

Syed Jalal Khundmiri, Ph.D.
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EDUCATION:

Ph.D. Biochemistry, Aligarh Muslim University, Aligarh, India:	July - 1996
M. Phil Biochemistry, Aligarh Muslim University, Aligarh, India:	March - 1993
M. Sc Biochemistry, Aligarh Muslim University, Aligarh, India:	May - 1990
B. Sc Chemistry, Osmania University, Hyderabad, India:	April - 1988

Other Training Courses:

Laboratory Course in Animal Models of AKI, VA San Diego, Instructor: Dr. Volker Vallon, April 2014
Laboratory Course in Advanced Microscopy Techniques, Laboratory of Fluorescence, University of California, Irvine, October 2011

ACADEMIC POSITIONS:

Tenured Associate Professor Department of Physiology and Biophysics Howard University School of Medicine Washington DC.	(April 2020 – Present)
Tenure Track Associate Professor Department of Physiology and Biophysics Howard University School of Medicine Washington DC.	(June 2015 – April 2020)
Chair Graduate Curriculum Committee Department of Physiology and Biophysics Howard University School of Medicine Washington DC.	(Jan 2016 – Dec 2019)
Director Epithelial Transport Laboratories University of Louisville - Kidney Disease Program Louisville, Kentucky	(August 2010 – June 2015)
Co-Director Imaging Facility University of Louisville - Kidney Disease Program Louisville, Kentucky	(August 2010 – June 2015)
Adjunct Professor Bluegrass Community and Technical College	(Jan 2011 – Dec. 2011 and May 2014 – June 2014)
Assistant Professor	(July 2004 – June 2015)

University of Louisville - Kidney Disease Program
Louisville, Kentucky

Instructor of Medicine (July 2003 – June 2004)
University of Louisville - Kidney Disease Program
Louisville, Kentucky

Post-Doctoral Fellow (Mar 1999 – June 2003)
University of Louisville, Louisville

Senior Research Officer (Aug 1996 – Feb. 1999)
Liver Disease Program, Osmania University, Hyderabad, India

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES:

American Physiological Society: 1999-2024
American Society of Nephrology: 2003-2021
American Heart Association: 2008-2021
Fellow American Heart Association: 2015
Indian Association of Immunologists: Life Member
Society of Biological Chemists of India: Life Member
Kentucky Science Foundation
Member Board of Directors LRSEF (Jan 2011 – March 2015)

HONORS AND AWARDS:

1996 & 1994 Nominated for Marion Merrell Dow Excellence in Renal Research Award in the FASEB meetings of 1994 & 1996.

1991 Qualified National Education Test for Research, Conducted by Council for Industrial and Scientific Research and University Grants Commission, Govt. of India. Graduate fellowship in the form of Junior and Senior Research Fellowship for research in Indian Universities and Institutes is awarded by the Government of India only to students qualifying this test.

1990 Qualified Graduate Aptitude Test in Engineering and Life Sciences, Conducted by Dept. of Human Resources, Govt. of India

COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES:

Departmental Committees:

May 2020 – Present: Member Appointment and Tenure Committee, Department of Physiology and Biophysics.

Jan 2016- 2019: Chair Graduate Curriculum Committee, Department of Physiology and Biophysics

2017-2019: Member, Recruitment Committee, Department of Physiology

College of Medicine:

2017-2023 Member, Committee on Committees, College of Medicine

Howard University:

Jan 2016-Dec 2018: Member, University Library Committee

2018-2021: Member, Committee on Community Relations, Student and Alumni Affairs (2018-2020)

October 2022 – Present: Member, Institutional Animal Care and Use Committee (IACUC) Howard University

June 2026 – Present: Member Curriculum Committee, Graduate School

Extramural:

2007-2008: Chairman, Biological Transport Group affiliated with American Physiological Society.

2006-2007: Vice-Chairman of the Biological Transport Group affiliated with American Physiological Society.

2007-2008: Member Steering Committee Education for Fellows in Kidney Disease Program, University of Louisville.

