



Curriculum Vitae

Dr. Seyed Ali Ziai

Academic Rank: Professor

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Dr. Seyed Ali Ziai was born in 1970. He obtained his high school diploma in experimental sciences in 1988 from Shahid Kazemi High School, District 4, Tehran. He entered Tehran University of Medical Sciences in the same year to study pharmacy and received his Doctor of Pharmacy (PharmD) in 1994. He ranked first in the PhD entrance exam in Pharmacology conducted by the Ministry of Health in 1994 and graduated in 2000 from Iran University of Medical Sciences.

From 2000 to 2007, he served as a founding member and faculty at the Medicinal Plants Research Center, where he held positions including Deputy of Education and Research (2000–2003), Head of the Pharmacology Department (2003–2006), and Director of the Research Center (2004–2005). He joined the Faculty of Medicine at Shahid Beheshti University of Medical Sciences in 2007 as an Assistant Professor in the Department of Pharmacology, promoted to Associate Professor in 2012, and to full Professor in 2019. His executive roles at Shahid Beheshti University include Secretary of the 19th Congress of Physiology and Pharmacology (2009), Director of Student Affairs (2010–2012), Research Deputy of the Faculty (2014–present), Head of the Pharmacology Department (2018–2022), Secretary of the Ethics Committee (2015–present), and member of the University Research Council (2014–present). He is also a member of the Regional Board for Evaluation in Pharmacology and General Medicine (since 2019), and a board member of the Iranian Society of Physiology and Pharmacology.

Dr. Ziai has established several key initiatives, including the central laboratory of the Faculty of Medicine in 2015 and founded the Student Journal of Translational Medicine in 2017. He is editor-in-chief of various scientific journals and a member of editorial boards. His research focuses on the renin-angiotensin system and natural products. Examples include the effects of losartan on Parkinson's disease models, clinical trials of losartan for keloids, screening 135 traditional plants for antihypertensive and diuretic effects, and studies on natural compounds like auraptene and umbelliprenin for anticancer and immunomodulatory properties. He has also applied machine learning and bioinformatics to drug discovery.

He has participated in more than 60 research projects, published more than 90 scientific papers, authored and translated 10 books, and supervised about 60 theses across PharmD,

MD, MSc, and PhD programs.

Education:

PhD in Pharmacology from Department of Pharmacology, School of Medicine, Iran University of Medical Sciences, Tehran (1994–2000). Comparative study of nephro- and pulmonary-toxic effects of gentamicin and bleomycin on ACE activity in rats
PharmD from School of Pharmacy, Tehran University of Medical Sciences (1989–1994). Effects of aluminum fluoride on isolated guinea pig atria

Honors and Achievements:

- First rank in the PhD entrance exam in Pharmacology, Ministry of Health (1994)
- Founding member of the Medicinal Plants Research Center (2001)

Specialized Contributions:

- Participation in establishing the oxytocin ampoule bioassay at Pars Minoo Factory (1994)
- HPLC installation and utilization in Iran university (1996)
- Development of ACE enzyme activity measurement via HPLC (1996)
- Design and construction of microplate incubator/shaker for enzyme assays (1998)
- Setup and equipment of the Pharmacology Laboratory at the Medicinal Plants Research Institute (2000–2004)
- Establishment and equipping of the Central Laboratory, School of Medicine, Shahid Beheshti University (2015)
- Founding of the School of Medicine Students' Journal, now Student Research Journal of Translational Medicine (2017)

Major Administrative Roles:

- Deputy of Education and Research, Medicinal Plants Research Institute (2000–2003)
- Head of Pharmacology Department, Medicinal Plants Research Institute (2003–2006)
- Director of the Research Institute (2004–2005)
- Director of Student Affairs, Shahid Beheshti University of Medical Sciences (2010–2012)
- Research Deputy, School of Medicine (2014–present)
- Head of Pharmacology Department, Shahid Beheshti (2018–2022)
- Head of Pharmacology Department, Virtual University of Medical Sciences (2020–2022)
- Head of Student Research Committee, School of Medicine (2014–present)

Professional Memberships:

Includes memberships in national medical and pharmacological societies, editorial boards, ethics and research committees, scientific councils, interdisciplinary committees, and executive congress committees.

Scientific and Practical Skills:

Expertise in:

- HPLC, HPTLC

- Enzyme activity assays (ACE)
- Protein purification, electrophoresis, bioinformatics
- Research methodology, GMP, SPSS, GraphPad, Python, Machine learning
- Research ethics

Teaching Experience:

Extensive teaching across undergraduate, graduate, and PhD levels in nursing, midwifery, pharmacology, nanomedicine, physiology, epidemiology, and clinical pharmacokinetics and pharmacogenomics.

Professional Experience:

- Pharmacist (1994–1996)
- Faculty member at various institutions since 2000
- Scientific roles at Novartis and Roche diagnostics representatives
- Editor-in-chief of Nedaye Mahya Journal (2007–2016)
- Executive Secretary of the 19th Physiology and Pharmacology Congress (2009)

Research Projects:

Led or collaborated on 66 research projects in areas such as ACE inhibition, herbal medicine, diabetes, cancer, Parkinson's disease, COVID-19, and drug delivery.

Publications:

Published over 100 scientific papers in national and international journals across topics including pharmacology, medicinal plants, enzymology, and COVID-19-related research.

Books:

Authored and translated 10 books on topics such as therapeutic drug monitoring, herbal medicine interactions, basic and clinical pharmacology, lab safety, and research terminology.

Academic Education

Degree	Field / Major	University / Department	Period	Thesis Title
PhD	Pharmacology	Department of Pharmacology, School of Medicine, Iran University of Medical Sciences, Tehran	Sept 1994 – June 2000	Comparison of the effects of two nephrotoxic and pneumotoxic drugs (Gentamicin and Bleomycin) on ACE activity in rats
PharmD (Doctor of Pharmacy)	Pharmacy	School of Pharmacy, Tehran University of Medical Sciences	Jan 1989 – June 1994	Effects of aluminum fluoride on isolated guinea pig atria

Honors and Achievements

Title	Awarding Body / Source	Year
Ranked 1st in the PhD Pharmacology National Entrance Examination	Ministry of Health, Treatment, and Medical Education	1994
Founding Member of the Medicinal Plants Research Center	Ministry of Health, Treatment, and Medical Education	2001

Key Specialized Services

Title / Achievement	Location	Year
Collaboration in setting up the oxytocin ampoule bioassay	Pars Minoo Pharmaceutical Factory / Iran University of Medical Sciences	1994
Launching and setting up the HPLC system	Iran University of Medical Sciences	1996

Establishing the HPLC method for measuring ACE enzyme activity	Iran University of Medical Sciences	1996
Designing and manufacturing a microplate incubator and shaker for enzyme activity measurement	Iran University of Medical Sciences	1998
Launching and equipping the Pharmacology Laboratory	Medicinal Plants Research Institute	2000–2004
Launching and equipping the Central Laboratory of the School of Medicine	Shahid Beheshti University of Medical Sciences	2015
Launching the <i>School of Medicine Students' Journal</i> (Current title: <i>Student Research Journal of Translational Medicine</i>)	Shahid Beheshti University of Medical Sciences	2017

