

**BRIAN ALAN JACKSON, Ph.D.**

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**1. EDUCATION**

- 07/80 - 08/81: Research Associate  
Department of Physiology and Biophysics  
Mayo Clinic and Foundation, Rochester, MN  
(Sponsor: Thomas P. Dousa, M.D., Ph.D.)
- 11/77 - 06/80: Postdoctoral Fellow  
Department of Physiology and Biophysics  
Mayo Clinic and Foundation, Rochester, MN  
(Sponsor: Thomas P. Dousa, M.D., Ph.D.)
- 09/74 - 10/77: Ph.D. (Comparative Physiology)  
Department of Zoology, University of Sheffield, England.  
(Major Professor: Ian W. Henderson, Ph.D.)
- 09/71 - 08/74: B.Sc. (Honors, Zoology)  
Department of Zoology, University of Sheffield, England.

**2. APPOINTMENTS**

- 08/03 - present: Senior Associate Dean  
The Graduate School, University of Kentucky, Lexington, KY
- 01/02 - 06/03: Interim Chairman  
Department of Physiology, University of Kentucky, College of Medicine
- 06/98 - present: Professor (With Tenure)  
Department of Physiology, University of Kentucky, College of Medicine  
(Chair: Phyllis M. Wise, Ph.D.; Michael B. Reid, Ph.D. effective 07/03)
- 07/87 - 05/98: Associate Professor (With Tenure)  
Department of Physiology, University of Kentucky, College of Medicine  
(Chair: Donald T. Frazier, Ph.D.)

- 07/86 - present: Faculty Associate, Center for Membrane Sciences  
University of Kentucky, Lexington, KY
- 09/81 - 06/87: Assistant Professor  
Department of Physiology, University of Kentucky, College of Medicine  
(Chair: Donald T. Frazier, Ph.D.)
- 09/80 - 08/81: Research Assistant Professor  
Department of Physiology and Biophysics  
Mayo Clinic and Foundation, Rochester, MN

### 3. HONORS/AWARDS

- 05/04: Nominee, Holsinger Teaching Award, Department of Physiology
- 08/99: Invited Participant, 10<sup>th</sup> International Symposium on Chromaffin Cell  
Biology, Bergen, Norway
- 06/97: Invited Participant, Summer Training Course on Aging Research,  
San Francisco, CA
- 07/96 - 06/98: Member, Board of Directors, American Heart Association, Kentucky  
Affiliate
- 07/94: Master Teacher Award, University of Kentucky, College of Medicine
- 04/87: Nominee, Pre-Clinical Golden Apple Teaching Award, University of  
Kentucky, College of Medicine
- 04/83 - 06/86: National Institutes of Health, New Investigator Award
- 07/81: International Society of Nephrology Travel Award
- 07/79 - 06/81: National Kidney Foundation Research Fellowship
- 11/77 - 06/79: Mayo Foundation Research Fellowship
- 09/74 - 08/77: Science Research Council Graduate Studentship

### 4. RESEARCH INTERESTS

1. Intracellular signaling mechanisms involved in the regulation of renal tubular transport, with particular emphasis on the control of NaCl reabsorption by the thick ascending limb of the loop of Henle, and water reabsorption by the medullary and papillary collecting tubule.
2. The role of the GI tract peptides guanylin and uroguanylin in the regulation of renal NaCl excretion.
3. Intracellular signaling mechanisms involved in the regulation of catecholamine biosynthesis and secretion in the rodent and porcine adrenal medullary chromaffin cell.