2004-2006: Organized Na-K ATPase Journal Club once every month, which is attended by experts in the field from Pathology, Pharmacology, Neurology, Psychiatry, Ophthalmology, and Kidney Disease Program

2005-Present: Interview Nephrology Fellowship Applicants

Clinical Conferences: 1 lecture every year in Division of Nephrology

American Heart Association Grants Review Committee, Cell and Transport Biology (2008-2013) and Cardiorenal Sections (2008-2017), AIREA Grants Committee – 2017 – 2020.

Ad hoc Reviewer – Swiss National Science Foundation Grants – Ion Transport

Ad hoc Reviewer – New Zealand Cancer Foundation

Ad hoc Reviewer – United Kingdom Research and Innovation BBSRC

01/2021 Ad hoc member, NSF-IOS-Physiological Mechanisms and Biomechanics Study Section.

10/2024 Ad hoc member KUFD Study Section, NIH

02/2025 AHA, Reviewer SFRN Cardiovascular Kidney Metabolic Syndrome: Heterogeneity in Women

10/2025 Ad hoc member KUFD Study Section, NIH

7/2025 Ad hoc member Mentored Career Development Awards Special Emphasis Panel

7/2026 Ad hoc member Mentored Career Development Awards Special Emphasis Panel

EDUCATIONAL ACTIVITIES:

Teaching

Undergraduate – General Physiology and Aging Biology:

Renal Transport in Aging

Respiratory Function in Aging

Epigenetic Mechanisms of Aging

Physician Assistant Physiology Course

Regulation of Na, Cl, and ECF

Regulation of K and Ca

Acid-Base Balance (Renal Mechanisms)

Graduate: Advanced Mammalian Physiology (Course No.: 80744-204-01)

Respiratory Physiology

Physiology of Pulmonary Circulation

Respiratory Control

Physiology of Hypoxia, Hypercapnia, and Hypocapnia

Special Environments: Altitude, Diving, and Oxygen therapy

Non-respiratory functions of Lungs

Acid-Base balance (Respiratory Mechanisms)

Graduate: PHSI 252-01, Cellular and Molecular Physiology

Research Methodologies

G-protein Coupled receptors and their functions

Graduate: PHSI21001202201: SP 2022 - Basic Medical Physiology Co-coordinator

Teaching:

Renal Physiology:

Tubular Reabsorption

Tubular Secretion

Basic Concepts of Body Fluids

Structure and Functions of Nephrons, Hemodynamics, Glomerular Filtration, and Integrated Control of Body Fluids

Tubular Reabsorption and Secretion

Renal Handling of Sodium and Water

Potassium, Phosphate, Calcium, and Diuretics

Micturition and Non-Renal Functions of Kidneys

Acid-Base balance (Renal Mechanisms)

Respiratory Physiology:

Acid-Base Balance (Respiratory Mechanisms)

Non-Respiratory Functions of Lungs

Dental College (Postgraduate)

Co-coordinator Physiology course number DENT174

Teaching:

Renal Physiology:

Tubular Reabsorption

Tubular Secretion

Basic Concepts of Body Fluids

Structure and Functions of Nephrons, Hemodynamics, Glomerular Filtration, and Integrated Control of Body Fluids

Tubular Reabsorption and Secretion

Renal Handling of Sodium and Water

Potassium, Phosphate, Calcium, and Diuretics

Micturition and Non-Renal Functions of Kidneys

Acid-Base balance (Renal Mechanisms)

Respiratory Physiology:

Acid-Base Balance (Respiratory Mechanisms)

Non-Respiratory Functions of Lungs

Medical (MD students) SF-III

Respiratory Physiology

Acid-Base Balance (Respiratory Mechanisms)

Pulmonary Circulation

Non-Respiratory Functions of Lungs

Renal Physiology

Acid Base homeostasis

Physiology Labs (MD students)

Computer Simulations of Action Potentials

Nerves and Muscles

Physiology of Reflexes

Somatosensation

Special Senses – Olfactory

Special Senses – Vision

EEG

Cardiovascular – ECG

ANS and CV System

Respiratory Mechanics

Gas Exchange

Gastrointestinal Transport

Renal Circulation

SGL-Structure and Function Unit III (MD Students)

