CURRICULUM VITAE

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EDUCATION

09/90-05/94	University of California, Berkeley	BS	Elec Eng / Comp Sci
09/94-06/98	University of California, San Diego	MD	
06/98-06/99	Harbor-UCLA Medical Center	Internship	Internal Medicine
07/99-06/01	Harbor-UCLA Medical Center	Residency	Internal Medicine
07/01-06/03	University of California, San Francisco	Fellowship	Clinical Nephrology
07/03-08/05	University of California, San Francisco	Fellowship	Basic Science Nephrology

EMPLOYMENT

2005-2007	University of California, San Francisco	Adjunct Assistant Professor	Medicine
1/1/08-8/31/08	Stanford University	Acting Assistant Professor	Medicine
9/1/08-8/31/13	Stanford University	Assistant Professor, UTL	Medicine

HONORS AND AWARDS

1992-1994	UC Berkeley	Tau Beta Pi, Engineering Honors Society
1992-1994	UC Berkeley	Eta Kappa Nu, Elec Eng Honors Society
1994	UC Berkeley	Phi Beta Kappa
1994	UC Berkeley	Graduation with Honors
1995	US Dept. HHS	Pre-Clinical Scholarship
2000	UC Los Angeles	Solomon Scholars Resident Research Award
2003	NIH / NIDDK	Ruth L. Kirschstein National Research Service Award (F32)
2005	NIH / NIDDK	Mentored Clinical Scientist Award (K08)
2006	UC San Francisco	Excellence in Small Group Instruction, Nominee
2007	UC San Francisco	Teaching Awardee, Halie T. Debas Academy of Medical Educators
2008	NKF	Shaul G. Massry Young Investigator Grant Recipient
2010	ASN	Carl W. Gottschalk Career Development Award
2012	Stanford University	Henry J Kaiser Family Foundation Award for Excellence in Preclinical Teaching

LICENSES, CERTIFICATIONS, ETC.

1999	Medical Board of California (License No. A070125)
1999	Drug Enforcement Agency (DEA No. BB6643109)
2001	American Board of Internal Medicine, Specialty- Internal Medicine #205268
2001	Spanish Language Proficiency Exam, San Francisco Department of Public Health
2002	Medicare UPIN No. H60357
2003	American Board of Internal Medicine, Subspecialty- Nephrology #205268
2004	Advanced Cardiac Life Support Program, National Cognitive and Skills Examination

CLINICAL RESPONSIBILITIES

2001-2003 Fellow, Clinical Nephrology
2005-2007 Faculty, San Francisco General Hospital -Inpatient Nephrology Consult Service, 4 weeks
-Outpatient Nephrology Clinic, weekly

2008-Current Faculty, Stanford Hospital & Clinics -Inpatient Nephrology Consult Service, 4-6 weeks
-Outpatient Nephrology Clinic, weekly

TEACHING and MENTORING

Formal Teaching

2004-2007 Renal Section, Organs Block 1st Year Medical Students Small Group Discussant

2004-2006 Mechanisms of Disease 4th Year Medical Students Small Group Discussant

2005-2007 Medical Intern Lecture Series Organizer / Discussant

2006-2007 "Clinical Evaluation of Body Volume: Edematous States"
"Osmolality and Sodium Disorders", 1st Year Medical Students Class Lecturer

2006-Current Nephrology Fellows – Core Curriculum, UC San Francisco, Stanford University
"Diabetic Kidney Disease", "Cystic Kidney Disease", "Glomerular Disease", "Ingestions and the Kidney"

2007-2010 Endocrinology Fellow – Core Curriculum, UC San Francisco
"Diabetic Kidney Disease"

2008-Current Stanford Housestaff Lectures, "Diabetes and Kidney Disease"

2008-Current Practice of Medicine – Clinical Reason Sessions, 2nd Year Medical Students
Core Faculty Discussant

2009-Current Human Health and Disease 222- "Regulation of Water Balance",
Human Health and Disease 222- "Hyponatremia and Hypernatremia",
Human Health and Disease 222- "Sodium Balance",
Human Health and Disease 222- "Review Session- Renal Physiology"
Class Lecturer, 2nd year Medical Students
2010-Current Co-Director, Pre-clinic Course- Human Health and Disease 222, Nephrology section
2010-Current Bio 199X, Faculty Instructor

