

July 27, 2016

## **CURRICULUM VITAE**

### **Jason X.-J. Yuan, M.D., Ph.D.**

Professor and Chief  
Division of Translational and Regenerative Medicine  
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The University of Arizona College of Medicine  
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**Birth Date/Place:** May 9, 1963; Xintian, Hunan Province, China

**Citizenship:** U.S.A. (Naturalized on April 13, 1998)

**Marital Status:** Married (to Ayako Makino, Ph.D.)

### **EDUCATION:**

1983 M.D. Suzhou Medical College, Suzhou, China.

1993 Ph.D. Peking Union Medical College & Chinese Academy of Medical Sciences, Beijing, China

### **Internship (Medicine):**

1982-1983 Suzhou Medical College Hospital/Suzhou Third City Hospital  
Suzhou, China

### **Postdoctoral Fellowship:**

1988-1991 Departments of Physiology and Medicine  
University of Maryland School of Medicine, Baltimore, MD

### **Other Training:**

1995 *Molecular Approaches to Ion Channel Structure, Expression and Function* Course  
Cold Spring Harbor Laboratory, New York, NY  
2006 *Stem Cells* Course, Cold Spring Harbor Laboratory, New York, NY

### **PRESENT POSITIONS:**

2014- Professor of Medicine, Department of Medicine, College of Medicine, The University of Arizona, Tucson, AZ  
2014- Professor of Physiology, Department of Physiology, College of Medicine, The University of Arizona, Tucson, AZ  
2014- Associate Vice President for Translational Health Sciences, The University of Arizona, Tucson, AZ  
2014- Chief, Division of Translational and Regenerative Medicine, Department of Medicine, College of Medicine, The University of Arizona, Tucson, AZ

**ACADEMIC POSITIONS HELD:**

- 1991-1993 Research Associate, Department of Physiology, School of Medicine, University of Maryland, Baltimore, MD
- 1993-1996 Research Assistant Professor, Department of Medicine, School of Medicine, University of Maryland, Baltimore, MD
- 1993-1997 Research Assistant Professor (secondary appointment), Department of Physiology, School of Medicine, University of Maryland, Baltimore, MD
- 1996-1998 Assistant Professor, Department of Medicine, School of Medicine, University of Maryland, Baltimore, MD
- 1997-1998 Assistant Professor (secondary appointment), Department of Physiology, School of Medicine, University of Maryland, Baltimore, MD
- 1998-1999 Associate Professor (with tenure), Department of Medicine, School of Medicine, University of Maryland, Baltimore, MD
- 1998-1999 Associate Professor (secondary appointment), Department of Physiology, School of Medicine, University of Maryland, Baltimore, MD
- 1999-2003 Associate Professor (with tenure), Department of Medicine, School of Medicine, University of California, San Diego, CA
- 2003-2010 Professor (with tenure), Department of Medicine, School of Medicine, University of California, San Diego, CA
- 2010-2014 Professor (with tenure), Department of Medicine, College of Medicine, University of Illinois at Chicago, Chicago, IL
- 2010-2014 Professor, Department of Pharmacology, College of Medicine, University of Illinois at Chicago, Chicago, IL
- 2014- Professor (with tenure), Department of Medicine, College of Medicine, The University of Arizona, Tucson, AZ
- 2014- Professor (secondary appointment), Department of Physiology, College of Medicine, The University of Arizona, Tucson, AZ

**ADMINISTRATIVE POSITIONS:**

- 2003-2010 Associate Director for Research Training (Basic Science), Division of Pulmonary and Critical Care Medicine, Department of Medicine, School of Medicine, University of California, San Diego, CA
- 2007-2010 Vice Chair for Research, Department of Medicine, School of Medicine, University of California, San Diego, CA
- 2010-2013 Director, Pulmonary Hypertension Translational Research Program, Institute for Personalized Respiratory Medicine, University of Illinois at Chicago, Chicago, IL
- 2010-2014 Director, Program in Pulmonary Vascular Disease and Right Heart Function, Center for Cardiovascular Research, University of Illinois at Chicago, Chicago, IL
- 2012-2014 Vice Chair for Scholarly Activities, Department of Medicine, University of Illinois at Chicago, Chicago, IL
- 2014- Associate Vice President for Translational Health Sciences, The University of Arizona, Tucson, AZ
- 2014- Chief, Division of Translational and Regenerative Medicine, Department of Medicine, College of Medicine, The University of Arizona, Tucson, AZ

**RESEARCH INTERESTS:**

Pathogenic Mechanisms of Idiopathic and Thromboembolic Pulmonary Hypertension  
Cellular and Molecular Mechanisms of Hypoxic Pulmonary Vasoconstriction  
Electrophysiology of Ion Channels in Smooth Muscle and Endothelial Cells  
Calcium Signaling and Intracellular Calcium Regulation  
Smooth Muscle Cell Migration, Proliferation, and Apoptosis

microRNA and Signaling Cascades in Cell Functions  
 Pulmonary Circulation and Vascular Physiology and Pharmacology  
 Genetics/Genomics & Pharmacogenomics/Pharmacogenetics of Pulmonary Hypertension  
 Stem Cell Biology (Role of Ion Channels in Stem Cell Proliferation and Differentiation)  
 Pathogenic Role of Progenitor Cells in Pulmonary Vascular Disease  
 Ion Channels/Transporters in Cardiomyocytes and Cardiac Function  
 Hypoxia Tolerance and Susceptibility  
 Intestinal and Airway Epithelial Biology and Pathobiology

**HONORS AND AWARDS:**

1990 Research Fellowship Award, American Heart Association-Maryland Affiliation  
 1993 Dr. C.W. Dunker Award, Society of Chinese Biophysicists in America  
 Molecular Kinetics Award, Molecular Kinetics, Inc.  
 1993 The Researcher for Robert Erich, American Heart Association - Maryland Affiliate  
 1994 Parker B. Francis Fellowship, The Francis Families Foundation  
 1995 Giles F. Filley Memorial Award for Excellence in Respiratory Physiology and Medicine,  
 The American Physiological Society  
 1995 Research Career Enhancement Award, The American Physiological Society  
 (For the Ion Channel Course in the Cold Spring Harbor Laboratory)  
 1995 Winner, Courmand and Comroe Young Investigator Award, American Heart Association  
 1995- Who's Who in the World; Who's Who in Science and Engineering; Who's Who in  
 America; Who's Who in the East; Who's Who in American Education; Who's Who in  
 Medicine and Healthcare, The Marquis Who's Who Publication  
 1996 Best Abstract Award, American Heart Association  
 1998 Established Investigator Award, American Heart Association  
 1998 Harold Lamport Award, The American Physiological Society  
 1998 International Who's Who of Professionals™, Gilbralter Publishing, Inc.  
 2000- Fellow, The American Physiological Society  
 2001 Distinguished Scientist, University of South Alabama, Mobile, Alabama  
 2002 Dunaway-Burnham Fellow, Dartmouth Medical School, Hanover, New Hampshire  
 2003- Fellow, American Heart Association  
 2004 Nominating Committee Chair Award, American Thoracic Society  
 2005 Mentor Recognition Award, University of California, San Diego  
 2006 Progress in the Science of Medicine (PRISM) Lecturer, Department of Medicine,  
 University of California, San Diego  
 2006 Planning Committee Chair Award, American Thoracic Society  
 2006- Inaugural Senior Fellow (Executive Fellow), Pulmonary Vascular Research Institute  
 2007- Elected Member, The American Society for Clinical Investigation (ASCI)  
 2007 Program Committee Chair Award, American Thoracic Society  
 2007 Star Reviewer for 2006, The American Physiological Society (*American Journal of  
 Physiology - Lung Cellular and Molecular Physiology*)  
 2007- Fellow, American Association for the Advancement of Science (AAAS)  
 2008 Guggenheim Fellowship Award (Guggenheim Fellow), John Simon Guggenheim  
 Memorial Foundation, New York, NY  
 2008 Program Committee Chair Award, American Thoracic Society  
 2008 The UK-US Stem Cell Collaboration Development Award, UK Science & Innovation,  
 Foreign and Commonwealth Office, British Consulate General, San Francisco, CA  
 2011 University Scholar Award, University of Illinois at Chicago  
 2011 Special Lecture, The 53rd Anniversary Meeting of the Japan Society of Smooth Muscle  
 Research, Tokyo, Japan (August 3<sup>rd</sup>, 2011)

- 2011 Estelle Grover Lecturer, 2011 Grover Conference, American Thoracic Society (Lost Valley Ranch in Sedalia, CO; September 8<sup>th</sup>, 2011)
- 2012 PVRI Achievement Award, Pulmonary Vascular Research Institute (Cape Town, South Africa, February 9, 2012)
- 2012 American Physiological Society (APS) 125<sup>th</sup> Anniversary Collection (Most Highly Cited Articles Since 1900):  
*Top Ten Cited Articles for 1990-1999 in AJP-Lung Cellular and Molecular Physiology* (Yuan X-J, Goldman WF, Tod ML, Rubin LJ and Blaustein MP. Hypoxia reduces potassium currents in cultured rat pulmonary but not mesenteric arterial myocytes. *Am. J. Physiol.* 264:L116-L123, 1993)  
*Top Ten Cited Articles for 2000-2011 in AJP-Lung Cellular and Molecular Physiology* (Sweeney M, Yu Y, Platoshyn O, Zhang S, McDaniel SS and Yuan JX-J. Inhibition of endogenous TRP1 decreases capacitative Ca<sup>2+</sup> entry and attenuates pulmonary artery smooth muscle cell proliferation. *Am. J. Physiol. Lung Cell Mol Physiol.* 283:L429-L438, 2002)  
*Top Ten Cited Articles for 2000-2011 in AJP-Heart and Circulatory Physiology* (Golovina VA, Platoshyn O, Bailey CL, Wang J, Limsuwan A, Sweeney M, Rubin LJ and Yuan JX-J. Upregulated TRP and enhanced capacitative Ca<sup>2+</sup> entry in human pulmonary artery myocytes during proliferation. *Am. J. Physiol. Heart Circ Physiol.* 280:H746-H755, 2001)
- 2012 Distinguished Service Award, The Academy of Cardiovascular Research Excellence (Los Angeles, CA; November 3, 2012)
- 2013- Elected Member, Association of American Physicians (AAP)
- 2013 Research Administration Volunteer Recognition Award, American Heart Association
- 2016 Nominating Committee Chair Award, American Thoracic Society Assembly on Pulmonary Circulation

#### **ADVISORY COMMITTEE SERVICE:**

##### **National Institutes of Health (NIH)**

- 1995-1998 *Ad Hoc* Member, Lung Biology and Pathology (LBPA) Study Section, NIH
- 1997 *Ad Hoc* Member, Biological and Physiological Sciences Special Emphasis Panel, NIH
- 2001 *Ad Hoc* Member, Lung Biology and Pathology (LBPA) Study Section, NIH
- 2002-2003 Member, Lung Biology and Pathology (LBPA) Study Section, NIH
- 2003-2004 Member, Respiratory Physiology (RESP) Study Section, NIH
- 2003 *Ad Hoc* Member, Special Emphasis Panel (ZRG1 CII 04, Drug Resistance), NIH
- 2003-2006 Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
- 2004 *Ad Hoc* Member, Special Review Committee (ZRG1 MOSS D04 for Muscle Related Grant Applications), NIH
- 2004-2006 Chair, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
- 2007 *Ad Hoc* Member, Special Review Committee (ZHL1 CSR-Z (S1) (R)) - Research Projects in Longitudinal Studies of HIV, NIH
- 2007-2008 *Ad Hoc* Member, Heart, Lung, and Blood Program Project Review Committee, NHLBI-HLBP, NIH
- 2008 *Ad Hoc* Member, Special Review Committee (ZHL1 CSR-G (O1)) - Ancillary Studies in Clinical Trials, NHLBI, NIH
- 2008 *Ad Hoc* Member, Special Review Committee (ZHL1 CSR-G (O1)) - Heart, Lung and Blood Supplemental Studies in Clinical Trials, NHLBI, NIH
- 2008 *Ad Hoc* Member, Special Emphasis Panel (ZHL1 CSR-R (O2) 1), NHLBI Institutional Training Programs (T32's), NHLBI, NIH

- 2009 *Ad Hoc* Member, Special Emphasis Panel (ZHL1 CSR-G (M1) 2), Ancillary Studies in Clinical Trials, NHLBI, NIH
- 2009 Reviewer, Special Emphasis Panel/Scientific Review Group 2009/10 (ZRG1 CVRS-B (58) R), RFA-OD-09-003 Challenge Grants Panel 2, NHLBI, NIH
- 2009 *Ad Hoc* Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
- 2009 Reviewer, Special Emphasis Panel (ZRG1 BDA-A 52 R, hESC Challenge Grant Review), Center for Scientific Review, NIH
- 2009 Reviewer, Heart, Lung, and Blood Program Project Review Committee (HLBP Workgroup 030), NHLBI, NIH
- 2010 *Ad Hoc* Reviewer, Special Emphasis Panel/Scientific Review Group 2010/05 (ZGM1 GDB-7 (EU), EUREKA Meeting), Center for Scientific Review, NIH
- 2010 *Ad Hoc* Reviewer, Clinical Trials Review Committee, CLTR (OA), Heart, Lung, and Blood Initial Review Group, National Heart, Lung, and Blood Institute, NIH
- 2011 Chair and *Ad Hoc* Reviewer, Special Emphasis Panel (ZRG1 CVRS G (02) M, Member Conflicts: Lung Development and Hypertension), Center for Scientific Review, NIH
- 2011 *Ad Hoc* Reviewer, Special Emphasis Panel (ZHL1 PPG-A M1 S) for the NHLBI Translational Programs in Lung Diseases Grant Applications Review, NHLBI, NIH
- 2011 *Ad Hoc* Reviewer, Special Emphasis Panel (2011/10 ZHL1 CSR-P (01)1), Resource Related Research Project in the National Biological Sample and Data Repository, NHLBI, NIH
- 2011 Chair and *Ad Hoc* Reviewer, Special Emphasis Panel (2012/01 ZRG1 CVRS-G (02) M, Member Conflicts: Pulmonary Fibrosis and Hypertension), Center for Scientific Review, NIH
- 2012 *Ad Hoc* Reviewer, National Heart, Lung, and Blood Institute Special Emphasis Panel (ZHL1 CSR-Q (M1)) for the NHLBI Translational Programs in Lung Diseases, NIH
- 2012 *Ad Hoc* Reviewer, Special Emphasis Panel (2012/10 ZRG1 SBIB-J 02 M; Member Conflicts: Surgical Sciences and Bioengineering), Center for Scientific Review, NIH
- 2013 *Ad Hoc* Reviewer, National Heart, Lung, and Blood Institute Special Emphasis Panel, NHLBI Translational Programs in Lung Diseases (ZHL1 CSR-Q (M1)), NIH
- 2013 *Ad Hoc* Reviewer, National Heart, Lung, and Blood Institute Initiative “Mechanisms of HIV-Related Lung Disease: Clinical/Basic Research Centers” (ZHL1 CSR-S(S1)), NIH
- 2014 *Ad Hoc* Reviewer, National Heart, Lung, and Blood Institute Special Emphasis Panel, Resource-Related Research Projects in Lung Diseases (2014/05 ZHL1 CSR-Q (M3) 1), NHLBI, NIH
- 2014 *Ad Hoc* Reviewer, National Heart, Lung, and Blood Program Review Committee, Heart, Lung, and Blood Initial Review Group (2014/05 HLBP 1, Teleconference), NHLBI, NIH
- 2014 *Ad Hoc* Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
- 2014-2015 *Ad Hoc* Member, Vascular Cellular and Molecular Biology (VCMB) Study Section, NIH
- 2015- Member, Vascular Cell and Molecular Biology (VCMB) Study Section, NIH