5. **RESEARCH FUNDING**

A. **CURRENT FUNDING**

9/05 - 08/09: Veterans Administration Merit Grant  
"Entero-renal Regulation of Salt and Blood Pressure"  
(Co-PI: 30% effort: PI: R. Greenberg)

04/02 - 03/07: National Institutes of Health  
"Pulmonary C-Neuron Hypersensitivity: Cellular Mechanisms"  
(Co-PI: 5% effort: PI: L-Y Lee)

B. **RECENT FUNDING**

07/02 - 06/05: American Heart Association (Ohio Valley Affiliate)  
"Effect of Estrogen on Adrenal Catecholamine Secretion and Synthesis"  
(Principal Investigator)

07/99 - 06/03: National Institutes of Health  
"Aging and Catecholamine Synthesis and Secretion"  
(Principal Investigator)

01/99 - 03/03: Veterans Administration Merit Grant  
"The Uroguanylin Peptide Family: Cellular Mechanisms and Regulation"  
(Co-PI: 15% effort: PI: R. Greenberg)

01/97 - 12/00: American Heart Association (National)  
"P-450 Arachidonate Metabolites and NaCl Reabsorption in the Thick  
Ascending Limb of the Loop of Henle"  
(Principal Investigator)

10/96 - 09/00: United States Department of Agriculture  
"Glucocorticoid Effects on Catecholamine Synthesis and Release During  
Stress"  
(Principal Investigator)

## 6. TEACHING EXPERIENCE

### A. FALL 1999 - PRESENT

- SPRING 2006: PGY 818: Human Function (**Course Director**)  
IBS 606: Integrated Biomedical Sciences (Renal Physiology)  
PGY 412G: Principles of Human Physiology
- FALL 2005: PGY 412G: Principles of Human Physiology (**Course Director**)  
PGY 502: Principles of Systems, Cellular and Molecular Physiology (Renal)  
PGY 602: Readings in Systems, Cellular and Molecular Physiology
- SPRING 2005: PGY 818: Human Function (**Course Director**)  
IBS 606: Integrated Biomedical Sciences (Renal Physiology)
- FALL 2004: PGY 502: Principles of Systems, Cellular, Molecular Physiology (Renal)  
PGY 602: Readings in Systems, Cellular and Molecular Physiology
- SPRING 2004: PGY 818: Human Function (**Course Director**)  
IBS 606: Integrated Biomedical Sciences (Renal and Gastrointestinal Physiology)
- FALL 2003: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)  
PGY 602: Readings in Systems, Cellular and Molecular Physiology
- SPRING 2003: PGY 818: Human Function (**Course Director**)  
IBS 606: Integrated Biomedical Sciences (Renal and Gastrointestinal Physiology)  
PGY 560: Pathophysiology: Integrated Study in Physiology & Medicine
- FALL 2002: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
- SPRING 2002: IBS 606: Integrated Biomedical Sciences (Renal Physiology)  
PGY 608: Advanced Renal Physiology (**Course Co-Director**)  
PGY 560: Pathophysiology: Integrated Study in Physiology & Medicine  
PGY 818: Medical Physiology (Renal Physiology Co-Instructor)
- FALL 2001: PGY 502: Principles of Systems, Cellular, Molecular Physiology (Renal)
- SPRING 2001: IBS 606: Integrated Biomedical Sciences (Renal Physiology)
- FALL 2000: PGY 502: Principles of Systems, Cellular, Molecular Physiology (Renal)
- SPRING 2000: PGY 590: Cellular and Molecular Physiology  
PGY 690: Readings: Cellular & Molecular Physiology (**Course Director**)  
PGY 608: Advanced Renal Physiology (**Course Co-Director**)

FALL, 1999: PGY 502: Principles of Systems, Cellular, Molecular Physiology (Renal)  
PGY 602: Readings in Systems, Cellular and Molecular Physiology  
TOX 509: Contemporary Toxicology (Renal Toxicology)

**B. ADDITIONAL TEACHING EXPERIENCE**

PGY 522: Quantitative Physiology  
PGY 507: Introduction to Endocrinology  
PGY 504: Independent Work in Physiology  
PGY 206: Elementary Physiology (Endocrine Physiology)  
Summer Workshops for College and High School Teachers

**C. NEW COURSE DEVELOPMENT**

PGY 590: Cellular and Molecular Physiology  
PGY 690: Readings in Cellular and Molecular Physiology

