

CURRICULUM VITAE

Justin L. Grobe PhD

**Associate Professor
Department of Physiology
& Department of Biomedical Engineering;
Director, Comprehensive Rodent Metabolic Phenotyping Core;
Vice-Chair, Institutional Animal Care & Use Committee**

ORCID: 0000-0001-9737-0873

OFFICE ADDRESS:

Cardiovascular Research Center
8701 Watertown Plank Rd
Milwaukee, WI 53226
Phone: 414-955-4981
Email: jgrobe@mcw.edu

EDUCATION:

08/1997 - 05/2001 BS (Biology) + BA (Chemistry); Mentor: Christopher C. Barney, PhD, Hope College, Holland, MI
08/2001 - 05/2006 PhD (Pharmacodynamics); Mentor: Michael J. Katovich, PhD, University of Florida, Gainesville, FL

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

05/2006 - 09/2006 Postdoctoral Fellow (laboratory of Mohan K. Raizada, PhD), Department of Physiology & Functional Genomics, College of Medicine, University of Florida, Gainesville, FL
09/2006 - 06/2010 Postdoctoral Fellow (laboratory of Curt D. Sigmund, PhD), Department of Internal Medicine, Roy J. & Lucille A. Carver College of Medicine, University of Iowa, Iowa City, IA

FACULTY APPOINTMENTS:

07/2010 - 05/2012 Associate (Instructor equivalent), Department of Pharmacology, Carver College of Medicine, University of Iowa, Iowa City, IA
06/2012 - 06/2017 Assistant Professor (Tenure Track), Department of Pharmacology, Carver College of Medicine, University of Iowa, Iowa City, IA
07/2017 - 06/2019 Associate Professor with Tenure, Department of Pharmacology, Carver College of Medicine, University of Iowa, Iowa City, IA
07/2019 - Present Associate Professor with Tenure, Departments of Physiology & Biomedical Engineering, Medical College of Wisconsin, Milwaukee, WI

RESEARCH ADMINISTRATIVE APPOINTMENTS:

07/2019 - Present Director, Comprehensive Rodent Metabolic Phenotyping Core, Medical College of Wisconsin, Milwaukee, WI
08/2022 - Present Vice-Chair, Institutional Animal Care & Use Committee (IACUC), Medical College of Wisconsin, Milwaukee, WI

AWARDS AND HONORS:

2001 Departmental Service Award - Department of Biology, Hope College
2001 Frank Patterson Memorial Award - Department of Biology, Hope College
2005 Association for Chemoreception Sciences (AChES) Conference Travel Award - UF Center for Smell and Taste, University of Florida
2006 First Place, Oral Presentation (Senior Division), 19th Annual Research Showcase, University of Florida

College of Pharmacy

2007 Merck New Investigator Award, American Heart Association Council on Hypertension

2007 Clinical Science Young Investigator Award, sponsored by Portland Press, American Physiological Society Cardiovascular Section

2008 Poster Award, Gordon Research Conference: Angiotensin

2008 Research Recognition Award, American Physiological Society Neural Control and Autonomic Regulation Section

2008 Young Investigator Award, Society for Experimental Biology and Medicine

2008 New Investigator Travel Award, American Heart Association Council on Hypertension

2008 Caroline tum Suden / Frances A. Hellebrandt Professional Opportunity Award, American Physiological Society

2009 Carver College of Medicine Health Sciences Research Week Poster Presentation Award, Postdoctoral Fellow Division, University of Iowa

2011 New Investigator of the Month, International Society of Hypertension

2012 Elected to "Fellow of the American Heart Association" (FAHA), American Heart Association Council on Hypertension

2014 Young Scholar Award, American Society of Hypertension

2014 - 2015 Recognized as among top 10 reviewers for journal, Hypertension (journal)

2015 Young Investigator Award , American Physiological Society Water & Electrolyte Homeostasis Section

2015 Harry Goldblatt New Investigator Award, American Heart Association Council on Hypertension

2016 Office of the Vice President for Research & Economic Development Inventor Award, University of Iowa

2016 "Forty Under 40" Award, Cedar Rapids / Iowa City area Corridor Business Journal

2017 Awarded Tenure, University of Iowa

2017 Arthur C. Guyton Award for Excellence in Integrative Physiology, American Physiology Society

2017 Office of the Vice President for Research & Economic Development Inventor Award, University of Iowa

2018 - 2022 Established Investigator Award, American Heart Association

2018 Office of the Vice President for Research & Economic Development Inventor Award, University of Iowa

2018 Outstanding Reviewer Award, Experimental Biology and Medicine (journal)

2019 Awarded Tenure, Medical College of Wisconsin

2021 Elected to Fellow of the American Physiological Society (FAPS), American Physiological Society

2021 MCW Outstanding Medical Student Teacher for 2020-2021 (Physiology), Medical College of Wisconsin

2022 MCW Outstanding Graduate School Educators for 2021-2022 (Physiology), Medical College of Wisconsin

2022 Mid-Career Award for Research Excellence, American Heart Association Council on Hypertension

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1998 - 2001 Beta Beta Beta Undergraduate Biological Honor Society (Hope College)

1999 - Present American Heart Association (member 120721042; elected to Fellow (FAHA) in 2012)

1999 - Present American Physiological Society (member 00033392; elected to Fellow (FAPS) in 2021)

2000 - 2013 Sigma Xi

2005 - 2013 Society for Experimental Biology and Medicine

2011 - 2013 International Society of Hypertension

2013 - Present American Diabetes Association (member 08344175 / 0520608555)

2014 - 2018 American Society for Pharmacology and Experimental Therapeutics (member 49382)

2018 - Present The Obesity Society (member 25073)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorial Board

01/2012 - 12/2024 Hypertension

2015 - 2021 Physiological Genomics (Section Editor)

2018 - Present JAHA: Journal of the American Heart Association (frequent Guest Associate Editor)

