

**Curriculum Vitae**  
**Fatemeh Akhlaghi, Pharm.D., Ph.D.**

**Summary:** I am a pharmaceutical scientist with expertise in clinical pharmacology, translational sciences, drug metabolism, pharmacogenomics and pharmacokinetic/pharmacodynamic (PKPD) modeling. My research goal is to understand the sources of variability in drug disposition and effect specifically in patients with diabetes mellitus or non-alcoholic fatty liver disease (NAFLD). The long-term goal is to devise personalized medicine these disease state. I am proficient in design and implementation of clinical pharmacokinetic studies, quantification of drug concentration and metabolites using LC-MS/MS and data analysis by standard or population pharmacokinetics methods. Characterization of expression and activity of drug metabolism enzymes and transporters *ex vivo* or *in vitro* is another area of research practiced in my laboratory. diabetes mellitus on drug disposition, drug development in alcoholism and therapeutic drug monitoring of immunosuppressive agents in organ transplant recipients. In addition, I am the director of the graduate program in Pharmaceutics and Pharmacokinetics and Principal Investigator on two NIH grants.

**Personal Information**

Date of Birth: November 18<sup>th</sup>, 1966  
Marital Status: Married with a 24-year old daughter  
Residency Status: Naturalized Citizen of the United States

**Work Address**

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Website Brown University: <https://vivo.brown.edu/display/fakhlagh>  
Google Scholar: <https://scholar.google.com/citations?user=wdnBYOAAAAAJ&hl=en>  
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**EDUCATION**

<b>1984-1990</b>	<b>University of Mashhad, Iran</b>	<b>Pharm.D.</b>
<b>Project title:</b>	Use of CD4 to CD8 ratio as a marker for kidney transplant rejection	
<b>Major Professor:</b>	Behrouz Nikbin M.D.	
<b>1992-1997</b>	<b>University of Sydney, Australia</b>	<b>Ph.D. in Pharmaceutical Sciences</b>
<b>Project title:</b>	Cyclosporine distribution in cardiopulmonary transplant recipients	

**Major Professors:** Kenneth F. Brown Ph.D. and Anne M. Keogh M.D.

### EMPLOYMENT HISTORY

<b>July 2014-</b>	University of Rhode Island	Ernest Mario Distinguished Chair in Pharmaceutics
<b>July 2014-</b>	Brown University Medical School	Adjunct Professor of Medicine
<b>July 2011-</b>	University of Rhode Island	Full Professor
<b>July 2010-</b>	Brown University Medical School	Adjunct Associate Professor
<b>2006-2010</b>	University of Rhode Island	Associate Professor with Tenure
<b>2001-2006</b>	University of Rhode Island	Assistant Professor (Tenure Tack)
<b>1998-2001</b>	University of Cambridge, U.K.	Senior Clinical Scientist

*(Advisor: Andrew K. Trull Ph.D.; Funded by Novartis, Roche Laboratories and Papworth Hospital Research Trust)*

<b>1996-1998</b>	University of Sydney, Australia	Post-Doctoral Research Associate
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*(Advisors: Kenneth F. Brown Ph.D. and Andrew J McLachlan Ph.D.; Funded by Novartis and Janssen Cilag Australia)*

### FURTHER TRAINING

#### **March 13, 2016**

Design and Analysis of Quantitative Proteomic Experiments: Introduction to Statistical Methods and Practical Examples using Skyline, one-day workshop part of Human Proteomics Organization meeting in Boston, MA

#### **July 6-10, 2015**

Model-Based Drug Development: Incorporating Population Variability into Mechanistic Prediction of PK and Modelling PK-PD  
A course on Simcyp, Certara Corporation

#### **Aug 5-6, 2014**

Transporters in Drug Discovery and Development  
University of Rhode Island

#### **Jan-March, 2013**

Hands on data manipulation using R  
Instructor: Dr. Kaori Ito, Pfizer Groton

#### **May 1-5, 2012**

Fisher / Shafer NONMEM Course  
An Intermediate to Advanced NONMEM course with PLT tools  
Bethesda, MD

**March 19-21, 2012**

The Introductory GastroPlus™ Simulation and Modeling Workshop  
Cambridge, MA.

**March 29-31, 2011**

Triple Quadrupole System Training using Analyst® Software for Quantitation  
AB Sciex, Framingham, MA.

**October 4, 2009**

Phoenix NLME - A Next Generation Tool for Population PK/PD Analysis  
Instructor: Dan Weiner, Pharsight Corporation.

**September 16, 2006**

Course in Pharmacokinetic/Pharmacodynamic Modeling  
Instructors: Drs William J. Jusko and Jogarao Gobburu.

**September 12-14, 2005**

A three-day hands-on course on “Wings for NONMEM Population Pharmacokinetics Modeling”;  
Instructors: Drs Nick Holford and Dianne Mould  
Also organized the course with Dr. Sara Rosenbaum.

**July 26-30, 2004**

A weeklong hands-on course entitled “Molecular Genetic Methodologies for Pharmaceutical Scientists”; Department of Pharmaceutical Sciences, University of Buffalo;  
Instructor: Dr. Dan Brazeau.

**June 2002**

A three full days hands-on course “Operator’s Training on Sciex API2000 Liquid Chromatography Mass Spectrometer” University of Rhode Island, also organized the course.  
Instructor: Dr. Bill Sawyers, Applied Biosystems.

**September 27-29, 1999**

Beginning level short course on “Population Pharmacokinetics using NONMEM Computer Program”  
Instructors: Drs Lewis Sheiner and Stuart Beal; Uppsala Sweden.