Predoctoral Students Supervised

2003-2005	John Siu	UC Berkeley
2008-2009	Xiaoyu Xia	UC Los Angeles
2009-2010	Sriya Mallidi	UC San Diego
2010-2011	Elizabeth Change Wendel	Stanford University
2011-Present	Donald Goens III	Stanford University
2011-Present	Aishu Venkataraman	Stanford University
2012	Justin Charles	Cornell University

Graduate Students Supervised

2005-2006	Marjolein Wijngaarden	Leiden University Medical Center (Netherlands)
2009	Simge Tektas	Yeditepe University (Turkey)

Postdoctoral Fellows Supervised

2008-2010	Sindhu Chandran	Stanford University
2008-2010	Jyothi Jayaram Vishnumanglam	Stanford University
2009-2011	Suresh S. Palaniyandi	Stanford University (co-mentor)
2010-2011	Puneeth Kumar Adishesha	Stanford University
2010-2012	Robert Bradley McClellan	Stanford University
2010-Current	Mariana Labarca	Stanford University
2011-Current	Gabriela Velez	Stanford University
2011-Current	Carlos Francisco	Stanford University

Informal Teaching

2001-2002 Teaching of UCSF Students / Residents on Nephrology Consult Service
Case Conference / Journal Club presentations for Division of Nephrology

2005-2007 Teaching of UCSF Students / Residents / Fellows on Inpatient Consult Service
Teaching of UCSF Students / Residents / Fellows in General Nephrology Clinic
Case Conference / Journal Club presentations for Division of Nephrology

2008-Current Teaching of Stanford Medical School Students / Residents / Fellows on Inpatient Consult Service / Case Conferences / Journal Club presentations for Division of Nephrology, Department of Medicine

Teaching Awards

2006 Excellence in Small Group Instruction, Nominee (1st year medical students, UCSF)
2007 Excellence in Teaching Award, Halie T. Debas Academy of Medical Educators
2012 Henry J Kaiser Family Foundation Award for Excellence in Preclinical Teaching, Stanford University School of Medicine

PUBLICATIONS (in chronological order)

Original Peer-Reviewed Articles (8)

1. **Bhalla V**, Nast CC, Stollenwerk N, Tran S, Barba L, Kamil ES, Danovitch G, Adler SG "Recurrent and De Novo Diabetic Nephropathy in Renal Allografts", *Transplantation.* 2003 Jan 15; 75(1): 66-71. PMID: 12544873.

2. **Vivek Bhalla**, Dorothée Daidié, Hongyan Li, Alan C. Pao, Lila P. LaGrange, Jian Wang, Alain Vandewalle, James D. Stockand, Olivier Staub, and David Pearce, "SGK1 regulates ubiquitin ligase Nedd4-2 by inducing interaction with 14-3-3", *Molecular Endocrinology*, 2005 Dec;19(12): 3073-84. PMID: 16099816.

3. **Bhalla V**, Oyster NM, Fitch AC, Wijngaarden MA, Neumann D, Schlattner U, Pearce D, Hallows KR, "AMP-activated kinase inhibits the epithelial Na- channel through functional regulation of the ubiquitin ligase Nedd4-2", *Journal of Biological Chemistry*, 2006, Sep 8; 281(36): 26159-69. PMID: 16844684.

4. Pao AC, McCormick JA, Li H, Siu J, Govaerts C, **Bhalla V***, Soundararajan R, Pearce D, "The N-terminus of Serum and Glucocorticoid Regulated Kinase 1 Binds to Phosphoinositides and is Essential for Isoform-Specific Physiologic Functions", *American Journal of Physiology, Renal Physiology,* 2007, Jun; 292(6):F1741-50. PMID: 173562130.
   * Participated in study design and in analysis/interpretation of data

5. **Bhalla V*^**, Hallows KR*, Oyster NM, Wijngaarden MA, Lee JK, Li H, Xia X, Huang Z, Chalkley RJ, Burlingame AL, Pearce D, "Phosphopeptide Screen Uncovers JNK1 as a Potentiator of

