

BRIAN ALAN JACKSON, Ph.D.

The Graduate School
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Albert B. Chandler Medical Center
University of Kentucky
Lexington, KY 40536-0298
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PERSONAL

Place of Birth: Barrow-in-Furness, Cumbria, England
(United States Citizen)

Home Address: 4117 Springwater Drive
Lexington, KY 40515-6028
Tel: 859.533.6064

Family Status: Wife: Jean C. Jackson, Ph.D.
Son: Marc Alan

ACADEMIC APPOINTMENTS

08/03 - present: Senior Associate Dean, The Graduate School, University of Kentucky

06/03 - present: Adjunct Faculty, Arizona School of Dentistry and Oral Health, Mesa, AZ

01/02 - 06/03: Interim Chairman, Department of Physiology
University of Kentucky, College of Medicine

06/98 - present: Professor (With Tenure), Department of Physiology
(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
(Chair: Donald T. Frazier, Ph.D.)

07/86 - present: Faculty Associate, Center for Membrane Sciences, University of Kentucky

09/81 - 06/87: Assistant Professor, Department of Physiology
(Chair: Donald T. Frazier, Ph.D.)

09/80 - 08/81: Research Assistant Professor, Department of Physiology and Biophysics
Mayo Clinic and Foundation, Rochester, MN

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
(Advisor: Ian W. Henderson, Ph.D.)
- 09/71 - 08/74: B.Sc. (Honors, Zoology)
Department of Zoology, University of Sheffield, England

HONORS/AWARDS

- 09/10: Master Teacher Award, U.K. College of Medicine
- 05/04: Nominee, Holsinger Teaching Award, Department of Physiology
- 08/99: Invited Participant, 10th International Symposium on Chromaffin Cell Biology,
Bergen, Norway
- 06/97: Invited Participant, Training Course on Aging Research, San Francisco, CA
- 07/96 - 06/98: Member, Board of Directors, American Heart Association, KY Affiliate
- 07/94: Master Teacher Award, U.K. College of Medicine
- 04/87: Nominee, Pre-Clinical Golden Apple Teaching Award, 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

PROFESSIONAL DEVELOPMENT

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

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. Intracellular signaling mechanisms involved in the regulation of catecholamine biosynthesis and secretion in the rodent and porcine adrenal medullary chromaffin cell.

RECENT RESEARCH FUNDING

- 9/05 - 08/09: Veterans Administration Merit Grant
"Entero-renal Regulation of Salt and Blood Pressure"
\$593,900 (Co-PI: 30% effort: PI: R. Greenberg)
- 04/02 - 03/07: National Institutes of Health
"Pulmonary C-Neuron Hypersensitivity: Cellular Mechanisms"
\$925,000 (Co-PI: 5% effort: PI: L-Y Lee)
- 07/02 - 06/05: American Heart Association (Ohio Valley Affiliate)
"Effect of Estrogen on Adrenal Catecholamine Secretion and Synthesis"
\$110,000 (Principal Investigator)
- 07/99 - 06/03: National Institutes of Health
"Aging and Catecholamine Synthesis and Secretion"
\$282,485 (Principal Investigator)
- 01/99 - 03/03: Veterans Administration Merit Grant
"The Uroguanylin Peptide Family: Cellular Mechanisms and Regulation"
\$482,400 (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"
\$155,441 (Principal Investigator)
- 10/96 - 09/00: United States Department of Agriculture
"Glucocorticoid Effects on Catecholamine Synthesis and Release During Stress"
\$161,396 (Principal Investigator)

TEACHING EXPERIENCE (FALL 2002-PRESENT)