Respiratory Function and Obesity

Endocrine System – Thyroid and Pancreatic Diseases (Type I and II Diabetes)

PBL – Structure and Function Unit III (MD Students)

Renal – Acid base regulation in a case of Aspirin toxicity

Simulation Lab-Structure and Function Unit III (MD Students)

Simulation Lab Respiratory Physiology

Students Mentored in Lab:

Postdoctoral Fellow: Asrar Ahmad, Ph.D., Department of Physiology and Biophysics, Howard University

High School, Undergraduate, MS, MD, and Ph.D. Students:

Shaza Khan – Howard University Department of Physiology and Biophysics, Graduate student, Now a postdoctoral fellow at NHLBI, Bethesda

David Hardin – Howard University Department Biology, Aging Research Program, Currently, RN Inova Hospital, Fairfax, VA.

Moriam Falade – Howard University, Department of Biology, Honors Student

Kayla Massey – Howard University, Department of Biology, Honors Student

Anish Jain – MD Student, Howard University College of Medicine, Urology Surgery Fellow at Stanford University, CA

Ahmed Ali – Second year MD student, Howard University College of Medicine

Mathelier Gerard – Second year MD student, Howard University College of Medicine

Andriae LaCour – Second year MD student, Howard University College of Medicine

Laila Mohammed – Howard University Nutritional Sciences, Undergraduate Student

Clifton Enlers – Fourth year Dental Student, Howard University College of Dentistry

Gabriel E Carter – MD Student, Howard University College of Medicine, now an Internal Medicine resident at UVA

Riad Abdulmoniem – MD Student, Howard University College of Medicine, Radiology Resident, Kaiser Permanente, CA

Mohammed Syed – George Mason University, Biology Major, Undergraduate Student
Clayton Conner, MS student, Department of Physiology and Biophysics, University of Louisville, currently a Dermatologist (Private Practice)
Corey Ketchem, MS student, Department of Physiology and Biophysics, University of Louisville, currently a Gastroenterologist at UNC
Rebecca Murray, (co-mentor) Graduate Student, Department of Physiology, University of Louisville, currently Associate Product Manager of Confocal Microscopy at Olympus - Olympus Life Science
Ericka Hardin, KBRIN Student, Undergraduate Western Kentucky University
Sarah Salyer, MS student, Department of Physiology and Biophysics, currently Intern, VCA Animal Specialty Center of South Carolina.
Francisca Pribble, (co-mentor) Completed MS, Department of Physiology and Biophysics, currently Resident in New York
Kristine Holthouser, completed MS Department of Physiology and Biophysics, University of Louisville, Ob/Gyn. Norton Hospital, Louisville, KY
Cibi Aramugam, (co-mentor) completed MS, Department of Physiology and Biophysics, currently Nephrologist Private Practice in Arizona
Jason Parks, Undergraduate Student, Centre College, currently MD student, University of Louisville, currently Radiation Oncologist
Anthony Distler, Undergraduate Student, Centre College, KY, currently a Dentist Private practice
Jordan Olberding, Undergraduate Student, Western Kentucky University, currently graduate student Yale University
Brandon Farmer, Undergraduate Student, Western Kentucky University, currently Anesthesiology Resident, Vanderbilt University
Ryan Bennett, MD Student, University of Louisville, Orthopedic Surgeon, Private Practice, CA
John Lewis, MD Student, Duke University, Surgeon, Duke
Jeff Henson, MD Student, University of Louisville, Occupational Medicine, Private Practice
Vishal Amin, MD Student
Yaruk Chowhan, Undergraduate Student, University of Louisville
Fredrick Flemister Jr. High School student, Ballard High School, currently Registered Nurse
Emmanuel Flemister, High School Student, Ballard High School, currently Undergraduate student, University of Kentucky

Current Students:

Zaria Opara – Howard University Department of Physiology and Biophysics, Graduate student
Solomon Procnier – Senior, Howard University College of Arts and Science
Olurotimi Isaacs – Senior Howard University College of Arts and Science

GRANTS:

COMPLETED

1. Role of salt-induced blood pressure in progression of Alzheimer's disease.
Bridge Grant – Howard University College of Medicine
 PI: Syed J Khundmiri, Ph.D., \$25,000/year 11/2021 – 10/2022
2. Dopamine Regulation of Na-K ATPase in aging: Role of NHERF-1. (35% effort)
NIH – R21 (1R21 AG047474-01A1)
 PI: Syed Jalal Khundmiri, Ph.D. \$275,000 9/1/2014 – 5/31/2017
3. Title: Role of Age and Angiotensin II in ouabain-induced blood pressure
American Heart Association (16GRNT-31030019)

PI: Syed Jalal Khundmiri, Ph.D.