#### **Other Federal Funding Agencies**

- 1995-1997 *Ad Hoc* Reviewer, Merit Review Grant Applications, Department of Veterans Affairs Medical Center, USA
- 2002-2004 *Ad Hoc* Reviewer, National Science Foundation, USA
- 2003 *Ad Hoc* Reviewer, South Carolina Experimental Program to Stimulate Competitive Research (EPSCoR), The Department of Defense
- 2012 Member, Review Panel of Site Visit of Integrative Cardiac Health Program at Walter Reed Army Institute of Research, American Institute for Biological Sciences and the

Telemedicine and Advanced Technology Research Center (TATRC), The Department of Defense

**American Heart Association (AHA)**

- 1995-1999 Member, Affiliate Study Group F, AHA
- 1996-1999 Member, Research Peer Review Subcommittee, AHA-Maryland Affiliate, Inc.
- 1998-2003 Member, Lung, Resuscitation, and Respiration Study Committee, AHA
- 1999-2002 Abstract Grading Consultant (Category 14: *Ion Channels and Membrane Transporters*), AHA
- 1999-2005 Member-at-Large, Executive Committee (Leadership Committee), Council on Cardiopulmonary and Critical Care, AHA
- 1999-2001 Member, Lung and Cardiorenal Committee, Great America (3A) Affiliate Study Group, AHA
- 2000-2004 Member, Communication Committee of the Council on Cardiopulmonary and Critical Care, AHA
- 2001 Abstract Consultant, Asia Pacific Scientific Forum, AHA
- 2003-2005 Chair, Fellowship Review Committee, Cardiopulmonary and Critical Care Council, AHA
- 2003-2008 Member, Western Review Consortium Committee 5B, AHA-Western States Affiliate
- 2003-2006 Steering Committee Member, Early Career Development Program, AHA
- 2003-2006 Abstract Grading Consultant (Category 04A: *Proliferation, Remodeling, Extracellular Matrix, Apoptosis*), AHA
- 2003-2005 Member, Nominating and Awards Committee, Cardiopulmonary and Critical Care Council, AHA
- 2003-2006 Member, Program Committee, Cardiopulmonary and Critical Care Council, AHA
- 2003-2008 Member, Cournand and Comroe Young Investigator Award Review Committee, Council of Cardiopulmonary Perioperative and Critical Care, AHA
- 2004-2006 Chair, Nominating and Awards Committee, Council of Cardiopulmonary Perioperative and Critical Care, AHA
- 2006-2015 Abstract Grading Consultant (*Pulmonary Circulation, Respiratory Processes, and Lung Injury category*), AHA
- 2010-2014 Member, Research Committee, AHA
- 2010-2012 Member, National Research Program Subcommittee, Research Committee, AHA
- 2010-2011 Member, Established Investigator Award Taskforce, Research Committee, AHA
- 2010 Member, Basic Research Prize Group, Research Committee, AHA
- 2011-2014 Member, Lung - Basic Science & Clinical/Translational Review Panel, AHA
- 2011-2014 Secondary Review Member, Fellow-to-Faculty (FTF) Transition Award Program, AHA
- 2011-2014 AHA Research Committee Representative and Member, Leadership Committee, Cardiopulmonary, Critical Care, Perioperative and Resuscitation (3CPR) Council, AHA
- 2011-2014 Member, Research Response to Open Science Task Force, Research Committee, AHA
- 2012-2013 Co-Chair, Lung - Basic Science & Clinical/Translational Review Panel (Lung BSc1), AHA
- 2012 Chair, Clinical Research Prize Task Force, Research Committee, AHA
- 2012-2014 AHA Research Committee Liaison, Midwest Affiliate Research Committee, American Heart Association Midwest Affiliate

**American Thoracic Society (ATS)**

- 1995-1998 Planning Committee Member, Maryland Thoracic Society, American Lung Association of Maryland
- 2003-2004 Chair, Nominating Committee, Assembly on Pulmonary Circulation, ATS
- 2004- Chair (2004-2006) and Member, Planning Committee, Assembly on Pulmonary Circulation, ATS
- 2004-2008 Member, Executive Committee, Assembly on Pulmonary Circulation, ATS

2005-2006 Member, Outstanding Research in Basic and Translational Biology Organizing Committee, ATS

2005-2008 Member, International Conference Committee, ATS

2005-2011 Chair-elect (2005-2006), Chair (2006-2008) and Member, Program Committee, Assembly on Pulmonary Circulation, ATS

2005-2009 Member, Research Advocacy Committee, ATS

2007-2009 Member, Scientific Advisory Committee, ATS

2008 Member, Grover Conference Planning Committee, Assembly on Pulmonary Circulation, ATS

2009-2011 Member, Nominating Committee, Assembly on Pulmonary Circulation, ATS

2013-2015 Chair, Assembly on Pulmonary Circulation, ATS

2013-2015 Member, Board of Directors, ATS

2013-2015 Member, Board of Directors Documents Review Subcommittee, ATS

2015-2016 Chair, Nominating Committee, Assembly on Pulmonary Circulation, ATS

#### **Foreign Funding Agency and Professional Association**

1995-1998 *Ad Hoc* Reviewer, The Wellcome Trust, London, U.K.

1998-2003 Councilor in Abroad, Chinese Association for Physiological Sciences

1999- Referee, Research Grants Council, University Grants Committee, Hong Kong, China

2001-2003 *Ad Hoc* Reviewer, The Wellcome Trust, London, U.K.

2003- Referee for Grant Application, Tommy's The Baby Charity, London, U.K.

2005- *Ad Hoc* Reviewer, Austrian Science Fund (FWF), Vienna, Austria

2005- *Ad Hoc* Reviewer, British Lung Foundation, London, U.K.

2006- *Ad Hoc* Reviewer, Biotechnology and Biological Sciences Research Council (BBSRC) David Phillips Fellowships, Swindon, U.K.

2006-2014 Member, Department of Life Sciences (Physiology and Pathology Section; 2006-2007); Member, Department of Medicine (Respiratory Disease Section; 2007-2013), National Natural Science Foundation of China (NSFC), Beijing, China

2006- *Ad Hoc* Reviewer, The Wellcome Trust, London, U.K.

2008- *Ad Hoc* Reviewer, Israelis National Science Foundation

2009- *Ad Hoc* Reviewer, Austrian Academy of Sciences, Vienna, Austria

2010- *Ad Hoc* Reviewer, Medical Research Council (MRC) (Population and Systems Medicine Board), London, U.K.

2011- *Ad Hoc* Reviewer, The Netherlands Organisation for Scientific Research (NWO) (Innovational Research Incentives Scheme)

2012- *Ad Hoc* Reviewer, Programme Blanc SVSE1, The French National Research Agency (L'Agence Nationale de la Recherche, ANR)

2012- *Ad Hoc* Reviewer, Marsden Fund, The Royal Society of New Zealand

2012 *Ad Hoc* Member, Advisory Board for the Peer-Reviewing of Research Project, Fondazione Cariplo, Milan, Italy

2012- *Ad Hoc* Reviewer, Medical Research Council (MRC) (Fellowships, FEC Peer Review), London, U.K.

2013 *Ad Hoc* Reviewer, The Research Foundation Flanders (Fonds Wetenschappelijk Onderzoek – Vlaanderen) (FWO), Flanders, Belgium

2013 *Ad Hoc* Reviewer, UK Shared Business Services Ltd., Medical Research Council (MRC), Swindon, UK

2015 Member, College of Reviewers, Canada Research Chairs Program, Government of Canada

#### **Other Advisory Panels and Professional Associations**

1998-2000 Member, Intramural Grant Study Section (Cellular Transport, Metabolism, Physiology & Pharmacology), University of Maryland School of Medicine, Baltimore, MD

- 2002 Reviewer, Peer Review Panel for Cardiovascular Disease, Pennsylvania Department of Health
- 2003-2005 *Ad Hoc* Reviewer, Philip Morris External Research Program
- 2006- *Ad Hoc* Reviewer, Alzheimer's Association (National Office), Chicago, IL
- 2006-2010 Member (2006-08) and Chair (2008-2010), Research Committee, Pulmonary Hypertension Association (PHA)
- 2006- Council of Senior Fellows; Leader, Taskforce of Textbook; Member, Taskforce of High Altitude and Hypoxic Disease; Pulmonary Vascular Research Institute
- 2007-2011 Faculty Member, Respiratory Physiology, Faculty of Biology 1000
- 2007 *Ad Hoc* Reviewer, Research Council, Catholic University of Leuven (KUL), Belgium.
- 2007-2008 Member, Working Group Session 3 (*Inflammation, Growth Factors, and Pulmonary Vascular Remodeling*) and Session 4 (*Cellular & Molecular Basis of PAH*) for the 4<sup>th</sup> WHO World Symposium on Pulmonary Hypertension (February 11-14, 2008).
- 2008 Chair and Organizer, 2008 Grover Conference on the Pulmonary Circulation (*Membrane Receptors, Channels and Transporters in the Pulmonary Circulation: Role in the Development of Pulmonary Vascular Disease*). Lost Valley Ranch in Sedalia, Denver, Colorado (September 3-7, 2008)
- 2008-2010 Member, Research Review Committee, American Lung Association of California
- 2008-2011 Member, Scientific Leadership Advisory Council, Pulmonary Hypertension Association
- 2009 Proposal Reviewer, Scientific Symposium, American Association for the Advancement of Science (AAAS), Washington, D.C.
- 2009 Reviewer of Doctoral Thesis, Justus Liebig University of Giessen, Germany
- 2010 Reviewer of Doctoral Thesis, University of Queensland, Sydney, Australia
- 2012 External Assessor (for Faculty Recruitment), Universiti Sains Malaysia, Pulau Pinang, Malaysia
- 2012- Abstract Reviewer, Basic Research, The American Society for Clinical Investigation (ASCI) and Association of American Physicians (AAP)
- 2013- Abstract Judge, The ASCI/AAP Joint Meeting Poster Session, The American Society for Clinical Investigation (ASCI) and Association of American Physicians (AAP)
- 2015 Advisor, Guggenheim Fellowship Competition, John Simon Guggenheim Memorial Foundation, New York, NY

#### **Industrial Advisory Panels**

- 2010 Member, PAH Novel Targets Advisory Board, Pfizer Pulmonary Vascular Disease Area Team (Jersey City, NY; December, 2010)
- 2011 Member, PAH Novel Targets Advisory Board, Pfizer Pulmonary Vascular Disease Area Team (Hilton Paris Charles de Gaulle Airport, Paris, France; August 26, 2011)
- 2013- Member, Steering Committee, Actelion ENTELLIGENCE<sup>TM</sup> Young Investigator Program, Research Excellence in Pulmonary Hypertension, Actelion Pharmaceuticals US, Inc.
- 2014- Advisor, Cardiopulmonary Franchise Scientific Advisory Council, Bayer HealthCare US Medical Affairs (Whippany, NJ; August 22, 2014)
- 2015 Scientific Committee Member, The 3<sup>rd</sup> Annual US Research Day, Actelion

#### **PROFESSIONAL MEMBERSHIPS:**

- 1987- Member (Councilor in Abroad, 1999-03), Chinese Association for Physiological Sciences
- 1989- Member, American Thoracic Society
- 1989- Regular Member (Fellow, 2000-), The American Physiological Society
- 1990- Member, Biophysical Society
- 1993- Member (Professional Member, 2002-) and Fellow (2003-), American Heart Association
- 1993- Member, American Association for the Advancement of Science (AAAS)



1995- Regular Member, Society of Chinese Bioscientists in America  
 1999- Member, The New York Academy of Sciences  
 2002-2010 Founding Member (Board of Directors, 2002-2005), Sino-American Pharmaceutical and Biotechnology Professional Association, San Diego, California  
 2003- Member (Board of Directors, 2002-2006; Chair of the Public Affair Committee, 2003-2006), The Academy of Cardiovascular Research Excellence  
 2003-2010 Member, California Thoracic Society, Medical Section of the American Lung Association of California  
 2004- Member, Pulmonary Hypertension Association  
 2005- Silver Heart Member, American Heart Association  
 2007- Elected Member, The American Society for Clinical Investigation (ASCI)  
 2007- Fellow, American Association for the Advancement of Science (AAAS)  
 2008 Guggenheim Fellow, John Guggenheim Memorial Foundation, New York  
 2013- Elected Member, Association of American Physicians (AAP)