**7. STUDENT/FELLOW TRAINING**

**A. POSTDOCTORAL FELLOWS**

02/00 - 01/01: Jihong Liu, M.D.  
Current Status: Professor, Department of Urology  
Tongji Hospital, Wuhan, China

01/97 - 06/99: Paul D. Wagner, Ph.D.  
Current Status: Associate Professor, Department of Biology  
Waubash College, Topeka, KS

**B. GRADUATE STUDENTS**

**i. MAJOR PROFESSOR**

Julye M. Adams Ph.D. (Graduated 09/05)

Dissertation: "Modulation of the Adrenal Medullary Response to Stress by Estradiol in the Female Rat"

Status: Postdoctoral Fellow, Department of Physiology, University of Kentucky

Mark Jorgensen, Ph.D. (Graduated, 06/01)

Dissertation: "Modulation of Nicotinic Receptor-dependent Signaling in Adrenal Medullary Chromaffin Cells"

Status: Associate, Abbott Laboratories, Nashville, TN

Lynn Z. Fuller, Ph.D. (Graduated 10/97)

Dissertation: "Modulation of Signal Transduction Pathways by Glucocorticoids in Adrenal Medullary Chromaffin Cells"

Status: Part-time Instructor, Department of Physiology, University of Kentucky

Jay S. Grider, Ph.D. (Graduated 08/96)

Dissertation: "Cytosolic Calcium and Sodium Chloride Reabsorption in the Medullary Thick Ascending Limb of the Rat"

Status: Assistant Professor of Anesthesiology, University of Kentucky, College of Medicine

Jeff D. Yingling, Ph.D. (Graduated 10/94)

Dissertation: "Modulation of Cyclic 3',5' Adenosine Monophosphate Metabolism in PC18 Pheochromocytoma Cells"

Status: Senior Research Scientist, Amgen Corporation, Boulder, CO

David T. Kidwell, Ph.D. (Graduated 12/92)

Dissertation: "The Role of the Thick Ascending Limb of Henle's Loop in the Development and/or Maintenance of the Concentrating Defect Associated with Aminoglycosides"

Status: Associate Professor, Southeast Community College.

Sriram Subramaniam, Ph.D. (Graduated 11/91)

Dissertation: "Effect of Extracellular Osmolality on Renal Medullary Cell Function"

Status: Staff Scientist, Food and Drug Administration, Washington, DC

Nancy M. Logan, M.S. (Graduated 09/92)

Status: Nurse Practitioner, East Tennessee

Leslie D. Boucher, M.S., M.D. (Graduated 01/85)

Thesis: "Dissociation of Hyperreninemia and Renal Prostaglandin Synthesis in the Adrenalectomized Rat"

Status: Associate Professor of Pathology, Washington University Medical Center, St. Louis

## ii. FELLOW/GRADUATE STUDENT HONORS

- |                      |       |   |
|----------------------|-------|---|
| Julye M. Adams:      | 2001: | Pre-doctoral Fellowship (2 year), American Heart Association, Ohio Valley Affiliate                                       |
| Mark S. Jorgensen:   | 1999: | Invited Participant; 10 <sup>th</sup> International Symposium on Chromaffin Cell Biology, Bergen, Norway                  |
| Paul G. Wagner:      | 1998: | Gill Heart Institute Research Day Poster Competition, 2 <sup>nd</sup> Place Award   |
| Jay S. Grider:       | 1995: | American Physiological Society First Place Award for Excellence in Renal Research (Experimental Biology '95, Atlanta, GA) |
|                      | 1994: | Burroughs-Wellcome Osteopathic Research Fellowship  |
| Lynn Z. Fuller:      | 1995: | American Physiological Society Travel Award, Experimental Biology '95, Atlanta, GA)                                       |
| Denis A. Yalkut:     | 1993: | College of Medicine Research Day, First Place Award   |
| Jeffrey D. Yingling: | 1992: | Graduate School Dissertation Year Fellowship (competitive)  |