\$154,000.00

7/1/2016 – 6/30/2019

SUBMITTED/IN SUBMISSION:

1. REGULATION OF ALCOHOL WITHDRAWAL-DEPENDENT BLOOD PRESSURE
R21 – NIAAA

PI: Syed J Khundmiri, Ph.D., \$125,000/year 7/2027 – 6/2029

2. Role of NHERF1 in salt-sensitive hypertension in aging
R21 – NIA

PI: Syed J Khundmiri, Ph.D., \$125,000/year 9/2027 – 8/2029

EDITORIAL WORK: (Reviewer)

American Journal of Physiology Renal Physiology

American Journal of Physiology Cell Physiology

American Journal of Physiology Regulatory Physiology

Kidney International

Journal of Cell Science

Journal of Cell Physiology

Journal of Endocrinology

Molecular and Cellular Endocrinology

Biochimica Biophysica Acta

Life Sciences

Clinical Pharmacology and Physiology

Journal of Cell Biology

Investigative Ophthalmology & Visual Sciences

Hypertension Research

Diabetes

Journal of Endocrinology

MDPI publications

PLoS

Associate Editor: Frontiers in Physiology Renal Physiology

Section Editor: Sex Differences in Renal Physiology

Section Editor: Molecular Physiology of Kidney Function and Disease

ABSTRACTS AND PRESENTATIONS:

ORAL PRESENTATIONS:

1. Aldosterone Stimulates Na-K ATPase in Human Proximal Tubular Cells. Biological Transporter Meeting Organized by American Physiological Society, June 2005.
2. Aldosterone Stimulates Na-K ATPase in Human Proximal Tubular Cells. Southern Salt and Water Meeting Organized by American Physiological Society, 30th Nov-4th Dec. 2005.
3. Aldosterone Stimulates Na-K ATPase in Human Proximal Tubular Cells. Kidney Disease Program, Research Conference, 2006.
4. Ouabain Induces Proximal Tubule Cell Proliferation by Calcium Dependent Activation of AKT. Kidney Disease Program, Research Conference, 2006.
5. Hypertension: Role of Na-K ATPase. Kidney Disease Program, Clinical Conference, 2006.
6. Novel Role for Na, K-ATPase in Phosphatidylinositol 3-Kinase Signaling and Suppression of Cell Motility. Na-K ATPase Journal Club, Research Conference, 2006.

