

CURRICULUM VITAE

Alison J. Kriegel, Ph.D.
Associate Professor
Departments of Physiology and Pediatrics

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CITIZENSHIP: U.S.A.

EDUCATION:

09/1996 – 05/2001 B.S., Biological Sciences, University of Wisconsin-Milwaukee, Milwaukee, WI
08/2002 – 05/2004 Graduate studies in exercise physiology, Marquette University, Milwaukee, WI Trained with Bob Fitts, PhD in skeletal muscle biology
08/2004 – 09/2008 Ph.D., Biomedical Sciences, Medical College of Wisconsin (MCW), Milwaukee, WI Trained with Andrew Greene, PhD in cardiovascular physiology

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

08/2009 - 6/2012 Postdoctoral Fellow, Department of Physiology, MCW
Trained with Mingyu Liang, PhD, MB in molecular regulation of renal pathology
08/2013 – 05/2015 Clinical Research Scholar's Program, Clinical and Translational Sciences Institute CTSI, MCW
02/2020 – present Women's Leadership Pilot Program, Center for the Advancement of Women in Science and Medicine (AWSM), MCW
09/2021 – 05/2022 Research and Community Scholars Program, Cancer Center, MCW
10/2022– present UWM TechEd Frontiers Data Analytics & Visualization Course

FACULTY APPOINTMENTS:

01/2007 – 7/2008 Adjunct Faculty, Biology Program, Carroll University, Waukesha, WI
01/2009 – 5/2009 Instructor, Anatomy and Physiology, Natural Sciences Department, Milwaukee Area Technical College, Milwaukee, WI
07/2012 – 06/2017 Assistant Professor, Department of Physiology, Medical College of Wisconsin
03/2017 – Present Secondary Appointment, School of Pharmacy, Medical College of Wisconsin
07/2017 – Present Associate Professor, Department of Physiology, Medical College of Wisconsin,
07/2020 – Present Secondary Appointment, Department of Pediatrics, Medical College of Wisconsin
07/2020 – Nephrology Research Leader, Department of Pediatrics, Children's Research Institute, Medical College of Wisconsin

INDUSTRY EXPERIENCE:

1/2011 – 4/2011 Consultant, Cardiac Research, PhysioGenix, Milwaukee, WI 53226

CENTER AFFILIATIONS:

Cardiovascular Center (MCW)- Hypertension and Cardiac Biology and Heart Failure Programs
Center of Systems Molecular Medicine (MCW)
Cancer Center (MCW)
Clinical & Translational Science Institute
Children's Research Institute (Children's Hospital Wisconsin/MCW)

AWARDS AND HONORS:

10/2011 Edward J. Lennon, M.D. Outstanding Woman Postdoctoral Researcher Award
04/2013 Outstanding Paper by a Junior Investigator (Physiological Genomics Group)
09/2013 MCW Research Day Poster Award, Junior Faculty: Basic Research
09/2015 MCW Research Day Poster Award, Junior Faculty: Basic Research
05/2018 Elected a Fellow of the American Heart Association (FAHA);
Council on the Kidney in Cardiovascular Disease (KCVD)
2018 Outstanding Graduate School Educator recognition (2017-2018),
Graduate School of Biomedical Sciences, CTSI, MCW
2019 Outstanding Graduate School Educator recognition (2018-2019),
Graduate School of Biomedical Sciences, CTSI, MCW
2020 Mentor of the Year Award, Graduate School, MCW
2020 Outstanding Graduate School Educator recognition (2019-2020),
Graduate School of Biomedical Sciences, CTSI, MCW
2021 Outstanding Graduate School Educator recognition (2020-2021),
Graduate School of Biomedical Sciences, CTSI, MCW
2021 Outstanding Medical Student Teacher recognition (2020-2021),
Renal Physiology, Medical School, MCW
2022 2023 Renal Section Young Investigator Award Winner, American Physiological Society
2022 Postdoc Mentor of the Year, MCW
2022 Outstanding Medical Student Teacher recognition (2021-2022),
Renal Physiology, Medical School, MCW

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

American Society for Nephrology
American Heart Association
American Physiological Society

EDITORSHIPS/EDITORIAL BOARDS

07/1/2015 – 06/2021 Editorial Board, *Physiological Genomics*
07/1/2020 – present Editorial Board, *AJP Renal Physiology*
07/1/2021 – present Associate Editor, *Physiological Genomics*

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

07/2014 –04/2019 Trainee Advisory Chair, Physiological (Gen)Omics Steering Committee,
American Physiological Society
07/2017 –04/2020 Joint Programming Committee Representative for the
Physiological (Gen)Omics Interest Group, American Physiological Society

07/2019 – 06/30/22 Secretary, Renal Section, American Physiological Society
07/2019 – Present Member, Scientific & Clinical Education Lifelong Learning Committee (SCILL) of the Council on The Kidney in Cardiovascular Disease
04/2020 – 04/2023 Chair, Physiological Omics Group, American Physiological Society

LOCAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

07/1/2019 – present Executive Board Member, American Heart Association, Milwaukee Chapter
07/2021 – 06/2022 Co-Chair, Search Committee, Pediatric Nephrology Chief, MCW

