

Training and Appointments:

- 1/84-1/86 Cardiovascular and Microcirculation Laboratory, and Engineering
Verification and Documentation of Medical Equipment for NASA Space
Shuttle Flights
Department of Physiology and Pharmacology
Wake Forest University School of Medicine,
Winston-Salem, North Carolina
and NASA Ames Research Center, Moffett Field, California
Advisor: Phillip M. Hutchins, Ph.D., Professor of Physiology
- 2/86-3/90 Senior Research Fellow, Renal Physiology Laboratory
Mayo Clinic and Foundation, Rochester, Minnesota
Advisor: Franklyn G. Knox, M.D., Ph.D.
Professor of Physiology and Medicine
- 4/90-3/96 Associate Consultant, Department of Physiology and Biophysics,
Mayo Clinic and Foundation, Rochester, Minnesota
- 7/90-6/95 Assistant Professor, Department of Physiology and Biophysics,
Mayo Clinic College of Medicine, Rochester, Minnesota
- 7/95-3/96 Associate Professor, Department of Physiology and Biophysics,
Mayo Clinic College of Medicine, Rochester, Minnesota
- 3/96-4/01 Associate Professor of Physiology (with tenure), Department of Obstetrics
and Gynecology, College of Medicine, The University of Illinois at
Chicago, Chicago, Illinois
- 4/01-09/08 Professor of Physiology (with tenure), Department of Physiological
Sciences, Eastern Virginia Medical School, Norfolk, Virginia
- 09/15/08-present Professor and Chairman (September 2011) of Physiology, Alfaisal
University College of Medicine, Riyadh, Kingdom of Saudi Arabia
- 09/2011-present Chairman, Department of Physiology, Alfaisal University College of
Medicine, Riyadh, Kingdom of Saudi Arabia

Honors:

- Member, University of Mississippi Chapter, Chi Epsilon
The National Civil Engineering Honor Society
Dean's Honor Roll, University of Mississippi, 1977-78
Chancellor's Honor Roll, University of Mississippi, 1978-79
National Dean's List, 1978-79
Robert A. Mahaffey, Jr. Memorial Award for research potential
in physiology and biophysics, 1984
The Young Investigator Award in Regulatory and Integrative Physiology
of the American Physiological Society, 1995
The American Society of Hypertension/Hoechst Marion Roussel Young Scholar Award, 1998

Teaching Experiences:

- 1/79-5/80 Engineering Structures Laboratory Assistant, and Soil Mechanics Laboratory Assistant, University of Mississippi
- 1/82-1/84 Physiology Laboratory Assistant,
University of Mississippi School of Medicine, Jackson, Mississippi
- 4/87-3/96 Renal Physiology (Phys 8859), Sections on "Control of Renal Circulation" and "Control and Renal Handling of Sodium",
Mayo School, Rochester, Minnesota
- 7/94-3/96 Renal Physiology (Phys 8859), Course Director
Mayo Graduate School, Rochester, Minnesota
- 2/02-09/08 Medical Physiology (M1), Renal Physiology Sections on: Introduction to Renal Physiology/Kidney Structure and Function, Renal Blood Flow, Glomerular Filtration Rate, Sodium and Water Excretion, and Regulation of Extracellular Fluid Volume, Eastern Virginia Medical School, Norfolk, Virginia
- 06-08-09/08 Graduate students (Ph.D. and Medical Master): Concepts in Cell Biology and Physiology (BIMD 848) sections on the renal tubule (renal section of the course), Eastern Virginia Medical, Norfolk, Virginia
- 10-08-present Medical Physiology. Alfaisal University, Riyadh, Kingdom of Saudi Arabia

Committee Service:

- 1994-3/96 Department of Physiology and Biophysics Education Committee
Mayo Clinic College of Medicine, Rochester, Minnesota
- 1997-2001 Campus Research Board, Life Sciences Subcommittee
The University of Illinois at Chicago
- 1/1/97-12/31/99 Membership Committee of the American Physiological Society
- 2001-2004 Search Committee for Chair of Microbiology and Molecular Cell Biology at Eastern Virginia Medical School (EVMS)
- 7/2003-8/2008 Member, Institutional Animal Care and Use Committee at EVMS
- 7/2007-8/2008 Vice Chair, Institutional Animal Care and Use Committee at EVMS
- 7/1/2003-6/30/2008 Appointments and Promotions Committee at EVMS

Committee Service (continued):

2005-6/30/2008 Tenure Committee at EVMS

2005-8/2008 Graduate Admission Committee at EVMS

2002-8/2008 Coordinator, Department of Physiological Sciences Seminar Series,
EVMS

Previous Funding:

First Independent Research Support and Transition
(FIRST) Award: R29 HL41533 (CVB)

PI: Ali A. Khraibi, Ph.D.

“Renal Interstitial Hydrostatic Pressure in Hypertension”

04/01/90 - 03/31/96

Direct Costs: \$350,000

Total Costs: \$466,654

NIH HL-14133 Intrarenal Electrolyte Metabolism”

Role: Co-investigator; PI: F. G. Knox, M.D., Ph.D.

07/01/89-06/30/95

Direct Costs: \$650,505

Total Costs: \$911,134

Percent effort supported by this grant: 25%

American Heart Association Grant-in-Aid Ref.# 95006220

“Regulation of Sodium Excretion in Hypertension”

PI: Ali A. Khraibi, Ph.D.