Nedd4-2-Mediated Epithelial Na+ Channel Inhibition", *Journal of Biological Chemistry*, 2010, Jul 9; 285(28): 21671-8. PMID: 20466724
*- co-first author; ^- corresponding author

6. Chandran S, Li H, Dong W, Krasinska K, Adams C, Alexandrova L, Chien A, Hallows KR, **Bhalla V,** "Neural Precursor Cell-expressed Developmentally Down-regulated Protein 4-2 (Nedd4-2) Regulation by 14-3-3 Protein Binding at Canonical Serum and Glucocorticoid Kinase 1 (SGK1) Phosphorylation Sites," *Journal of Biological Chemistry,* 2011, 2011 Oct 28; 286(43):37830-40. PMID: 21900244

7. Krishnan E, Lingala B, **Bhalla V, "**Low-level lead exposure and the risk for gout: Results from the NHANES study", *Annals of Internal Medicine*, 2012, Aug 21; 157(4):233-241. PMID 2291093

8. **Vivek Bhalla**, Beinan Zhao, Kristen M.J. Azar, Elsie J. Wang, Sarah Choi, Eric C. Wong, Stephen P. Fortmann, Latha P. Palaniappan, "Racial/Ethnic Differences in the Prevalence of Proteinuric and Non-proteinuric Diabetic Kidney Disease", *Diabetes Care*, 2012, Dec 13, epub ahead of print. PMID: 23238659

Review articles (6)

1. McCormick JA, **Bhalla V**, Pao AC, Pearce D, "SGK1: A Rapid Aldosterone-Induced Regulator of Renal Sodium Reabsorption", *Physiology*, 2005 Apr; 20: 134-9. PMID: 15772302.

2. **Bhalla V**, Soundararajan R, Pao AC, Li H, Pearce D, "Disinhibitory Pathways for Control of Sodium Transport: Regulation of ENaC by SGK1 and GILZ", *American Journal of Physiology, Renal Physiology*, 2006, Oct; 291(4): F714-21. PMID: 16720863.

3. **Bhalla V**, Hallows KR, "Mechanisms of ENaC Regulation and Clinical Implications", *Journal of the American Society of Nephrology*, 2008, October; 19(10): 1845-54. PMID: 18753254.

4. **Bhalla V**, Grimm PC, Chertow GM, Pao AC, "Melamine Nephrotoxicity- An Emerging Epidemic in the Era of Globalization", *Kidney International*, 2009, Apr; 75 (8): 774-9. PMID: 19212415.

5. Prakash S, Hernandez G, Dujaili I, **Bhalla V**, "Lead poisoning from an Ayurvedic herbal medicine in a patient with chronic kidney disease", Nature Reviews Nephrology, 2009, May, 5(5): 297-300. PMID: 19384331.

6. MG Velez, **Bhalla V**, "The Role of the Immune System in the Pathogenesis of Diabetic Nephropathy", *Journal of Nephrology and Therapeutics*, March 2012.

Editorials (2)

1. **Bhalla V**, "In diabetic nephropathy, high doses of vitamin B decrease glomerular filtration rate and increase risk of the composite outcome of a vascular event or all-cause mortality compared with placebo", *Evidenced Based Medicine*, 2011, Feb; 16(1): 14-5. PMID: 21047842.

2. **Bhalla V**, Velez MG, Chertow GM, "A Transcriptional Blueprint for Human and Murine Diabetic Kidney Disease", *Diabetes*, 2013 Jan; 62(1):31-3. PMID: 23258910

Book Chapters (1)

1. David Pearce, **Vivek Bhalla**, John Funder, John Stokes, "Aldosterone Regulation of Solute Transport", Brenner and Rector's The Kidney, 9th edition, Section 1, Chapter 6, 2011.

Abstracts not also appearing as full papers (7)

1. LaGrange LP, **Bhalla V**, Pearce D, Toney GM, Stockand JD, "Activation of the epithelial sodium channel by 14-3-3 proteins", Experimental Biology, 2005.