2019 - 2021 Biology of Sex Differences

Ad-Hoc Reviewer

2007 - Present Hypertension
 2008 - Present American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology
 2008 - Present Physiological Genomics
 2009 - Present Obesity
 2009 - Present Circulation Research
 2009 - Present Biochemical Pharmacology
 2011 - Present American Journal of Physiology: Heart and Circulatory Physiology
 2011 - Present British Journal of Pharmacology
 2011 - Present Regulatory Peptides
 2011 - Present International Journal of Hypertension
 2011 - Present Cellular Physiology and Biochemistry
 2012 - Present PLOS ONE
 2012 - Present Journal of Cardiovascular Pharmacology and Therapeutics
 2012 - Present Clinical and Experimental Pharmacology and Physiology
 2012 - Present Journal of Applied Physiology
 2013 - Present Experimental Physiology
 2013 - Present Hypertension Research
 2013 - Present Cellular and Molecular Neurobiology
 2013 - Present Acta Physiologica
 2014 - Present Journal of Cardiovascular Pharmacology
 2014 - Present Endocrine
 2014 - Present Yonsei Medical Journal
 2014 - Present Journal of the American Heart Association (JAHA)
 2014 - Present Advances in Pharmacology
 2014 - Present BMC Medical Genetics
 2014 - Present Microcirculation
 2014 - Present Diabetes
 2015 - Present Neuropsychopharmacology
 2015 - Present Journal of Thermal Biology
 2016 - Present Scientific Reports
 2016 - Present American Journal of Physiology: Endocrinology & Metabolism
 2018 - Present Nutrition and Diabetes

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2000 - 2001 President, Alpha Eta Chapter, Beta Beta Beta Biological Honor Society, Hope College
 2008 - 2010 Member, Trainee Advocacy Committee, American Heart Association / Council on Hypertension
 2010 - 2013 Chair, Trainee Advocacy Committee, American Heart Association / Council on Hypertension
 2011 - 2012 Member, Early Career Task Force, American Heart Association / Council Operations Committee
 2013 - 2023 Member, Nominating Committee, American Heart Association / Council on Hypertension
 2013 Member, Hypertension Summer School Planning Committee, American Heart Association / Council on Hypertension
 2014 - 2017 Vice-Chair, Research Committee, American Heart Association / Midwest Affiliate
 2015 - 2016 Coordinator, Data Diuresis Session, American Physiological Society / Water & Electrolyte Homeostasis Section
 11/2018 Ad hoc reviewer, F10A-R (Fellowships) study section, NIH CSR
 2018 - 2023 Member, Membership & Communications Committee, American Heart Association / Council on Hypertension
 02/2019 Ad hoc reviewer, Hypertension & Microcirculation (HM) study section, NIH CSR
 04/2019 Ad hoc reviewer, Vascular & Hematology AREA (R15) study section, NIH CSR
 2019 - 2023 Member, HTN Fall Specialty Conference Planning Committee, American Heart Association / Council on Hypertension
 02/2020 Ad hoc reviewer, P01 Special Emphasis Panel, NIH CSR
 06/2020 Ad hoc reviewer, Hypertension & Microcirculation (HM) study section, NIH CSR
 2020 - 06/30/2022 Member, Council Operations Committee / Mid-Career Subcommittee, American Heart Association
 2020 - 2022 Member, Water & Electrolyte Homeostasis Section Awards Committee, American Physiological Society

02/2021 Ad hoc reviewer, P01 Special Emphasis Panel, NIH CSR
 06/2021 Ad hoc reviewer, Translational Research Institute for Space Health (TRISH) Biomedical Research
 Advances for Space Health (BRASH2101), National Aeronautics and Space Administration (NASA)
 10/2021 Ad hoc reviewer, P01 Special Emphasis Panel, NIH CSR
 01/2022 Ad hoc reviewer, P01 Special Emphasis Panel, NIH CSR
 06/2022 Ad hoc reviewer, POMD study section, NIH CSR
 11/2022 Ad hoc reviewer, Fellowship Clinical 1 (pre- and post-doctoral fellowship), American Heart
 Association

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	R01 HL134850 Interaction between leptin and angiotensin in the pathogenesis of obesity-hypertension
Source:	NIH / NHLBI
Role:	Principal Investigator
PI:	Grobe
Dates:	01/2017 - 12/2021
Direct Funds:	\$1,250,000 (total for all years; A1 resubmission of renewal application will be reviewed in Oct 2022)
Title:	18EIA33890055 Hypothalamic mechanisms of cardiometabolic and obstetric disease
Source:	American Heart Association
Role:	Principal Investigator
PI:	Grobe
Dates:	01/2018 - 12/2022
Direct Funds:	\$400,000 (total for all years)
Title:	P01 HL084207 Genetic and Signaling Mechanisms in the Central Regulation of Blood Pressure
Source:	NIH / NHLBI
Role:	Principal Investigator, Project 4
PI:	PI: Grobe / PD: CD Sigmund
Dates:	08/2018 - 07/2023
Direct Funds:	\$1,446,915 (total for all years)
Title:	MCW CTSI Obesity Ensemble
Source:	MCW Clinical & Translational Science Institute / National Institutes of Health (UL1TR001436)
Role:	Ensemble Member
PI:	Shaker
Dates:	2020 - Present
Direct Funds:	\$50,000 (initial)
Title:	MCW CTSI "Preconception To Toddler Study (PTTS)" Ensemble
Source:	MCW Clinical & Translational Science Institute / National Institutes of Health (UL1TR001436)
Role:	Ensemble Member

PI: Shaker
Dates: 2021 - Present
Direct Funds: \$35,000 (initial)

Title: R01 DK133121 Impact of Early Life Sodium Intake on Growth and Metabolism - Role of Hypothalamic Mechanisms

Source: NIH / NIDDK
Role: Multiple-PI
PI: Grobe + Segar (MPI)
Dates: 08/12/2022 - 05/31/2026
Direct Funds: \$1,948,108 (total for 4 years)

Prior

Peer Review

Title: NSF REU Fellowship, Hope College
Source: National Science Foundation
Role: Principal Investigator
PI: Grobe
Dates: 05/1998 - 08/1998
Direct Funds: \$2,500

Title: Undergraduate Summer Research Fellowship
Source: American Heart Association Midwest Affiliate
Role: Principal Investigator
PI: Grobe
Dates: 05/1999 - 08/1999
Direct Funds: \$2,500

Title: NSF REU Fellowship, University of Florida
Source: National Science Foundation
Role: Principal Investigator
PI: Grobe
Dates: 05/2000 - 08/2000
Direct Funds: \$2,500

Title: Alumni Fellowship
Source: University of Florida College of Pharmacy
Role: Principal Investigator
PI: Grobe
Dates: 08/2001 - 06/2003
Direct Funds: \$40,000 (total for all years)

Title: Pre-doctoral Research Fellowship
0315130B "Attenuation of Experimental Hypertension by Lentiviral Delivery of Tetracycline-Regulated Angiotensinogen Antisense"

Source: American Heart Association, Florida/Puerto Rico Affiliate
Role: Principal Investigator

PI: Grobe
Dates: 07/2003 - 06/2005
Direct Funds: \$38,000 (total for all years)

Title: Implications for Blood Pressure Control
in Pregnancy"
Source: American Heart Association,
Florida/Puerto Rico Affiliate
Role: Principal Investigator
PI: Grobe
Dates: 07/2005 - 06/2006
Direct Funds: \$19,000