### **CAMPUS (UNIVERSITY) ACTIVITIES:**

#### **University of Maryland, Baltimore**

1998-1999 School of Medicine Council Representative

#### **University of California, San Diego**

##### ***School of Medicine***

1999-2010 Member, Research Committee (1999-2010); Member, Fellowship Training Executive Committee (2003-2010); Associate Director for Research Training (Basic Science) (2003-2010), Division of Pulmonary and Critical Care Medicine, Department of Medicine  
 1999-2005 Member, Recruitment and Admissions (M.D.) Committee (RAC)  
 1999-2005 Member, MD/PhD Admissions Committee, Medical Scientist Training Program (MSTP)  
 2001-2004 Member, Department of Medicine Committee on Appointments and Promotions (DOMCAP)  
 2002-2005 Chair, Progress in the Science of Medicine (PRISM) Lecture Selection Committee, Department of Medicine  
 2003-2010 Member, Space Committee, Department of Medicine  
 2003-2005 Member, Health Sciences Subcommittee on Research  
 2003 Chair, *Ad-hoc* Merit and Promotion Committee of DOMCAP, Department of Medicine  
 2004-2010 Member, The Sam and Rose Stein Institute for Research on Aging  
 2004-2006 Member, Biomedical Sciences (Ph.D.) Admissions and Recruitment Committee  
 2006-2010 Chair, Space Committee, Department of Medicine  
 2006-2010 Member, Graduate Programs Education Committee (GPEC)  
 2007-2010 Chair, *Ad-hoc* Merit and Promotion Committee, Department of Medicine  
 2007-2010 Member (2007-2010) and Vice Chair (2009-2010), Health Sciences Committee on Planning and Budget  
 2008 Chair, Search Committee for Biomedical Informatics Faculty, Department of Medicine  
 2008-2010 Member, Research Council  
 2008-2010 Member, Membership Committee, Biomedical Sciences (Ph.D.) Graduate Program

#### **University of California, San Diego**

2004-2006 Member, Academic Senate Committee on Academic Personnel (CAP)  
 2006-2009 Vice Chair (2006-2008) and Chair (2008-2009), Academic Senate Committee on Privilege & Tenure (CPT)  
 2007-2008 Member, Academic Senate Planning and Budget Subcommittee on Campus Budget  
 2007-2008 Member, Academic Senate “Shadow” CAP (Committee on Academic Personnel)  
 2008-2010 Member, Academic Senate Committee on Committees

2008-2009 Member, Senate Council  
2008-2009 Member, Senate-Administration Council  
2008-2009 Member, Representative Assembly  
2008-2010 Faculty and Advisor, Institute of Engineering in Medicine  
2009-2010 Elected Representative, Representative Assembly  
2009-2010 Member, Clinical and Translational Research Institute Building – Building Advisory Committee (BAC)

**University of California System (Oakland, CA)**

2008-2009 Member, University Committee on Privilege & Tenure (UCPT)  
2009-2010 Divisional Representative to Assembly of the Academic Senate

**University of Illinois at Chicago**

2011 Member, Vice Chancellor for Research Imaging Task Force

**University of Illinois at Chicago**

***College of Medicine***

2010-2014 Member, Jr. Faculty Development Committee, Department of Medicine  
2010-2014 Fellow Mentor and Advisor, Department of Pediatrics  
2011-2014 Associate Member of the Graduate Faculty  
2011 Chair, Search Committee for Stem Cell and Regenerative Medicine Faculty, Department of Pharmacology  
2011-2014 Member, MD/PhD Admissions Committee, Medical Scientist Training Program (MSTP)  
2011-2014 Member (and Director of the Program in Pulmonary Vascular Disease and Right Heart Function), Center for Cardiovascular Research  
2012-2014 Member, UICentre Central Committee  
2012-2014 *Ad Hoc* Reviewer, Chancellor's Graduate Research Fellowship

**The University of Arizona**

2014- Chair, Advisory Committee for Career Development Award at the University of Arizona Health Sciences (UAHS)  
2014-2015 Member, Neuroscience Search Committee (for Director of the Center for Innovation in Brain Science), UAHS  
2014-2015 Member, Five-Year Review Panel (for Dean of the UA College of Medicine-Phoenix), UAHS  
2015- Member, Quality Brainstorming Research Group, the Faculty Senate and the Executive Office of the President of the UA  
2016- Member, Space Committee, The University of Arizona Health Sciences (UAHS)  
2016 Member, Review Committee, Multidisciplinary Program Feasibility Award Program, UAHS

**The University of Arizona**

***College of Medicine - Tucson***

2014-2015 Member, Founders Day Speaker Selection Committee, College of Medicine, Tucson  
2015-2016 Member, Search Committee, Department of Medicine, College of Medicine (for Chief, Division of Endocrinology and Director, Center for Diabetes Research)  
2015- Member, Space Committee, Department of Medicine, College of Medicine  
2016- Member, Internal Advisory Council, AZ-PRIDE Health Disparities Research Program (Arizona Program to Increase Diversity among Individuals Engaged in Health-Related Research)

**The University of Arizona**

***College of Medicine - Phoenix***

- 2015- Member, Translational Neurosciences Chair Search Committee (for Chair, Department of Translational Neurosciences at College of Medicine – Phoenix)
- 2016- Member, Associate Dean for Research Search Committee
- 2016- Member, Interdisciplinary Oncology Chair Search Committee (for Chair, Department of Interdisciplinary Oncology at College of Medicine – Phoenix)

**TEACHING ACTIVITIES:**

- 1995-1996 High School Science Teacher Host Investigator (for Judith Kuhl), The American Physiological Society
- 1996-1999 Associate Faculty Member, University of Maryland Graduate School, Baltimore, MD
- 1997-1999 Adjunct Faculty Member, Doctoral Program in Membrane Biology, University of Maryland Graduate School, Baltimore, MD
- 1997-1999 Affiliate Faculty (1997-1998) and Full (1998-1999) Member, Interdisciplinary Ph.D. Training Program in Muscle Biology, University of Maryland Graduate School, Baltimore, MD
- 1999-2010 Associate Member (1999-2002) and Regular Member (2002-2010), Biomedical Sciences Ph.D. Training Program, University of California, San Diego (UCSD), CA
- 2002-2010 Faculty Advisor (Classes of 2005-2013), School of Medicine, UCSD
- 2002-2010 Faculty Mentor Program (Presider, Research Symposium, 2003-2010), UCSD
- 2002-2007 Minor Proposition Committee Member (*Ad Hoc* Examination Committee Chair, 2002-2007; Vice Chair, 2003-2007), Biomedical Sciences Ph.D. Training Program, UCSD
- 2002-2010 Ph.D. Thesis (Major) Committee Member, Biomedical Sciences Ph.D. Training Program, UCSD
- 2002-2010 Howard Hughes Undergraduate Science Enrichment Program, UCSD
- 2004-2010 Faculty Mentor, MST Summer Undergraduate Research Fellowship Program, UCSD
- 2005-2010 SURF (Summer Undergraduate Research Fellowship) Selection Committee, UCSD
- 2005 High School Science Teacher Host Investigator (for Laura Noonan; declined), The American Physiological Society
- 2008-2010 Member, Research Proposition Committee and Qualifying Exam Committee, Biomedical Sciences Ph.D. Training Program, UCSD
- 2010-2014 Member, Pharmacological Science Ph.D. Training Program, University of Illinois at Chicago, Chicago, IL
- 2014- Member, Graduate Interdisciplinary Program in Physiological Sciences, The University of Arizona, Tucson, AZ

**Course Organizer/Master**

- 1997-1999 Section Head, *Respiratory Function, Medical Physiology* (MPHY 501/MPHY 601) (Medical and graduate medical students), University of Maryland School of Medicine, Baltimore, MD
- 2007-2010 Course Director, *At the Crossroads: Science Meets the Medical Patient* (MED 275) (Med-into-Grad Program, Howard Hughes Medical Institute) (Graduate students; 16 hours/year), University of California, San Diego, CA
- 2008-2010 Course Master, *Medical Chinese* (MED 253) (Medical and pharmacy students; 8.5 hours/year), School of Medicine, UCSD

**Course Lecturer/Facilitator**

- 1987-1988 Lecturer, *Cardiovascular Physiology* (30-35 medical and graduate students), Department of Physiology, Faculty of Basic Medicine, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing, China
- 1994 Facilitator, *Medical Physiology and Neuroscience: Problem-Based Learning* (Medical students; 25 hours/year), University of Maryland School of Medicine, Baltimore, MD

- 1996-1999 Lecturer, *Respiratory Function, Medical Physiology* (MPHY 501/MPHY 601) (Medical and graduate students; 8 hours/year), University of Maryland School of Medicine, Baltimore, MD
- 1996-1999 Lecturer, Smooth Muscle Pharmacology and Electrophysiology, *Muscle: Contractility & Excitation-Contraction Coupling* (MBIC 714/MPHY 714) (Graduate students; 15 hours/year), University of Maryland School of Medicine, Baltimore, MD
- 1999-2010 Lecturer, *Pulmonary Vascular Physiology, Clinical Lung Physiology and Biology* (MED 435) (Pulmonary fellows; 6 hours/year), School of Medicine, UCSD
- 1999-2010 Facilitator, *Organ Physiology; Respiration Conference and Laboratory* (SOMC 206, 206L) (Medical students; 6 hours/year), School of Medicine, University of California, San Diego (UCSD)
- 2000-2006 Lecturer, *Molecular and Modern Methodologies in Physiological Sciences* (BIOM 250/RM 250/MED 252) (Graduate students; 3 hours/year), UCSD
- 2000-2006 Lecturer, *Systemic Physiology* (BMS 213); *General Physiology and Cell Function* (Graduate students; 8 hours/year), UCSD
- 2001-2003 Lecturer, *Translational Research on Hypertension* (BILD 90, SE D00) (Undergraduate students; 10 hours/year), UCSD
- 2003-2008 Lecturer, Actelion Postgraduate Course; *Pathogenesis of Pulmonary Hypertension* (Physicians from various countries; 1.5 hours/year), School of Medicine, UCSD
- 2006-2010 Lecturer (2006-2010) and Section Leader (2008-2010), *Drugs and Disease: The Pathological and Molecular Bases for Disease and Drug Therapy* (BIOM 255); *Vascular Disease: Hypertension and Atherosclerosis* (Graduate students; 4 hours/year), UCSD
- 2007-2010 Lecturer and Facilitator, *Seminar in Biomedical Research* (BIOM 201) (Graduate students; 11 hours/year), UCSD
- 2007-2010 Lecturer, *At the Crossroads: Science Meets the Medical Patient* (MED 275) (Med-into-Grad Program, Howard Hughes Medical Institute); *Idiopathic and Thromboembolic Pulmonary Hypertension: Receptor signaling and transcription factors in Pathogenesis* (Graduate students; 16 hours/year), UCSD
- 2007-2010 Lecturer, *Medical Chinese* (MED 253) (Medical and pharmacy students; 8.5 hours/year), School of Medicine, UCSD
- 2010-2014 Lecturer, *Biology and Pharmacology of the Lung* (PCOL 550) (Graduate students and postdoctoral fellows; 2.0 hours/year), College of Medicine, University of Illinois at Chicago (UIC)
- 2010-2014 Lecturer, *Stem Cells* (PHYB 530) (Graduate students and postdoctoral fellows; 2.0 hours/year), College of Medicine, UIC
- 2012-2014 Lecturer, *Medical Pharmacology* (PCOL 501) (Medical students; 2.0 hours/year), College of Medicine, UIC
- 2012-2014 Lecturer, *Pharmacology for Dentistry* (PCOL 331) (Dental students; 2.0 hours/year), College of Dentistry, UIC
- 2012-2014 Lecturer, *Ion Channels: Structure, Physiology, Pharmacology, and Channelopathies* (PCOL 540/PHYB 540) (Graduate students and postdoctoral fellows; 6.0 hours/year), College of Medicine, UIC
- 2012-2014 Lecturer, *Pharmacology and Biology of the Vessel Wall* (PCOL 530) (Graduate and medical students; 2.0 hours/year), College of Medicine, UIC
- 2012-2014 Lecturer, *Cardiovascular Pathophysiology* (PHYB 518) (Graduate students and postdoctoral fellows; 4.0 hours/year), College of Medicine, UIC

## Graduate Students

### Research Rotation

- 2001 Ilona A. Barash [B.S., 1998, University of Washington; MD/PhD Student, *Biomedical Science Graduate Program (BMSGP)*, University of California, San Diego (UCSD)]

- 2003 Elyssa D. Burg (B.S., Northwestern University; PhD Student, *BMSGP*, UCSD)  
 2004 Katherine Wilkinson (B.S., University of Pittsburgh; PhD Student, *BMSGP*, UCSD)  
 2006 Michael Y. Song (B.S., University of Michigan; PhD Student, *BMSGP*, UCSD)  
 2006 Tuguang Kuang, (M.D., Xian Medical University, China; Ph.D., Capital Medical University, Beijing, China)  
 2007 Frederique Mies (Ph.D. Student, Free University of Brussels, Belgium)  
 2008 Amanda White (B.S., Trenton State College; PhD Student, *BMSGP*, UCSD)  
 2010 Ruby A. Fernandez [PhD Student, *Pharmacology Graduate Program*, University of Illinois at Chicago (UIC)]  
 2011 Mary V. Maliakal (PhD Student, *Pharmacology Graduate Program*, UIC)  
 2012 Zheng Hsu (PhD Student, *Anatomy and Cell Biology Graduate Program*, UIC)  
 2013 Joshua Jones (MD/PhD Student, *Medical Scientist Training Program*, UIC)  
 2013 Victoria Meissner (PhD Student, *Microbiology & Immunology Graduate Program*, UIC)  
 2013 Kerrie Collins (PhD Student, *Pharmacology Graduate Program*, UIC)  
 2014 Laura Jiménez-Pérez (Ph.D. Student, Departamento de Bioquímica y Biología Molecular y Fisiología, Universidad del Valladolid, Valladolid, Spain)  
 2014-2015 Madeline Espeira [MS Student, *Physiological Sciences Graduate Program*, The University of Arizona (UA)]  
 2014-2015 Sujana Vinjamuri (MS Student, *Physiological Sciences Graduate Program*, UA)  
 2015-2016 Heather Lynn (PhD Student, *Graduate Interdisciplinary Program in Physiological Sciences*, UA)  
 2016- Magdalena Kedzior (PhD Student, *Pharmacology and Toxicology PhD Program*, UA College of Pharmacy)