7. The 14-3-3 Protein Translates the Na⁺, K⁺ -ATPase α 1-subunit Phosphorylation Signal into Binding and Activation of Phosphoinositide 3-Kinase during Endocytosis. Na-K ATPase Journal Club, Research Conference, 2006.
8. Ouabain Induces Proximal Tubule Cell Proliferation by Calcium Dependent Activation of AKT. Biological Transport Meeting Organized by American Physiology Society, June 2006.
9. The sodium hydrogen exchanger regulatory factor (NHERF) regulates transcription and trafficking of the type IIa sodium-phosphate cotransporter through different protein domains. ASN Nov, 2006.
10. Na-K ATPase – Mechanisms of Regulation, Department of Biology, Nov. 2007
11. Regulation of Na-K ATPase by PTH: Signaling Mechanisms and Associated Proteins, Division of Nephrology, University of Colorado. February 2007
12. Regulation of Na-K ATPase by PTH: Signaling Mechanisms and Associated Proteins, Department of Biology, University of Memphis. March 28, 2007
13. Ouabain Regulates Na-K ATPase stimulation through an Akt and ERK dependent Mechanisms. Annual Transport Biology Meeting Affiliated to APS, Cumberland Lake Resort, KY, June, 2007
14. Congestive Heart Failure, Role of Na-K ATPase. Noon Conference, Kidney Disease Program. September 2007
15. Aldosterone Stimulates Na-K ATPase in Human Proximal Tubular Cells. Biological Transporter Meeting Organized by American Physiological Society, June 2008.
16. Ouabain induces Na-K ATPase activity through NHE1 dependent mechanisms. Biological Transport Meeting Organized through American Physiological Society, June 2008.
17. Aldosterone – Effects on Renal Proximal Tubules. Noon Conference, Kidney Disease Program. September 2009
18. Cardioglycoside induced hypertension – Role of proximal Tubular Na-K ATPase. Department of Physiology and Biophysics, September 2009
19. Cardiac glycoside – Role in HTN, Cardiology Grand Rounds, Feb -2010
20. Cardiac glycoside mediated HTN: Role of AT1R, Department of Physiology Seminar Series, Nov 2011
21. PTH and dopamine regulate Na-K ATPase by differential mechanisms. Invited talk, University of Hyderabad, Hyderabad India, August 2012.
22. Khundmiri, Syed J.; Merchant, Michael L.; Lederer, Eleanor D. Na-K ATPase Regulation by Cardioglycosides: Role of AT1R. Experimental Biology Meeting Location: San Diego, CA Date: APR 21-25, 2012, FASEB JOURNAL, Volume: 26, APR 2012.
23. Khundmiri, Syed J. Role of NHERF-1 in salt-sensitive hypertension and dopamine receptor trafficking in aging. Invited Lecture, Department of Physiology, Arizona University, January 2015
24. Khundmiri, Syed J. Ouabain regulation of Na-K ATPase is dependent upon angiotensin II release and AT1R activation in renal proximal tubule cells. Invited Lecture, Department of Physiology and Marshall Institute of Interdisciplinary Research, Marshall University, March 2015
25. Khundmiri, Syed J. Renal function and salt-sensitive hypertension in aging. Invited Lecture, Department of Biology, Howard University, September 2015
26. Khundmiri, Syed J. Role of NHERF1 in salt-sensitive hypertension. Presented at Annual Southern Salt and Water Kidney meeting, Sarasota, Florida, December 2015
27. Khundmiri, Syed J. Angiotensin II dependent activation of sodium transport in kidney tubules is independent of PPAR- α . Invited Lecture, Division of Nephrology and Hypertension, Department of Medicine, University of Louisville, August 2016.
28. Khundmiri, SJ. Role of NHERF1 in aging kidney: A tale of two rat models. Presented at the Southern Salt and Water Kidney meeting, Sarasota, Florida, December 2016.
29. Khundmiri, SJ. Role of NHERF1 in aging: Changes in miRNA. Presented at the Annual Salt-Water meeting at University of Maryland, 2018
30. Khundmiri, SJ. Role of NHERF1 in salt-sensitive hypertension. Presented at the Annual Experimental Biology Meeting. Invited talk. San Diego, 2018
31. Khundmiri, SJ. RNA-Seq in cultured proximal tubule cells reveals lack of expression of proximal tubule markers. Presented at Work in Progress, NHLBI, NIH, November 2019

POSTER:

1. **S.J. Khundmiri**, Md. Asghar and A.N.K. Yusufi (1993). Differential effect of ischemia on the enzymes of brush border membranes (BBMV) from superficial and deep renal cortex. FASEB J. 7 Pt 1, 2635, A 455
2. A.N.K. Yusufi, Md. Asghar, F. Khan, and **S.J. Khundmiri** (1993) Postnatal maturation of enzymes of brush border membranes (BBMV) during growth and development. FASEB J 7 Pt 2 3420, A590
3. Md. Asghar, F. Khan, **S.J. Khundmiri**, S. Salim, and A.N.K. Yusufi (1994). Enzymes of carbohydrate metabolism in rat renal cortex and medulla and liver during postnatal development and growth FASEB J. 4 Pt. 1, 3106, A536
4. S. Salim, Md. Asghar, F. Khan, **S.J. Khundmiri**, and A.N.K. Yusufi (1994) Effect of fasting on phosphate transport in brush border membranes of renal proximal tubules. FASEB J. 4, Pt 2, 4850, A837
5. **S.J. Khundmiri**, Md. Asghar, F. Khan, S. Salim and A.N.K. Yusufi (1994) Effect of renal ischemia on phosphate transport in brush border membranes of renal proximal tubules. FASEB J. 4, Pt 2, 4853, A837
6. **S.J. Khundmiri**, Md. Asghar, F. Khan, S. Salim and A.N.K. Yusufi (1996) Properties of 32 Pi transport in renal proximal tubules during ischemia and reflow. Proc.of Fed. Am. Soc. Exp. Biol.
7. Md. Asghar, **S.J. Khundmiri**, F. Khan, S. Salim and A.N.K. Yusufi (1996). Post natal maturation of renal proximal tubules during development and growth. Proc. of Fed. Am. Soc. Exp. Biol.
8. F. Khan, Md. Asghar, **S.J. Khundmiri**, S. Salim and A.N.K. Yusufi (1996) Maturation of certain metabolic and BBMV enzymes in superficial and juxtamedullary cortex and medulla during development and growth Proc. of Fed. Am. Soc. Exp. Biol.
9. S. Salim, Md. Asghar, **S.J. Khundmiri**, F. Khan, and A.N.K. Yusufi (1996) Islamic fasting enhances renal proximal tubular functional capacities. Proc. of Fed. Am. Soc. Exp. Biol.
10. E.D. Lederer and **S.J. Khundmiri** (1999) Dopamine and parathyroid hormone inhibit the activity of Na-K ATPase by different mechanisms in opossum kidney cells. Am. Soc. Neph. Conf. Held in Florida, Nov. 1999.
11. E.D. Lederer C. Loh and **S.J. Khundmiri** (1999) The type II sodium phosphate co-transporter in opossum kidney (OK) cells co-immunoprecipitates with an A Kinase Anchoring Protein. Am. Soc. Neph. Conf. held in Florida, Nov. 1999.
12. **S.J. Khundmiri** and E.D. Lederer (2000) Regulation of proximal renal tubule cell Na-K ATPase by protein kinase C and phospholipase A2 Am Soc. Neph. Conf. Held in Toronto, Canada
13. E.D. Lederer and **S.J. Khundmiri** (2000) Proteomic and immunologic identification of an association between parathyroid hormone receptor and the sodium phosphate cotransporter (NaPi-4) ASN, held in Toronto, Canada.
14. E.D. Lederer, M.J. Rane, **S.J. Khundmiri** (2001) Association of the proximal renal tubule type II sodium phosphate cotransporter with multiple signaling proteins ASN, San Francisco, CA
15. **S.J. Khundmiri**, A.M. Bertorello and E.D. Lederer (2001) Role of serine phosphorylation in the regulation of proximal tubule Na-K ATPase by parathyroid hormone ASN, San Francisco, CA
16. **S. J. Khundmiri**, J.B Klein, W.M. Pierce, and E. D. Lederer (2001) Parathyroid hormone (PTH) regulates sodium phosphate cotransport (NaPi-4) through an a kinase anchoring protein (AKAP) FASEB, Orlando FL
17. **S.J. Khundmiri**, A.M. Bertorello and E.D. Lederer (2002) Phosphorylation of Serine 11 by Parathyroid Hormone Induces Endocytosis of Na-K ATPase FASEB. New Orleans
18. E.D. Lederer, **S.J. Khundmiri** and E. Weinmann (2002) Parathyroid hormone (PTH) Requires Na-H Exchanger Regulatory Factor (NHERF) for Inhibition of Na-K ATPase Activity But Not for Inhibition of Sodium-Phosphate (NaPi) Cotransport FASEB. New Orleans
19. **S.J. Khundmiri** and E.D. Lederer (2003) Regulation of Na-K ATPase by PTH requires NHERF-1. FASEB, New Orleans