Title: T32 HL007121 Cardiovascular
Interdisciplinary Research Fellowship
Source: NIH / NHLBI
Role: Principal Investigator
PI: Grobe
Dates: 08/2006 - 08/2007
Direct Funds: \$35,000

Title: Post-doctoral Fellowship in
Physiological Genomics
Source: American Physiology Society
Role: Principal Investigator
PI: Grobe
Dates: 08/2007 - 08/2009
Direct Funds: \$79,000 (total for all years)

Title: T32 DK007690 Training in Kidney
Disease, Hypertension, Cell Biology
Source: NIH / NIDDK
Role: Principal Investigator
PI: Grobe
Dates: 07/2009 - 06/2010
Direct Funds: \$42,000

Title: K99 HL098276 Metabolism, Fluid
Balance, and Hypertension
Source: NIH / NHLBI
Role: Principal Investigator
PI: Grobe
Dates: 06/2010 - 05/2012
Direct Funds: \$197,815 (total for all years)

Title: R00 HL098276 Metabolism, Fluid
Balance, and Hypertension
Source: NIH / NHLBI
Role: Principal Investigator
PI: Grobe
Dates: 06/2012 - 05/2015
Direct Funds: \$546,443 (total for all years)

Title: All in the head? Investigating the
Molecular Role of Vasopressin in
Preeclampsia
Source: University of Iowa Carver Collaborative

Role:	Pilot Grant Co-Principal Investigator (with MK Santillan)
PI:	Grobe + Santillan
Dates:	03/2013 - 02/2014
Direct Funds:	\$50,000
Title:	P01 HL084207 Genetic and Signaling Mechanisms in the Central Regulation of Blood Pressure
Source:	NIH / NHLBI
Role:	Co-I
PI:	Sigmund
Dates:	04/2013 - 03/2018
Direct Funds:	\$220,000 (total for all years)
Title:	1-14-BS-079 Required Interaction of Leptin with Angiotensin in Metabolic Control
Source:	American Diabetes Association
Role:	Principal Investigator
PI:	Grobe
Dates:	01/2014 - 12/2016
Direct Funds:	\$270,000 (total for all years)
Title:	a common mechanism for the development of obesity and inflammatory pain
Source:	University of Iowa Major Project Pilot Grant
Role:	Co-Principal Investigator (with DP Mohapatra)
PI:	Grobe + Mohapatra
Dates:	01/2014 - 01/2015
Direct Funds:	\$50,000
Title:	14IRG18710013 Vasopressin as an early-pregnancy initiator of preeclampsia
Source:	American Heart Association
Role:	Principal Investigator
PI:	Grobe
Dates:	01/2014 - 12/2015
Direct Funds:	\$150,000 (total for all years)
Title:	An Untapped Obesity Target?
Source:	Fraternal Order of Eagles' Diabetes Research Center Pilot Grant
Role:	Principal Investigator
PI:	Grobe
Dates:	09/2014 - 08/2016
Direct Funds:	\$100,000 (total for all years)
Title:	15SFRN23730000 Molecular Mechanisms of Vasopressin-Induced Preeclampsia
Source:	American Heart Association
Role:	Principal Investigator, Basic Science

	Project
PI:	PI: Grobe / PD: Sigmund
Dates:	04/2015 - 03/2019
Direct Funds:	\$960,000 (total for all years)
Title:	Placental G β q Signaling in Preeclampsia
Source:	UIHC Center for Hypertension Research
Role:	Co-Principal Investigator (with KN Gibson-Corley)
PI:	Grobe + Gibson-Corley
Dates:	07/2016 - 06/2017
Direct Funds:	\$40,000
Title:	Pilot Project 1
Source:	Carmentix / Esco Ventures
Role:	Co-Principal Investigator
PI:	Grobe + Santillan
Dates:	07/2017 - 12/2017
Direct Funds:	\$9,000
Title:	Pilot Project 2
Source:	Carmentix / Esco Ventures
Role:	Co-Principal Investigator
PI:	Grobe + Santillan
Dates:	01/2018 - 06/2018
Direct Funds:	\$1,500
Title:	Are Principal Cells the 'Principal Problem' for Preeclampsia?
Source:	Carver Trust Medical Research Initiative Grant
Role:	Principal Investigator
PI:	Grobe
Dates:	07/2018 - 06/2019
Direct Funds:	\$30,000
Title:	Relationship between resting metabolic rate, body weight, and gut microbiome in African Americans
Source:	Advancing a Healthier Wisconsin Research & Education Program
Role:	Co-I
PI:	Kidambi
Dates:	2020
Direct Funds:	\$250,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

Internal Medicine Research Day, University of Iowa, 2008
 Division of Nephrology Seminar, University of Iowa, 2011
 Department of Pharmacology Seminar, University of Iowa, 2011
 Department of Biochemistry Seminar, University of Iowa, 2012
 Molecular & Cellular Biology Interdisciplinary Program Seminar, University of Iowa, 2012
 Obesity Initiative, University of Iowa, 2013
 Department of Pharmacology Seminar, University of Iowa, 2013
 University of Iowa MSTP (MD/PhD program) summer seminar series, University of Iowa, 2013

40th Anniversary of the François M. Abboud Cardiovascular Research Center, University of Iowa, 2014
Biosciences Program Summer Undergraduate Seminar Series, University of Iowa, 2014
Department of Pharmacology Seminar, University of Iowa, 2014
Obesity Research & Education Initiative, University of Iowa, 2015
Department of Pharmacology Seminar, University of Iowa, 2015
IT Community Meeting, University of Iowa, 2015
Biosciences Program Summer Undergraduate Seminar Series, University of Iowa, 2016
Carl Gisolfi Memorial Lecture, University of Iowa, 2017
Toxicology/EHSRC/Superfund Seminar, University of Iowa, 2017
Obesity Research & Education Initiative, University of Iowa, 2018
Vasopressin/Copeptin and Preeclampsia, Cardiovascular Center Annual Retreat, Medical College of Wisconsin, 2019
Vasopressin, copeptin, and GPCR signaling in preeclampsia, Preeclampsia Working Group, Medical College of Wisconsin, 2019
Single-nuclear RNAseq in the arcuate nucleus of the hypothalamus deconvolutes the cellular and molecular basis of selective leptin resistance and obesity-associated hypertension, Department of Physiology, Medical College of Wisconsin, 2019
Regulator of G-protein Signaling-2 in Preeclampsia, WHRP Seminar Series, Medical College of Wisconsin, 2020
Cardiometabolic adaptation during obesity: Role of the local renin-angiotensin system within the arcuate nucleus of the hypothalamus, City-Wide Obesity and Metabolic Disease Grand Rounds, Milwaukee, WI, 2020
Cardiometabolic adaptation during obesity: Role of the local renin-angiotensin system within the arcuate nucleus of the hypothalamus, Department of Physiology "Friends of MCW Physiology" Seminar Series, Milwaukee, WI, 2021