#### *Major Thesis Committee*

- 2002-2005 Zhen Li (Ph.D., 2005; Adviser: S.A. Lipton, *Molecular Pathology Graduate Program*, The Burnham Institute and UCSD)  
 2004-2007 Sara Epperson [Ph.D., 2007; Advisers: F. Villereal and L. Brunton, *Biomedical Sciences Graduate Program (BMSGP)*, UCSD].  
 2005-2010 Alfred E. Chappell (Ph.D., 2010; Adviser: K.E. Barrett, *BMSGP*, UCSD).  
 2005-2007 Ian Lian (Ph.D., 2007; Advisers: L.A. Sun and S. Chien, *Bioengineering Graduate Program*, UCSD).  
 2005-2010 Leona Flores (Ph.D., expected 2011; Adviser: S. Chien, *BMSGP*, UCSD).  
 2006-2008 Benjamin Sachs (Ph.D., 2008; Adviser: K. Akassoglou, *BMSGP*, UCSD).  
 2006-2007 Dorothy A. Dederko (M.S., 2007; Adviser: W. Giles, *Bioengineering Graduate Program*, UCSD).  
 2007-2009 Katherine Wilkinson (Ph.D., 2009; Adviser: F. Powell, *BMSGP*, UCSD)  
 2008-2012 Daniel Pope, (Ph.D., expected 2012; M.D., expected 2012; Adviser: F. Powell, *BMSGP*, UCSD)  
 2008-2009 Dinesh K. Hirehallur-S (Ph.D., 2009; Adviser: N.J. Rusch, *Pharmacology Graduate Program*, University of Arkansas for Medical Sciences, Little Rock, AR)  
 2008-2011 DeeAnn W. Visk (Ph.D., 2011; Adviser: G. Haddad, *Biology Graduate Program*, UCSD)  
 2009-2010 Emily A. Witham (Ph.D., 2012; Adviser: P. Mellon, *BMSGP*, UCSD)  
 2012-2014 Melissa Geyer (Ph.D., expected 2015; Adviser: Y. Komarova, *Pharmacology Graduate Program*, UIC)  
 2012-2014 Yuka Shimizu (Ph.D., 2014; Adviser: J.G.N. Garcia, *Biochemistry and Molecular Genetics Graduate Program*, UIC)  
 2012 Wei Shen (M.S., 2012; Adviser: J. Cheng, *Bioengineering Graduate Program*, UIC).  
 2012-2015 Neil Detweiler (Ph.D., expected 2015; Adviser: N.J. Rusch, *Pharmacology Graduate Program*, University of Arkansas for Medical Sciences, Little Rock, AR)  
 2013 Chi Bang (Ph.D., 2013; Adviser: J. Cheng, *Bioengineering Graduate Program*, UIC).

- 2013- Alicia Rizzo (M.D., expected 2018; Ph.D., expected 2016; Advisers: J.G.N. Garcia/Steven Dudek, *Medical Scientist Training Program*, UIC)
- 2013- Venkat Elagovan (Ph.D., expected 2016; Adviser: J.G.N. Garcia, *Pharmacology Graduate Program*, UIC)
- 2013-2014 Diana Zabini (Ph.D., 2013; Adviser: A. Olschewski, *Lung Vascular Research Graduate Program*, Medical University of Graz, Graz, Austria)

#### *Thesis Advisor*

- 2002-2004 Tiffany T. Sison, B.S., M.S. (B.S./M.S., University of California, San Diego). *Currently*: Resident, Department of Neurology, University of South Florida, Tampa, FL
- 2001-2004 Ivana Fantozzi, Ph.D. (Ph.D., 2004, Universite De Nice-Sophia Antipolis, France). *Currently*: Postdoctoral Fellow, National Center of Scientific Research, Nice, France
- 2004-2006 Negin Agange, B.S., M.S. (B.S./M.S., 2006, University of California, San Diego; M.D., 2011, University of California, Irvine, CA). *Currently*: Resident, Department of Ophthalmology, University of Texas, San Antonio, TX
- 2004-2009 Elyssa D. Burg (Ph.D., 2009, University of California, San Diego). *Currently*: Postdoctoral Fellow, National Institutes of Health, Bethesda, MD
- 2007-2011 Michael Y. Song (Ph.D., 2011, University of California, San Diego). *Currently*: Resident, Scripps Medical Center, San Diego, CA
- 2010-2014 Ruby A. Fernandez (Ph.D., 2014, University of Illinois at Chicago). *Currently*: Postdoctoral Research Fellow, The University of Arizona (UA), Tucson, AZ
- 2013-2014 Victoria Meissner (PhD Student, *Microbiology & Immunology Graduate Program*, UIC)
- 2013-2014 Kerrie Collins (PhD Student, *Pharmacology Graduate Program*, UIC)
- 2014- Madeline Espineira (MS Student, *Physiological Sciences Graduate Program*, UA)
- 2014-2016 Sujana Vinjamuri (MS, 2016, UA)
- 2016- Magdalena Kedzior (PhD, expected 2020, *Pharmacology and Toxicology PhD Program*, UA)

#### **Postdoctoral Research Fellows**

##### *Research Mentor/Supervisor*

- 1993-1996 Rose T. Bright, M.D. (M.D., 1990, University of Miami School of Medicine; Internship and Residency, 1990-1993, University of Maryland School of Medicine, Baltimore, MD). *Currently*: Pulmonary Physician, TTC Medical Associates, Tarpon Springs, FL
- 1994-1996 Yiju Zhao, M.D., Ph.D. (M.D., 1982, Zhejiang Medical University, China; Ph.D., 1989, Peking Union Medical College, China; Postdoctoral Fellow, 1993-94, Medical College of Wisconsin, Milwaukee, WI). *Currently*: Professor and Deputy Director, Department of Cardiology, Cardiovascular Institute, Chinese Academy of Medical Sciences, Beijing, China
- 1996-1998 Jian Wang, M.D. (M.D., 1985; Internship and Residency, 1986-88, Inner Mongolia Medical College, China; Postdoctoral Fellow, 1995-96, University of Oxford, U.K.). *Currently*: Assistant Professor, Johns Hopkins University School of Medicine, Baltimore, MD; Professor, Guangzhou Medical College, Guangzhou, China
- 1997-1999 Alan E. Bakst, M.D. (M.D., 1990; Internship and Residency, 1991-93, University of Witwatersrand, Johannesburg, South Africa; Residency, 1994-97, Albert Einstein Medical Center, New York, NY)
- 1998-1999 Cynthia A. Soriano, M.D. (B.A., 1990, University of California, Berkeley; M.D., 1994; Internship and Residency, 1995-96, University of Maryland School of Medicine, Baltimore)
- 1998-1999 Eric A. Weiner, M.D. (B.S., 1989, University of Michigan; M.D., 1993, University of Colorado School of Medicine, Denver, CO; Internship and Residency, 1993-96, Medical College of Virginia, Richmond, VA)

- 1998-2010 Oleksandr (Alex) Platoshyn, M.S. (M.S., Shevchenko National University, Kiev, Ukraine; Visiting Scientist, 1996-97, Hungarian Academy of Science, Budapest, Hungary). *Currently*: Research Associate, University of California, San Diego, CA
- 1999-2000 Colleen L. Bailey, M.D. (B.S., B.A., 1991, University of California, San Diego; M.D., 1996, Harvard Medical School, Boston, MA; Internship and Residency, 1996-1999, University of California, San Diego, CA). *Currently*: Assistant Professor, Harvard Medical School and Massachusetts General Hospital, Boston, MA
- 1999-2000 Daryoush Ekhterae, Ph.D. (B.Sc., 1982, George Washington University; Ph.D., 1990, University of Minnesota; Postdoctoral Fellow, 1996-1999, University of Michigan, Ann Arbor). *Currently*: Assistant Professor, University of Pennsylvania School of Medicine, Philadelphia, PA
- 1999-2000 Alisa Limsuwan, M.D. (M.D., 1992, Chulalongkorn University, Bangkok, Thailand; Internship and Residency, 1994-1997, Michigan State University). *Currently*: Professor, Department of Pediatrics (Pediatric Cardiology), Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- 1999-2001 Nick H. Kim, M.D. (A.B., 1989, Harvard University; M.D., 1994, University of Chicago Pritzker School of Medicine; Internship and Residency, 1994-1998, University of California, San Francisco School of Medicine and University of Chicago Pritzker School of Medicine). *Currently*: Professor, University of California, San Diego, CA
- 1999-2001 Michele A. Sweeney, Ph.D. (B.S., 1994; Ph.D., 1999, University College Dublin, Ireland). *Currently*: Research Associate, Newcastle University Faculty of Medical Sciences, U.K.
- 1999-2005 Ying Yu, M.D., Ph.D. (M.D., 1990, Suzhou Medical College, China; Ph.D., 1999, Showa University School of Medicine, Tokyo, Japan). *Currently*: Senior Scientist, Alcon Laboratories Inc., Fort Worth, TX.
- 2001-2003 Ivana Fantozzi, Ph.D. (Ph.D., 1999, University of Rome, Italy; Ph.D., 2004, Université De Nice-Sophia Antipolis, France). *Currently*: Postdoctoral Fellow, National Center of Scientific Research at the Center Antoine Lacassagne, Nice, France.
- 2001-2005 Shen Zhang, M.D., Ph.D. (M.D., 1994, Gansu College of Traditional Chinese Medicine, Lanzhou, China; Ph.D., 2001, Kyoto University, Kyoto, Japan).
- 2001-2005 Mehran Mandegar, M.D. (B.S., 1992, University of California, Los Angeles; M.D., 1996, University of Rochester; Internship and Residency, 1997-2000, University of Southern California at Los Angeles (Internal Medicine) and University of Rochester, New York (General Surgery). *Currently*: Attending Physician, Grossmont Hospital, San Diego, CA
- 2001-2009 Carmelle V. Remillard, Ph.D. (B.Sc. 1992, University of Manitoba, Winnipeg, Canada; M.Sc., 1995; Ph.D., 2001, University of Montréal, Montréal, Canada). *Currently*: Manager, Scientific Web Content, Scripps Translational Science Institute (STSI), San Diego, CA
- 2002-2004 Elena E. Brevnova, Ph.D. (M.S., 1994, Moscow Institute of Engineering Physics, Moscow, Russia; Ph.D., 1998, Institute of Genetics, Moscow, Russia; Postdoctoral Fellow, 2000-2002, Stanford University School of Medicine, Stanford, CA). *Currently*: Senior Scientist and Team Leader, Mascoma Corporation, Lebanon, NH
- 2002-2004 Donna T. Tigno, M.D. (B.A., 1991, University of California, Berkeley; M.D., 1996, University of California, Davis; Internship and Residency, 1996-2001, University of California, San Francisco) (General Surgery and Internal Medicine). *Currently*: Pulmonary Physician, Bay Area Pulmonary Associates, Oakland, CA
- 2002-2004 Naomi Kunichika, M.D. (M.D., 1990, Okayama University Medical School, Okayama, Japan; Residency, 1991-1994, Okayama University Hospital; Senior Resident, 1994-1996, National Sanyo Hospital, Ube, Japan). *Currently*: Chief, Division of Pulmonology; Director, Department of Internal Medicine, Yamaguchi Red Cross Hospital, Yamaguchi, Japan

- 2002-2006 Judd W. Landsberg, M.D. (B.A., 1992, University of Southern California, Los Angeles; M.D., 1996, Yale University School of Medicine, New Haven, CT; Internship and Residency, 1996-2000, Yale-New Haven Hospital, New Haven, CT). *Currently*: Associate Professor, Department of Medicine, University of California, San Diego, CA; Director, Medical Intensive Care, VA San Diego Health Science (VASDHA).
- 2003-2005 Joseph R.H. Mauban, Ph.D. (B.A., 1996, Cornell University, Ithaca, NY; M.S., 1997; Ph.D., 2004, University of Maryland, Baltimore). *Currently*: Research Associate, University of Maryland School of Medicine, Baltimore, MD
- 2005-2006 Minlin Xu, M.D. (M.D., 1986; M.S., 1992, Zhejiang University College of Medicine, Hangzhou, China; Internship, 1985-1986, Peking Union Medical College, Beijing, China; Residency, 1986-1988, Zhejiang University College of Medicine, Hangzhou, China). *Currently*: Research Associate, University of California, Los Angeles, CA
- 2005-2007 Eun A. Ko, Ph.D. (B.Sc., 1998, M.Sc., 2000, Cheju National University, Korea; Ph.D., 2004, Seoul National University College of Medicine, Korea; Postdoctoral Fellow, 2004-2005, Clinical Research Institute of Montréal, Canada). *Currently*: Research Assistant Professor, University of Ulsan College of Medicine, Seoul, South Korea
- 2006-2009 Aiko Ogawa, M.D., Ph.D. (M.D., 1998, Okayama University Medical School, Okayama, Japan; Ph.D., 2005, Okayama University Graduate School of Medicine and Dentistry, Okayama, Japan). *Currently*: Assistant Professor, Okayama University Graduate School of Medicine and Dentistry, Okayama, Japan
- 2006-2008 Richard S. Sacks, M.D. (M.D., 1996; Internship, 1997-1998, University of Cape Town Medical School, South Africa; Residency, 2001-2004; Chief Resident, 2004-2005; Albert Einstein School of Medicine, New York, NY)
- 2007-2008 Weijuan Yao, Ph.D. (Ph.D., 2002, Peking University; Postdoctoral Fellow, 2002-2006, University of California, San Diego). *Currently*: Associate Professor, Peking University, Beijing, China
- 2007-2009 Amy L. Firth, Ph.D. (M. Pharmacol., 2003, Novartis Pharmaceuticals, Basel, Switzerland; Ph.D., 2006, University of Bath, UK). *Currently*: Assistant Professor, University of Southern California, Los Angeles, CA
- 2010-2011 Hisao Yamamura, Ph.D. (B.S., 1997; M.S., 1999; Ph.D., 2002; Postdoctoral Fellowship, 2002-2005, Nagoya City University, Nagoya, Japan; Research Associate, 2005-2009, Nagoya City University). *Currently*: Associate Professor, Nagoya City University, Nagoya, Japan
- 2010-2012 Eun A. Ko, Ph.D. (B.Sc., 1998, M.Sc., 2000, Cheju National University, Korea; Ph.D., 2004, Seoul National University College of Medicine, Korea; Postdoctoral Fellow, 2004-2005, Clinical Research Institute of Montréal, Canada) *Currently*: Research Assistant Professor, University of Nevada, Reno, NE
- 2010-2012 Hae Young Yoo, Ph.D. (B.S., 2000, M.S., 2004, Yonsei University, Korea; Ph.D., 2010, Seoul National University, Korea)
- 2011-2012 Aya Yamamura (Hotta), Ph.D. (B.S., 2001, Meijo University, Japan; M.S., 2003, Ph.D., 2007, Nagoya City University, Japan). *Currently*: Assistant Professor, School of Pharmacy, Kinjo Gakuin University, Nagoya, Japan.
- 2010-2012 Frank K. Kuhr, Ph.D. (B.B.A., 1998, St. Norbert College, De Pere, Wisconsin; Ph.D., 2010, University of Illinois at Chicago). *Currently*: Director, Medical Affairs, North America at Qiagen.
- 2011-2012 Qiang (Jerry) Guo, M.D. (M.D., 2001, Nanjing Medical University, China; M.S., 2007, Ph.D. candidate, 2010-, Soochow University College of Medicine, China). *Currently*: Associate Professor and Vice Chair, Soochow University, Suzhou, China.
- 2011-2012 Jun (Bruce) Wan, M.D., Ph.D. (M.D., 1998, Jiangxi Medical College, Nanchang, China; M.S., 2004, Jiangxi Medical College, Nanchang, China; Ph.D., 2010, Capital Medical