2. Kiran Khush, **Vivek Bhalla**, Celia Rifkin, Dana McGlothlin, Flavio Vincenti, Charles Hoopes, Teresa De Marco, "Combined Heart-Kidney Transplantation Reduces Costs and Improves Survival Compared to LVAD Destination Therapy for Patients with Concomitant Heart and Kidney Failure", International Society for Heart and Lung Transplant Annual Meeting, 2006.

3. Kiran Khush, **Vivek Bhalla**, Celia Rifkin, Dana McGlothlin, Flavio Vincenti, Charles Hoopes, Teresa De Marco, "Combined Heart-Kidney Transplantation in Patients with End-Stage Heart and Kidney Failure", *International Society for Heart and Lung Transplant Annual Meeting*, 2006.

4. Mariana Labarca, Wuxing Dong, Puneeth K. Adishesha, Robert B. McClellan, John B. Stokes, **Vivek Bhalla**, "A New Method for isolation and culture of principal cells for studies of ENaC Regulation", 7th International Symposium on Aldosterone and ENaC/Degenerin Family of Ion Channels: Molecular Mechanisms and Pathophysiology, Quadrennial Meeting, 2011.

5. Robert B. McClellan, Wuxing Dong, Michael Pellizzon, **Vivek Bhalla**, "Characterization of Blood Pressure and Urine Sodium Retention in Mouse Models of Insulin Resistance", *American Society of Nephrology Annual Meeting*, 2011.

6. Mariana Labarca, Donald Goens, Wuxing Dong, **Vivek Bhalla**, "Neural Precursor Cell Expressed, Developmental Down-Regulated 4 Like Protein, Serum- and Glucocorticoid-Induced Protein Kinase 1, and 14-3-3 proteins Differentially Regulate the Cleaved and Uncleaved Forms of the Epithelial Sodium Channel ", *American Society of Nephrology Annual Meeting*, 2012.

7. **Vivek Bhalla**, Elsie Wang, Kristen Azar, Katelyn Taylor, Alison Nomura, M. Laura Parnas, Latha Palaniappan, "Validation of Biomarkers for Diabetic Nephropathy in a Community-Based Healthcare Setting", *Stanford School of Medicine- Community Health Annual Symposium*, 2012.

RESEARCH SUPPORT

Current

10/12-09/13 Funder: Stanford Department of Medicine, Translational Research and Applied Medicine (TRAM) Pilot Grant
Title: Validation of Novel Biomarkers for Human Diabetic Kidney Disease
Role: Principal Investigator
Description: This grant will allow us to validate candidate autoantibodies for their association with kidney disease (albuminuria) in patients with Type 2 diabetes mellitus.

09/12-08/13 Funder: NIH/NIDDK, Research Supplements to Promote Diversity in Health-Related Research (DK09156502S1)
Title: ENaC Transport in Insulin Resistance: Role of Insulin & IGF-I Receptors
Role: Principal Investigator
Description: This supplemental funding will be of utmost importance to further the scientific experience of a promising underrepresented minority student as he chooses his career track in medicine and biomedical research.

09/11-08/16 Funder: NIH/NIDDK, Parent Grant Program (R01) (DK09156501A1)
Title: ENaC Transport in Insulin Resistance: Role of Insulin & IGF-I Receptors
Role: Principal Investigator
Description: This project will address the mechanisms which lead to salt-sensitive hypertension in the insulin resistance syndrome using principal cell-specific knockout mice. These experiments have no overlap with the R03.

03/11-10/12 (No-Cost Extension) Funder: Abbott Renal Care, Investigator-Initiated Study
Title: Oxidative/Carbonyl Stress and Vitamin D in Diabetic Nephropathy
Role: Principal Investigator
Description: This project will address the role of carbonyl stress in the pathophysiology of diabetic nephropathy, and the role of Vitamin D in carbonyl stress. Mouse models and cell culture studies will be used to implement the aims of the proposal.