20. **S.J. Khundmiri** and E. D. Lederer (2004) Regulation of Na-K ATPase by PTH requires ERK dependent activation of PKC-alpha ASN, San Diego
21. **S. J. Khundmiri** and E.D. Lederer (2004) Ouabain mediates cell proliferation through Akt and ERK dependent pathways FASEB, Washington, DC
22. **S.J. Khundmiri** and E.D. Lederer (2005) Ouabain mediates cell proliferation through Akt and ERK dependent pathways ASN, Philadelphia
23. **S.J. Khundmiri** and E.D. Lederer (2005) Regulation of Na-K ATPase by PTH requires PDZ-1 domain of NHERF. ASN, Philadelphia
24. Ameen, M; **Khundmiri, SJ**; Lesousky, N; et al. Role of phosphatidylinositol 3 kinase (PI3-kinase) in regulation of apical membrane expression of the type IIa sodium-phosphate cotransporter (Npt2a). Experimental Biology 2006 Meeting Location: San Francisco, CA Date: APR 01-05, 2006, FASEB JOURNAL, Volume: 20 Issue: 5 Pages: A1234-A1234 Part: Part 2 Published: MAR 7 2006
25. **S.J. Khundmiri**, S. Sengupta, and E.D. Lederer (2006) Regulation of Na-K ATPase by PTH requires Src and PLC mediated phosphorylation of ERK. FASEB, San Francisco
26. **S.J. Khundmiri** and E.D. Lederer (2007) Sodium Hydrogen Exchanger Regulatory Factor (NHERF-1) regulates Na, K ATPase through receptor and post-receptor mediated mechanisms. ASN, San Francisco.
27. K. Holthouser, E.D Lederer, **S.J. Khundmiri** (2007) Nanomolar concentrations of ouabain stimulates Na, K ATPase activity through NHE1 dependent mechanisms. Research Louisville, University of Louisville **(This presentation was awarded second prize in MS student category)**
28. **Khundmiri, SJ**; Sengupta, Sudarshana; Lederer, Eleanor DeLand. Parathyroid hormone regulates Na-K ATPase through ERK-dependent cPLA2 phosphorylation. Experimental Biology 2007 Annual Meeting Location: Washington, DC Date: APR 28-MAY 02, 2007. FASEB JOURNAL, Volume: 21, Issue: 6, Pages: A1428-A1428 Published: APR 2007
29. Ameen, Mohamed Ismahil; **Khundmiri, Syed Jalal**; Merchant, Michael; et al. The Sodium-Hydrogen Exchanger Regulatory Factor NHERF-1 is required for apical membrane protein trafficking in renal epithelial cells. Conference: Experimental Biology 2007 Annual Meeting Location: Washington, DC Date: APR 28-MAY 02, 2007. FASEB JOURNAL, Volume: 21, Issue: 5, Pages: A544-A545 Published: APR 2007
30. Holthouser, Kristine; Chowhan, Yaruk; **Khundmiri, Syed Jalal** Nanomolar concentrations of ouabain stimulate Na-K ATPase through sodium hydrogen exchanger-1 (NHE1) dependent mechanism. FASEB JOURNAL, Volume: 22, 2008
31. **Khundmiri, Syed J.**; Merchant, Michael L.; Lederer, Eleanor D. Na-K ATPase Regulation by Cardioglycosides: Role of AT1R. FASEB JOURNAL, Volume: 24, APR 2010
32. Muradashvili, Nino; **Khundmiri, Syed J.**; Benton, Richard L.; et al. Increased formation of functional caveolae due to increased content of fibrinogen. FASEB JOURNAL, Volume: 24, APR 2010
33. Murray, Rebecca; Lesousky, Nina; **Khundmiri, Syed J.**; et al. Renal proximal tubule ion transporters are discrepantly regulated by parathyroid hormone in acute versus chronic hyperparathyroidism. FASEB JOURNAL, Volume: 24, APR 2010
34. Muradashvili, Nino; Munjal, Charu; Tyagi, Reeta; et al. At Increased Blood Level Fibrinogen Enhances Mouse Pial Venular Permeability through Both Paracellular and Transcellular Pathways. Scientific Sessions of High Blood Pressure Research Location: Orlando, FL Date: SEP 20-24, 2011. Council High Blood Pressure Res, Council Kidney Cardiovasc Dis & Inter-Amer Soc Hypertens (IASH). HYPERTENSION, Volume: 58, Issue: 5, Pages: E90-E90, NOV 2011
35. Gao, Y.; **Khundmiri, S. J.**; Delamere, N. A.; et al. Effect of ouabain on intracellular pH of olfactory neuroepithelial progenitor cells derived from bipolar and non-bipolar subjects. 9th International Conference on Bipolar Disorder Location: Pittsburgh, PA Date: JUN 09-11, 2011, BIPOLAR DISORDERS, Volume: 13, Special Issue: SI, Supplement: 1, Pages: 47-47, JUN 2011
36. Clark, Barbara J.; Meier, Renate K.; **Khundmiri, Syed J.**; et al. Steroidogenic Acute Regulatory (StAR)-Related Lipid Transfer Domain Protein 5 (STARD5) expression is associated with cholesterol content of human kidney proximal tubule cells. Experimental Biology Meeting 2011 Location: Washington, DC Date: APR 09-13, 2011, FASEB JOURNAL, Volume: 25, APR 2011