- FALL 2013: MD 824: Endocrine and Reproductive Systems (**Course Director**)
MD 825: Renal System (**Course Director**)
PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
PGY 602: Readings in Systems, Cellular and Molecular Physiology
PGY 412G: Principles of Human Physiology (Renal Physiology)
- SPRING 2013: PGY 412G: Principles of Human Physiology (Renal Physiology)
IBS 606: Integrated Biomedical Sciences (Renal/GI Physiology)
- FALL 2012: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
PGY 602: Readings in Systems, Cellular and Molecular Physiology
PGY 412G: Principles of Human Physiology (Renal Physiology)
- SPRING 2012: PGY/MD 818: Human Function (**Course Director**)
Recipient of the Silver Podium Award for Outstanding First-Year Medical School Course
PGY 412G: Principles of Human Physiology (Renal Physiology)
IBS 606: Integrated Biomedical Sciences (Renal/GI Physiology)
- FALL 2011: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
PGY 602: Readings in Systems, Cellular and Molecular Physiology
PGY 412G: Principles of Human Physiology (Renal Physiology)
- SPRING 2011: PGY/MD 818: Human Function (**Course Director**)
Recipient of the Silver Podium Award for Outstanding First-Year Medical School Course
PGY 412G: Principles of Human Physiology (Renal Physiology)
IBS 606: Integrated Biomedical Sciences (Renal/GI Physiology)
- FALL 2010: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
PGY 602: Readings in Systems, Cellular and Molecular Physiology
PGY 412G: Principles of Human Physiology (Renal Physiology)
- SPRING 2010: PGY/MD 818: Human Function (**Course Director**)
PGY 412G: Principles of Human Physiology (Renal Physiology)
IBS 606: Integrated Biomedical Sciences (Renal Physiology)
- FALL 2009: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
PGY 602: Readings in Systems, Cellular and Molecular Physiology
PGY 412G: Principles of Human Physiology (Renal Physiology)

SPRING 2009: PGY/MD 818: Human Function (**Course Director**)
 PGY 412G: Principles of Human Physiology (Renal Physiology)
 IBS 606: Integrated Biomedical Sciences (Renal Physiology)

FALL 2008: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
 PGY 602: Readings in Systems, Cellular and Molecular Physiology

SPRING 2008: PGY/MD 818: Human Function (**Course Director**)
 IBS 606: Integrated Biomedical Sciences (Renal Physiology)

FALL 2007: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
 PGY 602: Readings in Systems, Cellular and Molecular Physiology

SPRING 2007: PGY 818: Human Function (**Course Director**)
 IBS 606: Integrated Biomedical Sciences (Renal Physiology)

FALL 2006: PGY 502: Principles of Systems, Cellular, Molecular Physiology (**Course Director**)
 PGY 602: Readings in Systems, Cellular and Molecular Physiology

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 Molecular Physiology (Renal Physiology)
 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 Physiology)
 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**)

STUDENT/FELLOW TRAINING

POSTDOCTORAL FELLOWS

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

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

GRADUATE STUDENTS

MAJOR PROFESSOR

Julye M. Adams Ph.D. (Graduated 09/2005)

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

Status: Biomedical Sciences Teacher, Elkhorn Crossing School, Georgetown, KY

Mark Jorgensen, Ph.D. (Graduated, 06/2001)

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

Status: Associate, Abbott Laboratories, Nashville, TN

Lynn Z. Fuller, Ph.D. (Graduated 10/1997)

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 08/1996)

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

Status: Associate Professor of Anesthesiology, U.K. College of Medicine

Jeff D. Yingling, Ph.D. (Graduated 10/1994)

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 12/1992)

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, Kentucky

Sriram Subramaniam, Ph.D. (Graduated 11/1991)

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 09/1992)

Status: Nurse Practitioner, East Tennessee

Leslie D. Boucher, M.S., M.D. (Graduated 01/1985)

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

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

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; 10th International Symposium on Chromaffin Cell Biology, Bergen, Norway
- Paul G. Wagner: 1998: Gill Heart Institute Research Day Poster Competition, 2nd 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

ADVISORY COMMITTEE MEMBER; DEPARTMENT OF PHYSIOLOGY STUDENTS

Helen Saelinger, M.S. (Graduated 02/85)
Shirley Whitescarver, Ph.D. (Graduated 12/87)
Helen I'Anson, Ph.D. (Graduated 12/88)
John Lorenz, Ph.D. (Graduated 07/88)
Pamela Neiser, Ph.D. (Graduated 09/90)
Thomas Skinner, Ph.D. (Graduated 09/90)
Te-Sheng Wen, Ph.D. (Graduated 12/91)
Mallur Satyanarayan, M.S. (Graduated 01/93)
Warwick Arden, Ph.D. (Graduated 04/93)
Warren Nothnick, Ph.D. (Graduated 09/93)
Glenn McCombs, Ph.D. (Graduated 02/94)
April Forsberg, Ph.D. (Graduated 07/94)