07/01/95-06/30/99

Direct Costs: \$118,700

Total Costs: \$130,570

Campus Research Board (CRB) grant

PI: Ali A. Khraibi, Ph.D.

“Renal Interstitial Hydrostatic Pressure in Normal Pregnancy”

07/01/99-06/30/00

Total Costs: \$15,000

Eastern Virginia Medical School Institutional Grant

“Effects of Relaxin on Sodium Transporters Expression, Localization, and Activity in Renal Proximal Tubule Cells”

11/01/2006-10/31/2006

Direct Costs: \$9,500

Previous Funding (continued):

NIH HD/HL-38240 PI: Ali A. Khraibi, Ph.D.
“Renal Interstitial Hydrostatic Pressure in Pregnancy”
5/01/00-4/30/05
Direct Costs: \$481,754 Total Costs: \$748,163
Percent effort supported by this grant: 70%

NIH HL-58738
“Renal Function and Blood Pressure Control in Pregnancy”
Role: Co-investigator; PI: Edmond W. Quillen, Jr.
07/15/98-06/30/01
Direct Costs: \$780,880 Total Costs: \$1,152,604
Percent effort supported by this grant: 10%

Eastern Virginia Medical School Institutional Grant
“Role of Angiotensin II in Renal Function of Diabetic Rats”
11/01/2002-10/31/2003
Direct Costs: \$8,750

NIH HL52765 PI: Michael Solhaug, M.D.
“Regulation of Developmental Renal Hemodynamics”
07/01/02-06/30/06
Direct Costs: \$800,000 Total Costs: \$1,125,000
Percent effort supported by this grant: 20%

The American Society of Hypertension/Hoechst Marion Roussel Young
Scholar Award, 1998.
1998 – 09/2008 Total: \$7,500

Memberships:

1979-present	The University of Mississippi Alumni Association, Life Member
1986-present	The American Physiological Society, Regular Member
1988-present	Mayo Alumni Association, Member
1992-1996	Inter-American Society of Hypertension, Member
1992-1996	The American Society of Nephrology, Active Member
1993-1996	American Heart Association Council for High Blood Pressure Research, Fellow
1995-1996	American Heart Association Council for Kidney in Cardiovascular Disease, Member
1996-1999	The American Society of Hypertension, Member
1997-2001	International Society for the Study of Hypertension in Pregnancy, Member
06/97-05/2001	The Chicago Council on Foreign Relations, Member
2005-present	Perinatal Research Society, Member

Journal Affiliations:

1992-1994	Assistant Editor: News in Physiological Sciences (NIPS)
2001-2002	Editorial Board: American Journal of Physiology
2006-present	Editorial Board: BioMed Research International (until 12/2012 Journal of Biomedicine and Biotechnology) Reviewer: American Journal of Physiology Hypertension American Journal of Hypertension Life Sciences Nephron News in Physiological Sciences (NIPS) Journal of the American Society of Nephrology (JASN) Journal of Hypertension Kidney International Journal of Obstetrics and Gynecology Proceedings of the Society for Experimental Biology and Medicine (PSEBM) Journal of Orthopaedic Research Acta Physiologica Scandinavica Biology of the Neonate SLEEP

Reviewer for Grant Proposals:

1990	Member, peer review committee, The American Heart Association, Minnesota Affiliate.
1991	Natural Science and Engineering Research Council of Canada
1996-present	Department of Veterans Affairs
1997-2001	Campus Research Board, Life Sciences Subcommittee, The University of Illinois at Chicago.
10/2005-02/2007	Ad Hoc member, Heart, Lung, and Blood Program Project Review Committee; National Heart, Lung, and Blood Institute (HLBP Workgroup)

Interests (Research, Teaching, and Administrative), and Collaborations:

My research interests focus broadly on the role of the kidney in hypertension and in pregnancy. Specifically, I have been studying the role of the kidney in the development and maintenance of hypertension and the renal adaptations to essential hypertension. In 1996, I joined the Maternal-Fetal Medicine Division of the Department of Obstetrics and Gynecology at the University of Illinois at Chicago. The department was attempting to assemble a clinical and basic science research team to study the cardiovascular, renal, and hormonal regulation of arterial pressure during pregnancy. My contributions to this effort were to address the mechanisms that are responsible for the renal hemodynamic, excretory, as well as cardiovascular adaptations during pregnancy. Recently I joined the Department of Physiological Sciences at Eastern Virginia Medical School. I continue to study renal and cardiovascular adaptations to normal pregnancy and to hypertension. Most recently, we have been developing two new areas of research in my lab, renal and cardiovascular functions in diabetic pregnancy, and development and maintenance of hypertension in a diet-induced obesity rat model (in collaboration with Dr. Anca D. Dobrian).

While at Mayo Clinic I was involved with many research projects that involved colleagues in our department as well as other departments. I often collaborated with Dr. Franklyn G. Knox, M.D., Ph.D. who was my mentor when I started working at Mayo Clinic (1986) and later (1990) became a collaborator. Dr. Knox is an internationally known renal physiologist. These studies investigated the role of renal physical forces in the regulation of sodium excretion in spontaneously hypertensive rats. This collaboration was mutually productive and resulted in sixteen papers, four book chapters, and nineteen abstracts.