- University, Beijing, China). *Currently*: Associate Professor, Capital Medical University, Beijing, China.
- 2010-2013 Adriana M. Zimmnicka, Ph.D. (B.S./B.A., 2000, University of Illinois at Chicago, Chicago, IL; Ph.D., 2009, University of Illinois at Chicago). *Currently*: Research Associate, University of Illinois at Chicago.
- 2011-2012 Guillaume Voiriot, M.D. (M.S., 2008, University of Paris XII; M.D., 2010, University of Paris VI; Ph.D., 2014, University of Paris XII, Paris, France). *Currently*: Assistant Professor, Bichat-Claude Bernard Hospital, Paris, France.
- 2011-2014 Nicole M. Pohl, Ph.D. (B.S., 2002, University of Potsdam, Germany; Ph.D., 2008, Medical College of Wisconsin, Milwaukee, WI; Postdoctoral Fellow, 2008-2010, University of Illinois at Chicago). *Currently*: Instructor, University of Illinois at Chicago.
- 2011-2014 Kimberly A. Smith, Ph.D. (B.A., 2001, Illinois Wesleyan University, Bloomington, IL; M.S., 2003, Southern Illinois University, Carbondale, IL; Ph.D., 2011, Northwestern University, Chicago, IL). *Currently*: Research Associate, Northwestern University, Chicago, IL.
- 2012-2013 Premanand Sundivakkam, Ph.D. (B.S., 1996; M.S., 1998, University of Madras, India; Ph.D., 2007, Medical University at Chennai, India; Postdoctoral Fellowship, 2007-2012, University of Illinois at Chicago). *Currently*: Research Assistant Professor, University of Illinois at Chicago, Chicago, IL
- 2012-2014 Dustin R. Fraidenburg, M.D. (B.S., 2005, Michigan State University, East Lansing, MI; M.D., 2009, Wayne State University, Detroit, MI; Residency, 2009-2012, University of Illinois at Chicago, Chicago, IL)
- 2012-2014 Haiyang Tang, Ph.D. (B.S., 1999, Northwest A & F University, Shanxi, China; M.S., 2003, Ph.D., 2008, Chinese Academy of Sciences, Beijing, China; Postdoctoral Fellowship, 2009-2012, University of Illinois at Chicago). *Currently*: Research Assistant Professor, The University of Arizona, Tucson, AZ
- 2014-2015 Ruby A. Fernandez, Ph.D. (B.S., 2010, University of California, Irvine, CA; Ph.D., 2014, University of Illinois at Chicago, Chicago, IL). *Currently*: Sr. Research Associate, Peregrine Pharmaceuticals, Tustin, CA
- 2012- Shanshan Song, M.D., Ph.D. (M.D., 2007, Harbin Medical University, Harbin, China; M.S., 2009, Ph.D., 2012, Huazhong Science and Technology University, Wuhan, China)
- 2012- Ramon J. Ayon, Ph.D. (A.A., 2004, San Joaquin Delta College, Stockton, CA; B.S., 2005; Ph.D., 2012, University of Nevada, Reno, NE)
- 2014- Aleksandra Babicheva, Ph.D. (B.S., 2006; M.S., 2006; Ph.D., 2010, Astrakhan State Technical University, Astrakhan, Russia)

#### **Honors, Awards and Grants to Laboratory Trainees**

- 1998 Alan E. Bakst, MD, Postdoctoral Fellowship, American Lung Association of Maryland
- 2002 Mehran Mandegar, MD, Postdoctoral Fellowship, American Lung Association
- 2003 Judd W. Landsberg, MD, Postdoctoral Fellowship, American Lung Association
- 2003 Ying Yu, MD, PhD, Postdoctoral Fellowship Award, Pulmonary Hypertension Association
- 2003 Elena B. Brevnova, PhD, Finalist, Cournand & Comroe Young Investigator Award, American Heart Association
- 2004 Donna Tigno, MD, American Lung Association Fellowship Award (declined)
- 2004 Elyssa D. Burg, BS, PhD, Honorable Mention, National Science Foundation Predoctoral Fellowship
- 2005 Ying Yu, MD, PhD, American Heart Association Scientist Development Award
- 2006 Ying Yu, MD, PhD, Best Abstract Award in Cardiopulmonary & Critical Care Medicine, American Heart Association

- 2007 Amy L. Firth, PhD, California Institute for Regenerative Medicine (CIRM) Postdoctoral Training Fellowship
- 2007 Elyssa D. Burg, BS, PhD, American Heart Association Western States Affiliate Predoctoral Fellowship
- 2007 Elyssa D. Burg, BS, PhD, Physiologist Bursary, The Physiological Society (UK), Life Sciences, 2007
- 2008 Amy L. Firth, PhD, Travel Award, British Pharmacological Society
- 2008 Weijuan Yao, PhD, Young Investigator Prize, CTEPH Symposium, Austrian Academy of Science, Vienna, Austria
- 2009 Amy L. Firth, PhD, Finalist, Cournand & Comroe Young Investigator Prize, American Heart Association
- 2011 Aiko Ogawa, MD, PhD, Best Abstract Award, International Scientific & Educational Workshop in CTEPH, The Association for Research in CTEPH, University of Cambridge, Cambridge, UK
- 2012 Kimberly A. Smith, PhD, Finalist, Cournand & Comroe Young Investigator Prize, American Heart Association
- 2012 Ramon J. Ayon, PhD, FASEB MARC Program Travel Award, Federation of American Societies for Experimental Biology
- 2012 Ruby A. Fernandez, BS, PhD, CCTS Pre-doctoral Translational Research Program Award, University of Illinois at Chicago
- 2013 Kimberly A. Smith, PhD, Postdoctoral Fellowship, American Heart Association Midwest Affiliate
- 2013 Haiyang Tang, PhD, 2013 CSCR Trainee Travel Award, Central Society for Clinical and Translational Research
- 2013 Julie Eisenberg, MD, Craig Fellowship, University of Illinois College of Medicine
- 2013 Dustin R. Fraidenburg, MD, Junior Investigator Travel Award, American Heart Association, Dallas, TX
- 2013 Ruby A. Fernandez, BS, PhD, Junior Investigator Travel Award, American Heart Association, Dallas, TX
- 2014 Ruby A. Fernandez, BS, PhD, Science Research Conference Travel Award, Federation of American Societies for Experimental Biology (FASEB), Bethesda, MD
- 2014 Dustin R. Fraidenburg, MD, ATS Abstract Scholarship Award, American Thoracic Society
- 2015 Yali Gu, BS, RN, Trainee Travel Award, Central Society for Clinical and Translational Research
- 2015 Qing Gu, MD, Trainee Travel Award, Central Society for Clinical and Translational Research
- 2015 Haiyang Tang, PhD, Oral Abstract Award and Scholar's Program Award, Central Society for Clinical and Translational Research and Midwestern Section of the American Federation for Medical Research
- 2016 Haiyang Tang, PhD, ENTELLIGENCE Young Investigator Program Award, Actelion Pharmaceuticals US

#### **EDITORIAL TASKS:**

##### **Editor and Associate Editor**

- 2008- Associate Editor, *American Journal of Physiology Cell Physiology*
- 2010- Editor-in-Chief, *Pulmonary Circulation*
- 2014- Deputy Editor, *American Journal of Physiology Cell Physiology*

##### **Editorial Board**

- 2000-2010 Editorial Board Member, *Respiratory Research*

- 2003- Editorial Board Member, *American Journal of Physiology Lung Cellular and Molecular Physiology*
- 2011- Editorial Board Member (Oversea), *Acta Physiologica Sinica*
- 2011- Editorial Board Member (Oversea), *Translational Medicine Research*
- 2011- Editorial Board Member, *American Journal of Physiology Heart and Circulatory Physiology*
- 2012- Editorial Board Member, *Circulation Research*
- 2014- Editorial Board Member, *American Journal of Respiratory and Critical Care Medicine*

## **MAJOR INVITED LECTURESHIPS, SEMINARS AND PRESENTATIONS:**

### **National and International Conferences**

#### ***National***

- 1992 Invited Speaker, Maryland Thoracic Society Scientific Session and Annual Meeting, Baltimore, Maryland (March 8, 1992)
- 1997 Invited Speaker, Symposium on Oxygen Sensing Mechanisms in Mammalian Cells, Experimental Biology '97, New Orleans, LA (April 8, 1997)
- 1998 Invited Speaker, Hot Topic Symposium on the Role of Potassium Channels in Hypertension and Conditions of Elevated Vascular Tone, Experimental Biology '98, San Francisco, CA (April 19, 1998)
- 1998 Invited Speaker, American Thoracic Society Workshop on Airway and Pulmonary Vascular Smooth Muscle Function in Health and Disease, Sundance, Utah (October 31, 1998)
- 2000 Invited Speaker, Oxygen-Sensitive Ion Channels and Second Messengers Session, Experimental Biology 2000, San Diego, California (April 18, 2000)
- 2001 Invited Speaker, 74<sup>th</sup> Scientific Sessions of the American Heart Association, Anaheim, California (November 11, 2001)
- 2002 Invited Speaker, The Fifth International Conference, Pulmonary Hypertension Association, Irvine, California (June 22, 2002)
- 2002 Invited Speaker, Cardiovascular Seminar, 75<sup>th</sup> Scientific Sessions of the American Heart Association, Chicago, Illinois (November 17, 2002)
- 2002 Invited Speaker, 75<sup>th</sup> Scientific Sessions of the American Heart Association, Chicago, Illinois (Nov. 17, 2002)
- 2002 Speaker, Early Career Development Program Breakout Session, American Heart Association, Chicago, Illinois (November 16, 2002)
- 2003 Invited Speaker, FASEB Summer Conferences: Smooth Muscle, Snowmass, Colorado (July 7, 2003)
- 2004 Invited Speaker, Cardiovascular Seminars Section, 77<sup>th</sup> Scientific Sessions of the American Heart Association, New Orleans, LA (November 08, 2004)
- 2006 Invited Speaker, Postgraduate Course, American Thoracic Society International Conference 2006, San Diego, CA (May 19, 2006)
- 2006 Invited Speaker, 79<sup>th</sup> Scientific Sessions (2006) of the American Heart Association, Chicago, IL (November 12, 2006)
- 2006 Invited Speaker, Sunday Morning Program, 79<sup>th</sup> Scientific Sessions (2006) of the American Heart Association, Chicago, IL (November 12, 2006)
- 2008 Invited Lecturer, 4<sup>th</sup> World Symposium on Pulmonary Hypertension, Dana Point, Orange County, CA (February 13-16, 2008).
- 2008 Invited Speaker, Featured Topic on Channels and Transporters, Experimental Biology 2008, San Diego, CA (April 8, 1998)
- 2008 Speaker, Scientific Symposium – Tyrosine Kinase Inhibition in Pulmonary Arterial Hypertension, American Thoracic Society International Conference 2008, Toronto, Canada (May 21, 2008)

- 2009 Invited Speaker, New York Academy of Sciences (*Hypoxia and Consequences: From Molecular to Malady Conference*), New York, NY (March 13, 2009).
- 2009 Speaker, Mini Symposium – Novel Cell Signaling Mechanisms in Pulmonary Vascular Cells: Potential Therapeutic Targets, American Thoracic Society International Conference 2009, San Diego, CA (May 18, 2009)
- 2009 Invited Speaker, Pittsburgh International Lung Conference: Spotlight on Pulmonary Hypertension and Pulmonary Vascular Biology, Pittsburgh, PA (October 10, 2009).
- 2011 Chair and Invited Speaker, 2011 NIH-NHLBI Workshop on Pulmonary Embolism and Chronic Thromboembolic Pulmonary Hypertension, Bethesda, MD (July 28-29, 2011).
- 2011 Estelle Grover Lecture, 2011 Grover Conference: Risk Factors in Pulmonary Hypertension: Gender, Sex Hormones, Obesity, Novel Genetic Influences and Risk Factors, Lost Valley Ranch in Sedalia, Denver, CO (September 8, 2011).
- 2011 Invited Speaker, CVS.706: Vascular Smooth Muscle Cell Channelopathies, American Heart Association Scientific Sessions, Orlando, FL (November 14, 2011).
- 2012 Medically Led Session Speaker/Panelist, 10<sup>th</sup> International Pulmonary Hypertension Conference of PHA, Orlando, FL (June 23, 2012).
- 2012 Invited Speaker, FASEB Science Research Conferences: Smooth Muscle, Snowmass Village, CO (June 26, 2012).
- 2012 Invited Speaker, Sunday Morning Program (SMP. 706): Pathways and Genomics in Pulmonary Arterial Hypertension, American Heart Association Scientific Sessions, Los Angeles, CA (November 4, 2012).
- 2013 Invited Speaker/Panelist, 2013 Chicago Research Network Symposium: *Transgenic Approaches to Cardiovascular Disease: Past, Present, and Future*. Chicago, IL (September 20, 2013)
- 2014 Invited Speaker, CTEPH: State of the Art 2014, A Multidisciplinary Symposium, La Jolla, CA (February 28, 2014)
- 2015 Invited Speaker, The 2<sup>nd</sup> International Symposium on the Calcium-sensing Receptor, San Diego, CA (March 3, 2015)
- 2015 Invited Speaker, The 3<sup>rd</sup> Annual US Research Day, New York, NY (December 5, 2015)
- 2015 Speaker, Bayer HealthCare Scientific Advisory Committee Meeting, Whippany, NJ, (December 11, 2015)

### ***International***

- 1998 Invited Speaker, WHO-sponsored World Symposium - Primary Pulmonary Hypertension 1998, Evian, France (September 6-10, 1998)
- 1998 Invited Speaker, The 20<sup>th</sup> Scientific Session of the Chinese Association for Physiological Sciences, Lushan, China (September 20-24, 1998)
- 1999 Invited Speaker, International Symposium on New Developments in Smooth Muscle and Endothelial Cell Signalling, Nagoya, Japan (May 17, 1999)
- 2003 Designated Lecturer, Joint Meeting of the Physiological Society and British Pharmacological Society, University of Manchester, U.K. (September 10, 2003)
- 2005 Invited Lecturer, The 78th Annual Meeting of the Japanese Pharmacological Society, Yokohama, Japan (March 23, 2005).
- 2006 Invited Lecturer, The Physiological Society International Workshop on Cardiopulmonary Function in Health and Disease. Charles University, Prague, Czech Republic (September 20-24, 2006).
- 2007 Invited Speaker, Second John Vane Memorial Symposium on Prostacyclin Science and Pulmonary Vascular Disease, The Royal Society, London, U.K. (March 30-31, 2007).
- 2007 Invited Speaker, Life Sciences 2007, Joint Meeting of the British Pharmacological Society, the Biochemical Society and the Physiological Society, Glasgow, U.K. (July 8-12, 2007).

