

Curriculum Vitae

Dr. Seyed Ali Ziai

Academic Rank: Professor

Email: aliziai@sbmu.ac.ir and saziai@gmail.com



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 66 research projects, published 100 scientific papers, authored and translated 10 books, and supervised 57 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.