Regional

Fraternal Order of Eagles' Missouri, Iowa, Nebraska, Kansas and North & South Dakotas (MINK) section annual conference, Omaha, NE, 2016
American Diabetes Association Iowa / Nebraska / South Dakota section Donor Dinner, Riverside, IA, 2016
Cardiometabolic adaptation during obesity: Role of the local renin-angiotensin system within the arcuate nucleus of the hypothalamus, Departments of Biomedical Sciences & Biological Sciences, Marquette University, 2021

National

Experimental Biology, San Diego, CA, 2008
American Heart Association Council for High Blood Pressure Research, Tucson, AZ, 2008
Gordon Research Conference: Angiotensin, Ventura, CA, 2008
Univ. of Florida, Dept of Physiology & Functional Genomics, Gainesville, FL, 2010
American Heart Association Council for High Blood Pressure Research, Orlando, FL, 2011
University of Kentucky, Graduate Center for Nutritional Sciences, Lexington, KY, 2011
Pennsylvania State University, Dept of Cellular & Molecular Phys, Hershey, PA, 2011
Hope College Department of Biology, Holland, MI, 2011
American Heart Association Council for High Blood Pressure Research, Washington, DC, 2012
Gordon Research Seminar: Angiotensin, Orlando, FL, 2012
American Physiological Society NCAR section conference: Autonomic Regulation of Cardiovascular Function in Health and Disease, Omaha, NE, 2012
American Heart Association Council for High Blood Pressure Research, Hypertension Summer School 2013, Columbia, SC, 2013
Experimental Biology, Boston, MA, 2013
Goldblatt Award Competition, American Heart Association Council for High Blood Pressure Research, New Orleans, LA, 2013
Young Scholar Award Lecture, American Society of Hypertension Annual Meeting, New York, NY, 2014
Univ of North Texas Health Sci Ctr, Dept Integrative Physiol & Anatomy, Fort Worth, TX, 2014
University of Wyoming, Laramie, WY, 2015
Goldblatt Award Lecture, American Heart Association Council for High Blood Pressure Research, Washington, DC, 2015

International Academy of Cardiovascular Sciences, Omaha, NE, 2015
Water & Electrolyte Homeostasis Section New Investigator Award, American Physiological Society, Boston, MA, 2015
FASEB Summer Research Conference: Neural Mechanisms in Cardiovascular Regulation: Novel Research and Disease Treatment Strategies, Saxtons River, VT, 2016
Medical College of Wisconsin, Department of Physiology, Milwaukee, WI, 2016
Medical College of Wisconsin, Department of Physiology, Milwaukee, WI, 2018
American Heart Association Council on Hypertension, New Orleans, LA, 2019
Cardiometabolic adaptation during obesity: Role of the local renin-angiotensin system within the arcuate nucleus of the hypothalamus, Center for Integrative Cardiovascular and Metabolic Disease, University of Florida, 2021
Angiotensin within the hypothalamic arcuate nucleus in cardiometabolic control during obesity, Neural & Behavioral Sciences, Penn State College of Medicine, 2021
Combining Direct + Indirect Calorimetry to Improve Quantification of Energy Expenditure, Division of Endocrinology Grand Rounds, Beth Israel Deaconess Medical Center / Harvard Medical School, 09/2022
Resting Metabolism: Control by the Brain, and Contributions of the Gut, Department of Physiology and Pharmacology Molecular Medicine (MOME) Seminar Series, University of Toledo, 2022
Angiotensin in the Arcuate: Unlocking Neural Mechanisms Integrating Cardiometabolic Control in Health & Disease, American Heart Association Council on Hypertension 2022 Scientific Sessions, San Diego, CA, 2022

International

Gordon Research Conference: Angiotensin, Lucca (Barga), Italy, 2014
High Blood Pressure Research Council of Australia / Australian Atherosclerosis Society / the Australian Vascular Biology, Hobart (Tazmania), Australia, 2016
Angiotensin action within the arcuate nucleus of the hypothalamus in cardiometabolic control, Vasoactive Peptides, Brazil, 10/16/2021

COMMITTEE SERVICE:

Medical College of Wisconsin

2019 - Present Member, Institutional Animal Care & Use Committee (Vice-Chair, 2022-present), Medical College of Wisconsin
2019 - Present Member, MSTP Admissions Committee, Medical College of Wisconsin

MEDICAL COLLEGE TEACHING ACTIVITIES:

Medical Student Education

2020 - Present Lecturer, Medical Physiology (The Microcirculation and the Lymphatic System: Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow)
2021 - Present Lecturer, Medical Physiology (Overview of Circulation and Hemodynamics, part 1)
2021 - Present Lecturer, Medical Physiology (Overview of Circulation and Hemodynamics, part 2)

Graduate Student Education

2020 - Present Course Director and Primary Instructor - "PHYS 08220: Biostatistics for Health Sciences"

EXTRAMURAL TEACHING:

Continuing Medical Education

2012 University of Iowa, Obesity 2012: Building a Dream Team
2014 University of Iowa, Maternal-Fetal Medicine Fellows Conference Lecture "Altered pharmacology in pregnancy"
2015 University of Iowa, Maternal-Fetal Medicine Fellows Conference Lecture "Fluid and electrolyte balance in pregnancy"

Graduate Student Education

2011 - 2017 University of Iowa, Lecturer, PCOL:5137 (071:137) - "Neurotransmitters"
2011 - 2013 University of Iowa, Facilitator, PCOL:7270 (650:270) - "Principles of Scholarly Integrity"
2012 University of Iowa, Discussion Leader, "Teaching Your Research"
2012 University of Iowa, Primary Instructor, BISC:5265 (156:265) - "Biosciences Critical Thinking & Communication"
2015 - 2018 University of Iowa, Lecturer, TBM:5001 - "Introduction to Translational Biomedicine"
2015 - 2018 University of Iowa, Course Founder & Director, and Primary Instructor, PCOL:5204 - "Basic Biostatistics & Experimental Design"
2015 University of Iowa, Lecturer, PCOL:8240 - "Basic Pharmacology for Dental Students"
2015 University of Iowa, Course Director, PCOL:6030 - "Topics in Pharmacology"
2016 - 2018 University of Iowa, Lecturer, PATH:5260 (069:260) - "Translational Histopathology"
2019 University of Iowa, Lecturer, MMED:6260 - "Methods for Molecular and Translational Medicine"