Key Administrative Responsibilities

Title	Location	Period
Vice Dean for Research and Education	Medicinal Plants Research Institute	Dec 2000 – July 2003
Head of the Pharmacology Department	Medicinal Plants Research Institute	July 2003 – Apr 2006
Acting Director of the Institute	Medicinal Plants Research Institute	Sept 2004 – Nov 2005
Director of Student Affairs	Shahid Beheshti University of Medical Sciences	Aug 2010 – Dec 2012
Vice Dean for Research	School of Medicine, Shahid Beheshti University of Medical Sciences	July 2014 – Present

Head of the Pharmacology Department	Shahid Beheshti University of Medical Sciences	Nov 2018 – Nov 2022
Head of the Pharmacology Department	Virtual University of Medical Sciences	Sept 2020 – Present
Director of the Student Research Committee	School of Medicine, Shahid Beheshti University of Medical Sciences	July 2014 – Present

Professional Memberships and Council Vetting

Committee / Association Role	Location / Institution	Period
Member	Iranian Medical Council	Since 1993
Member	Iranian Society of Physiology and Pharmacology	Since 1995
Member	Scientific Prescription Review Committee, Social Security Organization	1998 – 1999
Faculty Member	Medicinal Plants Research Institute	2000 – 2006
Board Member	Specialized Services Center, Medicinal Plants Research Institute	2001 – Apr 2006
Member	Scientific Committee of the Pharmacology Research Group, Medicinal Plants Research Institute	2001 – Apr 2006
Secretary	Scientific Committee, Medicinal Plants Research Institute	2001 – 2003
Member	Specialized Scientific Committee for Medical Group Projects, ACECR [Academic Center for Education, Culture and Research]	2001 – 2009

Editorial Board Member	<i>Journal of Medicinal Plants</i>	2001 – Present
Member	Specialized Committee for Medical Education, ACECR	2002 – 2003
Member	Scientific Council, Medicinal Plants Research Institute	2001 – Apr 2006
Member	Executive Committee of the 12th Iranian Congress of Physiology and Pharmacology	Iran University of Medical Sciences
Council Member	Iranian Research Network for Medicinal Plants	Ministry of Science, Research and Technology
Chairman	Scientific Council, Medicinal Plants Research Institute	Sept 2004 – Nov 2005
Council Member	Research Council of the School of Medicine, Shahid Beheshti University of Medical Sciences	May 2008 – 2010
Committee Member	Interdisciplinary Infectious Diseases Committee, Shahid Beheshti University of Medical Sciences	Sept 2008 – Present
Committee Member	Antibiotic Committee, Pediatric Infectious Diseases Research Center, SBMU	Dec 2009 – Present
Member & Secretary	Institutional Ethics Committee, School of Medicine, SBMU	Aug 2015 – Present
Executive Committee Member	University Research Council, Shahid Beheshti University of Medical Sciences	Aug 2015 – Present
Council Member	University Research Council, Shahid Beheshti University of Medical Sciences	Nov 2014 – Present
Editorial Board	<i>Novelty in Biomedicine</i> journal	2014 – Present

Member		
Board of Directors Member	Iranian Society of Physiology and Pharmacology	2023 – Present
Board Member	Board of Examiners, Evaluation, and Curriculum Planning for Pharmacology, Ministry of Health	2019 – Present
Council Member	Postgraduate Studies Council, School of Medicine, SBMU	May 2025 – Present
Strategic Council Member	Strategic Council of the School of Medicine, SBMU	May 2025 – Present
Executive Committee Member	Central University Biobank, Shahid Beheshti University of Medical Sciences	May 2025 – Present

Scientific and Practical Skills

Subject / Technical Skill	Location / Institution	Year
Application and operation of HPLC	Iran University of Medical Sciences	1995
Angiotensin-Converting Enzyme (ACE) activity assay	Iran University of Medical Sciences	1996
Research Methodology	Iran University of Medical Sciences	1997
Application and operation of HPTLC	Iran University of Medical Sciences	1998
Application and operation of Gas Chromatography (GC)	Iran University of Medical Sciences	1998

Protein Purification in Downstream Processing	Biotechnology Research Center, Pasteur Institute of Iran	2002
Good Manufacturing Practice (GMP) Principles	AITA Company	2002
Electrophoresis Techniques	Biotechnology Research Center, Pasteur Institute of Iran	2002
Thin-Layer Chromatography (TLC)	Mahzad Kala	2003
Preparative Chromatography	Knauer Co.	2003
Medical Research Ethics	Medicinal Plants Research Institute	2004
Isolation of rat hepatocytes and measurement of oxidative stress markers	Shahid Beheshti University of Medical Sciences	2009
SPSS and GraphPad software	Tehran University of Medical Sciences	2013
Scientific Publishing / Peer-reviewed Journals	Shahid Beheshti University of Medical Sciences	2014
Mountaineering	Mountaineering and Sport Climbing Federation of Iran	2016
Ethics in Research Publishing	Shahid Beheshti University of Medical Sciences	2016
Lesson Planning and Curriculum Development	Shahid Beheshti University of Medical Sciences	2017
Machine Learning: Theory and Applications in Medicine	Shahid Beheshti University of Medical Sciences	2023
Python Programming in Medicine	Shahid Beheshti University of Medical Sciences	2023

Teaching Experience

Course / Subject Covered	Level / Target Student Audience	Institutional Location	Period
Pharmacology	Nursing & Midwifery undergraduate students	School of Nursing and Midwifery, IUMS	1997 – 1999
Medicinal Plants	Academic/Professional trainees	Medicinal Plants Research Institute	2001 – 2006
Medical Pharmacology	Medical (MD) students	School of Medicine, Islamic Azad University (Shahrood)	2005 – 2007
Medical Pharmacology	General Medicine (MD) and Reform-Curriculum students	School of Medicine, SBMU	2007 – Present
Undergraduate Pharmacology	Operating Room, Anesthesia, and Nursing students	School of Nursing and Midwifery, SBMU	2008 – Present
Advanced Nanomedicine & Drug Delivery Systems	PhD candidates in Nanomedicine	School of Medicine, SBMU	2008 – 2011
Pharmacology	MSc students in Physiology	School of Medicine, SBMU	2009 – Present
Pharmacoepidemiology	PhD candidates in Epidemiology	School of Medicine, SBMU	2009
Advanced Pharmacology	PhD candidates in Pharmacology	School of Medicine, SBMU	2009 – Present
Pharmacokinetics	Graduate/Postgraduate students	School of Medicine, SBMU	2015 –

			Present
Pharmacogenomics	Graduate/Postgraduate students	School of Medicine, SBMU	2021 – Present

Work Experience

Field of Work / Role	Corporate or Institutional Location	Duration
Licensed Pharmacist	Isar Pharmacy / Bouali Pharmacy, Tehran	1994 – 1996
University Faculty Member	Medicinal Plants Research Institute & School of Medicine, SBMU	2000 – Present
Scientific Department Representative	Novartis Iran	1998 – 1999
Scientific Specialist	Danesh Afzar Company (Roche Diagnostics Representative)	2000 – 2003
Founder and Editor-in-Chief	<i>Nedaye Mahya</i> monthly healthcare magazine, Mahya Daru Co.	2007 – 2016
Executive Secretary	19th Iranian Congress of Physiology and Pharmacology, SBMU	2009

