

# *Curriculum Vitae*

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## Education

- **Tehran University of Medical Sciences**, PhD, Pharmaceutics, 2003-2008
- **Tehran University of Medical Sciences**, PharmD, 1996-2002

## Research interest

- Bioequivalence studies
- Biodistribution and disposition studies
- Ex vivo metabolism studies (rat liver perfusion studies, rat lung perfusion studies)
- In vivo pharmacokinetics studies (Neuropharmacokinetics studies)
- Novel drug delivery systems

## Work and educational experiences

- Deputy of Financial and administrative, School of Pharmacy, Tehran University of Medical Sciences, 2021-present
- Head of Pharmaceutics department, School of Pharmacy, Tehran University of Medical Sciences, 2020-present
- Associate professor, School of Pharmacy, Tehran University of Medical Sciences, 2016-present
- Director of Drugs and Narcotics Supervision, Deputy of Food and Drugs, Tehran University of Medical Sciences, 2015-2018
- Assistant professor, School of Pharmacy, Tehran University of Medical Sciences, 2012-2016
- Pharmacokinetics and Bioequivalency consultant, Tehran Chemie Pharmaceutical Co., 2008-2012
- Pharm.D and PhD Thesis supervisor, Tehran University of Medical Sciences, 2012-present
- Pharm.D and PhD Thesis advisor, Tehran University of Medical Sciences, 2012-present

## Awards and honors

- Selected dissertation, 11<sup>th</sup> Avicenna Festival, Tehran, Iran, **YEAR**
- Top graduate of School of Pharmacy, Tehran University of Medical Sciences, 2002

## PharmD thesis

## PhD thesis

## Conferences

- Comparison of pharmacokinetics of Tramadol and its three main metabolites in human plasma and saliva, Netherlands, 2007, Poster presentation
- Development of rapid HPLC method for determination of Tramadol and its three main metabolites in human plasma. saliva and urine, Netherlands, 2007, Poster presentation
- Biowaiver extension potential to BCS class III drug: metformin immediate-release tablet, Iran, 2008, Poster presentation
- A rapid HPLC method for simultaneous quantitation of venlafaxine and its major metabolites in human plasma, 2008, Poster presentation
- A new HPLC method for determination of carboxylic acid metabolite of clopidogrel in human plasma, Iran, 2008, Poster presentation
- Tramadol pharmacokinetic after ecstasy administration in the Sprague-Dawley rats, Iran, 2013, Poster presentation
- Changes in CYP2E1 activity after MDMA administration using chlorzoxazone as a probe drug in rat liver perfused model, Iran, 2015, Poster presentation
- Investigation of ecstasy's effect on omeperazole metabolism in rat perfused liver, Iran, 2015, Poster presentation
- Imatinib metabolism and disposition in isolated rat perfused liver, Iran, 2015, Poster presentation
- Development and evaluation of chitosan based thermosensitive crosslinked hydrogel of enrofloxacin hydrochloride, Iran, 2015, Poster presentation
- Preparation of single layer and tri-layer Poly (lactide-co-glycolide) (PLGA) Implant Tablets of Cefquinome Sulfate, 2015, Iran, Poster presentation
- Inhibitory effect of MDMA on metabolism of Mirtazapine 3 and 10 days after utilizing perfused rat liver, Iran, 2015, Poster presentation
- Changes in CYP2E1 activity after MDMA administration using chlorzoxazone as a probe drug in rat liver perfused model, Iran, 2015, Oral presentation

### Teaching experiences

- Advanced Biopharmaceutics and Pharmacokinetics course, PhD students, School of Pharmacy, Tehran University of Medical Sciences
- Pharmaceutical Internship, Undergraduate pharmacy students, School of Pharmacy, Tehran University of Medical Sciences
- Biopharmaceutics and Pharmacokinetics course, Undergraduate pharmacy students, School of Pharmacy, Tehran University of Medical Sciences
- Practical Biopharmaceutics course, Undergraduate pharmacy students, School of Pharmacy, Tehran University of Medical Sciences
- Biopharmaceutics and Pharmacokinetics course, Undergraduate pharmacy students, International Campus of School of Pharmacy, Tehran University of Medical Sciences
- Practical Biopharmaceutics course, Undergraduate pharmacy students, International Campus of School of Pharmacy, Tehran University of Medical Sciences

### Academic membership

- Iranian Association of Pharmaceutical Scientists
- Iranian Society of Biopharmaceutics and Pharmacokinetics
- Iranian Society of Pharmacists

### Professional Skills

- (Bio)analytical method development, (Bio)analytical method validation, Biodistribution and pharmacokinetics studies, Bioavailability and bioequivalence studies, Pharmaceutical formulation, Pharmaceutical compounding, Novel drug delivery systems (design, preparation, and characterization),

### Other skills

- Excellent computer skills, Excellent presentation skills, Effective communication skills, Microsoft office, SPSS, GraphPad Prism, SigmaPlot,