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

High School Students

Olivia Eckes, Medical College of Wisconsin, 2020, SUPREMES program

Medical Students

Micah P. Wildes, Medical College of Wisconsin, 11/2021 - Present Pathway Advisor

Graduate Students

PhD Students Advised

McKenzie L. Ritter, Medical College of Wisconsin, 2019 - Present (Physiology), 2021 MCW Physiology T32 Fellowship (HL007852); 2021-2023 AHA predoctoral fellowship (903246)
Megan (Vande Hei) Opichka, Medical College of Wisconsin, 2019 - Present (Physiology), 2021 MCW Physiology T32 Fellowship (HL007852); 2021-2023 American Heart Association Predoctoral Fellowship (826132); 2021 MCW CVC Retreat 2nd place presentation award
Alisha A. Ziegler, Medical College of Wisconsin, 2021 - Present (Physiology), Thesis co-mentor with Jeffrey L. Segar, MD

PhD Committees

Santiago Alvarez (O'Meara lab, Physiology), Medical College of Wisconsin, 2021 - Present

Postdoctoral Students

Vanessa A. De Oliveira, PhD, Medical College of Wisconsin, 02/01/2019 - 05/03/2021, (Now faculty at UNIFENAS Universidade, Divinopolis, Brazil)
Chetan N. Patil, PhD, Medical College of Wisconsin, 03/01/2019 - 06/30/2021, (Now a Research Scientist at MCW / Pediatric Nephrology)
Kirthikaa Balapattabi, PhD, Medical College of Wisconsin, 08/01/2019 - Present, 2019 APS NCARnation finalist; 2021 NIH Outstanding Scholars in Neuroscience Award (OSNAP); 2021-2022 American Physiological Society Postdoctoral Fellowship; 2021 NCW Office of Postdoctoral Education Postdoc Professional Developmental Award; 2021-2023 AHA Postdoctoral Fellowship (898067)

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

High School Students

Whitney Li, University of Iowa, 2014, 2014 Secondary Student Training Program (SSTP) fellowship
Jonathan Ni, University of Iowa, 2014 - 2015
Emily G. Suen, University of Iowa, 2015, 2015 Secondary Student Training Program (SSTP) fellowship
Sriram Sugumaran, University of Iowa, 2015
Mengda (Amanda) Liu, University of Iowa, 2016, 2016 Secondary Student Training Program (SSTP) fellowship
Lily Jiaqi Cao, University of Iowa, 2017, 2017 Secondary Student Training Program (SSTP) fellowship
Andrew Usachev, University of Iowa, 2017

Undergraduate Students

Beth A. Buehrer, University of Iowa, 2010 - 2012, 2010-2011 Iowa Center for Research by Undergraduates (ICRU) academic year fellowship; 2011 Research at the Capitol Day 2011 (UI representative); 2011 AHA summer research fellowship; 2011-2012 Iowa Center for Research by Undergraduates (ICRU) academic year fellowship

Benjamin J. Weidemann, University of Iowa, 2011 - 2014, 2012 AHA summer fellowship; 2012-2013 Iowa Center for Research by Undergraduates (ICRU) academic year fellowship; 2013 Iowa Center for Research by Undergraduates (ICRU) travel award; 2013 American Physiological Society Undergraduate Research Excellence Fellowship award (UGREF); 2013 University of Iowa "SUMR" pre-MD/PhD program summer research fellowship; 2013 University of Iowa Department of Chemistry Undergraduate Award; 2013-2014 Iowa Center for Research by Undergraduates (ICRU) academic year fellowship; 2014 Research at the Capitol Day UI representative; 2014 American Physiological Society Undergraduate David S. Bruce award; 2014 University of Iowa Department of Pharmacology Amanda Hope Skolnick Memorial Award; 2014 University of Iowa Department of Chemistry Merck Index Award

Susan Voong, University of Iowa, 2012 - 2014, American Physiological Society Undergraduate Summer Research Fellowship award (UGSRF)

Aaron F. Sigmund, University of Iowa, 2012

Kevin V. Tobin, University of Iowa, 2014 - 2016

Danny W. Lingonegoro, University of Iowa, 2014 - 2017, 2015 AHA summer fellowship; 2015-2016 Iowa Center for Research by Undergraduate academic year fellowship; 2016 American Diabetes Association Minority Undergraduate Internship #1-16-MUI-06; 2016 Research at the Capitol Day representative; 2016 University of Iowa Center for Research by Undergraduate Excellence in Undergraduate Research Award; 2016 American Physiological Society Undergraduate Research Excellence Fellowship award (UGREF)

Fabiola I. Morales, University of Iowa, 2014, 2014 University of Iowa Summer Research Opportunities Program (SROP) fellowship

Erica R. Cole, University of Iowa, 2014 - 2016, 2015 Iowa Center for Research by Undergraduates (ICRU) travel award; 2015-2016 Iowa Center for Research by Undergraduates (ICRU) academic year fellowship

Marquis R. Smith, University of Iowa, 2016, 2016 Summer Research Opportunities Program (SROP) fellowship

Shao Yang Zhang, University of Iowa, 2016 - 2019, 2017 American Physiological Society Undergraduate Summer Research Fellowship (UGSRF); 2017-2018 University of Iowa Academic Year Iowa Center for Research by Undergraduates (ICRU) Research Fellowship; 2018 Experimental Biology Barbara A. Horowitz & John M. Horowitz Undergraduate Research Award; 2018 American Physiological Society Undergraduate Research Excellence Fellowship (UGREF); 2018-2019 University of Iowa Academic Year Iowa Center for Research by Undergraduates (ICRU) Research Fellowship; 2019 APS Barbara A. and John M. Horwitz Undergraduate Abstract Award at EB 2019

Alyssa T. Ray, University of Iowa, 2016, 2016 University of Iowa Center for Research by Undergraduate (ICRU) summer fellowship

Jairui Xue, University of Iowa, 2016 - 2018

Phillip Witcher, University of Iowa, 2016, 2016 University of Iowa "SUMR" pre-MD/PhD program summer fellowship

Casee Meincke, University of Iowa, 2017, 2017 University of Iowa Center for Research by Undergraduates (ICRU) summer fellowship

Kevin Chen, University of Iowa, 2018, 2018 American Physiological Society Summer Undergraduate Research Fellowship (UGSRF)

Caitlyn E. Owens, University of Iowa, 2018 - 2019

Medical Students

Scott G. Westphal, University of Iowa, 2010

Rick B. Siel, Jr., University of Iowa, 2011, 2011 Medical Student Research Program summer fellowship; 2011 "Edward Heath Award" for outstanding Medical Student research

