Acid Transporters (CATs) differ in diabetic and non-diabetic states? ( Oral Presentation, 20<sup>th</sup> ICPP, 2011, Hamadan, Iran).
- 14- A rapid, simple method for nitrite and nitrate measurement in rat urine (Poster Presentation; 5<sup>th</sup> International NO Conference, 2008, Bregenz, Austria).
- 15- Mechanisms of Effects of Experimental Diabetes on Development of Morphine Tolerance in the rat; (Poster Presentation 18<sup>th</sup>ICPP, Aug. 2007, Mashhad, Iran).
- 16- Role of nitric oxide in diabetes-induced changes of morphine; (Poster Presentation; 11<sup>th</sup>world congress on the study of pain: IASP, 2005, Sydney, Australia,).
- 17- Effects of Alloxan diabetes on antinociception and morphine tolerance and dependency in rats. (2<sup>nd</sup>FAONS symposium and the 3<sup>rd</sup>Iranian Neuroscience Congress, 2004, Tehran, Iran).
- 18- Effect of Experimental Diabetes on degree and development of tolerance to morphine in rats; (10<sup>th</sup> world congress on pain, 2002, San Diego, California, USA).

## ACADEMIC AWARDS

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- 1- The best teacher award in the tutorial Festival of all schools of Shahid Beheshti University of Medical Sciences, 2016
- 2- The best teacher award in the tutorial Festival of Medical School, SBUMS, 2011
- 3- Ministry of Health Grant for a 6-month research training course in Kyorin University Japan, 2004
- 4- SBUMS four years post-graduate grant for the Ph.D. study, 2000-2004

## GRANTS

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- 1- 125,000,000 Rials, granted by a deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: “The Study of Duloxetine effect on the treatment of diabetic neuropathic pain and the mechanism of its probable effect in type-2 diabetic patients: A double-blinded clinical trial”, 2019.
- 2- 125,000,000 Rials, granted by a deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: “The effect of ANNAS (AnbarNesa Solution) on Interleukin-17 involved in psoriatic lesions”, 2019.

- 3- 125,000,000 Rials, granted by a deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: "The Evaluation of minocycline effect in patients with resistant malignant ascites," 2018.
- 4- 200,000,000 Rials, granted by a deputy in research affairs of Medical school, Shahid Beheshti University of Medical Sciences, for research project entitled: "Study of Pregabalin effect on nitric oxide (NO) and inducible nitric oxide synthase (iNOS) plasma concentration in type 2 diabetic patients and the role of these mediators in neuropathic pain," 2017
- 5- 125,000,000 Rials, granted by a deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: "Examination of the effect of Thymoquinone on the maturation of oocytes in a mouse model of polycystic ovary syndrome," 2016
- 6- 125,000,000 Rials, granted by a deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: "Survey of global DNA methylation, H3K9 and H4K12 acetylation in PCOS Mouse Model Oocytes", 2016
- 7- 120,000,000 Rials, granted by a deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: "Comparison of transcription of cationic amino acid transporters (CAT-1, CAT-2) in female on selected tissues of intact and diabetic rats with morphine tolerance," 2015
- 8- 140,000,000 Rials, granted by the deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: "Study of the level of transcription of iNOS and Cationic Amino Acid Transporters (CAT<sub>1</sub>, CAT<sub>2</sub>) in male on selected tissues of intact and diabetic morphine tolerated rats," 2014
- 9- 125,000,000 Rials, granted by the deputy in research affairs of the Medical school, Shahid Beheshti University of Medical Sciences, for a research project entitled: "Effects of ANNAS lotion on the incisional wound healing in rats," 2013
- 10- 50,000,000 Rials, granted by Neuroscience Research center, Shahid Beheshti University of Medical Sciences, for a research project entitled: "Transcription of iNOS and cationic amino acid transporters (CATs) on selected tissues of intact and diabetic rats," 2012
- 11- 50,000,000 Rials, granted by Neuroscience Research center, Shahid Beheshti University of Medical Sciences, for a research project entitled: "Transcription of iNOS and Cationic Amino Acid Transporters (CATs) on selected tissues of intact and morphine tolerated rats.", 2012