Past

06/10-12/12 Funder: NIH/AMDCC Pilot & Feasibility Program
Title: Reduction of Carbonyl Stress for the Prevention of Diabetic Kidney Disease
Role: Principal Investigator

07/11-04/12 Funder: NIH/Clinical and Translational Science Award (UL1 RR025744), Office of Community Health-sponsored substudy
Title: Validation of Biomarkers for Diabetic Nephropathy in a Community-Based Healthcare Setting
Role: Principal Investigator

07/10-06/12 Funder: NIH/NIDDK, Small Grant Program (R03) (1DK083613)
Title: Molecular Mechanisms of Distal Sodium Transport in Insulin Resistance
Role: Principal Investigator

09/10-08/11 Funder: American Society of Nephrology – Carl W. Gottschalk Research Grant
Title: Molecular Mechanisms of Salt-Sensitive Hypertension in Insulin Resistance
Role: Principal Investigator

09/08-09/10 Funder: National Kidney Foundation, Shaul G. Massy Young Investigator Grant (YIB787)
Title: Isoform-Specific Roles of 14-3-3 Proteins in Sodium Transport
Role: Principal Investigator

09/05-08/12 Funder: NIH/NIDDK, Mentored Clinical Scientist Award (K08) (1DK071648)
Title: Role of Nedd4-2, SGK1, and 14-3-3 in ENaC Trafficking
Role: Principal Investigator

07/04-08/05 Funder: NIH/NIDDK, Ruth L. Kirschstein National Research Service Award (F32) (1F32DK066968)
Title: Sgk1-Mediated Effects on Sodium Transport in the Kidney
Role: Principal Investigator

BASIC RESEARCH PROGRAMS

1. "Molecular Mechanisms of Sodium Transport in Insuiln Resistance"
   Principal Investigator, 2008-Current
   Collaborator(s): Dan Bernstein, MD, Stanford University
   Fredric Kraemer, MD, Stanford University
   Ralph Rabkin, MD, Stanford University
   Lisa M Satlin, MD, Mount Sinai School of Medicine
   Tianxin Yang, MD, PhD, University of Utah Health Sciences Center
   Using transgenic mouse models and primary culture of collecting duct epithelia to understand the molecular basis of salt-sensitive hypertension which accompanies the insulin resistance syndrome

2. "Functional Genomic Approach to the Study of Diabetic Glomeruli"
   Principal Investigator, 2008-Current
   Collaborator(s): Timothy W. Meyer, MD, Stanford University
   Sanchita Bhattacharya, PhD, Stanford University

Identifying difference in glomerular gene expression between inbred strains of mice with varied susceptibility to hyperglycemia

3. "Oxidative/Carbonyl Stress in Diabetic Kidney Disease"
   Principal Investigator, 2008-Current
   Collaborator(s): Daria Mochly-Rosen, PhD, Stanford University
   Sanjay Srivastava, PhD, University of Louisville
   Modulating detoxifying enzymes which alter the level of toxic aldehydes in kidney tissue to elucidate mechanisms of diabetic kidney disease

4. "Genetic Defects in Ion Channels – Implications for Blood Pressure, Fluid/Electrolyte Homeostasis"
   Principal Investigator, 2011-Current
   Collaborator(s): Merritt Maduke, PhD, Stanford University
   Using novel genetic mutations to characterize the function of human chloride channels in the kidney

5. "Mechanisms of Functional Interaction between Nedd4-2, 14-3-3, and ENaC"
   Principal Investigator, 2008-2011
   Collaborator(s): Kenneth Hallows, MD, PhD, University of Pittsburgh
   Defining mechanisms of 14-3-3-mediated inhibition of Nedd4-2 and subsequent stimulation of ENaC using biochemistry, molecular biology, mass spectrometry, and electrophysiology

6. "Regulation of Nedd4-2 by JNK1 Phosphorylation"
   Principal Investigator, 2005-2010
   Collaborator(s): Kenneth Hallows, MD, PhD, University of Pittsburgh
   Robert Chalkey, PhD, Alma Burlingame, PhD; UCSF
   Identified sites of regulatory phosphorylation of the E3 HECT-domain ubiquitin ligase Nedd4-2, and elucidating the mechanisms of regulation

7. "Isoform-Specific Roles of 14-3-3 Proteins in Sodium Transport"
   Principal Investigator, Young Investigator Grant (NKF), 2008-2010
   Defined mechanisms of specificity for 14-3-3 isoforms in the coordinate regulation of epithelial sodium transport by SGK1 and Nedd4-2 in collecting duct epithelia