Research Projects and Grants

No.	Project Title	Role	Funding Body / Affiliate Institution	Year (Gregorian / SH)
1	Evaluation of the role of G-proteins in relation to guinea pig ileum contractions	Co-Investigator	Project No. 119, Iran University of Medical Sciences	1994–1996 (1373–1375)
2	Evaluation of the effect of Gentamicin on Angiotensin-Converting Enzyme (ACE) activity in humans and rats	Co-Investigator	Project No. 281, Iran University of Medical Sciences	1994–2000 (1373–1379)
3	Evaluation of biodiversity and resources of soil microorganisms as a national genetic asset and essential sources for drug, food, and cosmetic production	Co-Investigator	National Research Project	1999–2001 (1378–1380)
4	Evaluation of the effect of <i>Papaver spp.</i> alkaloids on Angiotensin-Converting Enzyme (ACE) activity	Principal Investigator	National Research Center for Medical Sciences	2001–2003 (1380–1382)
5	Bioequivalence study of 250 mg Primidone tablets manufactured by Sobhan Pharmaceuticals	Principal Investigator	Sobhan Pharmaceuticals	2001–2002 (1380–1381)
6	Purification methodology of Angiotensin-Converting Enzyme (ACE) from rabbit lung	Principal Investigator	Academic Center for Education, Culture and Research (ACECR)	2003–2004 (1382–1383)
7	Anti-diabetic effects of Psyllium in Type II diabetic patients: A randomized, double-blind, placebo-controlled study	Principal Investigator	Endocrinology and Metabolism Research Center, Tehran University of Medical	2003–2004 (1382–1383)

			Sciences	
8	Evaluation of the ACE inhibitory properties of plants used for hypertension treatment in traditional medicine	Principal Investigator	Academic Center for Education, Culture and Research (ACECR)	2003–2005 (1382–1384)
9	Formulation of dandelion (<i>Taraxacum officinale</i>) root capsules for cholelithiasis treatment and liver repair	Principal Investigator	Alumni Employment Cooperation Organization	2003–2004 (1382–1383)
10	Production of Artichoke (<i>Cynara scolymus</i>) herbal medicine for reducing blood cholesterol levels in humans	Principal Investigator	Alumni Employment Cooperation Organization	2003–2004 (1382–1383)
11	Evaluation of the antiviral effects of 50 Iranian medicinal plant extracts – Phase I	Principal Investigator	ACECR – Tehran University of Medical Sciences	2004–2005 (1383–1384)
12	Evaluation of the ACE inhibitory activity of the germinal subspecies of 20 medicinal plants used for hypertension in Iranian traditional medicine	Principal Investigator	Kerman University of Medical Sciences	2004–2006 (1383–1385)
13	Evaluation of the association between Angiotensin-Converting Enzyme (ACE) gene polymorphism and coronary artery disease	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2008–2009 (1387–1388)
14	Evaluation of aqueous extracts of Esfand (<i>Peganum harmala</i>) and Garlic (<i>Allium sativum</i>) for the treatment of Parkinson's disease	Principal Investigator	Neuroscience Research Center, SBMU	2008–2009 (1387–1388)
15	Evaluation of aqueous extracts of Esfand (<i>Peganum harmala</i>) and Garlic bulbs (<i>Allium sativum</i>) for the treatment of Parkinson's disease	Principal Investigator	Iran National Science Foundation (INSF)	2008–2009 (1387–1388)
16	Evaluation of the relationship between opium addiction and alterations in inflammatory cytokine levels	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2009–2011 (1388–1390)

17	Evaluation of the apoptotic induction effect of Umbelliprenin on Chronic Lymphocytic Leukemia (CLL) cell line	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2010–2013 (1389–1392)
18	Evaluation of corn silk (<i>Zea mays</i>) aqueous extract for the treatment of Parkinson's disease	Principal Investigator	Neuroscience Research Center, SBMU	2011–2012 (1390–1391)
19	A pilot study on the effect of topical Losartan for the treatment of keloids and hypertrophic skin scars in humans	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2013–2014 (1392–1393)
20	Evaluation of the cytotoxic effects of Fludarabine, Rituximab, and Cyclophosphamide on CLL cells in the presence of Umbelliprenin	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2014–2015 (1393–1394)
21	Evaluation of the effect of polymer dressings based on Chitosan and PVA containing Doxycycline, Allantoin, and Hyaluronic Acid on diabetic wounds in male rats	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2014–2016 (1393–1395)
22	Evaluation of the effect of Chitosan/Polyvinyl Alcohol (PVA) polymer dressings containing Doxycycline on diabetic wounds in male rats (Phase II)	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2016–2018 (1395–1397)
23	Evaluation of the effect of Umbelliprenin on angiogenesis and metastasis markers in Balb/c mice with breast cancer	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2015–2016 (1394–1395)
24	Evaluation of the anti-cancer effects of Umbelliprenin on colorectal cancer in a Balb/c mouse model	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2016–2017 (1395–1396)
25	Evaluation of the effect of Umbelliprenin on HIF-1 α pathway stimulation of angiogenesis induced by EGF and CoCl ₂ in SKBR-3 and MDA-MB-468 cell lines	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2017–2019 (1396–1398)
26	Evaluation of the effect of Umbelliprenin on HIF-1 α pathway	Co-	Shahid Beheshti University	2017–2019

	stimulation of angiogenesis induced by EGF and CoCl ₂ in T47D and MDA-MB-231 cell lines	Investigator	of Medical Sciences (SBMU)	(1396–1398)
27	<i>In vitro</i> evaluation of the effect of Pyrvinium Pamoate on the proliferation, invasion, and adhesion of endometriotic stromal cells and related molecular factors	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2017–2020 (1396–1399)
28	Evaluation of the effect of Fluoxetine on oocyte quality and <i>in vitro</i> embryonic development in a chronic stress mouse model	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2018–2020 (1397–1399)
29	Evaluation of the prevalence of primary ciliary dyskinesia in the respiratory mucosa of patients with non-cystic fibrosis bronchiectasis and known immunodeficiencies at Masih Daneshvari Hospital in 2018	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2018–2020 (1397–1399)
30	Prevalence and genotyping of Human Papillomavirus (HPV) in head and neck squamous cell carcinomas (HNSCC) among patients admitting to selected Tehran hospitals in 2018	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2018–2020 (1397–1399)
31	Determination of histamine concentration in hypertrophic scar and keloid tissues using ELISA	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2018–2020 (1397–1399)
32	Determination of Angiotensin levels in hypertrophic scar and keloid tissues using ELISA	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2018–2020 (1397–1399)
33	Evaluation of preoperative Vitamin D administration in open-heart surgery (CABG) on urinary biomarkers IL-18 and KIM-1 as indicators of postoperative acute kidney injury (AKI) in Vitamin D-deficient patients with normal baseline renal function at Shahid Modarres Hospital in 2018	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2018–2020 (1397–1399)