LOCAL REVIEW PANELS/JUDGING

2012- Graduate Student Poster Day judge (MCW)
2012-2014 Clinical and Translational Science Institute (MCW) Pilot Grant Reviewer
2017 ACS-IRG Review Committee, Cancer Center
2021 Team Science Pilot Grants, Cancer Center

NATIONAL REVIEW PANELS/JUDGING

2017 & 2018 Reviewer, Cardiorenal Clinical Committee, Spring Peer Review (AHA)
2018 – Reviewer, Innovative Project Award – Clinical-Population Sciences (AHA)
2018 – Physiological -Omics Awards Committee
2019, 2020 Reviewer, Florida Department of Health Biomedical Research Program Proposals
2019, 2021 Ad Hoc Reviewer, HIV Comorbidities and Clinical Studies, NIH
07/2021 Reviewer, NIH/DKUS Integrated Review Group Special Emphasis Panel: Member Conflict: Topics in Nephrology
12/2021 Reviewer, NIH special emphasis panel, IVPP, AVI and BBHV study sections
3/2022- Reviewer, NIDDK Innovative Science Accelerator (ISAC) Program Grant Reviewer
10/31/2022 Faculty Expert/Judge; Chronic Kidney Disease & Polycystic Kidney Disease Session Basic Research Forum for Emerging Kidney Scientist (ASN/APS), Virtual Meeting
12/2021 U01 Mock Reviewer, U01 NRMN Grant Writing project
2022-2023 Reviewer, US Department of Veterans Affairs Rehabilitation R&D Merit Review Panel
2023 Reviewer, AHA Career Development Award (CDA)

INTERNATIONAL REVIEW PANELS/JUDGING

2020-2022 Dutch Kidney Foundation, our PIONIER + co-financing programme, Kolff+
2022-2023 Netherlands Organization for Scientific Research (Vidi, NWO/ZonMw)

MANUSCRIPT REVIEWER (list not comprehensive)

Hypertension
Diabetes
Journal of the American Heart Association (JAHA)
Circulation
PLOS One
RNA
Kidney International
Physiological Genomics

AJP-Renal Physiology
AJP-Heart and Circulatory Physiology
BMC Nephrology
Journal of Visualized Experiments
Scientific Reports
American Journal of Nephrology

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active Funding:

Peer Review

Title: Interaction of female gonadal steroids and miR-146b in regulating cardiac and renal pathology in the 5/6 nephrectomy model of CKD
Source: MCW Cardiovascular Center; CVC FY23 Pilot Award
Role: PI
PI: Alison Kriegel
Dates: 07/01/2022-6/30/2023

Title: Targeting Tolvaptan-Resistant Mechanisms of Fibrosis in ADPKD
Source: Polycystic Kidney Disease (PKD) Foundation
Role: PI
PI: Alison Kriegel
Dates: 7/1/2022 – 6/31/2024

Title: Understanding and Addressing Disparities in Cancer Therapy Induced Inflammation and Associated Endothelial Dysfunction
Source: American Heart Association
Role: PI of Basic Science Project for Strategically Focused Research Network (SFRN)
PI: Center Director Melinda Stolley; Alison Kriegel Basic Project PI
Dates: 07/01/2021-06/30/2025

Title: Ellsworth Polycystic Kidney Disease Research
Source: CHW Children’s Research Institute
Role: PI
PI: Alison Kriegel
Dates: 7/01/2021 – 6/30/2024

Prior

Peer Review

Title: miRNA Mediated Cross-Talk in CRS4: The Role of the miR-21-5p/PPAR-Alpha Pathway

Source: R01 NIH/NHLBI
 Role: Principal Investigator
 Dates: 7/1/2016 – 4/30/2021
 Title: Identification of Novel Cardiorenal Syndrome-Associated Factors Using a Hemodialysis-Focused Approach

Source: Advancing a Healthier Wisconsin/Steve Cullen Fund
 Role: PI
 PI: Alison Kriegel
 Dates: 8/1/2019 – 6/30/2021
 Title: Rapid On-Site Community-Wide Screening for Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2; COVID-19) in First Responders, Essential Municipal Employees and Residents of Racine, WI

Role: PI
 PI: Alison Kriegel
 Dates: 5/2020 – 5/2021
 Title: MicroRNA Contribution to CVD with ESRD and Peritoneal Dialysis

Source: American Heart Association (National)
 Role: Sponsor
 PI: Victoria Nasci (Graduate Student)
 Dates: 7/1/2018 – 6/30/2020
 Title: Microvesicles in Cardiovascular Inflammation: Developing Collaborations, Core Resources and Unified Methodology

Source: MCW Cardiovascular Center, AHW Endowment
 Role: Co-Investigator leading miRNA arm of project (Hoffmann PI)
 Dates: 07/2015 – 06/2016
 Title: miR-29 in Hypertension

Source: NIH/NHLBI
 Role: Co-Investigator (Liang PI)
 Dates: 7/1/2014 – 5/31/2018
 Title: MicroRNA Mediated Pathology in Type IV Cardiorenal Syndrome