I was also involved with many research projects that involved colleagues in different departments. I often collaborated with Dr. John C. Burnett, Jr. who is a cardiologist and a Professor at Mayo Clinic, Department of Internal Medicine, with a joint appointment in the Department of Physiology and Biophysics. Dr. Burnett is an expert on cardiorenal integration and control of total body fluid volumes as well as congestive heart failure. These studies investigated the integration between the heart, circulation, and the kidney in regulating sodium excretion by focusing on atrial natriuretic peptide and endothelin in both normotensive and hypertensive animals. This collaboration was mutually productive and resulted in five papers, and six abstracts.

I also collaborated with Dr. Stephen Brimijoin, Professor and Chair of the Department of Pharmacology at Mayo Graduate School of Medicine. The title of this project was “Catecholamine-release and excretion in rats with immunologically induced preganglionic sympathectomy”. This collaboration resulted in a publication in the Journal of Neurochemistry. I also have been collaborated with Dr. Vicente Torres of the Nephrology Division at Mayo Clinic. Dr. Torres is an expert on polycystic kidney disease. We have studied the role of the renal nerves and the renin-angiotensin system in the development of cysts. These and other collaborative efforts provided me with the opportunity to be involved in various areas of research and made me more appreciative of the importance of collaboration with colleagues who have complimentary scientific interests.

In addition to research, I am committed to education and service to profession and community. As can be seen from my curriculum vitae, I have been involved in medical research since I started graduate school in the Department of Physiology and Biophysics at the University of Mississippi School of Medicine in 1980. However, during this period I continued being involved in teaching and education. My participation early on as a member in the department education committee and with the Summer Undergraduate Research Fellowship (SURF) program at Mayo allowed me to interact with students, graduate and undergraduate. These experiences, the mentorship of students, and teaching were professionally and personally rewarding to me and I have continued being involved in these activities.

I continued to teach and mentor students at Eastern Virginia Medical School (EVMS). I believe that my diverse background in physiology, engineering, medical research, and medicine give me the ability to assist and advise students in multiple areas of interest. I served on many important institutional committees at Eastern Virginia Medical School including the Institutional Animal Care and Use Committee, Appointments and Promotions Committee, Tenure Committee, and Graduate Admission Committee. In addition, I was a member of the Search Committee for Chair of Microbiology and Molecular Cell Biology, and I was the Coordinator of the Department of Physiological Sciences Seminar Series from 2002-2008.

In September 2008, I moved to Riyadh, Kingdom of Saudi Arabia as one of the founding faculty of Alfaisal University which started in September 2008. Currently, I am a professor and chairman of the department of physiology at Alfaisal University College of Medicine and the director of the medical physiology course. As a founding faculty at Alfaisal University, I have been involved in most aspects of launching the College of Medicine. I have been involved in student affairs and enrollment, curriculum development, and assessment. I have served and continue to serve on many committees including admissions committee, research committee, assessment committee, Ad Hoc faculty search committees, and often represents the dean (as an acting dean) of the college of medicine in his absence. In addition, my teaching experience has been enriched since I have been here. I have taught and have the ability now to teach all aspects of physiology since I was the only full time physiologist for almost a year when the college of medicine started. I remain heavily involved in teaching all aspects of human function and continue being the director of the physiology course.

Ali A. Khraibi, Ph.D.

References:

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Articles:

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Khraibi, A. A. Role of autoimmunity in the etiology of hypertension in the Okamoto spontaneously hypertensive rat. Ph.D. Dissertation, 1984.

Khraibi, A. A., R. A. Norman, Jr., and D. J. Dzielak. Chronic immunosuppression attenuates hypertension in Okamoto spontaneously hypertensive rats. *Am. J. Physiol.* 247 (Heart Circ. Physiol. 16):H722-H726, 1984.

Norman, R. A., Jr., D. J. Dzielak, K. L. Bost, A. A. Khraibi, and P. G. Galloway. Immune system dysfunction contributes to the aetiology of spontaneous hypertension. *J. Hypertension.* 3(3):261-268, 1985.

Khraibi, A. A., T. L. Smith, P. M. Hutchins, C. D. Lynch, and J. W. Dusseau. Thymectomy delays the development of hypertension in Okamoto spontaneously hypertensive rats. *J. Hypertension.* 5(5):537-541, 1987.

Khraibi, A. A., J. P. Granger, J. C. Burnett, Jr., K. R. Walker, and F. G. Knox. Role of atrial natriuretic factor in the natriuresis of acute volume expansion. *Am. J. Physiol.* 252 (Regulatory Integrative Comp. Physiol. 21): R921-R924, 1987.

Khraibi, A. A., J. P. Granger, and F. G. Knox. Renal hemodynamics and sodium chloride excretion. IN: *CONTEMPORARY NEPHROLOGY*, S. Klahr and S. G. Massry, eds., Vol IV. pp.39-78, Plenum Publ. Corp., New York, 1987.

Khraibi, A. A. and F. G. Knox. Renal interstitial hydrostatic pressure during pressure natriuresis in hypertension. *Am. J. Physiol.* 255:(Regulatory Integrative Comp. Physiol. 24):R756-R759, 1988.

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Smith, T. L. and A. A. Khraibi. Data acquisition and computer analysis in acute and chronic experiments (*Circulation*). IN: *METHODS IN ANIMAL PHYSIOLOGY AND BIOMEDICAL RESEARCH*, I. Z. Deyl and J. Zicha, eds., pp 171-182, CRC Press, Inc., Boca Raton, FL, 1988.