34	Evaluation of the effect of Auraptene on oocyte maturation, ovarian tissue inflammation, and fertilization success rate in a mouse model of Polycystic Ovary Syndrome (PCOS)	Co- Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2019–2020 (1398–1399)
35	Evaluation of the effect of albumin on human serum Angiotensin-Converting Enzyme (ACE) activity	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2019–2021 (1398–1400)
36	Formulation and characterization of Auraptene-loaded nanoliposomes	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2019–2021 (1398–1400)
37	Design and upgrading of the thesis and research project databases of the Faculty of Medicine	Co- Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2020 (1399–1399)
38	The role of ACE2 and its regulation in SARS and COVID-19	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
39	Assessment of the research output of the Faculty of Medicine board members at Shahid Beheshti University of Medical Sciences during the year 2019	Co- Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
40	Evaluation of the correlation between Angiotensin-Converting Enzyme (ACE) activity levels and disease severity in COVID-19 patients	Co- Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
41	Impact of SSRIs on ICU admission, hospitalization duration, intubation, and mortality rates in COVID-19 patients	Co- Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
42	Hospitalized COVID-19 patients: Association of anxiety disorder and insomnia with ICU admission, intubation, and mortality rates	Co- Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
43	Determination of minimum inhibitory concentration (MIC) and	Co-	Shahid Beheshti University	2020–2021

	bactericidal activity of a peptide isolated from Thyme against <i>Staphylococcus aureus</i> isolates with reduced susceptibility to vancomycin	Investigator	of Medical Sciences (SBMU)	(1399–1400)
44	Evaluation of the effect of Umbelliprenin on the polarization and function of macrophages co-cultured with the AGS cell line	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
45	Flow cytometric evaluation of CTLA-4 and PD-1 markers in peripheral blood T cells of COVID-19 patients	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
46	Evaluation of STING gene expression in COVID-19 patients admitting to Masih Daneshvari Hospital	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
47	Evaluation of the effect of Angiotensin-Converting Enzyme (ACE) polymorphism in individuals infected with COVID-19	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2021 (1399–1400)
48	<i>In vitro</i> evaluation of the effects of Auraptene on macrophage polarization and tumor microenvironment	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2020–2022 (1399–1401)
49	Assessment of the research output of the Faculty of Medicine board members at SBMU during the year 2020 based on approved ministry guidelines	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2021–2021 (1400–1400)
50	Evaluation of the relationship between PPARs expression and head and neck squamous cell carcinoma	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2021–2022 (1400–1401)
51	Purinergic receptor inhibitors: Potential pharmacological agents in COVID-19 treatment via mitigation of the cytokine storm	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2021–2022 (1400–1401)
52	Comparison of the efficacy of amnion gel and topical simvastatin gel in reducing post-laparotomy peritoneal adhesions in rat models	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2021–2022 (1400–1401)

53	Pathological, laboratory, and surgical outcomes of using Simvastatin, Atorvastatin, and Rosuvastatin gels on peritoneal endometriosis in rats	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2021–2022 (1400–1401)
54	Evaluation of the impact of "Scientific and Ethical Principles of Working with Laboratory Animals" training on enhancing the knowledge and attitude of MSc and PhD students	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2021–2022 (1400–1401)
55	Association of rs9272105 and rs2304256 polymorphisms with responsiveness to Recigen (Interferon beta-1a) in COVID-19 patients in Ilam Province	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2022–2023 (1401–1402)
56	Evaluation of the effect of Losartan on withdrawal syndrome signs and inflammatory cytokines induced by chronic morphine administration in mice	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2022–2023 (1401–1402)
57	Evaluation of the expression levels of Linc00675 and PVT1 genes in gastric cancer tissues compared to adjacent normal tissues	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2022–2023 (1401–1402)
58	Evaluation of the expression levels of long non-coding RNAs CDKN2B-AS1 and SOX2-OT in gastric cancer and adjacent normal tissues	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2022–2023 (1401–1402)
59	The role of liver extracellular matrix (ECM)-derived hydrogel in establishing a non-alcoholic fatty liver disease (NAFLD) microtissue model via co-culture of hepatic parenchymal and non-parenchymal cell lines	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2022–2023 (1401–1402)
60	Effect of Pioglitazone on liver fibrosis microtissue models generated from co-culture of parenchymal and non-parenchymal	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2023–2025 (1402–1404)

	hepatic cell lines within liver ECM-derived hydrogel			
61	Bioinformatics-based discovery of novel drug candidates for non-alcoholic steatohepatitis (NASH) treatment	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2023–2024 (1402–1403)
62	Assessment of the research output of the Faculty of Medicine board members at SBMU during the year 2023 based on approved ministry guidelines	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2025 (1404)
63	Development and evaluation of machine learning and deep learning models for predicting ACE inhibitor drugs	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2024–2025 (1403–1404)
64	Effects of Losartan on improving hepatic status in a non-alcoholic fatty liver disease (NAFLD) model in <i>Danio rerio</i> (Zebrafish)	Principal Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2024–2025 (1403–1404)
65	<i>In vitro</i> evaluation of the drug combination of Cyclophosphamide and Auraptene on human breast cancer cell line (MDA-MB-231) and the expression of PI3K/AKT genes and Caspase 3, 7 proteins	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2025–2027 (1404–1406)
66	Designing a virtual training course on ethics in biomedical research	Co-Investigator	Shahid Beheshti University of Medical Sciences (SBMU)	2023–2024 (1402–1403)

Publications (Books)

No.	Authors/Translators	Title	Year	Publisher	ISBN
1	Ziai, S. A.	آنچه باید درباره پایش سطح درمانی داروها بدانیم	2004	مرکز ملی تحقیقات علوم پزشکی کشور	964-06-4336-3

		<i>(What We Should Know About Therapeutic Drug Monitoring)</i>	(1383)		
2	Ziai, S. A., & Mesgarpour, B.	احتیاط مصرف و تداخلات دارویی گیاهان دارویی بر اساس شواهد و مستندات <i>(Evidence-Based Precautions and Drug Interactions of Medicinal Plants)</i>	2005 (1384)	انتشارات تیمورزاده	964-456-902-4
3	Ziai, S. A.	Psyllium (Book Chapter) <i>In: Fiber Ingredients: Food Applications and Health Benefits (By Susan Cho)</i>	2009	CRC Press	1420043846
4	Ziai, S. A., Asgarpanah, N., Mohammadipour, M., & Ghazanfari, G.	نکته‌های بالینی در فارماکولوژی <i>(Clinical Tips in Pharmacology)</i>	2009 (1388)	نشر جامعه‌نگر	9786001010255
5	Ziai, S. A., & Mesgarpour, B.	احتیاط مصرف و تداخلات دارویی گیاهان دارویی بر اساس شواهد و مستندات (ویراست دوم)	2021	انتشارات تیمورزاده	9786002381675