David T. Kidwell: 1991: Graduate School Dissertation Year Fellowship (competitive)  
Leslie D. Boucher: 1985: College of Medicine Research Day, First Place Award  
1985: Bernard Levy Memorial Award for Nephrology and Autonomic Pharmacology, National Student Research Forum, Galveston, TX

**iii. ADVISORY COMMITTEE MEMBER; DEPARTMENT OF PHYSIOLOGY STUDENTS**

Helen Saelinger, M.S. (Graduated 02/85)	Michael Byers, M.S. (Graduated 06/98)
Shirley Whitescarver, Ph.D. (Graduated 12/87)	Fuqiang Xu, Ph.D. (Graduated 07/98)
Helen I'Anson, Ph.D. (Graduated 12/88)	Yi Zhang, Ph.D. (Graduated 05/99)
John Lorenz, Ph.D. (Graduated 07/88)	Joshua Dziba M.S. (Graduated 01/00)
Pamela Neiser, Ph.D. (Graduated 09/90)	Gregory Graf, Ph.D. (Graduated 03/00)
Thomas Skinner, Ph.D. (Graduated 09/90)	Hong-Wei Tsai, Ph.D. (Graduated 08/01)
Te-Sheng Wen, Ph.D. (Graduated 12/91)	Jorge Quintero, Ph.D. (Graduated 10/01)
Mallur Satyanarayan, M.S. (Graduated 01/93)	Eric Kilpatrick, Ph.D. (Graduated 11/01)
Warwick Arden, Ph.D. (Graduated 04/93)	Erin Manning, Ph.D. (Graduated 07/02)
Warren Nothnick, Ph.D. (Graduated 09/93)	Michael Manning, Ph.D. (Graduated 08/02)
Glenn McCombs, Ph.D. (Graduated 02/94)	Jeff Yates, Ph.D. (Graduated 07/06)
April Forsberg, Ph.D. (Graduated 07/94)	Thomas Stoss (Ph.D. candidate)
Kevin Krause, Ph.D. (Graduated 11/94)	Amanda Prewitt (Ph.D. candidate)
Hai-Rong Niu, Ph.D. (Graduated 02/96)	Krasimira Rozenova (Ph.D. candidate)
Tracy Edgerton, Ph.D. (Graduated 04/98)	

**iv. ADVISORY COMMITTEE MEMBER; OTHER DEPARTMENTS**

Jamie Young, Ph.D. (09/88, Physiology, Louisville)	Steve Phipps, Ph.D. (04/00, Pharmacy)
Theresa Powell, Ph.D. (04/89, Biological Sciences)	Greg Clodfelter, Ph.D. (06/00, Pharmacology)
Michelle Wright, Ph.D. (8/91, Immunology, Louisville)	Levent Dirikolu, Ph.D. (08/01, Animal Science)
Natarajan Muthusamy, Ph.D. (2/92, Immunology)	Dan McCune, Ph.D. (09/01, Pharmacology)
Mark Debenedette, Ph.D. (09/92, Immunology)	Bruce Waldrop, Ph.D. (10/01, Pharmacy)
Kimberley Davis, Ph.D. (Grad 07/93, Immunology)	Kays Kaysi, M.S. (01/03, Immunology)
Carla Guthridge, Ph.D. (09/93, Immunology)	Brian Zhang Ph.D (01/05; Animal Sciences)
Vince Austin, Ph.D. (06/94, Immunology)	Weifei Zhu, Ph.D. (06/05, Nutritional Sciences)
Brad Addison, Ph.D. (06/95, Pharmacology)	Mingdong Liu, Ph.D. (10/05; Immunology)
Sandra Hrometz, Ph.D. (07/98, Pharmacology)	Beob Kim (Ph.D. Animal Sciences)

**C. SUMMER STUDENTS**

Aaron Wilson (1989; 1990; Scott County H.S.)	Jennifer Trumbore (2000; Asbury College)
Renee Combs (1992; Berea College, KY)	Brandy Stagner (2000; Boyle County H.S.)
Phillip Bannor (1993; Western Illinois University)	Matthew Blackburn (2002; Millard H.S.)
Alma Brooks (1994; Tates Creek Middle School)	Gayle Joseph (2003; Kentucky State Univ)
Elora Alaudin (1995; Kentucky State Univ.)	