8. "Role of Nedd4-2, SGK1, and 14-3-3 in ENaC Trafficking"
   Principal Investigator, Mentored Clinical Scientist Award (K08), 2005-2010
   Mentors: David Pearce, MD, UCSF (Former); W. James Nelson, PhD, Stanford University (Current)
   Elucidated the mechanisms by which regulators of sodium transport affect the intracellular trafficking of the epithelial sodium channel (ENaC)

9. "Mechanism of AMP kinase (AMPK)-mediated Regulation of Sodium Transport"
   Principal Investigator, 2005-2006
   Mentor: David Pearce, MD, UCSF
   Collaborator(s): Kenneth Hallows, MD, PhD, University of Pittsburgh
   Studied the mechanisms by which energy metabolism is coupled to sodium transport by biochemical and mass spectrometry techniques

10. "The Role of 14-3-3 Proteins in SGK1-Mediated Sodium Transport"
    Principal Investigator, Ruth L. Kirschstein National Research Service Award (F32), 2004-2005
    Mentor: David Pearce, MD, UCSF
    Characterized the molecular mechanisms by which SGK1 stimulates ENaC-mediated sodium transport in the distal nephron

11. "Effects of Insulin Resistance on Glucose Disposal in Skeletal Muscle"

Principal Investigator, Independent Study Project (ISP), UCSD School of Medicine, 1996-1998
Mentor: Robert R. Henry, MD, UCSD School of Medicine
Investigated the effect of IGF-1 vs. insulin on human skeletal muscle cell cultures from diabetic and non-diabetic patients

Vivek Bhalla, "Analysis of Insulin and IGF-1 Mediated Signaling Pathways in Skeletal Muscle Cell Cultures of Nondiabetic and Type 2 Diabetic Subjects: Searching for the Location of Insulin Resistance", ISP Thesis, 1998.

CLINICAL RESEARCH PROGRAMS

1. "Biomarker Discovery for Diabetic Kidney Disease"
   Co-Principal Investigator, 2009-Current
   Collaborator(s): Minnie Sarwal, MD, PhD, MRCP, CPMC
   Atul Butte, MD, PhD, Stanford University
   Glenn Chertow, MD, MPH, Stanford University
   Carmen Peralta, MD, MPH, UCSF
   Latha Palaniappan, MD, MPH, PAMF, Stanford University
   Joanna Lillenthal, PhD, Stanford University
   Discovering candidate biomarkers for the onset and progression of diabetic kidney disease in adults using antibody-omics and bioinformatics

2. "Kidney Complications of the Metabolic Syndrome in Asians"
   Consulting Investigator, PAMF Research Institute, 2011-2012
   Collaborator(s): Latha Palaniappan, MD, MPH, PAMF, Stanford University
   Define prevalence, incidence, and risk factors for diabetic nephropathy and metabolic syndrome-related hypertension in Asians compared with other race/ethnicity cohorts.

3. "Pb2+ as a risk factor for hyperuricemia, gout, and progression of kidney disease"
   Co-Principal Investigator, 2010-Current
   Collaborator(s): German Hernandez, MD, Texas Tech University
   Marcia Stefanick, PhD, Stanford University
   Eswar Krishnan, MD, Stanford University
   Using longitudinal, well-phenotyped cohorts to better understand the role of Pb2+ exposure in hyperuricemia, gout, bone disease, and the progression of diabetic kidney disease

4. "Risk Factors for Recurrent or De Novo Diabetic Nephropathy in Renal Allografts"
   Principal Investigator, 1999-2001
   Mentor: Sharon Adler, MD, Harbor-UCLA Medical Center
   Analyzed clinical risk factors for the development of recurrent and de novo diabetic nephropathy in renal transplant patients

PROFESSIONAL ORGANIZATIONS

Memberships
2001-Present American Heart Association, Renal Division
2001-Present Renal Physicians Association
2001-Present American Society of Nephrology (Fellow, Investigator Track)
2004-Present American Society of Cell Biology
2006-Present National Kidney Foundation
2009-Present Cardiovascular Institute, Stanford University
2011-Present Child Health Research Institute, Stanford University