Matthew D. Folchert, University of Iowa, 2012 - 2016, Research Distinction Track (RDT); 2012 Medical Student Research Program summer fellowship

James Y. Min, University of Iowa, 2013 - 2016, Research Distinction Track (RDT); 2013 Medical Student Research Program 2013 summer fellowship

Ruth A. Riedl, University of Iowa, 2015 - 2019, Medical Student Research Distinction Track (RDT); 2015 University of Iowa "SUMR" pre-MD/PhD program summer fellowship; 2016 Medical Student Research Program summer fellowship; 2016 Outstanding Presentation in Pharmacological Research Award; 2017 Medical Student Research Program summer fellowship; 2017 Outstanding Presentation in Pharmacological Research Award; Research Distinction Track

Kendra L. Frey, University of Iowa, 2017 - 2019, 2017 Medical Student Research Program summer fellowship; Research Distinction Track

John (Jackson) W. Walsh, University of Iowa, 2018 - 2019, 2018 Medical Student Research Program summer fellowship; Research Distinction Track

Graduate Students

PhD Committees

Aaron Mickle, University of Iowa, 2012
Kyle Flippo, University of Iowa, 2012
Jacqueline Reilly, University of Iowa, 2013
Balyssa Bell, University of Iowa, 2014
Rachel Minerath, University of Iowa, 2015
Magdalene Ameka, University of Iowa, 2015
Yujia (Jennie) Liu, University of Iowa, 2016
Lucas Bon Durant, University of Iowa, 2016
Samantha N. Atkinson, University of Iowa, 2016
Maria F. Noterman, University of Iowa, 2016
Alexander (Sasha) Tereshchenko, University of Iowa, 2016
Dylan Todd, University of Iowa, 2016
Rebecca K. Autenried, University of Iowa, 2016
Gail I. Harmata, University of Iowa, 2017
Serena (Banu) Gümü?o?lu, University of Iowa, 2017
Frida A. Teran, University of Iowa, 2017
Rachel Schroeder, University of Iowa, 2018
Thomas Pak, University of Iowa, 2018
Grant Walters, University of Iowa, 2018
Mackenzie M. Spicer, University of Iowa, 2019
Aaron A. Jones (Arble lab, Biological Sciences), Marquette University, 2021 - Present

PhD Students Advised

Nicole K. Littlejohn, University of Iowa, Pharmacology, 2012 - 2015 Tissue-specific Roles for the Renin-Angiotensin System in Cardiovascular and Metabolic Regulation, 2013 AHA Council on Hypertension New Investigator Travel Award; 2014-2015 AHA Predoctoral Fellowship #14PRE18330015; 2016 Gordon Research Conference on Angiotensin invited speaker

Jeremy A. Sandgren, University of Iowa, Pharmacology / Medical Scientist Training Program, 2013 - 2019 Vasopressin in Preeclampsia, Medical Scientist Training Program (MSTP) MD/PhD; 2014-2015 Pharmacological Sciences Predoctoral Fellowship T32 GM067795; 2015 Experimental Biology WEH Data Diuresis invited speaker; 2016-2018 AHA Predoctoral Fellowship #16PRE30980043; 2016-2017 University of Iowa Department of Pharmacology Ranbir K. Bhatnagar Scholar Award; 2017 Experimental Biology Water & Electrolyte Homeostasis Section Graduate Student Oral Competition (1st Place)

Kristin E. Claflin (Yin), University of Iowa, Pharmacology, 2013 - 2016 The Brain Renin-Angiotensin System in Metabolic and Cardiovascular Regulation, 2014-2016 AHA Predoctoral Fellowship #14PRE20380401; 2016 Gordon Research Conference on Angiotensin invited speaker

Katherine J. Perschbacher, University of Iowa, Molecular & Cellular Biology, 2015 - 2018 Reduced Placental Expression of Regulator of G Protein Signaling-2 (RGS2) in Preeclampsia: Association, Consequence, and Cause, Molecular & Cellular Biology (2015-2018). 2017 University of Iowa Graduate College Post-comprehensive Research Fellowship; 2017 Molecular & Cellular Biology Graduate Program travel award; 2017-2019 AHA Predoctoral Fellowship #17PRE33660633; 2017-2018 University of Iowa Department of Pharmacology Ranbir K. Bhatnagar Scholar Award; 2017 Finalist / Honorable Mention, University of Iowa Graduate College "3 minute Thesis" Oral Presentation Competition; 2018 Experimental Biology Water & Electrolyte Homeostasis Section Data Diuresis invited speaker

Sarah A. Sapouckey, University of Iowa, Molecular & Cellular Biology, 2016 - 2019 The Renin-Angiotensin System in Metabolism and Development, 2017 Molecular & Cellular Biology Graduate Program travel award; 2018 Gordon Research Conference on Angiotensin invited speaker; 2018-2020 AHA Predoctoral Fellowship #18PRE33960377

MS Committees

Ko-Ting Lu, University of Iowa, 2014

Hannah Van Beek, University of Iowa, 2015

Postdoctoral Students

Guorui Deng, PhD, University of Iowa, 01/01/2017 - 06/30/2019, 2017-2019 AHA Strategically Focused Research Network H3 Fellow; 2018 Gordon Research Conference on Angiotensin outstanding poster presentation award; 2018 FOEDRC Research Day outstanding poster presentation award; April 2019 - Mar 2021 American Heart Association Postdoctoral Fellowship (19POST34380239); 2019 Trainee Research Excellence Award sponsored by Data Sciences International (DSI) from the American Physiological Society Physiological 'Omics research group (Now postdoc at University of Iowa)

Clinical/Research Fellows

Colin M.L. Burnett, MD, MS, University of Iowa, 05/01/2012 - Present, Currently a Fellow in Cardiology PSTP Residency Program / formerly in Medical School Research Distinction Tract. Awards include: 2012 Medical Student Research Program summer fellowship; 2012 Outstanding Presentation in Pharmacological Research Award; 2013 Medical Student Research Program summer fellowship; 2013 Outstanding Presentation in Pharmacological Research Award (Now in cardiology fellowship at UIHC)

Lisa L. Morselli, MD, PhD, University of Iowa, 07/01/2017 - 06/30/2019, Endocrinology Fellow. 2017-2019 University of Iowa Multidisciplinary Lung Research Career Development Program Fellowship # T32 HL007638 (Now faculty at MCW / Endocrinology)

COMMUNITY SERVICE ACTIVITIES:

1997 - 1998 Microbiology teaching laboratory preparation, Hope College Department of Biology, Holland, MI