## 8. NATIONAL SERVICE

- 12/04 – 04/06: Chair, Study Section #4, American Heart Association (AHA), Southern/Ohio Valley Research Consortium
- 07/03 - 11/04: Vice-Chair, Study Section #4, AHA, Southern/Ohio Valley Research Consortium
- 01/03 - 06/03: Member, Study Section #4, AHA, Southern/Ohio Valley Research Consortium
- 02/02 - 02/12: Member, Study Section #1B, AHA, Southern/Ohio Valley Research Consortium
- 01/00 - present: *Ad Hoc* Member, USDA, NRI Review Panel
- 02/99 - present: *Ad Hoc* Member, Minority Biomedical Research Support Panel, National Institute of General Medical Sciences
- 08/98: American Physiological Society Committee on Developing Learning Objectives for Teaching Renal Physiology
- 03/98 - 03/02: Member, Research Committee, AHA, Ohio Valley Affiliate
- 02/98 - 03/02: Member, Research Task Force, AHA, Ohio Valley Affiliate
- 11/97 - present: Reviewer, United States Department of Agriculture
- 07/97 - 04/00: Chair, Study Section #4, AHA, Mid-America Research Consortium
- 06/97 - 03/00: Chair, Research Committee, AHA, Kentucky Affiliate
- 06/94 - 05/96: Chair, Research Peer Review Committee, AHA, Kentucky Affiliate
- 09/93 - 05/96: Member, Research Committee, AHA, Kentucky Affiliate
- 06/93 - 05/94: Vice-Chair, Research Peer Review Committee, AHA, Kentucky Affiliate
- 09/92 - 08/95: Member, Membership Committee, Kentucky Academy of Sciences
- 09/90 - 06/96: Member, Research Peer Review Committee, AHA, Kentucky Affiliate
- 07/89 - present: *Ad hoc* Reviewer, Department of Defense
- 07/87 - present: *Ad hoc* Reviewer, National Science Foundation
- 07/86 - present: *Ad hoc* Reviewer, Veterans Administration
- 01/85 - present: *Ad hoc* Journal Reviewer for:
- American Journal of Physiology (Renal; Endocrinology/Metabolism)
  - Autonomic and Autacoid Pharmacology
  - Biochemical Pharmacology
  - Biochimica et Biophysica Acta
  - Drug Metabolism and Disposition
  - Hypertension
  - Journal of Bone and Mineral Research
  - Journal of Gerontology
  - Journal of Laboratory and Clinical Medicine
  - Journal of Membrane Science
  - Journal of Pharmacology and Experimental Therapeutics
  - Molecular Endocrinology
  - Clinical Nephrology

**9. UNIVERSITY SERVICE**

**i. DEPARTMENT OF PHYSIOLOGY**

06/03 - 12/03: Chairman, Departmental Faculty Search Committee  
01/01 - 06/03: Interim Chairman  
09/98 - 12/00: Member, Departmental Faculty Search Committees  
06/94 - 06/97: Member, Departmental Faculty Search Committee  
07/88 - 12/92: Director of Graduate Studies  
09/83 - 06/02: Member, Graduate Affairs Committee