**January 9-15, 1999**

“A course in Pharmacokinetic and Pharmacodynamic Modeling using WinNonlin” one credit point; Department of Clinical Pharmacology, Karolinska Institute, Stockholm, Sweden;  
Instructor: Dr. Ole Borga.

**December 7-22, 1998**

“A course in Pharmacokinetic and Pharmacodynamic with Clinical Applications”; four credit points; Department of Clinical Pharmacology, Karolinska Institute, Stockholm, Sweden;  
Instructors: Drs Gunnar Alvan, Ole Borga, Johan Gabrielsson, Lars Gustafsson.

## HONORS AND AWARDS

- 1992 Levy Mail Pattinson Award, Faculty of Pharmacy, Uni. of Sydney
- 1993-96 Faculty of Pharmacy Postgraduate Scholarship, Uni. of Sydney
- 2002 University of Rhode Island New Faculty Development Award
- 2006 Outstanding Intellectual Property Award, University of Rhode Island
- 2008 Paul-Ehrlich Magic Bullet-Award 2008, Nurnberg Germany
- 2010 Outstanding Intellectual Property Award, University of Rhode Island

## PROFESSIONAL SOCIETY MEMBERSHIP

- 1990-present The Medical Council of Iran (Registered Pharmacist)
- 1993-1998 Australasian Society for Clinical and Experimental Pharmacology and Toxicology (ASCEPT)
- 1993-1998 Australasian Pharmaceutical Science Association (APSA)
- 1997-2001 International Society of Heart and Lung transplantation (ISHLT)
- 1998-2001 Transplantation Society
- 1996-present International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDM&CT)
- 1997-present American Association of Pharmaceutical Scientists (AAPS)
- 2001-present American Association of Colleges of Pharmacies (AACCP)
- 2008-present American Society for Clinical Pharmacology and Therapeutics (ASCPT)

## CONSULTING ACTIVITIES

- 1996 Physicochemical characteristics of ingredients of an antacid suspension, consultant for Park Davis Pharmaceuticals in collaboration with Dr. Elizabeth Gipps, University of Sydney
- 1997-1998 Droplet size determination of nebulized solutions of Salbutamol and Ipratropium Bromide using Marple - Miller cascade impactor, in collaborating with Dr. Kim Chan, University of Sydney
- 2001-2003 Pharmacokinetics of intravenous immunoglobulin (IVIG), I have analyzed the pharmacokinetic data from several phase III studies conducted by Bio Products Limited, UK
- 2003 Member of Mycophenolic Acid TDM Advisory Board (Optcept clinical trial, an 800 patient trial conducted by Roche Laboratories to evaluate the need for mycophenolic acid therapeutic drug monitoring)
- 2005 Consulting on a case study conducted at the Department of Emergency Medicine, RI hospital on the elimination of carboxy hemoglobin
- 2005-2007 Expert witness in a personal injury case involving cyclosporine generic substitution and risk of organ rejection
- 2007 Expert witness in a patent dispute case between two major pharmaceutical companies

2008-2009 Pharmacokinetic and pharmacodynamic modeling of bortezomib in cynomolgus monkeys, Millennium Pharmaceuticals

2007-2010 Pharmacokinetic consultant for a clinical trial on the intra-nasal use of ketamine in children with laceration, Department of Emergency Medicine, Hasbro Children Hospital, Providence, RI.

2011 Consultant on concentration–projection of a modified release tablet by two different manufacturers.

2014 Expert witness for a non-infringement trial for two Canadian companies

2014 Consultant on bioequivalence studies on a generic versus a brand name drug

2016-2017 Consultant on a patent dispute case involving a combination anti-hyperglycemic agent

2017- Consultant on a patent dispute case involving projection of pharmacokinetic parameters of controlled release formulations

### INVITED PRESENTATIONS

DATE	PRESENTATION TITLE/LOCATION
Nov 1999	“Pharmacokinetics of cyclosporine in patients receiving metabolic inhibitors” Invited speaker at PKUK99 meeting, Oxford, UK.
Aug 16 2001	“Clinical pharmacology of immunosuppressive agents” Lecture to the Nephrology Residents, Department of Nephrology, Brown University Medical School, Providence, RI.
Oct 1 2001	“Novel strategies for monitoring immunosuppressive agents” invited speaker at the Department of Pediatrics Nephrology and Transplantation, the Boston’s Children Hospital, University of Harvard Medical School, Boston, MA.
Oct 23 2001	“Monitoring cardiothoracic transplant recipients” Seminar to the Heart Transplant Group, the Brigham and Woman’s Hospital, University of Harvard Medical School, Boston, MA.
Jan 25 2002	“Novel strategies for monitoring immunosuppressive agents” Seminar to Kidney Transplantation Services, Rhode Island Hospital, Providence, RI.
Jul 11 2003	“Pharmacokinetics and pharmacodynamics of immunosuppressive agents” oral presentation at RI-BRIN annual retreat, Alton Jones Campus, RI.
May 20 2004	Speaker at the workshop “Hot and alternative research funding” Title: How to Get Funding from the Industry, University of Rhode Island, Kingston, RI.
Apr 7 2005	“Pharmacokinetics of immunosuppressive agents in diabetic patients” Presentation to the Transplant Services, RI Hospital, Providence, RI.
Jan 25 2006	“Pharmacokinetics and –dynamics of immunosuppressive agents” Center for the New Stem Cell Biology Visiting Professors Seminar Series, COBRE program, Roger Williams Hospital, Providence, RI.
May 24 2006	Poster Judge at the Joint RI-COBRE symposiums, Providence, RI.

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