1998 - 2002 Webmaster, Hope College Department of Biology, Holland, MI

2001 - 2002 Department Representative, University of Florida Graduate Student Council, Gainesville, FL

2001 - 2004 Website design team, University of Florida Department of Pharmacodynamics, Gainesville, FL

2005 - 2006 Congregational Council (Secretary, 2006), University Lutheran Church, Gainesville, FL

2015 University of Iowa / Fraternal Order of Eagles' Diabetes Research Center representative to, National FOE Convention, Milwaukee, WI

2015 Community science outreach, Walcott, IA Lion's Club

2016 Represented Diabetes Research Center, and presented ongoing research to, Missouri / Iowa / Nebraska / Kansas / Dakotas chapter of the Fraternal Order of Eagles' (FOE MINK), Omaha, NE

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Burnatowska-Hledin M, Zeneberg A, roulo A, **Grobe JL**, Zhao P, Lelkes PI, Clare P, Barney C. Expression of VACM-1 protein in cultured rat adrenal endothelial cells is linked to the cell cycle, Endothelium. 2001;8(1):49-63. PMID:11409851.
2. Barney CC, Kurylo DM, **Grobe JL**. Thermal dehydration-induced thirst in lithium-treated rats, Pharmacol Biochem Behav. 2003 May;75(2):341-347. PMID:12873625.
3. **Grobe JL**, Katovich M, Rowland N. Role of angiotensin II in the subfornical organ in the pharmacological actions of ethanol, Alcohol and Alcoholism. 2004 September;39(5):410-417. PMID:15289207.
4. Huentelman MJ, **Grobe JL**, Vazquez J, Stewart JM, Mecca AP, Katovich MJ, Ferrario CM, Raizada MK. Protection from angiotensin II-induced cardiac hypertrophy and fibrosis by systemic lentiviral delivery of ACE2 in rats, Exp Physiol. 2005 September;90(5):783-790. PMID:16049057.
5. **Grobe JL**, Katovich MJ. Alterations in aortic vascular reactivity to angiotensin 1-7 in 17-beta-estradiol-treated female SD rats, Regul Pept. 2006 January 15;133(1-3):62-67. PMID:16219374.

6. **Grobe JL**, Mecca AP, Mao H, Katovich MJ. Chronic angiotensin-(1-7) prevents cardiac fibrosis in DOCA-salt model of hypertension, *Am J Physiol Heart Circ Physiol*. 2006 June;290(6):H2417-H2423. PMID:16415071.
7. Li H, Gao Y, **Grobe JL**, Raizada MK, Katovich MJ, Summers C. Potentiation of the antihypertensive action of losartan by peripheral overexpression of the ANG II type 2 receptor, *Am J Physiol Heart Circ Physiol*. 2007 February;299(2):H727-H735. PMID:17085538.
8. **Grobe JL**, Mecca AP, Lingis M, Shenoy V, Bolton TA, Machado JM, Speth RC, Raizada MK, Katovich MJ. Prevention of angiotensin II-induced cardiac remodeling by angiotensin-(1-7), *Am J Physiol Heart Circ Physiol*. 2007 February;292(2):H736-H742. PMID:17098828.
9. **Grobe JL**, Der Sarkissian S, Stewart JM, Meszaros JG, Raizada MK, Katovich MJ. ACE2 overexpression inhibits hypoxia-induced collagen production by cardiac fibroblasts, *Clin Sci (Lond)*. 2007 October;113(8):357-364. PMID:17600530.
10. Der Sarkissian S, **Grobe JL**, Yuan L, Narielwala DR, Walter GA, Katovich MJ, Raizada MK. Cardiac overexpression of angiotensin converting enzyme 2 protects the heart from ischemia-induced pathophysiology, *Hypertension*. 2008 March;51(3):712-718. PMID:18250366. PMCID: PMC Journal - In Process.
11. **Grobe JL**, Xu D, Sigmund CD. An intracellular renin-angiotensin system in neurons: fact, hypothesis, or fantasy, *Physiology (Bethesda)*. 2008 August;23:187-193. PMID:18697992. PMCID: 2538674.
12. Shenov V, **Grobe JL**, Qi Y, Ferreira AJ, Fraga-Silva RA, Collamat G, Bruce E, Katovich MJ. 17beta-Estradiol modulates local cardiac renin-angiotensin system to prevent cardiac remodeling in the DOCA-salt model of hypertension in rats, *Peptides*. 2009 December;30(12):2309-2315. PMID:19747516. PMCID: PMC Journal - In Process.
13. Xu D, Borges GR, **Grobe JL**, Pelham CJ, Yang B, Sigmund CD. Preservation of intracellular renin expression is insufficient to compensate for genetic loss of secreted renin, *Hypertension*. 2009 December;54(6):1240-1247. PMID:19822797. PMCID: 2783841. (Editorial Commentary Precedes Paper; 54(6):1216-1217, 2009)
14. **Grobe JL**, Grobe CL, Beltz TG, Westphal SG, Morgan DA, Xu D, de Lange WJ, Li H, Sakai K, Thedens DR, Cassis LA, Rahmouni K, Mark AL, Johnson AK, Sigmund CD. The brain Renin-angiotensin system controls divergent efferent mechanisms to regulate fluid and energy balance, *Cell Metabolism*. 2010 November 3;12(5):431-442. PMID:21035755. PMCID: 2994017.
15. **Grobe JL**, Dickson ME, Park S, Davis DR, Born EJ, Sigmund CD. Cardiovascular consequences of genetic variation at -6/235 in human angiotensinogen using "humanized" gene-targeted mice, *Hypertension*. 2010 November;56(5):981-987. PMID:20823378. PMCID: 2959143.
16. Xu D, Borges GR, Davis DR, Agassandian K, Sequeira Lopez ML, Gomez RA, Cassell MD, **Grobe JL**, Sigmund CD. Neuron- or glial-specific ablation of secreted renin does not affect renal renin, baseline arterial pressure, or metabolism, *Physiol Genomics*. 2011 March 29;43(6):286-294. PMID:21189370. PMCID: 3068515.
17. **Grobe JL**, Buehrer BA, Hilzendeger AM, Liu X, Davis DR, Xu D, Sigmund CD. Angiotensinergic signaling in the brain mediates metabolic effects of deoxycorticosterone (DOCA)-salt in C57 mice, *Hypertension*. 2011 March;57[Part 2](3):600-607. PMID:21263123. PMCID: 3144490.
18. Li H, Weatherford ET, Davis DR, Keen HL, **Grobe JL**, Daugherty A, Cassis LA, Allen AM, Sigmund CD. Renal proximal tubule angiotensin AT1A receptors regulate blood pressure, *Am J Physiol Regul Integr Comp Physiol*. 2011 October;301(4):R1067-R1077. PMID:21753145. PMCID: 3197336.
19. Hilzendeger AM, Morgan DA, Brooks L, Dellsperger D, Liu X, **Grobe JL**, Rahmouni K, Sigmund CD, Mark AL. A brain leptin-renin angiotensin system interaction in the regulation of sympathetic nerve activity, *Am J Physiol Heart Circ Physiol*. 2012 July 15;303(2):H197-H206. PMID:22610169. PMCID: 3404702.
20. Pelham CJ, Ketsawatsomkron P, Groh S, **Grobe JL**, de Lange WJ, Ibeawuchi S-RC, Keen HL, Weatherford ET, Faraci FF, Sigmund CD. Cullin-3 Regulates Vascular Smooth Muscle Function and Arterial Blood Pressure via PPAR γ and RhoA/Rho-Kinase, *Cell Metab*. 2012 October 3;16(4):462-472. PMID:23040068. PMCID: 3474846.
21. Ketsawatsomkron P, Lorca RA, Keen HL, Weatherford ET, Liu X, Pelham Cj, **Grobe JL**, Faraci FM, England SK, Sigmund CD. PPAR γ regulates resistance vessel tone through a mechanism involving RGS5-mediated control of protein kinase C and BKCa channel activity, *Circ Res*. 2012 November 9;111(11):1446-1458. PMID:22962432. PMCID: 3494760.
22. **Grobe JL**, Rahmouni K, Liu X, Sigmund CD. Metabolic rate regulation by the renin-angiotensin system: brain vs. body, *Pflugers Arch - European J of Physiology*. 2013 January;465(1):167-175.