### Language skills

- **English:** Advanced
- **Persian:** Native

## Publications

1. Ardakani YH, Lavasani H, Rouini M-R: **Gender dependency in stereoselective pharmacokinetics of tramadol and its phase I metabolites in relation to CYP2D6 phenotype in Iranian population.** *Iranian journal of pharmaceutical research: IJPR* 2018, **17**(2):767.
2. Bagheri H, Ranjbari E, Amiri-Aref M, Hajian A, Ardakani YH, Amidi S: **Modified fractal iron oxide magnetic nanostructure: A novel and high performance platform for redox protein immobilization, direct electrochemistry and bioelectrocatalysis application.** *Biosensors and Bioelectronics* 2016, **85**:814-821.
3. EBRAHIMZADEH H, YAMINI Y, SEDIGHI A, ROUINI M: **Stereospecific high-performance liquid chromatographic analysis of tramadol and its O-demethylated (M1) and N, O-demethylated (M5) metabolites in human plasma.** *J Chromatogr A* 2002, **949**(1-2):11.
4. Esmaeili Z, Mohammadi S, Nezami A, Rouini MR, Ardakani YH, Lavasani H, Ghazi-Khansari M: **A disposition kinetic study of Tramadol in bile duct ligated rats in perfused rat liver model.** *Biomedicine & Pharmacotherapy* 2017, **91**:251-256.
5. Hashemi P, Bagheri H, Afkhami A, Ardakani YH, Madrakian T: **Fabrication of a novel aptasensor based on three-dimensional reduced graphene oxide/polyaniline/gold nanoparticle composite as a novel platform for high sensitive and specific cocaine detection.** *Analytica chimica acta* 2017, **996**:10-19.
6. Jamali B, Ardakani YH, Foroumadi A, Kobarfard F, Rouini M-R: **Determination of MDMA and its three metabolites in the rat perfused liver.** *Journal of analytical toxicology* 2013, **37**(6):357-361.
7. Jamali B, Ardakani YH, Rouini M-R, Foroumadi A, Amidi S, Aghdam VHZ, Kobarfard F: **Determination of the role of calcium on instability of neurotoxic metabolite of ecstasy by HPTLC-mass.** *DARU Journal of Pharmaceutical Sciences* 2013, **21**(1):1-7.
8. Jamali B, Sheikholeslami B, Ardakani YH, Lavasani H, Rouini M-R: **Evaluation of the Ecstasy influence on tramadol and its main metabolite plasma concentration in rats.** *Drug metabolism and personalized therapy* 2017, **32**(3):137-145.
9. Jamali B, Torkamanian M, Badri N, Sheikholeslami B, Ardakani YH, Rouini M-R: **Assays for MDMA and Its Metabolites.** In: *Neuropathology of Drug Addictions and Substance Misuse.* Elsevier; 2016: 503-512.
10. Khanamani Falahatipour S, Rasooli A, Hosseinzadeh Ardakani Y, Akbari Javar H, Kiani K, Zahraee Salehi T: **Preparation and in vitro evaluation of a novel chitosan-based hydrogel for injectable delivery of enrofloxacin.** *Iranian Journal of Veterinary Medicine* 2017, **11**(1):31-47.
11. Kiani K: **Ali Rassouli<sup>1\*</sup>, Sakineh Khanamani Falahatipour<sup>2</sup>, Yalda Hosseinzadeh Ardakani<sup>3</sup>, Hamid Akbari Javar<sup>3</sup>.** *Iranian Journal of Veterinary Medicine* 2021, **15**(01).
12. Kiani K, Rassouli A, Hosseinzadeh Ardakani Y, Akbari Javar H, Khanamani Falahatipour S, Khosraviyan P, Zahraee Salehi T: **Preparation and evaluation of a thermosensitive liposomal hydrogel for sustained delivery of danofloxacin using mesoporous silica nanoparticles.** *Iranian Journal of Veterinary Medicine* 2016, **10**(4):295-306.
13. Neyshaburinezhad N, Ghasim H, Rouini M, Daali Y, Ardakani YH: **Frequency of Important CYP450 Enzyme Gene Polymorphisms in the Iranian Population in Comparison with Other Major Populations: A Comprehensive Review of the Human Data.** *Journal of personalized medicine* 2021, **11**(8):804.