**ii. MEDICAL CENTER**

07/03 - present: College of Medicine Curriculum Committee  
07/03 - present: Member, U.K. College of Dentistry Self-Study; Education Program Committee  
09/02 - 03/03: Chair, Review Committee for the Department of Molecular and Biomedical Pharmacology  
12/01 - 03/02: Member, Search Committee for Clinical Veterinarian, Department of Laboratory Animal Resources  
07/01 - 12/01: Member, LCME, Basic Science Departments Self-Study Committee  
05/00 - 06/02: Member, Integrated Biomedical Sciences Graduate Admissions Committee  
06/99 - 05/00: Member, Integrative Biomedical Sciences Graduate Program Steering Committee  
07/94 - present: Member, Medical Center Library Advisory Committee  
08/97: Member, Orthodontics Residency Admissions Committee  
04/92 - 06/96: Member, Robert Wood Johnson (RWJ) Steering Committee  
07/92 - 06/95: Member, College of Medicine Curriculum Committee  
07/91 - 06/94: Member, College of Medicine Student Financial Aid Committee  
05/91 - 06/94: Member, RWJ Medical-Surgical Clerkship Task Force  
07/88 - 08/91: Member, College of Medicine Faculty Council  
01/88 - 08/90: Member, Review and Search Committee for Chairman, Dept. of Pharmacology  
07/89 - present: *Ad hoc* Interviewer, College of Medicine Admissions Committee  
07/85 - 06/89: Member, College of Medicine Admissions Committee  
09/83 - 07/87: Member, College of Medicine Research Committee

**iii. UNIVERSITY**

09/05 - 12/05: Chair, Search Committee for Director, Division of Laboratory Animal Resources  
08/03- present: Member, Academic Organization and Structure Committee  
08/03 - present: Chair, Electronic Thesis and Dissertation Committee  
08/03 - present: Member, University Senate  
08/03 - present: Member, Research Management Group  
09/02 - present: Member, Selection Committee for Derbyshire Professorship  
09/02 - 08/03: Member, Graduate Council  
06/02 - present: Chair, University Institutional Animal Care and Use Committee  
06/01 - 05/02: Chair, Institutional Animal Care and Use Committee, Medical Center Subcommittee  
01/00 - 06/00: Chair, Tobacco and Health Technical Advisory Committee

12/98 - 12/00: Member, Senate Task Force on the Future of the University  
06/98 - 05/01: Member, Institutional Animal Care and Use Committee, Medical Center  
Subcommittee  
07/97 - 06/00: Member, Graduate Council Committee on Fellowships and Traineeships  
01/87: Member, University of Kentucky Bond Issue Review Committee  
09/83 - 06/94: Member, University of Kentucky Committee on Human Safety and Environmental  
Health

**10. PROFESSIONAL DEVELOPMENT**

01/02 - 05/02: "Leadership in the New Millennium" Program  
Bronwyn Hoffmann and Associates/Gatton College of Business and Economics

**11. SOCIETY MEMBERSHIPS**

Society for Neuroscience  
American Society of Nephrology  
American Society of Renal Biochemistry and Metabolism  
American Heart Association, Council on the Kidney in Cardiovascular Disease

**12. OTHER SCHOLARLY ACTIVITY**

Author, "The Renal System; An Integrated Basic Science Series"  
Fence Creek Publishing Co., 1999