- PMID:22491893. PMCID: 3569511.
23. Hilzendeger AM, Cassell MD, Davis DR, Stauss HM, Mark AL, **Grobe JL**, Sigmund CD. Angiotensin Type 1a Receptors in the Subfornical Organ Are Required for Deoxycorticosterone Acetate-Salt Hypertension, *Hypertension*. 2013 March 6;61(3):716-722. PMID:23266541. PMCID: 3573251.
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 26. Li W, Peng H, Mehaffey Ep, Kimball CD, **Grobe JL**, van Gool JM, Sullivan MN, Earley S, Danser AH, Ichihara A, Feng Y. Neuron-Specific (Pro)renin Receptor Knockout Prevents the Development of Salt-Sensitive Hypertension, *Hypertension*. 2013;63(2):316-323. PMID:24246383. PMCID: 3947277.
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 32. Ye Y, Sun Z, Guo A, Song LS, **Grobe JL**, Chen S. Ablation of the GNB3 gene in mice does not affect body weight, metabolism or blood pressure, but causes bradycardia., *Cell Signal*. 2014 November;26(11):2514-2520. PMID:25093805. PMCID: 4160384.
 33. Burnett CM, **Grobe JL**. Dietary effects on resting metabolic rate in C57BL/6 mice are differentially detected by indirect (O₂/CO₂ respirometry) and direct calorimetry, *Molecular Metabolism*. 2014;3:460-464. PMID:24944905. PMCID: 4060218.
 34. Fink BD, Herlein JA, Guo DF, Kulkarni C, Weidemann BJ, Yu L, **Grobe JL**, Rahmouni K, Kerns RJ, Sigmund CD. A mitochondrial-targeted coenzyme q analog prevents weight gain and ameliorates hepatic dysfunction in high-fat-fed mice, *J Pharmacol Exp Ther*. 2014 December;351(3):699-708. PMID:25301169. PMCID: 4244581.
 35. Santillan MK, Pelham CJ, Ketsawatsomkron P, Santillan DA, Davis DR, Devor EJ, Gibson-Corley KN, Scroggins SM, **Grobe JL**, Yang B, Hunter SK, Sigmund CD. Pregnant mice lacking indoleamine 2,3-dioxygenase exhibit preeclampsia phenotypes., *Physiological reports*. 2015 January 19;3(1):e12257. PMID:25602015. PMCID: 4387753.
 36. Jo F, Jo H, Hilzendeger AM, Thompson AP, Cassell MD, Rutkowski DT, Davisson RL, **Grobe JL**, Sigmund CD. Brain endoplasmic reticulum stress mechanistically distinguishes the saline-intake and hypertensive response to deoxycorticosterone acetate-salt., *Hypertension (Dallas, Tex. : 1979)*. 2015 June 1;65(6):1341-8. PMID:25895586. PMCID: 4433403.
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 39. Barney CC, Schanhals EM, **Grobe JL**, Andresen BT, Traver M. Heat acclimation and thirst in rats,

- Physiological reports. 2015 December 1;3(12):e12642. PMID:26702076. PMCID: 4760436.
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 55. Saito K, Davis KC, Morgan DA, Toth BA, Jiang J, Singh U, Berglund ED, **Grobe JL**, Rahmouni K, Cui H. Celastrol Reduces Obesity in MC4R Deficiency and Stimulates Sympathetic Nerve Activity Affecting Metabolic and Cardiovascular Functions. *Diabetes*. 2019 Jun;68(6):1210-1220. PMID: 30894367. PMCID: PMC6610022.
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 58. Perschbacher KJ, Deng G, Sandgren JA, Walsh JW, Witcher PC, Sapouckey SA, Owens CE, Zhang SY, Scroggins SM, Pearson NA, Devor EJ, Sebag JA, Pierce GL, Fisher RA, Kwitek AE, Santillan DA, Gibson-Corley KN, Sigmund CD, Santillan MK, **Grobe JL**. Reduced mRNA Expression of RGS2 (Regulator of G Protein Signaling-2) in the Placenta Is Associated With Human Preeclampsia and Sufficient to Cause Features of the Disorder in Mice. *Hypertension*. 2020 02;75(2):569-579. PMCID: PMC7027931
 59. Segar JL, Grobe CC, **Grobe JL**. Fetal storage of osmotically inactive sodium. *Am J Physiol Regul Integr Comp Physiol*. 2020 03 01;318(3):R512-R514. PMCID: PMC7099460
 60. Sapouckey SA, Morselli LL, Deng G, Patil CN, Balapattabi K, Oliveira V, Claflin KE, Gomez J, Pearson NA, Potthoff MJ, Gibson-Corley KN, Sigmund CD, **Grobe JL**. Exploration of cardiometabolic and developmental significance of angiotensinogen expression by cells expressing the leptin receptor or agouti-related peptide. *Am J Physiol Regul Integr Comp Physiol*. 2020 05 01;318(5):R855-R869. PMCID: PMC7272763
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