Michael Byers, M.S. (Graduated 06/98)
Fuqiang Xu, Ph.D. (Graduated 07/98)
Yi Zhang, Ph.D. (Graduated 05/99)
Joshua Dziba M.S. (Graduated 01/00)
Gregory Graf, Ph.D. (Graduated 03/00)
Hong-Wei Tsai, Ph.D. (Graduated 08/01)
Jorge Quintero, Ph.D. (Graduated 10/01)
Eric Kilpatrick, Ph.D. (Graduated 11/01)
Erin Manning, Ph.D. (Graduated 07/02)
Michael Manning, Ph.D. (Graduated 08/02)
Jeff Yates, Ph.D. (Graduated 08/06)
Krasimira Rozenova Ph.D. (Graduated 10/08)

Kevin Krause, Ph.D. (Graduated 11/94)
Hai-Rong Niu, Ph.D. (Graduated 02/96)
Tracy Edgerton, Ph.D. (Graduated 04/98)

Thomas Stoss (Ph.D. candidate)
Amanda Prewitt (Ph.D. candidate)
John Penn, M.S. (Graduated 09/11)

ADVISORY COMMITTEE MEMBER; OTHER DEPARTMENTS

Jamie Young, Ph.D. (09/88, Physiology, Louisville)
Theresa Powell, Ph.D. (04/89, Biological Sciences)
Michelle Wright, Ph.D. (8/91, Immunology, Louisville)
Natarajan Muthusamy, Ph.D. (2/92, Immunology)
Mark Debenedette, Ph.D. (09/92, Immunology)
Kimberley Davis, Ph.D. (Grad 07/93, Immunology)
Carla Guthridge, Ph.D. (09/93, Immunology)
Vince Austin, Ph.D. (06/94, Immunology)
Brad Addison, Ph.D. (06/95, Pharmacology)
Sandra Hrometz, Ph.D. (07/98, Pharmacology)
Steve Phipps, Ph.D. (04/00, Pharmacy)

Greg Clodfelter, Ph.D. (06/00, Pharmacology)
Levent Dirikolu, Ph.D. (08/01, Animal Science)
Dan McCune, Ph.D. (09/01, Pharmacology)
Bruce Waldrop, Ph.D. (10/01, Pharmacy)
Kays Kaysi, M.S. (01/03, Immunology)
Brian Zhang Ph.D (01/05, Animal Sciences)
Weifei Zhu, Ph.D. (06/05, Nutritional Sciences)
Mingdong Liu, Ph.D. (10/05, Immunology)
Beob Kim, Ph.D. (09/07, Animal Sciences)
Amani Khalil, Ph.D. (11/09, Nursing)
Edwena Miles (Ph.D., Animal Sciences)

SUMMER STUDENTS

Aaron Wilson (1989; 1990; Scott County H.S.)
Renee Combs (1992; Berea College, KY)
Phillip Bannor (1993; Western Illinois University)
Alma Brooks (1994; Tates Creek Middle School)
Elora Alaudin (1995; Kentucky State University)

Jennifer Trumbore (2000; Asbury College)
Brandy Stagner (2000; Boyle County H.S.)
Matthew Blackburn (2002; Millard H.S.)
Gayle Joseph (2003; Kentucky State Univ)

SUMMER STUDENT HONORS

Jennifer Trumbore: 2000, Undergraduate Student Summer Research Fellowship,
American Heart Association, Ohio Valley Affiliate.