			(1400)		
		<i>(Evidence-Based Precautions and Drug Interactions of Medicinal Plants, 2nd ed.)</i>			
6	Goodarzi, M., Rahbarian, N., Ziai, S. A., & Sabzeali, F.	اصول ایمنی آزمایشگاه <i>(Principles of Laboratory Safety)</i>	2021 (1400)	دانشگاه علوم پزشکی شهید بهشتی	9786227595499
7	Vakili, K., Parhizgar, P., Roozrokh, P., Moradi, M. H., & Ziai, S. A.	آشنایی با اصطلاحات اولیه پژوهش و مراکز پژوهشی <i>(Introduction to Basic Research Terminology and Research Centers)</i>	2021 (1400)	دانشگاه علوم پزشکی شهید بهشتی	9786227595147
8	Ziai, S. A. (Scientific Editor & Translator)	فارماکولوژی پایه و بالینی کاتزونگ ۲۰۲۱ - جلد ۱ و ۲ <i>(Katzung's Basic & Clinical Pharmacology 2021 - Vols. 1 & 2)</i>	2021 (1400)	انتشارات اطمینان	9786222561406 9786222561413
9	Ziai, S. A., & Gachkar, L.	راهنمای فشرده کارآزمایی‌های بالینی	2023	انتشارات اطمینان	9786222562175

		<i>(A Compact Guide to Clinical Trials)</i>	(1402)		
10	Ziai, S. A.	من عروسک خیمه‌شب‌بازی نیستم: تعمق در روان‌شناسی تاریک و چگونگی اقناع افراد	2024	نشر دیوار (چشمه)	9786224842022
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88. Rezaei, M., Mohammadpour, H., Eftekhari, M., Pourabdollah, M., Azadani, F. N., Tabarsi, P., Marjani, M., & Ziai, S. A. (2022). The role of angiotensin I converting enzyme insertion/deletion polymorphism in the severity and outcomes of COVID-19 patients. *Frontiers in Genetics*, 13, 1035796.
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90. Cheraghi, Z., Ziai, S. A., Fazeli, Z., & Gheisoori, A. (2023). Unveiling sex-based impact of TYK2 rs2304256 polymorphism on interferon beta-1alpha responsiveness in COVID-19 patients. *Gene Report*, 33, 101846.
91. Ziai, S. A. (2022). Management of Type 2 Diabetes in the Elderly. *Razi Monthly Journal*, 394, 43–59.
92. Atabakhshian, R., Moshirpour, M., Farjoo, M. H., Ghafghazi, S., & Ziai, S. A. (2024). Inhibition of EGF and CoCl₂-Induced HIF-1 α and VEGF Production in Triple Negative MDA-MB-468 Cells by Umbelliprenin: Unveiling the Role of PI3K/AKT/mTOR and MAPK Pathways. *Research Journal of Pharmacognosy*, 11(1), 19–31.
93. Emami, T., Ghafghazi, S., Tarasi, R., Sheikholeslami, M. A., Kalhor, F., & Ziai, S. A. (2024). Nanoliposomal Auraptene: A Comprehensive Study on Preparation, Characterization, Cytotoxicity, and Anti-Angiogenic Potential. *Student Research in Translational Medicine*, 6, 1–8.
94. Daneshmand, H., & Ziai, S. A. (2023). Evaluation of Pharmacology Teaching Methods in Medical Schools: A Critical Review. *Research in Medicine (Pajouhesh dar Pezeshki)*, 47(4), 129–145.
95. Daneshmand, H., & Ziai, S. A. (2024). Pharmacology Teaching Methods in Several Universities with Diverse Geographical Distribution and International Rankings. *Research in Medicine (Pajouhesh dar Pezeshki)*, 8(1), 63–90.
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98. Naseri, S., Asgarpanah, J., & Ziai, S. A. (2024). Immunomodulatory and antioxidant effect of liposomal auraptene against cyclophosphamide-induced immunosuppression in BALB/c mice. *Experimental and Clinical Sciences (EXCLI)*. Advance online publication.

Books & Chapters

1. Ziai, S. A. (2004). *Anche bayad dar bareye payeshe sath-e darmani-ye daruha bedanim* [What we should know about therapeutic drug monitoring]. National Research Center for Medical Sciences. ISBN: 964-06-4336-3
2. Ziai, S. A., & Mesgarpour, B. (2005). *Ehtiat-e masraf va tadakholat-e darui-ye giahan-e darui bar asas-e shavahed va mostanadat* [Evidence-based precautions and drug interactions of medicinal plants]. Teimourzadeh Publications. ISBN: 964-456-902-4
3. Ziai, S. A. (2009). Psyllium. In S. Cho (Ed.), *Fiber Ingredients: Food applications and health benefits* (pp. [Page Numbers]). CRC Press. ISBN: 1420043846
4. Ziai, S. A., Asgarpanah, N., Mohammadipour, M., & Ghazanfari, G. (2009). *Nokteh-haye balini dar pharmacology* [Clinical tips in pharmacology]. Jame'e Negar Publications. ISBN: 9786001010255
5. Ziai, S. A., & Mesgarpour, B. (2021). *Ehtiat-e masraf va tadakholat-e darui-ye giahan-e darui bar asas-e shavahed va mostanadat* [Evidence-based precautions and drug interactions of medicinal plants] (2nd ed.). Teimourzadeh Publications. ISBN: 9786002381675
6. Goodarzi, M., Rahbarian, N., Ziai, S. A., & Sabzeali, F. (2021). *Osool-e imni-ye azmayeshgah* [Principles of laboratory safety]. Shahid Beheshti University of Medical Sciences. ISBN: 9786227595499
7. Vakili, K., Parhizgar, P., Roozrokh, P., Moradi, M. H., & Ziai, S. A. (2021). *Ashenayi ba estelihat-e avaliye-ye pajoohesh va marakez-e pajooheshi* [Introduction to basic research terminology and research centers]. Shahid Beheshti University of Medical Sciences. ISBN: 9786227595147
8. Katzung, B. G. (2021). *Katzung's Basic & Clinical Pharmacology* (Vols. 1-2). (S. A. Ziai, Sci. Ed. & Trans.). Etminan Publications. (Original work published 2021). ISBN: 9786222561406, 9786222561413
9. Ziai, S. A., & Gachkar, L. (2023). *Rahnama-ye feshordeh-ye karazmayi-haye balini* [A compact guide to clinical trials]. Etminan Publications. ISBN: 9786222562175

10. Ziai, S. A. (2024). *Man aroosak-e kheymeh shab bazi nistam: Ta'amogh dar ravanshenasi-ye tarik va chegonegi-ye eghna-e afrad* [I am not a puppet: Meditations on dark psychology and how to persuade people]. Divar (Cheshmeh) Publications. ISBN: 9786224842022