- 14. Neyshaburinezhad N, Rouini M, Lavasani H, H Ardakani Y: **Evaluation of Cinnamon (Cinnamomum Verum) Effects on Liver CYP450 2D1 Activity and Hepatic Clearance in Diabetic Rats.** *Jundishapur Journal of Natural Pharmaceutical Products* 2021, **16**(1).
- 15. Neyshaburinezhad N, Rouini M, Shirzad N, Esteghamati A, Nakhjavani M, Namazi S, Ardakani YH: **Evaluating the effect of type 2 diabetes mellitus on CYP450 enzymes and P-gp activities, before and after glycemic control: A protocol for a case-control pharmacokinetic study.** *MethodsX* 2020, **7**:100853.
- 16. Neyshaburinezhad N, Rouini MR, Entezari H, Lavasani H, Ardakani YH: **Evaluation of changes in cytochrome P450 2C19 activity in type 2 diabetic rats before and after treatment, by using isolated perfused liver model.** *Iranian Journal of Basic Medical Sciences* 2020, **23**(5):629.
- 17. Neyshaburinezhad N, Seidabadi M, Rouini M, Lavasani H, Foroumadi A, Ardakani YH: **Evaluation of hepatic CYP2D1 activity and hepatic clearance in type I and type II diabetic rat models, before and after treatment with insulin and metformin.** *DARU Journal of Pharmaceutical Sciences* 2020, **28**(2):479-487.
- 18. Rassouli A, Khanamani Falahatipour S, Hosseinzadeh Ardakani Y, Akbari Javar H, Kiani K: **Comparative Pharmacokinetics of Enrofloxacin After Subcutaneous Administration of a Novel in situ Gel Forming Preparation and a Conventional Product to Rabbits.** *Iranian Journal of Veterinary Medicine* 2021, **15**(1):68-78.
- 19. Rassouli A, Khanamani Falahatipour S, Hosseinzadeh Ardakani Y, Akbari Javar H, Kiani K, Zahraee Salehi T: **Preparation and in vitro evaluation of chitosan-based films for the sustained delivery of enrofloxacin.** *Iranian Journal of Veterinary Science and Technology* 2018, **10**(1):13-20.
- 20. Rassouli A, Kiani K, Ardakani YH, Javar HA, Falahatipour SK: **A comparative pharmacokinetic study of a novel sustained release danofloxacin formulation and the conventional product in rabbits.** In: *Veterinary Research Forum: 2021.* Faculty of Veterinary Medicine, Urmia University, Urmia, Iran: 253.
- 21. Rezaei S, Neyshaburinezhad N, Rouini M, Lavasani H, Ardakani YH: **Can combination therapy with insulin and metformin improve metabolic function of the liver, in type I diabetic patients? An animal model study on CYP2D1 activity.** *Journal of Diabetes & Metabolic Disorders* 2020, **19**(2):2049-2056.
- 22. Rouini M, Neyshaburinezhad N, Foroumadi A, Lavasani H, Hosseinzadeh Ardakani Y: **Effect of 3, 4-Methylenedioxymethamphetamine on Liver CYP2C19 Enzyme Activity in Isolated Perfused Rat Liver Using Omeprazole Probe.** *Journal of Mazandaran University of Medical Sciences* 2020, **30**(187):1-14.
- 23. Rouini M-R: **Investigation of MDMA inhibitory effect on Cytochrome P450 3A4 in isolated perfused rat liver model using tramadol.**
- 24. Rouini M-R, Ardakani YH, Soltani F, Aboul-Enein HY, Foroumadi A: **Development and validation of a rapid HPLC method for simultaneous determination of tramadol, and its two main metabolites in human plasma.** *Journal of Chromatography B* 2006, **830**(2):207-211.
- 25. ROUINI M-R, ARDAKANI YH, SOLTANI F, ABOUL-ENEIN HY, FOROUMADI A: **Honorato J. Chirality Honorato J. Chirality 11 (4), 272, 1999.** *Journal of chromatography B, Analytical technologies in the biomedical and life sciences* 2006, **830**(2):207-211.
- 26. ROUINI M-R, ARDAKANI YH, SOLTANI F, ABOUL-ENEIN HY, FOROUMADI A: **Guidance for Industry, Bioanalytical Method Validation, 2001 Guidance for Industry, Bioanalytical Method Validation, 2001, 2001.** *Journal of chromatography B, Analytical technologies in the biomedical and life sciences* 2006, **830**(2):207-211.

- 27. ROUINI M-R, ARDAKANI YH, SOLTANI F, ABOUL-ENEIN HY, FOROUMADI A: **Desmeules J. Drugs Desmeules J. Drugs 47 (Suppl. 1), 3, 1994. Journal of chromatography B, Analytical technologies in the biomedical and life sciences** 2006, **830**(2):207-211.
- 28. Sepehri Z, Bagheri H, Ranjbari E, Amiri-Aref M, Amidi S, Rouini MR, Ardakani YH: **Simultaneous electrochemical determination of isoniazid and ethambutol using poly-melamine/electrodeposited gold nanoparticles modified pre-anodized glassy carbon electrode.** *Ionics* 2018, **24**(4):1253-1263.
- 29. Sheikholeslami B, Tootoonchi Z, Lavasani H, Ardakani YH, Rouini M: **Investigation of MDMA Inhibitory Effect on CytochromeP450 3A4 in Isolated Perfused Rat Liver Model Using Tramadol.** *Advanced Pharmaceutical Bulletin* 2021, **11**(3):530.
- 30. Sheikholeslami B, Torkamanian M, Ardakani YH, Jamali B, Rouini M: **Assays for Tramadol and Its Metabolites.** *Neuropathology of Drug Addictions and Substance Misuse* 2016:631-645.
- 31. Shirazi AS, Varshochian R, Rezaei M, Ardakani YH, Dinarvand R: **SN38 loaded nanostructured lipid carriers (NLCs); preparation and in vitro evaluations against glioblastoma.** *Journal of Materials Science: Materials in Medicine* 2021, **32**(7):1-12.