37. Pribble, Francesca Danielle; Lesousky, Nina; Uriarte, Silvia; et al. The fate of Npt2a: the role of the actin cytoskeleton and SNARE proteins. Experimental Biology Meeting 2011 Location: Washington, DC Date: APR 09-13, 2011, FASEB JOURNAL, Volume: 25, APR 2011
38. Salyer, Sarah; Distler, Tony; Gagnon, Kenneth; et al. A Novel Investigation of Potassium Transport in Breast Cancer Cells. Experimental Biology Meeting 2011 Location: Washington, DC Date: APR 09-13, 2011, FASEB JOURNAL, Volume: 25, APR 2011
39. Salyer, Sarah; Merchant, Michael; Wilkey, Daniel; et al. Proteomic analysis of ouabain-interacting proteins in human kidney cells. Experimental Biology Meeting 2011 Location: Washington, DC Date: APR 09-13, 2011, FASEB JOURNAL, Volume: 25, APR 2011
40. Gao, Yonglin; **Khundmiri, Syed J.**; Delamere, Nicholas A.; et al. Human Olfactory Neuroepithelial Progenitors as a Cellular Model for Bipolar Disorder: Changes in Intracellular pH. 67th Annual Scientific Convention and Meeting of the Society-of-Biological-Psychiatry Location: Philadelphia, PA Date: MAY 03-05, 2012, BIOLOGICAL PSYCHIATRY, Volume: 71 Pages: 48S-48S, 2012
41. Muradashvili, Nino; **Khundmiri, Syed J.**; Benton, Richard L.; et al. Increased formation of functional caveolae due to increased content of fibrinogen. Experimental Biology Meeting Location: San Diego, CA Date: APR 21-25, 2012, FASEB JOURNAL, Volume: 26, APR 2012, **(ORAL)**.
42. Murray, Rebecca; Lesousky, Nina; **Khundmiri, Syed J.**; et al. Renal proximal tubule ion transporters are discrepantly regulated by parathyroid hormone in acute versus chronic hyperparathyroidism. Experimental Biology Meeting Location: San Diego, CA Date: APR 21-25, 2012, FASEB JOURNAL, Volume: 26, APR 2012
43. **Khundmiri, Syed J.**; Xie, Zijian; Lederer, Eleanor D. Ouabain increases association between Na-K ATPase (Na-K) and NHE1 through N-terminal domain of Na-K. Experimental Biology (EB) Location: Boston, MA Date: APR 20-24, 2013, FASEB JOURNAL, Meeting Abstract: 726.10 Volume: 27, APR 2013
44. Lederer, ED; Murray, R; Lesousky, N; **Khundmiri, SJ**; Weinman, E Regulation of posttranslational modifications of Npt2a (renal type IIa sodium phosphate cotransporter). Experimental Biology (EB) Location: Boston, MA Date: APR 20-24, 2013, FASEB JOURNAL, Meeting Abstract: 726.10 Volume: 27, APR 2013
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