### 13. BIBLIOGRAPHY

#### A. PEER-REVIEWED MANUSCRIPTS

52. Adams JM, Legan SJ, Ott CE, *Jackson BA*, 2005. Modulation of stress-induced increases in plasma epinephrine by estrogen in the female rat. *J. Neurosci Res.* 79: 360-367.
51. Carrithers SL, Hill MJ, Johnson BR, Chang JJ, Shah RG, Trumbore JN, Sun C, Mann EA, Forte LR, *Jackson BA*, Ott CE, Giannella RA, Greenberg RN., 2004. Guanylin and uroguanylin induce natriuresis in mice lacking guanylyl cyclase-C receptor. *Kidney Int.* 65: 40-53.
50. Grider J, Ott E, *Jackson B*, 2003. Fenoldopam-dependent inhibition of NaCl transport in the medullary thick ascending limb of the rat; mechanism of action. *Europ. J. Pharmacol.* 473: 185-190.
49. Carrithers SL, *Jackson BA*, Greenberg RN, Ott CE, 2002. Regulation of intestinal guanylin and uroguanylin expression by dietary salt intake. *Regulatory Peptides* 107: 87-95.
48. Li X, Titlow WB, *Jackson BA*, Giltiay N, Nikolova-Karakashian M, Uittenbogaard A, Smart EJ, 2002. High-density lipoprotein binding to scavenger receptor class B, type-1 activates endothelial nitric oxide synthesis in a ceramide-dependent manner. *J. Biol. Chem.* 277: 11058-11063.
47. Jorgensen MS, Liu JH, Adams JM, Titlow WB, *Jackson BA*, 2002. Inhibition of voltage-gated Ca<sup>2+</sup> current by PACAP in rat adrenal chromaffin cells. *Regulatory Peptides* 103: 59-65.
46. Liu JH, Jorgensen MS, Adams JM, Titlow WB, Nikolova-Karakashian M, *Jackson BA*, 2001. Ceramide modulates nicotinic receptor-dependent Ca<sup>2+</sup> signaling in rat chromaffin cells. *J. Neurosci. Res.* 66: 559-564.
45. Carrithers SL, Taylor B, Cai WY, Johnson BR, Ott CE, Greenberg RN, *Jackson BA*, 2000. Guanylyl cyclase C receptor distribution along the rat nephron. *Regulatory Peptides* 95: 65-74.
44. Jorgensen M, Wagner P, Arden W, *Jackson B*, 2000. Modulation of stimulus-secretion coupling in porcine adrenal chromaffin cells by receptor-mediated increases in protein kinase C activity. *J. Neurosci. Res.* 59: 760-766.
43. Wagner P, Jorgensen M, Arden W, *Jackson B*, 1999. Stimulus-secretion coupling in porcine adrenal chromaffin cells: Acute effects of glucocorticoids. *J. Neurosci. Res.* 57: 643-650.
42. Carrithers SL, Hill MJ, Johnson BR, O'Hara SM, *Jackson BA*, Ott CE, Lorenz J, Mann EA, Giannella RA, Forte LR, Greenberg RN, 1999. Renal effects of uroguanylin and guanylin *in vivo*. *Braz. J. Med. Biol. Res.* 32: 1337-1344.
41. Grider J, Kilpatrick E, Ott E, *Jackson B*, 1998. Effect of dopamine on NaCl transport in the medullary thick ascending limb of the rat. *Europ. J. Pharmacol.* 342: 281-284.