Study Sections

07/08 National Institutes of Health, Adhoc Reviewer, ZHL1 CSR-D (O1) 1 - Grand Opportunities in Large Scale DNA Sequencing and Molecular Profiling of Well Phenotyped NHLBI Cohorts

02/10 Food and Health Bureau of the Hong Kong SAR Government, Adhoc Reviewer, Health and Health Services Research Fund

04/11-Current American Heart Association- Molecular Signaling 4- Peer Review Committee

07/11 NIH-Diabetes Complications Consortium, Reviewer, Pilot & Feasibility Grants

Service to Professional Publications

8/04-Present	European Molecular Biology Organization (EMBO) Journal	- Manuscript reviewer
4/05-Present	Journal of the American Society of Nephrology	- Manuscript reviewer
5/05-Present	American Journal of Physiology, Renal Physiology	- Manuscript reviewer - Editorial Board
8/09-Present	Pediatric Nephrology	-Manuscript reviewer
12/09-Present	Nephron	-Manuscript reviewer
12/09-Present	Proceedings of the National Academy of Sciences	-Manuscript reviewer
01/10-Present	PPAR Reviews	-Manuscript reviewer
02/10-Present	Growth Hormone and IGF-1 Research	-Manuscript reviewer
05/10-Present	Frontiers in Physiology – Renal and Epithelial Physiology	-Editorial Board
01/11-Present	Journal of Diabetes Mellitus	-Editorial Board
07/11-Present	American Journal of Kidney Diseases	-Manuscript reviewer
09/11-Present	Diabetes	-Manuscript reviewer
10/12-Present	Journal of the American Medical Association	-Manuscript reviewer

Consultations

2007-Present Medical Advisory Board, Viscira

2011-Present Consulting Investigator, Palo Alto Medical Foundation Research Institute (PAMFRI)

Clinical Trials

2010	Ardian, Symplicity HTN-2	-Data Safety Monitoring Board
2012	Reata Pharmaceuticals, Protocol 402-C-0903	-Site-Principal Investigator
2012-Current	Kona, KM 12-001	-Data Safety Monitoring Board

INVITED PAPERS, LECTURES, PRESENTATIONS

Renal Grand Rounds, UCSF

05/02 “Pathophysiology of Polycystic Kidney Disease”
02/03 “RNA Intereference and Potential Applications for Nephrology”
12/03 “Searching for Causes of Hypertension: One Protein at a Time”
08/04 “Amyloidosis – Pathophysiology and New Treatments”
03/06 “Basic Science Techniques in Nephrology – The Science Behind the Science”
05/07 “Research Conundrums in Diabetic Nephropathy – Of Mice and Men”

Renal Research Conference, UCSF

04/04 “Role of 14-3-3 Proteins in SGK1-Mediated Sodium Transport”
01/05 “Updates on Research – Coordinate Regulation of Sodium Transport by SGK1 and 14-3-3 Proteins”
02/06 “Updates on Research – Coordinate Regulation of Sodium Transport by SGK1 and 14-3-3 Proteins”
12/06 “Further Insights into the Regulation of Nedd4-2 – Research in Progress”

Nephrology Grand Rounds, Stanford

09/11 “Oxidative Stress in DKD: Overcoming Obstacles”

Renal Research Conference, Stanford University

09/08 “The Search for Early Onset Genes in Diabetic Kidney Disease”
01/10 “Molecular Mechanisms of Salt-Sensitive Hypertension in Insulin Resistance”
02/11 “Nedd4-2: Convergence Point for Kinase Regulation of Sodium Transport”
01/12 “Mouse Model of Obesity, Insulin, Resistance, and Hypertension: Work in Progress”

Invited Presentations (21)