Conference Presentations

1. Mahmoudian, M., & Ziai, S. A. (1995). *Effects of trypan blue on agonist functions in isolated guinea pig atrium* [Conference presentation]. The 12th Iranian Congress of Physiology and Pharmacology, Tehran, Iran.
2. Ziai, S. A., & Mahmoudian, M. (1997). *Effects of sodium fluoride and aluminum fluoride on isolated guinea pig atrial contractions* [Conference presentation]. The 13th Iranian Congress of Physiology and Pharmacology, Isfahan, Iran.
3. Sadeghian, T., Ziai, S. A., Mahmoudian, M., & Soltani-Arabshahi, S. K. (1997). *Evaluation of ACE enzyme activity using HPLC* [Conference presentation]. The 13th Iranian Congress of Physiology and Pharmacology, Isfahan, Iran.
4. Seyedhosseini, D., Ziai, S. A., Tayebi, L., Salekmoghadam, E., & Mahmoudian, M. (1998). *Bioequivalence study of Razak and MSD enalapril formulations via HPLC* [Conference presentation]. The 6th Iranian Pharmaceutical Sciences Conference, Isfahan, Iran.
5. Seyed-hoseiny, D., Seyede-hoseiny, M., Ziai, S. A., Tayebi, L., Salekmoghadam, E., & Mahmoudian, M. (1998). *Bioequivalence study of two enalapril tablet formulations by measuring the degree of ACE inhibition with an HPLC method* [Conference presentation]. 3rd International Student Congress of Medical Sciences, Izmir, Turkey.
6. Ziai, S. A., Sadeghian, T., Soltani-Arabshahi, S. K., & Mahmoudian, M. (1999). *Distribution of ACE enzyme activity in healthy Iranian population* [Conference presentation]. The 14th Iranian Congress of Physiology and Pharmacology, Tehran, Iran.
7. Mahmoudian, M., Ziai, S. A., Seyedhosseini, D., Taiebi, L., & Salekmoghadam, E. (2000). *Serum ACE activity in healthy subjects after single oral administration of enalapril* [Conference presentation]. The VII World Conference on Clinical Pharmacology and 4th EACPT Congress, Florence, Italy.

8. Ziai, S. A., Khalighi-Sigaroudi, F., & Farzanegan, Z. M. (2001). *Screening of ACE inhibitory activity among antihypertensive medicinal plants in traditional medicine* [Conference presentation]. The 15th Iranian Congress of Physiology and Pharmacology, Shiraz, Iran.
9. Ziai, S. A., Salehian, P., & Mahmoudian, M. (2002). *Study of serum and tissues angiotensin converting enzyme (ACE) activity in rat with gentamicin induced renal toxicity* [Conference presentation]. 4th International Congress of Pathophysiology (ISP 2002), Budapest, Hungary.
10. Eshraghi, S. S., Taghizadeh, M., Ziai, S. A., & Vahabzadeh, F. (2003). *Role of garden radish peroxidase enzyme in removing aromatic pollutants* [Conference presentation]. The 3rd National Biotechnology Congress of Iran, Ferdowsi University of Mashhad, Iran.
11. Ziai, S. A., Fallah-Husseini, H., Rajabian, T., Pourhosseini, L., Rezai, A., Naghdibadi, H., & Rezazadeh, S. (2004). *Comparisons of the active components of silymarin in the standard powder with two powders extracted from cultivated and wild accessions in Iran* [Conference presentation]. 2nd Global Summit on Medicinal and Aromatic Plants, New Delhi, India.
12. Ziai, S. A., Eshraghi, S. S., Taghizadeh, M., & Vahabzadeh, F. (2004). *Garden radish (*Raphanus sativus L.*) peroxidase eliminates alachlor and butachlor herbicides as well as hazardous aromatic pollutants* [Conference presentation]. Biology in Asia International Conference, Singapore.
13. Baghalian, K., Ziai, S. A., Naghavi, M. R., & Naghdi-Badi, H. (2005). *Variation of volatile sulfur compounds among Iranian garlic ecotypes* [Conference presentation]. 36th International Symposium on Essential Oils, Budapest, Hungary.
14. Ziai, S. A., Larijani, B., Dostpak, A., & Bandarian, F. (2005). *Effect of psyllium on reducing blood glucose in type 2 diabetic patients: A double-blind clinical trial* [Conference presentation]. The 17th Iranian Congress of Physiology and Pharmacology, Kerman, Iran.
15. Dostpak, A., Ziai, S. A., Keshavarz, B., Ebrahimi, A., & Mahmoudian, M. (2005). *Development of a method for purification of angiotensin-converting enzyme from rabbit lung* [Conference presentation]. The 17th Iranian Congress of Physiology and Pharmacology, Kerman, Iran.
16. Kouchmeshky, A., Amin, G., Ziai, S. A., & Heidari, M. R. (2005). *Methodology for evaluating angiotensin-converting enzyme inhibitory effects in herbal extracts* [Conference presentation]. The 17th Iranian Congress of Physiology and Pharmacology, Kerman, Iran.

17. Keshavarz, B., Ziai, S. A., Dostpak, A., Ebrahimi, A., Mahmoudian, M., & Heidari, M. R. (2005). *ACE inhibitory effects of four Papaver species and their major alkaloids* [Conference presentation]. The 17th Iranian Congress of Physiology and Pharmacology, Kerman, Iran.
18. Kouchmeshky, A., Amin, G., & Ziai, S. A. (2005). *ACE inhibitory activity of antihypertensive plants in Persian traditional medicine* [Conference presentation]. 11th National Student Congress, Shiraz, Iran.
19. Ziai, S. A., Nasri, S., Salar, F., Rezaei, M., Roghani, M., Kamalinejad, M., Goodarzvand, M., & Gholami, O. (2009). *Effects of garlic and Peganum harmala aqueous extracts on motor asymmetry and oxidative stress in a rat model of Parkinson's disease* [Conference presentation]. The 19th Iranian Congress of Physiology and Pharmacology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
20. Salar, F., Ziai, S. A., Nasri, S., & Roghani, M. (2009). *Neuroprotective effect of Berberis vulgaris aqueous extract in a rat model of Parkinson's disease* [Conference presentation]. The 19th Iranian Congress of Physiology and Pharmacology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
21. Fallah-Husseini, H., Zarei-Mahmoudabadi, A., Ziai, S. A., & Mehdizadeh, M. (2009). *Effects of artichoke leaf and chicory root extracts on hepatotoxicity in rats* [Conference presentation]. The 19th Iranian Congress of Physiology and Pharmacology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
22. Saken-Shaft, M., Ansarian, A., Ziai, S. A., Nasri, S., & Saadat, H. (2009). *Association between ACE enzyme activity and coronary artery disease* [Conference presentation]. The 19th Iranian Congress of Physiology and Pharmacology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
23. Rezaei, M., Ziai, S. A., Nasri, S., & Roghani, M. (2009). *Neuroprotective effect of Cerasus avium L. tail extract against 6-OHDA induced toxicity in male rats* [Conference presentation]. The 19th Iranian Congress of Physiology and Pharmacology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
24. Ziai, S. A., Mirfakhraie, R., Abdolghafoorian, H., Bina, B., & Hariri, R. (2011). *Association of angiotensin-converting enzyme (ACE) gene A/G polymorphism and coronary heart disease* [Conference presentation]. 1st International Student Congress on Cell and Molecular Medicine, Tehran, Iran.