Khraibi, A. A., J. A. Haas, and F. G. Knox. Renal perfusion pressure and renal interstitial hydrostatic pressure in rats. *Am. J. Physiol.* 256(Renal Fluid Electrolyte Physiol. 25):F165-F170, 1989.

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Khraibi, A. A. and F. G. Knox. Effect of renal decapsulation on renal interstitial hydrostatic pressure and natriuresis. *Am. J. Physiol.* 257(Regulatory Integrative Comp. Physiol. 26):R44-R48, 1989.

Khraibi, A. A. and F. G. Knox. Effect of acute renal decapsulation on pressure natriuresis in SHR and WKY rats. *Am. J. Physiol.* 257(Renal Fluid Electrolyte Physiol. 26):F785-F789, 1989.

Khraibi, A. A. and F. G. Knox. Renal hemodynamics and sodium chloride excretion. IN: *CONTEMPORARY NEPHROLOGY*, S. Klahr and S. G. Massry, eds., Volume V, Plenum Publ. Corp., New York, pp 35-79, 1989.

Khraibi, A. A., D. M. Heublein, J. C. Burnett, Jr., and F. G. Knox. Dissociation of renal interstitial hydrostatic pressure and the natriuresis of atrial natriuretic factor. *Am. J. Physiol.* 258(Regulatory Integrative Comp. Physiol. 27):R481-R486, 1990.

Khraibi, A. A., D. M. Heublein, J. C. Burnett, Jr., and F. G. Knox. Renal interstitial hydrostatic pressure and ANF in the exaggerated natriuresis of the SHR. *Am. J. Physiol.* 258(Regulatory Integrative Comp. Physiol. 27):R1380-R1385, 1990.

Khraibi, A. A. Association between disturbances in the immune system and hypertension *Am. J. Hypertension.* 4:635-641, 1991.

Khraibi, A. A. Direct renal interstitial volume expansion causes exaggerated natriuresis in the SHR. *Am. J. Physiol.* 261(Renal Fluid Electrolyte Physiol. 30):F567-F570, 1991.

Khraibi, A. A. Impaired transmission of pressure to the renal interstitium in spontaneous hypertension. *News in Physiological Sciences* 7:26-29, 1992.

Haas, J. A., A. A. Khraibi, and F. G. Knox. Effect of renal decapsulation on lithium excretion in the presence and absence of volume expansion. *Renal Physiol. Biochem.* 15:129-133, 1992.

Khraibi, A. A., J. P. Granger, J. A. Haas, J. C. Burnett, and F. G. Knox. Intrarenal pressures during direct inhibition of sodium transport. *Am. J. Physiol.* 263(Regulatory, Integrative Comp. Physiol. 32):R1182-R1185, 1992.

Khraibi, A. A., D. Heublein, F. G. Knox, and J. C. Burnett. Increased plasma endothelin-1 in the Okamoto spontaneously hypertensive rat. *Mayo Clinic Proc.* 68:42-46, 1993.

Haas, J. A., A. A. Khraibi, M. A. Perrella, and F. G. Knox. Role of renal interstitial hydrostatic pressure in the natriuresis of systemic nitric oxide inhibition. *Am. J. Physiol.* 264(Renal Fluid Electrolyte Physiol. 33):F411-F414, 1993.

Lahera, V., A. A. Khraibi, and J. C. Romero. Sulfhydryl group donors potentiate the hypotensive effect of acetylcholine in rats. *Hypertension* 22:156-160, 1993.

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Khraibi, A. A. Immunoregulatory failure in the pathophysiology of hypertension. *News In Physiological Sciences* 9:27-30, 1994.

Khraibi, A. A. Inhibition of nitric oxide causes exaggerated natriuresis in spontaneously hypertensive rats. *Am. J. Physiol.* 266(Renal Fluid Electrolyte Physiol. 35):F762-F766, 1994.

Mimura, Y., A. A. Khraibi, D. M. Heublein, and F. G. Knox. Acute hypocapnia blunts the natriuretic effect of atrial natriuretic factor in rats. *Am. J. Physiol.* 266(Regulatory Integrative Comp. Physiol. 35):R1503-R1509, 1994.

Brimijoin, S., P. Hammond, A. A. Khraibi, and G. M. Tyce. Catecholamine-release and excretion in rats with immunologically induced preganglionic sympathectomy. *J. Neurochem.* 62:2195-2204, 1994.

Wei, C-M., C. H. Kim, A. A. Khraibi, V. M. Miller, and J. C. Burnett, Jr. Atrial natriuretic peptide and C-type natriuretic peptide in spontaneously hypertensive rats and their vasorelaxing actions in vitro. *Hypertension* 23(2):903-907, 1994.

Onsgard-Meyer, M. J., T. J. Berndt, A. A. Khraibi, and F. G. Knox. Phosphaturic effect of parathyroid hormone in the spontaneously hypertensive rat. *Am. J. Physiol.* 267(Regulatory Integrative Comp. Physiol. 36):R78-R83, 1994.

Berndt, T. J., A. A. Khraibi, V. Thothathri, T. P. Dousa, G. M. Tyce, and F. G. Knox. Effect of increased dietary phosphate intake on dopamine excretion in the presence and absence of the renal nerves. *Mineral and Electrolyte Metabolism* 20:158-162, 1994.