- 2008 Invited Speaker, Chronic Thromboembolic Pulmonary Hypertension 2008: An Interactive and Educational Workshop, Austrian Academy of Sciences, Vienna, Austria (June 7, 2008).
- 2008 Invited Speaker, 5<sup>th</sup> International Symposium of Respiratory Diseases and 16<sup>th</sup> Congress of the Asia Pacific Association for Respiratory Care, Shanghai, China (November 8, 2008).
- 2009 Invited Speaker, International Conference of Physiological Sciences (*Body Function and Logic of Life*) and the 8<sup>th</sup> Korea-Japan Joint Symposium on Physiology, The International Union of Physiological Sciences (IUPS), Busan, South Korea (January 16, 2009).
- 2009 Invited Speaker, The International Union of Physiological Sciences (IUPS) Satellite Symposium (Post-genomic Advances in the Physiology of Smooth Muscle), Nagoya, Japan (July 24, 2009).
- 2009 Invited Speaker, XXXVI International Congress of Physiological Sciences (Function of Life: Elements and Integration), International Union of Physiological Sciences (IUPS), Kyoto, Japan (July 29, 2009).
- 2010 Invited Speaker, New Horizons in Calcium Signaling, The Biophysical Society and Peking University; Beijing, China (October 13, 2010)
- 2011 Invited Speaker, The 4<sup>th</sup> PVRI Workshops and Debates, Panama City, Panama (February 3-6, 2011)
- 2011 Invited Speaker, International Scientific & Educational Workshop in CTEPH, University of Cambridge (Robinson College), Cambridge, UK (June 27-28, 2011)
- 2011 Special Lecturer, The 53rd Anniversary Meeting of the Japan Society of Smooth Muscle Research, Tokyo, Japan (August 3-4, 2011)
- 2011 Special Lecturer, 2011 Suzhou International Clinic Forum, Suzhou, China (November 5, 2011)
- 2012 Invited Speaker, The 10<sup>th</sup> Annual Retreat of the International Graduate Programme, Molecular Biology and Medicine of the Lung, Universities of Giessen & Marburg Lung Center (UGMLC), Rauschholzhausen, Germany (August 6-8, 2012)
- 2014 Invited Speaker, Symposium 4: Pulmonary Arterial Hypertension (PAH); Luncheon Seminar 7, The 18<sup>th</sup> International Vascular Biology Meeting, Kyoto, Japan (April 14-17, 2014)
- 2014 Invited Speaker, China Heart Congress 2014, Beijing, China (August 7-10, 2014)
- 2014 Invited Speaker, The Joint Meeting of 2<sup>nd</sup> Annual Congress of Japanese Pulmonary Hypertension Society (JPHS) and 3<sup>rd</sup> Scientific Meeting of Japanese Pulmonary Circulation Society, Tokyo, Japan (October 3-5, 2014)
- 2015 Invited Speaker, Ion Channels, Transporters, and Small Molecules as Key Regulators of Homeostatic Systems, an International Symposium of the 88<sup>th</sup> Annual Meeting of The Japanese Pharmacological Society, Nagoya, Japan (March 17, 2015)
- 2015 Invited Speaker, The 88<sup>th</sup> Annual Meeting of The Japanese Pharmacological Society, Nagoya, Japan (March 18-20, 2015)
- 2015 Invited Speaker, China Heart Congress 2015, Beijing, China (August 7, 2015)
- 2015 Invited Speaker, 2015 Grover Conference on the Pulmonary Circulation (*The "omics" era: New Insights into Pathogenesis*), Lost Valley Ranch in Sedalia, Denver, CO, (September 10, 2015).
- 2015 Invited Speaker, The 8<sup>th</sup> National Congress on Pulmonary Embolism and Pulmonary Vascular Disease and the 6<sup>th</sup> International Symposium on Pulmonary Circulation Disorders, Suzhou, China (April 10, 2016)

**Visiting Professorship and Invited Lecture**  
**National**

- 1994 Invited Speaker, The Johns Hopkins University School of Medicine, Baltimore, Maryland (February 3, 1994)
- 1995 Invited Speaker, Society of Chinese Bioscientists in America, NIH and FDA Chinese American Association, Bethesda, Maryland (May 20, 1995)
- 1998 Invited Speaker, Department of Physiology and Biophysics, Indiana University School of Medicine, Indianapolis, Indiana (November 5-6, 1998)
- 2001 Invited Speaker, University of California, Riverside, California (January 29, 2001)
- 2001 Distinguished Scientist Seminar Speaker, University of South Alabama, Mobile, Alabama (November 1, 2001)
- 2001 Invited Speaker, Medical College of Wisconsin, Milwaukee, Wisconsin (December 6, 2001)
- 2002 Invited Speaker, University of Southern California, Los Angeles, California (January 4, 2002)
- 2002 Invited Speaker, Dartmouth Medical School, Hanover, New Hampshire (November 26, 2002)
- 2002 Invited Speaker, The Johns Hopkins University School of Medicine, Baltimore, Maryland (Dec. 12, 2002)
- 2003 Invited Speaker, Albany Medical College, Albany, New York (April 2, 2003)
- 2003 Invited Speaker, University of Nevada, Reno, Nevada (November 20, 2003)
- 2003 Visiting Professor, PHAR 750: Cellular and Molecular mechanisms of Excitability, University of Nevada, Reno, Nevada (November 19-20, 2003)
- 2004 Invited Speaker, Cardiovascular Research Institute, Morehouse School of Medicine, Atlanta, Georgia (April 26-27, 2004)
- 2004 Invited Speaker, Northwestern University Feinberg School of Medicine, Chicago, Illinois (May 6-7, 2004)
- 2005 Invited Lecturer, University of Chicago Pritzker School of Medicine, Chicago, Illinois (January 13, 2005)
- 2005 Invited Speaker, Texas Tech University Health Sciences Center, Lubbock, Texas (February 6, 2005)
- 2005 Visiting Professor and Invited Speaker, Vanderbilt University School of Medicine, Nashville, Tennessee (April 4-6, 2005).
- 2005 Invited Lecturer, Loyola University School of Medicine, Chicago, Illinois (September 12-14, 2005).
- 2005 Invited Lecturer, University of Arkansas for Medical Sciences, Little Rock, Arkansas (November 1-2, 2005).
- 2006 Invited Lecturer, University of Illinois at Chicago, School of Medicine, Chicago, Illinois (May 17, 2006).
- 2007 Invited Lecturer, The Feinstein Institute for Medical Research, Long Island Jewish Medical System and Albert Einstein School of Medicine, New York, New York (March 6, 2007).
- 2007 Invited Lecturer, Virginia Commonwealth University School of Medicine, Richmond, Virginia (July 16, 2007).
- 2009 Invited Speaker, Vascular Medicine Institute of the University of Pittsburgh, Pittsburgh, PA (June 10, 2009)
- 2009 Cardiology Grand Rounds Speaker, Department of Medicine, University of Chicago, Chicago, IL (September 11, 2009)
- 2009 Invited Speaker, Department of Pharmacology and Therapeutics, University of Arkansas for Medical Sciences, Little Rock, AR (November 9, 2009)
- 2009 Pulmonary Medicine Grand Rounds Speaker, Department of Medicine, University of Illinois at Chicago, Chicago, IL (December 7, 2009)

- 2009 Invites Speaker, California Pacific Medical Center Research Institute, San Francisco, CA (December 18, 2009)
- 2010 Invited Speaker, La Jolla Institute for Allergy & Immunology, La Jolla, CA (March 18, 2010)
- 2012 Visiting Professor and Invited Speaker, Department of Molecular Pharmacology & Therapeutics, Stritch School of Medicine, Loyola University Chicago, Maywood, IL (February 22, 2012)
- 2012 Invited Speaker, Department of Systems Biology and Translational Medicine, Texas A&M University Health Science Center College of Medicine, Temple, TX (March 21, 2012)
- 2012 Invited Speaker, Department of Pharmacology, Rush University, Chicago, IL (October 24, 2012)
- 2012 Invited Speaker, Institute for Integrative Physiology and Center for Systems Biology, The University of Chicago, Chicago, IL (November 16, 2012)
- 2012 Invited Speaker, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, AR (December 12, 2012)
- 2013 Invited Speaker, Department of Medicine (Cardiology and Pulmonary, Allergy and Critical Care Medicine) and the Pittsburgh Heart, Lung and Blood Vascular Medicine Institute, Pittsburgh, PA (August 30, 2013)
- 2014 Invited Speaker, Department of Physiology, University of Oklahoma College of Medicine, Oklahoma City, OK (January 23, 2014)
- 2014 Invited Speaker, Department of Pharmacology, New York Medical College, Valhalla, NY (February 19, 2014)

***International***

- 1993 Invited Speaker, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China (May 23, 1993)
- 1995 Invited Keynote Lecturer, Symposium on Control of the Pulmonary Circulation, University of Oxford, Oxford, England (July 12, 1995)
- 1996 Invited Lecturer, Symposium on Oxygen Regulation of Ion Channels and Gene Expression, Instituto Juan March de Estudios e Investigaciones, Madrid, Spain (November 24, 1996)
- 1998 Invited Lecturer, Chinese University of Hong Kong, China (October 8-9, 1998)
- 1998 Invited Lecturer, Suzhou Medical College, Suzhou, China (October 10-15, 1998)
- 2000 Invited Speaker, National University of Singapore (September 6, 2000)
- 2002 Invited Speaker, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China (March 22, 2002)
- 2002 Invited Speaker, Peking University Health Science Center, Beijing, China (March 29, 2002)
- 2007 Invited Lecturer, International Conference of Thromboembolic Disease, Beijing, China (October 23, 2007).
- 2007 Invited Lecturer, University of Giessen School of Medicine, Giessen, Germany (November 14, 2007).
- 2008 Visiting Professor and Invited Speaker, Imperial College, London, U.K. (July 7-10, 2008)
- 2008 Invited Speaker, Tongji University Shanghai Pulmonary Hospital, Shanghai, China (November 7, 2008)
- 2008 Visiting Professor and Invited Speaker, Capital Medical University Chao-Yang Hospital, Beijing, China (November 11, 2008)
- 2009 Visiting Professor, Cardiovascular Division, King's College, London, UK (January 25-31, 2009)

- 2009 Invited Speaker, Hammersmith Hospital, Imperial College, London, UK (January 30, 2009)
- 2010 Invited Speaker, Guangzhou Medical University, Guangzhou, China (October 18, 2010)
- 2011 Visiting Professor and Invited Speaker, INSERM U999, Hôpital Antoine Bécclère, Université Paris-Sudd 11, Clamart, France (August 24, 2011)
- 2011 Visiting Professor, INSERM U955 and Département de Physiologie-Explorations Fonctionnelles, Hôpital Henri Mondor, Créteil, France (August 25, 2011)
- 2011 Visiting Professor, Soochow University College of Medicine, Suzhou, China (November 4, 2011)
- 2013 Visiting Professor and Invited Speaker, Ludwig Boltzmann Institute for Lung Vascular Research, Medical University of Graz and Technical University of Graz, Graz, Austria (June 4, 2013)
- 2015 Invited Speaker, Division of Cardiology, Lanzhou University First Affiliated Hospital, Lanzhou, China (August 10, 2015)

**MODERATOR/CHAIR AT SCIENTIFIC CONFERENCES:**

- 2001 Moderator, “*Cournand and Comroe Young Investigator Award Competition*,” 74<sup>th</sup> Scientific Sessions of the American Heart Association, Anaheim, CA (November 13, 2001)
- 2002 Facilitator, “*Early Career Development Program*,” 75<sup>th</sup> Scientific Sessions of the American Heart Association, Chicago, IL (November 16, 2002)
- 2002 Moderator, “*Dickinson W. Richards Memorial Lecture and Pulmonary Hypertension: Bench to Bedside*,” 75<sup>th</sup> Scientific Sessions of the American Heart Association, Chicago, IL (November 18, 2002)
- 2003 Discussion Facilitator, “*Pulmonary Vascular Cell Biology Thematic Poster Session*,” 99<sup>th</sup> International Conference of the American Thoracic Society, Seattle, WA (May 21, 2003)
- 2005 Invited Moderator, “*Cardiovascular Seminars - BMP and TGF- $\beta$  Signaling in Cardiac Development and Pulmonary Vascular Disease*,” 78<sup>th</sup> Scientific Sessions of the American Heart Association, Dallas, TX (November 15, 2005)
- 2006 Chair, “*Poster Discussion Session - Pulmonary Vascular Smooth Muscle Cell Proliferation, Migration and Apoptosis*,” American Thoracic Society International Conference 2006, San Diego, CA (May 19-24, 2006)
- 2007 Chair, “*Poster Discussion Session – Kinase Signaling Events in Lung Cell Function and Phenotype*,” American Thoracic Society International Conference 2007, San Francisco, CA (May 18-23, 2007)
- 2007 Chair, “*Poster Discussion Session – Clinical Management and Etiological Mechanisms of Pulmonary Embolism and Pulmonary Hypertension*,” American Thoracic Society International Conference 2007, San Francisco, CA (May 18-23, 2007)
- 2008 Chair, “*Scientific Symposium – Tyrosine Kinase Inhibition in Pulmonary Arterial Hypertension*,” American Thoracic Society International Conference 2008, Toronto, Canada (May 16-21, 2008)
- 2008 Chair: “*Mini Symposium III – Pathogenic Mechanisms*.” Chronic Thromboembolic Pulmonary Hypertension 2008: An Interactive and Educational Workshop, Austrian Academy of Sciences, Vienna, Austria (June 6-7, 2008).
- 2008 Chair: “*Ion Channels in the Pulmonary Vasculature*.” 2008 Grover Conference on the Pulmonary Circulation (*Membrane Receptors, Channels and Transporters in the Pulmonary Circulation: Role in the Development of Pulmonary Vascular Disease*), Lost Valley Ranch in Sedalia, Denver, CO, (September 4, 2008).
- 2009 Chair: “*Special Lecture 2 (Gating of TRPC and Orai Channels by STIM1)*.” International Conference of Physiological Sciences Satellite Symposium (*Body Function and Logic of*