NATIONAL SERVICE

12/12: Chair, Minority Biomedical Research Support Panel, National Institute of
General Medical Sciences (NIGMS)
12/11: Chair, Minority Biomedical Research Support Panel, NIGMS
11/10: Chair, Minority Biomedical Research Support Panel, NIGMS
03/10: Chair, Minority Biomedical Research Support Panel, NIGMS
04/09 - 06/10: Member, American Heart Association (AHA) Region 1 / 2 Cardio-Renal Research
Review Committee
03/09: Vice-Chair, Minority Biomedical Research Support Panel,
06/07 - 05/08: Member, Professional Science Master's Program Development Committee
12/04 - 04/06: Chair, Study Section #4, 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: *Ad Hoc* Member, USDA, NRI Review Panel
02/99 - present: *Ad Hoc* Member, Minority Biomedical Research Support Panel, NIGMS
08/98: Member, 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 Autonomic and Autacoid Pharmacology
Biochemical Pharmacology Biochimica et Biophysica Acta
Clinical Nephrology Drug Metabolism and Disposition
Hypertension Journal of Bone and Mineral Research
Journal of Gerontology Journal of Laboratory and Clinical Medicine
Journal of Membrane Science J. Pharmacology / Experimental Therapeutics
Molecular Endocrinology

UNIVERSITY SERVICE

DEPARTMENT OF PHYSIOLOGY

07/06 - present: Member, Departmental Education Committee
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

MEDICAL CENTER

07/12 - present: Member, Executive Committee for Horizontal Integration
07/12 - present: Course Director, MD-825; Renal-Urinary System
07/12 - present: Course Director, MD-824; Endocrine and Reproductive Systems
09/11 - 07/12: Member, M1 Curriculum Revision Oversight Committee
09/11 - 07/12: Member, M2 Curriculum Revision Oversight Committee
09/11 - 07/12: Co-chair, Kidney/Acid-Base Curriculum Revision Committee
09/11 - 08/12: Chair, College of Medicine Faculty Council
09/11 - 08/12: Member, Biomedical Sciences Executive Committee
09/10 - 08/11: Vice-chair, College of Medicine Faculty Council
09/09 - 08/11: Member, College of Medicine Educational Program Committee
09/09 - present: Member, College of Medicine Faculty Council
08/08 - 07/10: Co-chair, Medical School Pre-Medical Education Sub-committee
08/08 - -07/10: Member, Curriculum Revision Committee
07/03 - present: College of Medicine Curriculum Committee
07/03 - 06/04: 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

UNIVERSITY

09/10 - 12/12: Chair, Graduate Council
09/10 - 11/12: Member, SACS Reaffirmation Compliance Certification Team
11/09 - 11/12: Member, Veterans Administration Institutional Animal Care and Use Committee
07/09 - present: Member; International Advisory Council
06/07 - 12/07: Member, Research IT Review Committee
09/05 - 03/07: Chair, Search Committee for Director, Division of Laboratory Animal Resources
08/03- 07/04: Member, Academic Organization and Structure Committee

08/03 - 07/06: Chair, Electronic Thesis and Dissertation Committee
 08/03 - 07/06: Member, University Senate
 08/03 - present: Member, Research Management Group
 09/02 – 08/04: Member, Selection Committee for Derbyshire Professorship
 09/02 - 08/03: Member, Graduate Council
 06/02 - present: Member, University Institutional Animal Care and Use Committee
 06/02 - 09/08: 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

SOCIETY MEMBERSHIPS

Society for Neuroscience	American Physiological Society
American Society of Nephrology	International Association of Medical Science Educators

OTHER SCHOLARLY ACTIVITY

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

BIBLIOGRAPHY

PEER-REVIEWED MANUSCRIPTS

53. Kim BG, Adams JM, *Jackson BA*, Lindemann MD., 2009. Effects of chromium (III) picolinate on cortisol and DHEAs secretion in H29R human adrenocortical cells. *Biol. Trace Elem. Res.* 133: 171-180.
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 Ca²⁺ 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 Ca²⁺ 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, McMahan 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, McMahan D, Jorgensen M, Rau S, Siskin J, **Jackson B**, 1997. Effect of dexamethasone on voltage-gated Ca²⁺ channels and cytosolic Ca²⁺ 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.
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B. ABSTRACTS

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