25. Gholami, O., Ziai, S. A., Jeddi-Tehrani, M., Iranshahi, M., Zarnani, A. H., & Mohammadpour, A. H. (2011). *Umbelliprenin induces apoptosis in Jurkat cell line* [Conference presentation]. The 20th Iranian Congress of Physiology and Pharmacology, Hamadan, Iran.
26. Salar, F., Ziai, S. A., Nasri, S., & Roghani, M. (2011). *Neuroprotective effect of garlic aqueous extract on 6-OHDA induced lesions in rats* [Conference presentation]. The 20th Iranian Congress of Physiology and Pharmacology, Hamadan, Iran.
27. Rashidi, M., Moini-Zanjani, T., Khalilnezhad, A., Khazaei-Poul, Y., & Ziai, S. A. (2015). *In vitro cytotoxic effects of umbelliprenin on 4T1 breast cancer cell line* [Conference presentation]. The 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.
28. Rashidi, M., Khalilnezhad, A., Amani, D., Jamshidi, H. R., & Ziai, S. A. (2015). *Inhibitory activities of umbelliprenin against human HT29 and mouse CT26 colon carcinoma cell lines* [Conference presentation]. The 2nd International GI Cancer Congress, Tehran, Iran.
29. Zandi, A., Moini-Zanjani, T., Ziai, S. A., HajMolaHoseini, M., & Khazaei-Poul, Y. (2016). *The synergistic effects of combination of ciprofloxacin temozolomide on human glioblastoma A-172 cell line* [Conference presentation]. The 1st International Clinical Oncology Congress, Tehran, Iran.
30. Habibi, I., Hedayatianfard, K., Ziai, S. A., Bagheri-Khoulenjani, S. H., & Habibi, B. (2017). *The fabrication of a nanofiber wound dressing for diabetic wound healing* [Conference presentation]. 16th European Dermatology Congress, Milan, Italy.
31. Hedayatianfard, K., Ziai, S. A., Niazi, F., Habibi, I., Habibi, B., & Moravvej, H. (2017). *Losartan ointment relieves hypertrophic scars and keloid: A pilot study* [Conference presentation]. 16th European Dermatology Congress, Milan, Italy.
32. Atabakhshian, R., Ziai, S. A., Yaghmaei, B., Salami, S., Moini-Zanjani, T., & Rezaei, M. S. (2018). *Cytotoxic evaluation of umbelliprenin and auraptene on MDA-MB-468 breast cancer cell line* [Conference presentation]. The 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran.
33. Khatonabadi, S. M., Ziai, S. A., Yaghmaei, B., Salami, S., Moini-Zanjani, T., & Rezaei, M. S. (2018). *Cytotoxic effect of umbelliprenin and auraptene on MDA-MB-231 and T47D breast cancer cells* [Conference presentation]. The 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran.

34. Jalali, A., Ziai, S. A., HajMolaHoseini, M., & Rezaei, M. S. (2018). *Comparative cytotoxic study of auraptene and umbelliprenin on HT29 and THP1 cell lines* [Conference presentation]. The 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran.
35. Rashidi, M., Bazi, A., Amani, D., Jamshidi, H. R., & Ziai, S. A. (2018). *Effect of umbelliprenin on Th1/Th2 immune balance and tumor progression markers in 4T1 tumor-bearing mice* [Conference presentation]. The 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran.
36. Ziai, S. A. (2019). *Pharmacogenomics and personalized medicine* [Invited lecture]. The 24th National and 3rd International Congress of Physiology and Pharmacology, Tehran, Iran.
37. Rezaei, M., Salimi, S., & Ziai, S. A. (2020). *Docetaxel enhances the expression of STING protein in PC3 prostate cancer cells, and cGAMP attenuates this effect* [Conference presentation]. 2nd AMP Europe Congress, Milan, Italy.
38. Ziai, S. A. (2023). *Translating pharmacogenomic research into therapeutic potentials* [Keynote lecture]. The 26th National and 5th International Congress of Physiology and Pharmacology, Semnan, Iran.
39. Cheraghi, Z., & Ziai, S. A. (2023). *Sex-biased poor response of TYK2 rs2304256 polymorphism in COVID-19 patients treated with interferon beta-1a* [Conference presentation]. The 26th National and 5th International Congress of Physiology and Pharmacology, Semnan, Iran.

Invited Lectures & Presentations

1. Ziai, S. A. (2001, January). *The role of medicinal plants in pharmacy and medicine* [Invited Lecture]. Imam Hall, Imam Khomeini Hospital, Tehran, Iran.
2. Ziai, S. A. (2001, January). *Artemisinin in the treatment of malaria* [Invited Lecture]. Imam Hall, Imam Khomeini Hospital, Tehran, Iran.
3. Ziai, S. A. (2001, April). *Principles of pharmacodynamics in pharmacotherapy* [Guest Lecture]. Shahroud University of Medical Sciences, Shahroud, Iran.

4. Ziai, S. A. (2002, February). *Drug interactions of medicinal plants* [CME Lecture]. Medical Council of the Islamic Republic of Iran, Tehran, Iran.
5. Ziai, S. A. (2003, February). *The position of plants in manufacturing conventional drugs* [Invited Lecture]. Imam Hall, Imam Khomeini Hospital, Tehran, Iran.
6. Ziai, S. A. (2003, March). *Pathophysiology and pharmacotherapy of hypertension* [Guest Lecture]. Lorestan University of Medical Sciences, Khorramabad, Iran.
7. Ziai, S. A. (2003, March). *Traditional medicine and phytotherapy* [Guest Lecture]. Lorestan University of Medical Sciences, Khorramabad, Iran.
8. Ziai, S. A. (2003, March). *Clinical value of therapeutic drug monitoring and drug-drug interactions* [Guest Lecture]. Lorestan University of Medical Sciences, Khorramabad, Iran.
9. Ziai, S. A. (2003, September). *Investigating the role of garden radish (*Raphanus sativus L.*) peroxidase enzyme in removing aromatic pollutants* [Oral Presentation]. The 3rd National Biotechnology Congress of Iran, Ferdowsi University of Mashhad, Iran.
10. Ziai, S. A. (2004, February). *The position of medicinal plants in the 21st century* [Invited Lecture]. Congress of Medicinal Plants and Herbal Drugs, Lorestan, Iran.
11. Ziai, S. A. (2005, January). *The role of medicinal plants in cardiovascular diseases and hypertension management: Causes and treatments* [Invited Lecture]. Institute of Medicinal Plants (IMP), Tehran, Iran.
12. Ziai, S. A. (2005, January). *Herbal drugs and novel natural compounds* [Guest Lecture]. Karaj Health Network, Karaj, Iran.
13. Ziai, S. A. (2005, January). *The position of medicinal plants in novel drug discovery* [Oral Presentation]. The 2nd Conference on Medicinal Plants, Shahed University, Tehran, Iran.
14. Ziai, S. A. (2005, March). *The role of medicinal plants in cardiovascular diseases and hypertension management* [Invited Lecture]. Institute of Medicinal Plants (IMP), Tehran, Iran.