10/00 “Recurrent and De Novo Diabetic Nephropathy in Renal Allografts” - American Society of Nephrology Annual Meeting, Toronto, Canada
11/03 “Mechanisms of SGK1-Mediated Transport through Nedd4-2 Inhibition” - American Society of Nephrology Annual Meeting, Free Communication, San Diego, CA
05/04 “SGK1-Mediated Regulation of Sodium Transport” - National Kidney Foundation Young Investigator Forum; San Francisco, CA
11/04 “The Role of 14-3-3 Proteins in SGK1-Mediated Sodium Transport” - American Society of Nephrology Annual Meeting, St. Louis, MO
12/04 “The Role of 14-3-3 Proteins in SGK1-Mediated Sodium Transport” - American Society of Cell Biology Annual Meeting, Washington, DC
03/05 “14-3-3 Proteins Propagate SGK1 Regulation of Na+ Transport” - Oregon Health Sciences University, Division of Nephrology, Renal Research Conference, Portland, OR
04/05 “Coordinate Regulation of Sodium Transport by SGK1 and 14-3-3 Proteins” - Research in Progress Seminar, UC San Francisco, San Francisco, CA
04/06 “Coordinate Regulation of Sodium Transport by SGK1 and 14-3-3 Proteins” - LKEM-UCSF Alumni Meeting (pre-EB), San Francisco, CA
02/07 “Molecular Determinants of Distal Sodium Transport” – Stanford University, Division of Nephrology, Grand Rounds, Stanford, CA
03/07 “Mechanisms of Nedd4-2-Mediated Inhibition of Sodium Transport” – West Coast Salt and Water Club, Morro Bay, CA
05/07 “Molecular Determinants of Aldosterone-Sensitive Sodium Transport” – Oregon Health Sciences University, Division of Nephrology, Grand Rounds, Portland, OR
11/07 “Novel Regulation of Sodium Transport via Phosphorylation of Nedd4-2”, - American Society of Nephrology, Annual Meeting, San Francisco, CA
07/08 “Regulation of ENaC-Mediated Sodium Transport Via Phosphorylation of Nedd4-2”, - Epithelial Physiology and Cell Biology, Annual Meeting, Telluride, CO
01/09 “Research Conundrums in Diabetic Kidney Disease”, -Stanford University, Division of Endocrinology, Grand Rounds, Stanford, CA
04/10 “Phosphopeptide Screen Uncovers Novel Nedd4-2 Phosphorylation Sites that Potentiate its Inhibition of the Epithelial Na^+ channel (ENaC)”, Featured Speaker, - Experimental Biology, Annual Meeting, Anaheim, CA
07/10 “Analysis of Nedd4-2 Phosphorylation Reveals Major Role for Minor Sites”, - Epithelial Physiology and Cell Biology, Annual Meeting, Telluride, CO
09/10 “A Major Role for Minor Site Phosphorylation in 14-3-3 Mediated Regulation of Nedd4-2 and ENaC”, Mass Spectrometry Users’ Meeting, Stanford, CA
08/11 “Novel Method for Isolation and Culture of Murine Principal Cells”, - Epithelial Physiology and Cell Biology, Annual Meeting, Telluride, CO
09/11 “Regulation of Ubiquitin Ligase Activity and Phosphorylation by SGK1”- 7th International Symposium on Aldosterone and ENaC/Degenerin Family of Ion Channels: Molecular Mechanisms and Pathophysiology, Quadrennial Meeting, Pacific Grove, CA
08/12 “Guyton’s Kidney Factor: Influences of Obesity and Hyperinsulinemia on Epithelial Sodium Transport”, - Epithelial Physiology and Cell Biology, Annual Meeting, Telluride, CO
09/12 “Guyton’s Kidney Factor: Influences of Obesity and Hyperinsulinemia on Epithelial Sodium Transport”, - Renal Research Conference, Mount Sinai School of Medicine, NY

UNIVERSITY / COMMUNITY SERVICE

03/09	“Diabetes and Kidney Disease”, Bay Area Association of Kidney Patients, Featured Speaker, Palo Alto, CA
2010-2011	Department of Medicine Physician-Scientist Advisory Committee
2011-Current	Candidate Interviewer, Internal Medicine Residency Selection Committee
06/12	“Diabetic Kidney Disease”, Stanford Nephrology Clinical Update, 49ers Day, Santa Clara, CA
09/12	“Diabetes and Kidney Disease”, Bay Area Association of Kidney Patients, Featured Speaker, Palo Alto, CA