Lahera, V., and A. A. Khraibi. Nitric oxide inhibition in hypertension. *News In Physiological Sciences* 9:268-271, 1994.

Berndt, T. J., A. A. Khraibi, and F. G. Knox. Interaction of the renal nerves and prostaglandins on the phosphaturic response to PTH in phosphate-deprived rats. *Am. J. Physiol.* 268(Regulatory Integrative Comp. Physiol. 37):R731-R735, 1995.

Khraibi, A. A. Role of the renal nerves in the natriuresis of L-NMMA infusion in SHR and WKY rats. *Am. J. Physiol.* 269(Renal Fluid Electrolyte Physiol. 38):F17-F21, 1995.

Khraibi, A. A., and F. G. Knox. Regulation of fluid and electrolyte balance. IN: *MEDICAL PHYSIOLOGY*, R. A. Rhoades and G. A. Tanner, eds., Little, Brown and Company, Boston, MA, pp 446-463, 1995.

Onsgard-Meyer, M. J., Kerrigan, R. J., Collins, M., Khraibi, A. A., and F. G. Knox. Phosphaturic effect of L-NMMA in the presence of parathyroid hormone. *Am. J. Physiol.* 271(Regulatory Integrative Comp. Physiol. 40):R1477-R1480, 1996.

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Khraibi, A. A., K. H. Taylor, C. R. Ramsey, and T. J. Berndt. Blockade of cytochrome P-450 epoxygenase pathway attenuates the natriuresis of L-NMMA infusion in the SHR. *J. Lab. Clin. Med.* 129(3):330-336, 1997.

Nuwayhid, B., T. Nguyen, and A. A. Khraibi. Maternal Physiology. IN: *ESSENTIALS OF OBSTETRICS AND GYNECOLOGY*, third edition, N. F. Hacker and J. G. Moore, eds., W. B. Sanders Company, Orlando, FL, pp 85-99, 1998.

Khraibi, A. A. Renal interstitial hydrostatic pressure and pressure natriuresis in pregnant rats. *Am. J. Physiol. Renal Physiol.* 279:F353-F357, 2000.

Khraibi, A. A., C. R. Ramsey, D. M. Heublein, and T. J. Berndt, and F.G. Knox. Role of plasma renin activity and the renal nerves in the natriuresis of L-NMMA in rats. *Life Sciences* 69(10):1123-1131, 2001.

Khraibi, A. A., M. Liang, and T. Berndt. Role of gender on renal interstitial hydrostatic pressure and sodium excretion in rats. *Am. J. Hypertension* 14(9):893-896, 2001.

Khraibi, A. A., M. J. Solhaug, A. D. Dobrian, and T. Berndt. Renal interstitial hydrostatic pressure and natriuretic responses to volume expansion in pregnant rats. *Am. J. Physiol. Renal Physiol.* 282:F821-F825, 2002.

Khraibi, A. A. Renal interstitial hydrostatic pressure and sodium excretion in hypertension and pregnancy. *J. Hypertension.* 20 (suppl 3): S21-S27, 2002.

Khraibi, A. A., T. Yu, and D. Tang. Role of nitric oxide in the natriuretic and diuretic responses in pregnant rats. *Am. J. Physiol. Renal Physiol.* 285:F938-F944, 2003.

Dobrian, A. D., S. D. Schriver, A. A. Khraibi, and R. L. Prewitt. Insulin sensitizers normalize blood pressure and reduce oxidative stress in a rat model of diet-induced obesity. *Hypertension* 43:48-56, 2004.

Tang, D., T. Yu, and A. A. Khraibi. Effects of insulin on renal interstitial hydrostatic pressure and natriuretic response to volume expansion in diabetic rats. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 286:R751-R755, 2004.

Tang, D., T. Yu, and A. A. Khraibi. Cardiovascular and renal characteristics, and responses to acute volume expansion of a rat model of diabetic pregnancy. *Life Sciences* 74(23):2909-2918, 2004.

Yu, T., and A. A. Khraibi. Natriuretic response to direct renal interstitial volume expansion (DRIVE) in pregnant rats. *Am. J. Hypertension* 18(6):851-857, 2005.

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Yu, T., and A. A. Khraibi. Renal interstitial hydrostatic pressure and natriuretic response to high doses of angiotensin II in pregnant rats. *Am. J. Hypertension* 19:300-305, 2006.

Yu, T., and A. A. Khraibi. Enalapril treatment restores the decreased proximal tubule reabsorption in response to acute volume expansion in diabetic rats. *Life Sciences* 83:364-368, 2008.

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Marta A. Ambrozewicz, A. A. Khraibi, Fatma Simsek-Duran, Sophia C. DeBose, Hind A. Baydoun, and Anca D. Dobrian. Different Natriuretic Responses in Obese and Lean Rats in Response to Nitric Oxide Reduction. *Am. J. Hypertension* 24, 943-950, 2011.
| doi:10.1038/ajh.2011.79.

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Abstracts:

Khraibi, A. A., R. A. Norman, Jr., and D. J. Zielak. Immunosuppression prevents hypertension in Okamoto spontaneously hypertensive rats. *The Physiologist* 25:337, 1982.

Norman, R. A., Jr., W. R. Murphy, A. A. Khraibi, and R. G. Carroll. Role of the renal nerves in one-kidney, one-clip Goldblatt hypertension. *Fed. Proc.* 41:1094, 1982.