15. Ziai, S. A. (2005, October). *Effect of psyllium on blood glucose in type 2 diabetic patients: A double-blind clinical trial* [Oral Presentation]. The 17th Iranian Congress of Physiology and Pharmacology, Kerman, Iran.
16. Ziai, S. A. (2005, November). *Cardiovascular herbal medicines and common practices in phytotherapy* [Invited Lecture]. Institute of Medicinal Plants (IMP), Tehran, Iran.
17. Ziai, S. A. (2005, December). *Pharmacologically active plants: Adverse effects and drug interactions* [Invited Lecture]. Institute of Medicinal Plants (IMP), Tehran, Iran.
18. Ziai, S. A. (2009, May). *Herbal medicines effective in cardiovascular and respiratory diseases* [Invited Lecture]. Institute of Medicinal Plants (IMP), Tehran, Iran.
19. Ziai, S. A. (2010, May). *Investigation of common antibiotic resistance patterns in Iran* [Clinical Seminar]. Mofid Children's Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
20. Ziai, S. A. (2011, January). *Applications of antibiotics in ophthalmology* [Clinical Lecture]. Imam Hossein Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
21. Ziai, S. A. (2012, May). *Irrational use of antibiotics and its associated challenges* [Invited Presentation]. Seminar on Antimicrobial Agents and Resistance, Mofid Children's Hospital, SBMU, Tehran, Iran.
22. Ziai, S. A. (2018, October). *Pharmacotherapy of anxiety disorders* [CME Lecture]. 13th Comprehensive Seasonal Scientific Program of the Iranian General Practitioners Association, Tehran, Iran.
23. Ziai, S. A. (2018–2023). *E-Learning CME Series: Sedatives, hypnotics, antidepressants, and antipsychotics* [Online Continuing Medical Education Program]. Shahid Beheshti University of Medical Sciences (SBMU). Available from SBMU CME Portal.
24. Ziai, S. A. (2022, May). *Non-benzodiazepine hypnotics* [CME Webinar]. Medical Council of the Islamic Republic of Iran, Tehran, Iran.
25. Ziai, S. A. (2022, July). *Effective treatments for sexual desire and performance enhancement* [CME Webinar]. Medical Council of the Islamic Republic of Iran, Tehran, Iran.

26. Ziai, S. A. (2025, February). *Human papillomavirus (HPV) therapeutics* [National CME Webinar]. Ministry of Health / SBMU, Tehran, Iran.
27. Ziai, S. A. (2025, June). *Human papillomavirus (HPV) infection: Prevention and management* [National CME Webinar]. Ministry of Health / SBMU, Tehran, Iran.

Thesis Mentorship

PhD Dissertations Supervised / Co-Supervised

1. **Baghalian, K** .(2004) .*Investigating the genetic diversity of Iranian local garlic populations* .Faculty of Agriculture, Science and Research Branch, Islamic Azad University) .**Co-Supervisor**(
2. **Shokarpour, M** .(2007) .*Genetic diversity of *Silybum marianum* L. based on morphological traits and molecular markers and its correlation with active pharmaceutical ingredients* .Faculty of Agriculture, University of Tabriz) .**Co-Supervisor**(
3. **Ganjeh, A. M** .(2010) .*Evaluating the protective effects of parsley (*Petroselinum crispum*) in an experimental model of Parkinson's disease in rats* .Faculty of Veterinary Medicine, Islamic Azad University, Tehran) .**Supervisor**(
4. **Gholami, O** .(2011) .*Investigation of Umbelliprenin-induced apoptosis in CLL cell line* .Faculty of Medicine, Shahid Beheshti University of Medical Sciences (SBMU)) .**Supervisor**(
5. **Riazi, Z** .(2012) .*Feasibility of removing pesticides from pesticide manufacturing industrial wastewater using peroxidase enzyme* . Faculty of Environment, Science and Research Branch, Islamic Azad University) .**Supervisor**(
6. **Shakerian, M**) .N/A .(*Effect of thermal processing on metabolic products of probiotic bacteria in long-shelf-life stirred yogurt* . Faculty of Agricultural Engineering and Technology, University of Tehran) .**Co-Supervisor**(
7. **Sharifi, N** .(2014) .*Screening, isolation, and identification of phytochemical compounds inhibiting Angiotensin-Converting Enzyme I (ACE-I)* .Faculty of Pharmacy, Tehran University of Medical Sciences (TUMS)) .**Supervisor**(

8. **Rashidi, M** .(2016) .*Investigating the effect of Umbelliprenin on tumor growth and angiogenesis in Balb/c mice with breast cancer* . Faculty of Medicine, SBMU) .**Supervisor**(
9. **Zandi, A** .(2017) .*Evaluating the cytotoxic effects of Ciprofloxacin on human glioblastoma A-172 cancer cell line* .Faculty of Medicine, SBMU) .**Supervisor**(
10. **Naderi Alizadeh, M** .(2017) .*Investigating the anti-cancer effects of Umbelliprenin in an animal model of colorectal cancer* .Faculty of Medicine, SBMU) .**Supervisor**(
11. **Hedayatianfard, K** .(2018) .*Effect of two chitosan/PVA formulations (nanofibers and film) containing Doxycycline on diabetic wound healing* .Faculty of Medicine, SBMU) .**Supervisor**(
12. **Mehraban, Z** .(2018) .*Effect of Gallic acid on sperm parameters and in vitro fertility in Cyclophosphamide-treated mice* . Reproductive Biology, Faculty of Medicine, SBMU) .**Co-Supervisor**(
13. **Atabakhshian, R** .(2020) .*Effect of Umbelliprenin on HIF-1 α pathway and angiogenesis induced by EGF and CoCl₂ in SKBR-3 and MDA-MB-468 cell lines* .Faculty of Medicine, SBMU) .**Supervisor**(
14. **Mahmoudi Khatoonabadi, S** .(2020) .*Effect of Umbelliprenin on HIF-1 α pathway and angiogenesis induced by EGF and CoCl₂ in T47D and MDA-MB-231 cell lines* .Faculty of Medicine, SBMU) .**Supervisor**(
15. **Karamian, A** .(2020) .*In vitro effect of Pyrvinium pamoate on proliferation, invasion, and associated molecular factors of endometriotic stromal cells* .Reproductive Biology, Faculty of Medicine, SBMU) .**Co-Supervisor**(
16. **Abizadeh, M** .(2020) .*Evaluating the effect of Auraptene supplementation on oocyte maturation, ovarian inflammation, and fertilization rate in a PCOS mouse model* .Reproductive Biology, Faculty of Medicine, SBMU) .**Co-Supervisor**(
17. **Jalali, A** .(2020) .*In vitro evaluation of Auraptene on macrophage polarization and the tumor microenvironment* .Faculty of Medicine, SBMU) .**Supervisor**(
18. **Cheraghi, Z** .(2023) .*Pharmacogenetic evaluation of response to Beta-Interferon (Recigen) in COVID-19 patients in Ilam* .Faculty of Medicine, SBMU) .**Supervisor**(

19. **Naseri, S** .(2024) .*Immunomodulatory and anti-inflammatory effects of Auraptene in a mouse model of cyclophosphamide-induced immunosuppression and inflammation* .Faculty of Veterinary Pharmacology, Pharmaceutical Sciences Branch, Islamic Azad University) .**Supervisor**(
20. **Rafie, M**) .N/A .(*Effects of Losartan on improving liver status in non-alcoholic fatty liver disease (NAFLD) in zebrafish (Danio rerio)* . Faculty of Medicine, SBMU) .**Supervisor**(

Medical (MD) & Pharmaceutical (PharmD) Doctorates

1. **Siadatpour, Z** .(2003) .*Induction of experimental brain edema in rats and evaluating the effects of bradykinin antagonists on its progression* .Faculty of Pharmacy, Islamic Azad University) .**Supervisor**(
2. **Amiri Kandouleh, M** .(2003) .*Determining CRP levels in different prognoses of cerebrovascular accidents in ER patients at Rasoul Akram and Haft-e-Tir Hospitals* .Faculty of Medicine, Iran University of Medical Sciences) .**Co-Supervisor**(
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