## PERSONAL ACADEMIC MEMBERSHIPS

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- Editorial board member of " Jundishapur Journal of Natural Pharmaceutical Products (JJNPP)"
- Editorial board member of " Clinical Trials in Degenerative Diseases (CTDD)"
- Editorial board member of "Iranian Journal of Basic Medical Sciences (IJBMS)," 2015-now
- Editorial board member of " Physiology and Pharmacology Journal (PPJ)," 2014-now
- Editorial board member of " Iranian Journal of Pharmaceutical Research (IJPR)," 2006-now
- Editorial board member of " Iranian Journal of Physiology and Pharmacology (IJPP)," 2004-now
- Member of Iranian Society of Physiology and Pharmacology, 1996-now
- Editorial board member, the Executive Secretary and the Academic Secretary of "Iranian Congresses of Physiology and Pharmacology," handling more than ten congresses, 2004-now

## Khojasteh Joharchi; MD., PhD. Of Pharmacology

- Editorial board member and Member of Scientific Committee of the 23<sup>rd</sup> Iranian and 2<sup>nd</sup> International Congress of Physiology and Pharmacology and the chairperson and manager of its Diabetes symposium, Chabahar, Iran 2018.
- Member of Iranian Pain society, IASP Chapter (Managing and Holding more than three Congresses, had oral presentations and was an invited speaker.), 1998-now
- Editorial board member and Member of Scientific Committee of the 22<sup>nd</sup> Iranian and 1<sup>st</sup> International Congress of Physiology and Pharmacology and the chairperson and manager of its cellular and molecular biology symposium, Kashan, Iran, 2015.
- Chairman of Continued Medical Education (CME) of Iranian society of Physiology and Pharmacology (Managing and Holding more than ten Congresses), 1997-2014.
- The Editorial board member and Member of Scientific Committee of the 20<sup>th</sup> Iranian Congress of Physiology and Pharmacology and the chairperson and manager of its cellular and molecular biology symposium, Hamadan, Iran, 2011.
- The Member of Central Committee of Iranian Cell Death Society (a branch of International cell death Society), 2007-now.
- The Chairperson and manager of Executive Committee and Member of Scientific Committee of the 1<sup>st</sup> and 2<sup>nd</sup> International Symposium of Molecular Technology, Tehran, Iran, 2005, 2007.

## PATENT

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- **Title:** ANNAS (AnbarNesa Solution) for wound healings and treatment of inflammatory lesions
- **Patent Number:** (#86282: C10;A6IP 17/02,), July 2015
- **URL:** <http://iripo.ssaa.ir/Default.aspx?tabid=3974> (It has been patented domestically)

## EDUCATION

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- |   |                   |
|---|-------------------|
| <b>Ph.D. student of pharmacology</b>  | <b>2000-2004</b>  |
| <ul style="list-style-type: none"><li>▪ Department of Pharmacology, Faculty of Medicine, Shahid Beheshti University of Medical Sciences (SBUMS), Tehran, Iran.</li><li>▪ Dissertation: <i>The mechanism of the effects of experimental diabetes on Morphine tolerance in male rats</i> (2004)</li></ul> |                   |
| <b>Medical student</b>  | <b>1987-1993</b>  |
| <ul style="list-style-type: none"><li>▪ Faculty of Medicine, Shahid Beheshti University of Medical Sciences (SBUMS), Tehran, Iran</li><li>▪ Dissertation: <i>The Adamantinoma of Femur</i> (1993)</li></ul>   |                   |
| <b>Pre-med Student</b>  | <b>1976-1978</b>  |
| <ul style="list-style-type: none"><li>▪ California State University of Hayward, U.S.A.</li></ul>  |                   |
| <b>High School</b>  | <b>1975 -1976</b> |
| <ul style="list-style-type: none"><li>▪ Albany High School, California, U.S.A.</li></ul>  |                   |

## SKILLS:

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- Experienced Associate Professor of Pharmacology with a demonstrated history of working in the higher education industry.
- Accomplished in Medicine, Basic and Clinical Pharmacology, Managing Basic and Clinical Researches, focused on Endocrinology, Diabetes, Neuropathic Pain, Neurosciences, Molecular Biology, Oncology, Wound Healing and Traditional Medicine
- Teaching, Lecturing, Public Speaking.
- Microsoft Office Expertise (Word, Excel, PowerPoint), Graph Pad (Prism), EndNote.
- Residency Program: Diabetes, Nitric Oxide, Morphine Tolerance.

## HOBBIES & INTERESTS:

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- Spending Time with my Family
- Swimming
- Biking

**Links:** <https://www.linkedin.com/in/khojasteh-joharchi-7558a355/>  
[https://www.researchgate.net/profile/Khojasteh\\_Joharchi](https://www.researchgate.net/profile/Khojasteh_Joharchi)