Khraibi, A. A., R. A. Norman, Jr., and D. J. Zielak. Immunosuppression attenuates hypertension in Okamoto spontaneously hypertensive rats. *J. Miss. Acad. Sci.* 28(Suppl):30, 1983.

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M. J. Solhaug, U. Kullaprawithaya, X. Shan Liu, B. Ratliff, A. A. Khraibi, and K. Dong. Angiotensin II, AII, upregulates nitric oxide synthase, NOS, in the postnatal developing kidney via L-type calcium channels. *The Physiologist* 46(4):243, 2003.

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Ratliff, B., A. Rodebaugh, A. D. Dobrian, A. A. Khraibi, and M. Solhaug. Nitric oxide synthase and the renin angiotensin system in the porcine microvasculature during postnatal maturation. *FASEB J.* 19(5): A1149, 2005.

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PRESENTATIONS

Thymectomy reduces the level of hypertension in the Okamoto spontaneously hypertensive rat (SHR)	1986 FASEB Meeting	St. Louis, MO
Role of atrial natriuretic factor in mediating the natriuresis induced by acute volume expansion	1986 APS Meeting	New Orleans, LA
Direct measurement to renal interstitial hydrostatic pressure in rats	1987 FASEB Meeting	Washington, DC
Role of renal interstitial factor in mediating the natriuresis induced by acute volume expansion	1987 APS Meeting	San Diego, CA
Renal interstitial hydrostatic pressure during pressure natriuresis	1987 APS Meeting	San Diego, CA
Renal interstitial hydrostatic pressure during pressure natriuresis in the spontaneously hypertensive rat	1988 FASEB Meeting	Las Vegas, NV
Effect of acute renal decapsulation on pressure natriuresis in SHR and WKY rats	1998 APS Meeting	Montreal, PQ
Role of renal interstitial pressure natriuresis	October 12, 1988 McGill University (Invited)	Montreal, PQ
Role of renal interstitial hydrostatic pressure in hypertension	March 24, 1989 University of Mississippi Medical Center (Invited)	Jackson, MS
Role of the renal capsule in the natriuresis of acute saline volume expansion	1989 FASEB Meeting	New Orleans, LA
Dissociation of renal interstitial hydrostatic pressure and the natriuresis of atrial natriuretic factor	1989 APS Meeting	Rochester, MN
Renal interstitial hydrostatic pressure and atrial natriuretic factor in the exaggerated natriuresis of the SHR	1990 FASEB Meeting	Washington, DC

Effect of volume expansion on plasma endothelin levels in SHR and WKY rats	1990 APS Meeting	Orlando, FL
Direct increases in renal interstitial hydrostatic pressure causes natriuresis and diuresis in the Okamoto spontaneously hypertensive rat	1991 FASEB Meeting	Atlanta, GA
Renal interstitial hydrostatic pressure during inhibition of loop of Henle sodium transport	1992 FASEB Meeting	Anaheim, CA
Increased plasma endothelin-1 in the Okamoto spontaneously hypertensive rat	1992 14th Scientific Meeting, International Society of Hypertension	Madrid, Spain
Transmission of pressure to the renal interstitium in spontaneously hypertension	July 2, 1992 1992 FASEB Summer Research Conference Renal Hemodynamics: Interactions with Endothelial and Epithelial Systems <u>(Invited)</u>	Saxtons River, VT
Exaggerated natriuresis and diuresis in the SHR with inhibition of nitric oxide (NO) by N ^G -monomethyl-L-arginine (L-NMMA) infusion	1992 ASN Meeting	Baltimore, MD
Role of renal interstitial hydrostatic pressure in the natriuresis of systemic nitric oxide inhibition	1993 FASEB Meeting	New Orleans, LA
Inhibition of nitric oxide causes exaggerated natriuresis in spontaneously hypertensive rats	April 25-29, 1993 Inter-American Society of Hypertension <u>(Invited)</u>	LaJolla, CA
Changes in proximal tubule reabsorption contribute to the exaggerated natriuresis of nitric oxide synthesis inhibition in the SHR	November 15, 1993 Forum of End Stage Renal Disease Networks <u>(Invited)</u>	Boston, MA
Role of the renal nerves in the natriuresis and diuresis of L-NMMA infusion in the spontaneously hypertensive rat	March 20-24, 1994 International Society of Hypertension	Melbourne, Australia

Impaired pressure natriuresis and exaggerated natriuretic response to nitric oxide inhibition in spontaneous hypertension	October 14, 1994 Jichi Medical School (Invited)	Minamikawachi, Japan
Atrial natriuretic factor (ANF) and the renal nerves in the natriuresis of nitric oxide (NO) inhibition in the SHR	October 19, 1994 VIIIth International Symposium on SHR and Related Studies (Invited)	Osaka, Japan
Role of the renal nerves in the natriuresis of nitric oxide inhibition	November 18, 1994 University of Illinois at Chicago (Invited)	Chicago, IL
The role of renal interstitial hydrostatic pressure in the natriuresis of the SHR	April 10, 1995 Experimental Biology 95 Meeting (Invited)	Atlanta, GA
Role of the renal nerves in the natriuresis of nitric oxide (NO) inhibition in the SHR	April 12, 1995 Symposium on "Renal NaCl Transport" Experimental Biology 95 (Invited)	Atlanta, GA
Blockade of cytochrome-P450 (cP-450) attenuates the natriuretic response of L-NMMA infusion in the SHR	April 16, 1996 Experimental Biology 96	Washington, D.C.
The natriuresis produced by nitric oxide (NO) inhibition in the SHR is independent of changes in atrial natriuretic peptide (ANP)	May 18, 1996 The American Society of Hypertension	New York, NY
Ketoconazole attenuates the natriuretic response of L-NMMA infusion in the SHR	June 3, 1996 1st Annual Meeting of the Midwest Physiological Society	Milwaukee, WI
Role of the renal nerves in the development of renal cystic disease in Han:SPRD rats	April 7, 1997 Experimental Biology 97	New Orleans, LA
Effect of by nitric oxide (NO) inhibition on atrial natriuretic peptide (ANP), and plasma renin activity (PRA)	May 31, 1997 The American Society of Hypertension	San Francisco, CA