40. Fuller L, Lu C, McMahon D, Lindemann M, Jorgensen M, Rau S, Siskin J, *Jackson B*, 1997. Stimulus-secretion coupling in porcine adrenal chromaffin cells: Effect of dexamethasone. *J. Neurosci. Res.* 49: 416-424.
39. McClintock TS, Landers TM, Gimelbrandt AA, Fuller LZ, *Jackson BA*, Jayawickreme AK, Lerner MR, 1997. Functional expression of olfactory-adrenergic receptor chimeras and intracellular retention of heterologously expressed olfactory receptors. *Mol. Brain Res.* 48: 270-278.
38. Grider J, Falcone J, Kilpatrick E, Ott E, *Jackson B*, 1997. P450 arachidonate metabolites mediate bradykinin-dependent inhibition of NaCl transport in the rat thick ascending limb. *Can. J. Physiol. Pharmacol.* 75: 91-96.
37. Fuller L, Lu C, McMahon D, Jorgensen M, Rau S, Siskin J, *Jackson B*, 1997. Effect of dexamethasone on voltage-gated Ca<sup>2+</sup> channels and cytosolic Ca<sup>2+</sup> in rat chromaffin cells. *NeuroReport* 8: 1169-1172.
36. Grider J, Falcone J, Kilpatrick E, Ott E, *Jackson B*, 1996. Effect of luminal arginine vasopressin on NaCl transport in the medullary thick ascending limb of the rat. *Europ. J. Pharmacol.* 313: 115-118.
35. McCombs GB, Ott CE, *Jackson BA*, 1996. Effect of thoracic volume expansion on cardiorenal function in the conscious rat. *Aviation, Space and Environmental Med.* 67: 1086-1091.
34. Yalkut DA, Lee LY, *Jackson BA*, Ott CE, 1996. Mechanism of atrial natriuretic peptide release with increased inspiratory resistance. *J. Lab. Clin. Med.* 128: 322-328.
33. Grider J, Falcone J, Kilpatrick E, Ott E, *Jackson B*, 1995. Effect of bradykinin on NaCl transport in the medullary thick ascending limb of the rat. *Europ. J. Pharmacol.* 287: 101-104.
32. McGovern V, Bauer HC, McClain C, *Jackson BA*, Hennig B, 1994. Tumor necrosis factor-mediated effects on gamma-glutamyl transpeptidase activity in cloned cerebral endothelial cells. *Endothelium* 2: 143-148.
31. Yingling JD, Fuller LZ, *Jackson BA*, 1994. Modulation of cAMP metabolism by glucocorticoids in PC18 cells. *J. Neurochem.* 63: 1271-1276.
30. Yingling JD, Fuller LZ, *Jackson BA*, 1994. Modulation of cAMP metabolism by protein kinase C in PC18 cells. *Neuroscience Lett.* 166: 157-160.
29. Kidwell DT, McKeown JW, Grider JS, McCombs GB, Ott CE, *Jackson BA*, 1994. Acute effects of gentamicin on thick ascending limb function in the rat. *Europ. J. Pharmacol.* 270: 97-103.
28. Kidwell DT, Subramaniam S, Ott CE, *Jackson BA*, 1990. Impaired cyclic AMP generation in outer medullary tubules of gentamicin-treated rats. *Europ. J. Pharmacol.* 191: 489-492.
27. Randall DA, Engelberg J, *Jackson BA*, Ogilvy KA, Revelette WR, Speck DF, Vernon MW, Frazier DT, 1990. Experience with a workshop for high school and college teachers. *Am. J. Physiol.* 258: S11-S15.

26. *Jackson BA*, Dousa TP, 1990. Lithium-induced nephrogenic diabetes insipidus. In "Lithium and the Kidney" Ed. S. Christensen. Lithium Therapy Monographs 3: 126-133. Karger (Basel).
25. *Jackson BA*, 1989. Modulation of cyclic AMP accumulation by phorbol ester in rat papillary collecting duct (PCD) cells in culture. In: "Biological and Synthetic Membranes. 461-469. Alan R. Liss Co.
24. *Jackson BA*, 1988. Modulation of vasopressin-sensitive cyclic AMP levels by calcium in papillary collecting tubules. *Mol. Cell. Endocrinol.* 57: 199-204.
23. Vari RC, Natarajan LA, Whitescarver SA, *Jackson BA*, Ott CE, 1988. Induction, prevention and mechanisms of contrast media-induced acute renal failure. *Kidney Int.* 33: 699-707.
22. Passmore JC, Hartupee DA, *Jackson BA*, 1987. Urinary and renal papillary solutes following cyclooxygenase inhibition with ibuprofen. *J. Lab. Clin. Med.* 110: 807-812.
21. Lorenz JN, Welch WJ, *Jackson BA*, Kotchen TA, Ott CE, 1986. Role of volume and prostaglandin synthesis in the suppression of renin by saline in the rat. *Proc. Soc. Exp. Biol. Med.* 183: 59-65.
20. *Jackson BA*, 1986. Prostaglandin E<sub>2</sub> synthesis in the inner medullary collecting duct of the rat. Implications for vasopressin-dependent cyclic AMP formation. *J. Cell. Physiol.* 129: 60-64.
19. *Jackson BA*, 1986. Renal prostaglandin E<sub>2</sub> synthesis in the Brattleboro homozygous diabetes insipidus rat. *Prostagl. Leukotr. Med.* 22: 101-111.
18. Boucher LD, Kotchen TA, *Jackson BA*, 1986. Dissociation of hyperreninemia and renal prostaglandin synthesis in the adrenalectomized rat. *Prostaglandins* 31: 143-156.
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## B. ABSTRACTS

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