- Life*) and the 8<sup>th</sup> Korea-Japan Joint Symposium on Physiology, The International Union of Physiological Sciences (IUPS), Busan, South Korea (January 15, 2009).
- 2009 Chair: "*Regulation of Vascular Function by Ion Channels.*" Commission II (Circulation & Respiration. XXXVI International Congress of Physiological Sciences (Function of Life: Elements and Integration), International Union of Physiological Sciences (IUPS), Kyoto, Japan (July 29, 2009).
- 2009 Commentator: "*Advances in Pulmonary Hypertension.*" 82<sup>nd</sup> Scientific Sessions of the American Heart Association, Orlando, FL (November 16, 2009).
- 2010 Chair, "*Poster Discussion Session – C105-Endothelial Cells in the Pathogenesis of Pulmonary Arterial Hypertension,*" American Thoracic Society International Conference 2010, New Orleans, LA (May 14-19, 2007)
- 2010 Panelist, "*Basic Research in PH,*" 9<sup>th</sup> International Pulmonary Hypertension Conference and Scientific Sessions, Pulmonary Hypertension Association, Garden Grove, CA (June 25-27, 2010)
- 2011 Chair, "*Idiopathic and Heritable Pulmonary Arterial Hypertension (PAH): From Genes to Clinical State,*" Physiology InFocus: Molecular and Clinical Physiology in Human Disease, Experimental Biology, Washington, D.C. (April 13, 2011)
- 2011 Chair, "*Emerging Translational Therapies for Pulmonary Hypertension,*" American Thoracic Society International Conference 2011, Denver, CO (May 13-18, 2011)
- 2011 Facilitator, "*Pulmonary Hypertension: Experimental Models II,*" American Thoracic Society International Conference 2011, Denver, CO (May 13-18, 2011)
- 2011 Co-Chair, "*Basic Mechanisms of CTEPH,*" International Scientific & Educational Workshop in CTEPH, Robinson College, University of Cambridge, Cambridge, UK (June 28-29, 2011)
- 2011 Chair and Organizer, Pulmonary Embolism and Chronic Thromboembolic Pulmonary Hypertension Research Workshop, NIH Workshop, Bethesda, MD (July 28-29, 2011).
- 2011 Chair, Session V: 2011 Risk Factors and Responsiveness to Current and Emerging Therapies, 2011 Grover Conference (*Risk Factors in Pulmonary Hypertension: Gender, Sex Hormones, Obesity, Novel Genetic Influences and Risk Factors*), Lost Valley Ranch in Sedalia, Denver, CO (September 8-11, 2011).
- 2012 Co-Chair, "*Mini-Symposium – Pulmonary Hypertension: New Insights into Causes and Treatments,*" American Thoracic Society International Conference 2012, San Francisco, CA (May 23, 2012)
- 2012 Moderator: *Sunday Morning Program (SMP. 706): Pathways and Genomics in Pulmonary Arterial Hypertension*, American Heart Association Scientific Sessions 2012, Los Angeles, CA (November 4, 2012).
- 2012 Moderator, NHLBI Cell Therapy for Lung Disease Workshop, Bethesda, MD (November 12-14, 2012).
- 2013 Moderator, "*Cardiovascular Seminars (CVS.704) – What Makes the Pulmonary Circulation Unique from the Systemic Circulation?*" American Heart Association Scientific Sessions 2013, Dallas, TX (November 17, 2013)
- 2013 Poster Professor, "*Abstract Poster Session (APS. 723.02) – Pulmonary Hypertension: Pathogenic Mechanisms,*" American Heart Association Scientific Sessions 2013, Dallas, TX (November 18, 2013)
- 2014 Lead Facilitator, "*Thematic Poster Session (C55) – Advances in Pulmonary Vascular Cell Biology,*" American Thoracic Society 2014 International Conference, San Diego, CA (May 20, 2014)
- 2014 Moderator, "*Dickinson W. Richards Lecture: Frontiers in Pulmonary Hypertension Research*" American Heart Association Scientific Sessions 2014, Chicago, IL (November 18, 2014)

- 2014 Commentator, “*Characteristic of Pulmonary Circulation System: The Vascular Responsiveness and the Right Ventricular Function*,” The Joint Meeting of 2<sup>nd</sup> Annual Congress of Japanese Pulmonary Hypertension Society (JPHS) and 3<sup>rd</sup> Scientific Meeting of Japanese Pulmonary Circulation Society, Tokyo, Japan (October 5, 2014)
- 2015 Co-Chair, “*Ancient and Modern Wisdom in Pulmonary Vascular Diseases*,” The PVRI 8<sup>th</sup> Annual Word Congress on Pulmonary Vascular Disease and the 7<sup>th</sup> National Congress on Pulmonary Embolism and Pulmonary Vascular Diseases, Guangzhou, China (January 18, 2015)
- 2015 Co-Chair, “*Morphogen Signaling Pathways in Tissue Patterning and Disease Processes*” Symposium Sponsored by Cell and Molecular Physiology Section and AJP-Cell, Experimental Biology 2015, Boston, MA (March 29, 2015)
- 2015 Moderator: “*Systems Biology, Bioinformatics Integration, and the Process of Pulling it all Together for Cardiopulmonary Diseases*” 2015 Grover Conference on the Pulmonary Circulation (*The “omics” era: New Insights into Pathogenesis*), Lost Valley Ranch in Sedalia, Denver, CO, (September 10, 2015).
- 2015 Abstract Oral Presentation Moderator, “*Genetic Basis of Pulmonary Hypertension*,” American Heart Association Scientific Sessions 2015, Orlando, FL (November 9, 2015)
- 2015 Section Panelist: “*PAH Research in 2016: Open Forum*,” The 3<sup>rd</sup> Annual US Research Day, New York, NY (December 5, 2015)

#### **HONORARY PROFESSORSHIP AND DIRECTORSHIP:**

- 1998- Honorary Professor, Suzhou-Hong Kong Institute of Traditional Chinese Medicine, Suzhou Medical College, Suzhou, China
- 1999- Honorary Professor, The Fourth Military Medical University (FMMU), Xi’an, China
- 2002- Honorary Professor, Chinese Academy of Medical Sciences (CAMS) and Peking Union Medical College (PUMC), Beijing, China
- 2008- Visiting Professor, Capital Medical University Chao-Yang Hospital, Beijing, China
- 2009- Visiting Professor, Capital Medical University, Beijing, China
- 2011- Research Director (Abroad), Division of Respiratory and Critical Care Medicine, Soochow University First Affiliated Hospital, Suzhou, China

#### **GRANT SUPPORT:**

##### **Previous Grants** (Total direct cost: \$17,343,845)

- 1990-1992 American Heart Association Fellowship: “Mechanism of Hypoxia-induced Pulmonary Vasoconstriction.” Total direct cost: \$41,500; Principal Investigator, X.-J. Yuan
- 1993-1995 American Heart Association Grant-in-Aid: “Effects of Hypoxia on K<sup>+</sup> Channels in Pulmonary and Mesenteric Arterial Cells.” Total direct cost: \$44,000; Principal Investigator, X.-J. Yuan
- 1994-1995 University of Maryland School of Medicine Special Research Initiative Support Grant: “Effect of Oxidative Phosphorylation on Ca<sup>2+</sup>-activated and Voltage-gated K<sup>+</sup> Channels in Pulmonary and Mesenteric Arterial Cells.” Total direct cost: \$15,000; Principal investigator, X.-J. Yuan
- 1994-1997 Parker B. Francis Fellowship: “Role of Ionic Channels in Hypoxic Pulmonary Vasoconstriction”. Total direct cost: \$108,000; Principal Investigator, X.-J. Yuan
- 1995-1996 Giles F. Filley Memorial Award, American Physiological Society. Total direct cost: \$12,000; Awardee, X.-J. Yuan
- 1995-2000 NIH FIRST Award (R29 HL 54043-05): “Ion Channels and Pulmonary Vascular Tone”. Total direct cost: \$350,000; Principal Investigator, X.-J. Yuan
- 1996-1997 The PPH Cure Foundation grant: “Mechanisms of Vascular Smooth Muscle Dysfunction in Primary Pulmonary Hypertension”. Total direct cost: \$110,000, Principal Investigators, L.J. Rubin and X.-J. Yuan

- 1996-1997 The PPH Research Foundation grant: "Dysfunctional Potassium Channels in the Pathogenesis of Primary Pulmonary Hypertension". Total direct cost: \$10,000; Principal Investigators, L.J. Rubin and X.-J. Yuan
- 1996-1998 American Heart Association Grant-in-Aid: "Effects of Nitric Oxide on Ion Channels and Cytosolic Ca<sup>2+</sup> in Pulmonary Artery Myocytes". Total direct cost: \$66,000; Principal Investigator, X.-J. Yuan
- 1998-2000 American Lung Association of Maryland Fellowship: "Calcium Homeostasis and Primary Pulmonary Hypertension". Total direct cost: \$65,000; Principal Investigator, A.E. Bakst; Co-Investigator and Sponsor, J.X.-J. Yuan
- 1998-2002 American Heart Association Established Investigator Award (974009N): "Mechanisms of Nitric Oxide-mediated Pulmonary Vasodilation". Total direct cost: \$300,000; Principal Investigator, J.X.-J. Yuan
- 1999-2004 NIH-NHLBI (1R01 HL 64945-01): "Cellular Mechanisms of PPH: Role of K<sup>+</sup> Channels". Total direct cost: \$1,139,343; Principal Investigator, J.X.-J. Yuan
- 2000-2004 VA Merit Review Grant: "Regulation of Polyamine-dependent Intestinal Epithelial Restitution". Total direct cost: \$660,000; Principal Investigator, J.-Y. Wang; Co-investigator, J.X.-J. Yuan
- 2002-2004 American Lung Association Fellowship: "Role of Tandem Pore K<sup>+</sup> Channels in Primary Pulmonary Hypertension." Total direct cost: \$100,000; Principal Investigator, M. Mandegar; Co-Investigator and Sponsor, J.X.-J. Yuan
- 2004-2005 American Lung Association Research Fellowship Award: "Novel SNP Discoveries Within Genes Implicated in Primary Pulmonary Hypertension." Total direct cost: \$50,000; Principal Investigator, D. Tigno; Co-Investigator and Sponsor, J.X.-J. Yuan (declined).
- 2000-2005 NIH-NHLBI (2R01 HL 54043-06): "Ion Channels and Pulmonary Vascular Tone". Total direct cost: \$1,050,000; Principal Investigator, J.X.-J. Yuan
- 2003-2005 American Lung Association Research Fellowship Award: "Effects of Nitric Oxide and Prostacyclin on TRPC6 Gene Expression." Total direct cost: \$50,000; Principal Investigator, J.W. Landsberg; Co-Investigator and Sponsor, J.X.-J. Yuan
- 2003-2005 Pulmonary Hypertension Association Postdoctoral Fellowship Award (0325753H): "Roles of TRPC6 Channel in Pulmonary Artery Smooth Muscle Cell Proliferation and Primary Pulmonary Hypertension." Total direct cost: \$70,000; Principal Investigator, Y. Yu; Co-Investigator and Sponsor, J.X.-J. Yuan
- 2001-2005 NIH-NHLBI (1U01 HL69758-01): "Autonomic Pharmacodynamic Pharmacogenomics." (Principal Investigator, D.T. O'Connor; Total direct cost, \$8,347,958)  
Project 1: "Pulmonary Vascular Responses in Primary Pulmonary Hypertension." Total direct cost: \$610,349. Project Directors, L.J. Rubin and J.X.-J. Yuan  
Core D: "Receptors and signal transduction." Total direct cost: \$721,183. Core Directors, P.A. Insel and P.W. Taylor; Co-investigator, J.X.-J. Yuan
- 2001-2006 NIH-NHLBI (1U01 HL66941-01): "Gene Therapy: Translating Basic Science to the Clinic." (Principal Investigator, H.K. Hammond; Total direct cost, \$6,400,000)  
Project II: "Gene Transfer of Adenylyl Cyclase to Pulmonary Smooth Muscle Cells." Total direct cost: \$1,000,500; Project Director, P.A. Insel; Collaborator, J.X.-J. Yuan
- 2001-2006 NIH-NHLBI (1R01 HL 66012-01): "Capacitative Ca<sup>2+</sup> Entry in Pulmonary Myocyte Growth." Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan
- 2002-2007 NIH-NHLBI (1R01 HL70852-01): "Molecular Mechanisms of Pulmonary Hypertension." Total direct cost: \$1,000,000; Principal Investigator, P.A. Thistlethwaite; Consultant, J.X.-J. Yuan
- 2005-2007 NIH-NHLBI (1R21 HL080033-01): "SNPs in Idiopathic Pulmonary Arterial Hypertension." Total direct cost: \$200,000; Principal Investigator, J.X.-J. Yuan

2003-2008 NIH-NHLBI (2R01 HL 064945-05): "Cellular Mechanisms of PPH: Role of K<sup>+</sup> Channels." Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan

2008 NIH-NHLBI (R13 HL 092781): "2008 Grover Conference on Pulmonary Circulation." Total direct cost: \$30,000; Principal Investigator, J.X.-J. Yuan

2004-2009 VA Merit Review Grant: "Regulation of Intestinal Epithelial Restitution." Total direct cost: \$750,000; Principal Investigator, J.-Y. Wang (Baltimore VA Medical Center and University of Maryland at Baltimore); Co-investigator, J.X.-J. Yuan

2005-2009 NIH-NHLBI (2R01 HL054043-09): "Ion Channels and Pulmonary Vascular Tone." Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan

2007-2009 American Lung Association of California Research Fellowship Award: "Role of Na/Ca Exchange in the Pathogenesis of Idiopathic Pulmonary Artery Hypertension." Total direct cost: \$80,000; Principal Investigator, H. Dong; Mentor, J.X.-J. Yuan

2007-2009 American Heart Association (Western States Affiliate) Predoctoral Fellowship Award: "T1-Domain Mutations in Kv1.5 and Channel Function: Role in Development of Pulmonary Arterial Hypertension." Total direct cost: \$43,000; Principal Investigator, E.D. Burg; Supervisor, J.X.-J. Yuan

2007-2009 California Institute for Regenerative Medicine (CIRM) Postdoctoral Training Fellowship: "Role of Ion Channels in Stem Cell Pluripotency and Differentiation." Total direct cost: \$49,000; Principal Investigator, A.L. Firth; Mentor, J.X.-J. Yuan

2007-2010 NIH-NHLBI (2P01 HL 046345-16): "Molecular Pathways for Hypertrophy and Cardiomyopathy." (Principal Investigator, K.U. Knowlton; Total direct cost, \$6,400,000) Project 3: "Vinculin and Talin in Cardiocyte Integrity and Adhesion." Total direct cost, \$1,250,000. Project Director, R.S. Ross; Co-investigator, J.X.-J. Yuan

2009-2010 NIH-NHLBI (HL12345/HL066012): "NIH Summer Supplement." Total direct cost: \$16,007; Principal Investigator/Mentor, J.X.-J. Yuan

2007-2012 NIH-NHLBI (1R01 HL066012-06): "Capacitative Ca<sup>2+</sup> Entry and TRP Channels in Thromboembolic Pulmonary Hypertension." Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan

2008-2013 NIH-NHLBI (1P01 HL0058064): "Cytoskeletal Regulation of Lung Endothelial Cell Pathobiology." (Principal Investigator, J.G.N. Garcia; Total direct cost, \$11,806,085) Project 5: "Hepatocyte Growth Factor/c-Met Involvement in Endothelial Cell" Total direct cost, \$1,008,695. Project Leader, J.X.-J. Yuan

2012-2014 NIH-NHLBI (5T32 HL 072742 Revised): "Training in Mechanisms of Cardiovascular Diseases." Total direct cost: \$458,013; Principal Investigator, J.X.-J. Yuan

2011-2014 NIH-NHLBI (1P01 HL098050): "Role of Sphingolipids in the Pathobiology of Lung Injury." (Principal Investigator, V. Natarajan; Total direct cost, \$7,575,005) Core C: "Pre-Clinical Models of Lung Inflammatory Injury." Total direct cost: \$769,560. Core Directors, J.X.-J. Yuan and L. Moreno

2010-2015 NIH-NHLBI (1P01 HL098053): "Molecular Mechanisms of Hypoxia Tolerance and Susceptibility." (Principal Investigator, G.G. Haddad; Total direct cost, \$7,394,579) Project 2: "Cellular and Molecular Mechanisms of Hypoxia-induced Pulmonary Hypertension" Total direct cost, \$1,178,695; Project Leader, J.X.-J. Yuan

**Active Grants** (Total direct cost: \$3,300,000)

2012-2017 NIH-NHLBI (1R01 HL115014): "Molecular Mechanisms of Downregulated Kv Channels in IPAH: Role of microRNA." Total direct cost, \$1,250,000; Principal Investigator, J.X.-J. Yuan

2013-2017 NIH-NHLBI (R01 HL 066012): "Ca<sup>2+</sup> signaling in pulmonary arterial hypertension: Role of CaSR and TRPC6." Total direct cost: \$1,000,000; Principal Investigator, J.X.-J. Yuan

- 2014-2019 NIH-NHLBI (1U01 HL125208): "Phenomic and Genomic Study to Subphenotype Hispanics with Pulmonary Hypertension." Total direct cost, \$1,050,000; Principal Investigators (MPI), F.P. Rischard and J.X.-J. Yuan
- 2014-2017 Parker B. Francis Fellowship: "RAGE Regulation of ENaC and Lung Function ". Total direct cost: \$108,000; Principal Investigator, Charles A. Downs; Mentors, J.X.-J. Yuan and Douglas C. Eaton

#### **PATENT:**

1. Inventors: Remillard CV, Rubin LJ, Yu Y, and **Yuan JX-J**. Regulating Expression of Transient Receptor Potential Channel Genes. Patent No.: US 7,964,573 B2; Date of Patent: June 21, 2011.

#### **PUBLICATION:**

(8 Books, 145 Original Research Articles, 33 Review Articles, 37 Editorials, and 48 Book Chapters)  
*h*-index, 65, June, 2016

#### **A. Books**

1. Bu, C., L. Xin, S. Han, X. Zhang, X. Wang, X. Liu, Y. Zhang, S. Feng, **X.-J. Yuan**, H. Xia, C. Luo, L. Xiao, G. Chen, and Y. Pan. *Olympic Complete Words: English-Chinese Classified Pictures*. Hohai University Press (Nanjing, China) and Huayi Publishing House (Beijing, China). Printed in "China Trade and Investment," Hong Kong, 1988 (1,451 pages).
2. Bu, C., L. Xin, Y. Li, C. Luo, S. Han, X. Zhang, Y. Zhang, X. Liu, S. Feng, **X.-J. Yuan**, X. Wang, L. Xiao, G. Chen, Z. Li, H. Xia, G. Huang, Y. Pan, and Y. Lin. *English-Chinese Encyclopedia of Olympic Games With Classified Pictures*. The Publishing House of Ordnance Industry, Beijing, 2001 (1,915 pages).
3. **Yuan, J.X.-J.** (ed) *Hypoxic Pulmonary Vasoconstriction: Cellular and Molecular Mechanisms*. Kluwer Academic Publishers, Boston, MA, 2004 (608 pages). ISBN: 978-1-4020-7857-6.
4. **Yuan, J.X.-J.** (ed) *Ion Channels in the Pulmonary Vasculature*. Taylor & Francis Group, Boca Raton, FL, 2005 (832 pages). ISBN-13: 978-0-8247-5968-1.
5. **Yuan, J.X.-J.** and J.P.T. Ward (eds) *Membrane Receptors, Channels, and Transporters in Pulmonary Circulation*. Humana Press-Springer, New York, NY, 2010 (501 pages). ISBN: 978-1-60761-499-9 (Since its online publication on Mar 10, 2010, there has been a total of **10747** chapter downloads for this book on SpringerLink, the Springer's online platform. This means this book was one of the top 25% most downloaded books in the relevant Springer eBook Collection in 2012).
6. **Yuan, J.X.-J.**, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer, and J.B. West (eds) *Textbook of Pulmonary Vascular Disease*. Springer, New York, NY. 2011 (1658 pages, 590 illus., 245 in color). ISBN: 978-0-387-87428-9 (Since its online publication on May 03, 2011, there has been a total of **14410** chapter downloads for this book on SpringerLink, the Springer's online platform. This means this book was one of the top 25% most downloaded books in the relevant Springer eBook Collection in 2012).
7. Smith, K.A., D.R. Fraidenburg, and **J.X.-J. Yuan** (eds) *Advances in the Management of Pulmonary Arterial Hypertension*. Future Medicine, London, UK. 2013 (123 pages). doi: 10.2217/9781780843094; eISBN (PDF): 978-1-78084-309-4 (<http://www.futuremedicine.com/doi/abs/10.2217/9781780843094>)
8. Firth, A. and **J.X.-J. Yuan** (eds) *Lung Stem Cells in the Epithelium and Vasculature*. Humana Press/Springer Cham Heidelberg New York Dordrecht London, 2015 (345 pages). ISBN: 978-3-319-16231-7 (Print) 978-3-319-16232-4 (Online/eBook)

#### **B. Peer-Reviewed Original Research Articles**

1. **Yuan, X.-J.** and L.P. Wang. Effects of environmental ionizing radiation on humans. *Environ. Res.* 2:53-57, 1985.

2. **Yuan, X.-J.** Effects of environmental pollutants on human cardiovascular system. *Environ. Res.* 4:67-70, 1987.
3. **Yuan, X.-J.** Effect of angiotensin II on hypoxic pulmonary vasoconstriction. *Physiol. Sci.* 7(6):376-379, 1987.
4. **Yuan, X.-J.** Inhibitory effects of ligustrazine on acute and chronic hypoxic pulmonary hypertension in rats. *Acta Acad. Med. Sinicae* 10(1):31-35, 1988.
5. **Yuan, X.-J.**, L. Zhao and X.X. Deng. Influences of different level of hypoxia on left and right cardiac ventricular function. *Physiol. Sci.* 8(5):370-372, 1988.
6. Xue, Q.F., X.X. Deng, Y.N. Cai, C.H. Li, L. Zhao, **X.-J. Yuan**, R.L. Qiao, W.L. Liu, and X.M. Zhou. Changes in cardiac and respiratory function of Antarctic Research Expedition members-preliminary report. *Proc. Chin. Acad. Med. Sci. Peking Union Med. Coll.* 4(2):112-114; 1989.
7. **Yuan, X.-J.** and Y.N. Cai. Effects of calcium antagonists on pulmonary hypertension during acute hypoxia in rats. *Chin. J. Appl. Physiol.* 5(2):136-141, 1989.
8. **Yuan, X.-J.** and Y.N. Cai. Effect of chronic hypoxia and verapamil on cAMP content in tissues and blood plasma. *Proc. Chin. Acad. Med. Sci. Peking Union Med. Coll.* 4(1):30-33, 1989.
9. **Yuan, X.-J.** The cellular mechanism of hypoxic pulmonary vasoconstriction. *Prog. Physiol. Sci.* 20(4):301-306, 1989.
10. **Yuan, X.-J.**, L. Zhao, X.X. Deng and Y.N. Cai. Changes of pulmonary artery pressure induced by infusion of diamide in rat breathing low oxygen gas mixture. *Chin. J. Physiol. Sci.* 6:286-289, 1990.
11. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. Contrasting effects of hypoxia on tension in rat pulmonary and mesenteric arteries. *Am. J. Physiol.* 259:H281-H289, 1990.
12. Bova, S., W.F. Goldman, **X.-J. Yuan** and M.P. Blaustein. Influence of Na<sup>+</sup> gradient on Ca<sup>2+</sup> transients and contraction in vascular smooth muscle. *Am. J. Physiol.* 259:H409-H423, 1990.
13. Anderson, D.E., **X.-J. Yuan**, C.-M. Tseng, L.J. Rubin, G.M. Rosen, and M.L. Tod. Nitron spin-traps block calcium channels and induce pulmonary artery relaxation in dependent of free radicals. *Biochem. Biophys. Res. Commun.* 193(3):878-885, 1993.
14. **Yuan, X.-J.**, W.F. Goldman, M.L. Tod, L.J. Rubin and M.P. Blaustein. Ionic currents in rat pulmonary and mesenteric arterial myocytes in primary culture and subculture. *Am. J. Physiol.* 264:L107-L115, 1993. (*Most-cited articles of 1992-2002, No. 11 as March 20, 2013*)
15. **Yuan, X.-J.**, W.F. Goldman, M.L. Tod, L.J. Rubin and M.P. Blaustein. Hypoxia reduces potassium currents in cultured rat pulmonary but not mesenteric arterial myocytes. *Am. J. Physiol.* 264:L116-L123, 1993. (*"Most Cited Articles" in Am J Physiol Lung Cell Mol Physiol: No. 10 as of March 27, 2015; <http://ajplung.physiology.org/articles/most-cited>*) (*Top Ten Cited Articles for 1990-1999, 125<sup>th</sup> Anniversary Collection: AJP-Lung Cellular and Molecular Physiology; <http://www.physiology.org/site/125anniversary/ajplung.xhtml>*)
16. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. Deoxyglucose and reduced glutathione mimic the effects of hypoxia on K<sup>+</sup> and Ca<sup>2+</sup> conductances in pulmonary artery cells. *Am. J. Physiol.* 267:L52-L63, 1994.
17. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. Inhibition of cytochrome P-450 reduces voltage-gated K<sup>+</sup> currents in pulmonary arterial myocytes. *Am. J. Physiol.* 268:C259-C270, 1995.
18. Bright, R.T., C.G. Salvaterra, L.J. Rubin and **X.-J. Yuan**. Inhibition of glycolysis by 2-DOG increases [Ca<sup>2+</sup>]<sub>i</sub> in pulmonary arterial smooth muscle cells. *Am. J. Physiol.* 269:L203-L208, 1995.
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23. Zhao, Y., M.L. Tod, L.J. Rubin and **X.-J. Yuan**. Pulmonary vasoconstrictor effects of prostacyclin in rats: Potential role of thromboxane receptors. *J. Appl. Physiol.* 81(6):2595-2603, 1996.
24. **Yuan, X.-J.**, R.T. Bright, A.M. Aldinger, L.J. Rubin. Nitric oxide inhibits serotonin-induced calcium release in pulmonary artery smooth muscle cells. *Am. J. Physiol.* 272:L44-L50, 1997.
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36. Golovina, V.A., O. Platoshyn, C.L. Bailey, J. Wang, A. Limsuwan, M. Sweeney, L.J. Rubin, and **J.X.-J. Yuan**. Upregulated TRP and enhanced capacitative  $Ca^{2+}$  entry in human pulmonary artery myocytes during proliferation. *Am. J. Physiol. Heart Circ. Physiol.* 280:H746-H755, 2001. ("Most Cited Articles" in *Am J Physiol Heart Circ Physiol*: No. 6 as of March 27, 2015; <http://ajpheart.physiology.org/articles/most-cited>) (Top Ten Cited Articles for 2000-2011, 125<sup>th</sup> Anniversary Collection: *AJP-Heart and Circulatory Physiology*; <http://www.physiology.org/site/125anniversary/ajpheart.xhtml>)
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