Alterations in natriuretic responses during hypertension	May 15, 1998 The American Society of Hypertension (Invited)	New York City, NY
Changes in natriuretic responses during hypertension: role of renal interstitial hydrostatic pressure	July 16, 1998 West Virginia University (Invited)	Morgantown, WV
Role of renal interstitial hydrostatic pressure in pressure natriuresis	March 18, 1999 Ohio University (Invited)	Athens, OH
Natriuretic response to nitric oxide (NO) inhibition in the pregnant spontaneously hypertensive rat (SHR)	April 20, 1999 Experimental Biology 99	Washington D.C.
Renal interstitial hydrostatic pressure in hypertension and in pregnancy	September 16, 1999 Texas Tech Medical Center (Invited)	Amarillo, TX
Renal interstitial hydrostatic pressure in hypertension and in pregnancy	September 20, 1999 University of Utah (Invited)	Salt Lake City, UT
Changes in natriuretic responses during hypertension: role of renal interstitial hydrostatic pressure	July 16, 1998 West Virginia University (Invited)	Morgantown, WV
Renal phosphate and sodium handling in pregnant rats	March 24, 2000 Society for Gynecologic Investigation	Chicago, IL
Pressure natriuresis and renal interstitial hydrostatic pressure (RIHP) in pregnant rats.	April 16, 2000 Experimental Biology 2000 (Invited)	San Diego, CA
Role of gender in pressure natriuresis and renal interstitial hydrostatic pressure (RIHP) in rats.	April 16, 2000 Experimental Biology 2000	San Diego, CA
Pressure natriuresis and renal interstitial hydrostatic pressure (RIHP) in pregnant rats.	April 18, 2000 Experimental Biology 2000	San Diego, CA

Renal interstitial hydrostatic pressure in hypertension and in pregnancy.	July 24, 2000 West Virginia University (Invited)	Morgantown, WV
Renal interstitial hydrostatic pressure (RIHP) and sodium excretion in female and male rats.	August 23-24, 2000 International Society of Hypertension	Chicago, IL
Natriuretic and diuretic responses to acute volume expansion in pregnant rats.	November 10, 2000 Jackson Cardiovascular-Renal Meeting 2000	Jackson, MS
Hypertension and pregnancy: role of renal interstitial hydrostatic pressure in sodium excretion.	December 11, 2000 Virginia Tech University (Invited)	Blacksburg, VA
Hypertension and pregnancy: role of renal interstitial hydrostatic pressure in sodium excretion.	January 17, 2001 Eastern Virginia Medical School (Invited)	Norfolk, VA
Renal responses to acute volume expansion in pregnant rats.	June 18, 2001 2001 FASEB Summer Research Conference Renal Microcirculatory Hemodynamics: Molecular, Cellular, Physiologic, Clinical and Integrative Mechanisms (Invited)	Saxtons River, VT
The immune system and hypertension.	September 6, 2001 Hypertension, Reactive Oxygen Species, Immunocompetent Cells and Progression of Renal Damage (Invited)	Merida, Venezuela
Pressure-natriuresis in experimental hypertension.	September 6, 2001 Hypertension, Reactive Oxygen Species, Immunocompetent Cells and Progression of Renal Damage (Invited)	Merida, Venezuela
Renal function in pregnancy, diabetes, and diabetic pregnancy	September 30, 2002 Department of Physiological Sciences seminar series Eastern Virginia Medical School	Norfolk, VA

Nitric oxide inhibition in natriuresis and diuresis of volume	April 13, 2003 Experimental Biology 2003	San Diego, CA
Renal expression of Na ⁺ -H ⁺ exchanger in pregnant rats	October 3, 2003 2003 American Physiological Society Conference “Understanding Renal and Cardiovascular Function through Physiological Genomics”	Augusta, GA
Renal function adaptations to pregnancy	January 12, 2004 Department of Physiological Sciences seminar series Eastern Virginia Medical School	Norfolk, VA
Renal and cardiovascular adaptations to pregnancy.	April 1, 2004 Biology Department Old Dominion University	Norfolk, VA
Localization and protein expression of Na ⁺ -H ⁺ exchangers during pregnancy in rats	April 19, 2004 Experimental Biology 2004	Washington, D.C.
Na ⁺ -K ⁺ ATPase and sodium phosphate co-transporter (Na-Pi) localization and protein expression in pregnant rats	April 19, 2004 Experimental Biology 2004	Washington, D.C.
Renal interstitial compliance and natriuresis in pregnant rats:	April 3, 2005 Experimental Biology 2004 & the XXXV International Congress of Physiological Sciences Conference	San Diego, CA .
Natriuretic responses to angiotensin II (ANG II) in pregnant and nonpregnant rats	April 3, 2005 Experimental Biology 2004 & the XXXV International Congress of Physiological Sciences Conference	San Diego, CA .
Renal interstitial compliance during pregnancy.	March 20, 2006 Department of Physiological Sciences seminar series Eastern Virginia Medical School	Norfolk, VA
Enalapril treatment restores the attenuated proximal tubule reabsorption in response to acute volume expansion (VE) in diabetic rats	April 2, 2006 Experimental Biology 2006	San Francisco, CA

Renal interstitial compliance and renal adaptations to pregnancy.	May 26, 2006 Department of Obstetrics and Gynecology Texas Tech University Health Sciences Center (Invited)	El Paso, TX
Renal adaptations to pregnancy: renal interstitial compliance.	July 12, 2006 Sterlitz Diabetes Institute Eastern Virginia Medical School	Norfolk, VA
Renal adaptations to pregnancy: renal interstitial compliance.	November 08, 2006 Weill Cornell Medical College in Qatar (Invited)	Doha, Qatar
Role of Renal Interstitial Compliance and Sodium Transporters in the Volume Retention of Pregnancy.	January 31, 2007 Weill Medical College of Cornell University (Invited)	New York, NY
Renal function during normal pregnancy	May 2, 2007 Pepe/Duffy Lab Group Eastern Virginia Medical School	Norfolk, VA
Regulation of blood pressure : regulation of sodium excretion	December 18, 2007 Cardiovascular and Renal Focus Group Eastern Virginia Medical School	Norfolk, VA

SERVICE

Member, Department of Physiology and Biophysics Education Committee, Mayo Clinic College of Medicine (1994-1996).

Assisted Dr. Richard Robb, Chairman of the Departmental (Physiology and Biophysics) Education Committee, in reviewing applications and interviewing candidates for the Ph.D. Program in Physiology, and Biomedical Imaging, at Mayo Clinic College of Medicine (1994-1996).

Assisted Dr. Richard McGee, Associate Dean of Mayo Clinic College of Medicine for Graduate Education, in reviewing applications and interviewing candidates for the Summer Undergraduate Research Fellowship (SURF) Program at Mayo Graduate School (1994-1996).

Assisted the Department of Physiology and Biophysics, and Education in identifying and inviting scientist of interest to give seminars at the department seminar series (1992-1996).

Member, Campus Research Board, Life Sciences Subcommittee, The University of Illinois at Chicago (1997-2001)

Member, Membership Committee of the American Physiological Society (1997-2000).

Medical Students Interviews, The University of Illinois at Chicago (1/11/00-2001)

Coordinator, Department of Physiological Sciences Seminar Series, Eastern Virginia Medical School, (2002-2008).

COMMUNITY SERVICE

Soccer referee and game scheduler (high school, youth, and adult soccer), Rochester, MN 1986 - 1996

Manager, soccer, volleyball, and softball teams (Mayo Clinic employees) in the Park and Recreation League, Rochester, MN 1987-1994

Rochester Track Club, Member and volunteer for All Comers Mile which was held once/week during the summer to encourage youngsters to get involved in sports, Rochester, MN 1992-1996

Volunteer, 1993 flood cleanup and food distribution, Des Moines, IA 3 weekends

Community Service (continued):

Volunteer, Ronald McDonald House, Rochester, MN	1995-1996 (Approx. 6 hrs/week)
Volunteer, Chicago Aids Walk 96	September, 1996 (Approx. 15 hrs)
Volunteer, Y-Me Race against Breast Cancer, Chicago	May 11, 1997 (Approx. 10 hrs)
Volunteer, Humana's "I Feel Good" Run/Walk, Chicago	June 8, 1997 (Approx. 10 hrs)
Volunteer, Chicago Aids Walk 97	September 28, 1997 (Approx. 10 hrs)
Member, Lincoln Park Pacers (Running Club)	6/1997-2001
Member, The Chicago Council on Foreign Relations	6/1997-2001
Volunteer, The Chicago Marathon, Chicago	October 19, 1997 (Approx. 10 hrs)
Volunteer, Trick or Treat Trot, Chicago	October 25, 1997 (Approx. 8 hrs)
Volunteer, Vertel's Turkey Trot, Chicago	November 27, 1997 (Approx. 5 hrs)
Volunteer, Humana's "I Feel Good" Run/Walk, Chicago	June 14, 1998 (Approx. 10 hrs)
Volunteer, Chicago Aids Walk 98	September 27, 1998 (Approx. 10 hrs)
Volunteer, The Chicago Marathon, Chicago	October 12, 1998 (Approx. 10 hrs)
Volunteer, Distributing coats to the homeless, Downtown Chicago	December 25, 1998 (Approx. 6 hrs)
Volunteer, Humana's "I Feel Good" Run/Walk, Chicago	June 13, 1999 (Approx. 10 hrs)
Volunteer, The Chicago Marathon, Chicago	October 24, 1999 (Approx. 10 hrs)
Volunteer, The Chicago Marathon, Chicago	October 22, 2000 (Approx. 10 hrs)
Volunteer for Norfolk Emergency Shelter Team (NEST) with the medical students. We cook and serve meals for the homeless at St. Andrews Church, Norfolk, VA.	2005-2008 (Approx. 10 hrs)