Source: American Heart Association, Scientist Development Grant
 Role: PI
 Dates: 07/01/13-06/2017
 Title: Genetic & Physiological Basis of Salt-sensitive Hypertension

Source: NIH/NHLBI
 Role: Co-Investigator, Project 2 (Liang PI)
 Dates: 07/2011 – 06/2016

Title: Physical Activity, microRNA expression, and Endothelial Function
Source: CTSI Grant (MCW)
Role: Co- Investigator (Widlansky PI)
Dates: 04/2014 – 03/2015

Title: Title: MicroRNA Ribonucleoprotein Complexes
Source: NIH/NHLBI
Role: Co-Investigator (Liang PI)
Dates: 03/2012 – 06/2014

Title: Mechanisms of Anesthetic Cardioprotection
Source: NIH/NGMS PPG
Role: Co-Investigator, Project 2
PI: Dr. Zeljko Bosnjak, (Project 2 PI: Dr. Mingyu Liang)
Dates: 3/1/2015 – 2/28/2020

Title: miR-29 and Endothelial Function
Source: NIH/NHLBI
Role: Co-Investigator
PI: Drs. Mike Widlansky and Mingyu Liang
Dates: 9/1/2015 – 4/30/2019

Title: Involvement of micro- RNA 223 in the pathogenesis of preeclampsia through interference with EMT of the extravillous trophoblast
Source: AMAG Pharmaceuticals
Role: Co-Investigator
PI: Dr. Anna Palatnik
Dates: 10/1/2018 – 9/30/2019

Title: The role of micro-RNA 223 in the Pathogenesis of Preeclampsia
Source: Women's Health Research Program (MCW)
Role: Co-Investigator
PI: Dr. Anna Palatnik
Dates: 1/14/2018 – 9/30/19

Title: Innovation Center Grant
Source: Biotechnology and Bioengineering Center, MCW
Role: Postdoctoral Awardee (Liang PI)
Dates: 09/2010 – 08/2011

Contract

Title: The role of 20-HETE in Autosomal Dominant Polycystic Kidney Disease
Source: Taisho Pharmaceutical
Role: PI
PI: Alison Kriegel
Dates: 4/1/2021 – 2/28/2022

Title: Targeting of Colony Stimulating Factor 1 as a Novel Therapeutic Strategy for ADPKD
Source: AmMax Bio
Role: PI
Dates: 10/22/2020 – 07/21/2021

Title: Therapeutic Inhibition of Src in ADPKD
Source: Relay Therapeutics
Role: PI
PI: Alison Kriegel
Dates: 11/23/2020 – 12/30/2021

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

National/International:

Alison J. Kriegel, Invited lecture, Physiological Genomics Research Group 2014
Scientific Research Conference, San Diego Convention Center, San Diego, CA
“Characterization of microRNAs enriched in specific cell types and primary tissue types in solid organs”
10/26/2014

Alison J. Kriegel, Invited lecture, University of Alabama-Birmingham, Birmingham, AL
“MicroRNA mediators of chronic renocardiac syndrome: Who are they and where do they come from?” 2/16/2016

Alison J. Kriegel, Invited lecture, University of Mississippi Medical Center, Jackson, MS
“Beyond Biomarkers: microRNAs as Mediators of Cardiac Pathology in CKD”
10/9/2016

Alison J. Kriegel, Invited Speaker, ASN Kidney Week 2018, San Diego, CA
Session: Cardiorenal Syndrome: Blame the Messenger
Title: “The Coding and Noncoding Genes Influencing Cardiorenal Syndrome”
10/26/2018

Alison J. Kriegel, Invited Speaker, AHA Scientific Sessions 2018, Chicago, IL
Session: “Cardio-renal Syndrome: Transitions to Chronicity”
Title: “Cardiovascular Changes Associated with the Progression of Renal Tubular Pathology”
11/10/2018

Alison J. Kriegel, Invited Speaker, APS Conference on Control of Renal Function in Health and Disease, Charlottesville, VA
Session: "Genetics and epigenetics in renal physiology and kidney disease"
Title: "MicroRNA mediators of renal injury and chronic reno-cardiac syndrome"
06/27/19

Alison J. Kriegel, Invited Speaker, Vasculata, Milwaukee, WI
Session: "Renal"
Title: "Consequences of impaired autoregulation of renal blood flow"
07/17/2018

Alison J. Kriegel, Invited Speaker, Oregon Health Sciences University, Portland, OR
Title: "Cardiorenal syndrome in progress: molecular regulation of cardiac pathology with chronic renal insufficiency"
8/09/2019

Alison J. Kriegel, Invited Speaker, Portland Veterans Affairs Medical Center, Portland, OR
Title: "The heart-kidney connection in health and disease"
8/09/2019

Alison J. Kriegel, Invited lecture, Europhysiology 2020, Berlin
Session: From basic renal function to systemic disease **Meeting cancelled

Alison J. Kriegel, Invited lecture, Medical College of Georgia, Augusta, GA
Title: "Delaying End-Stage Renal Disease: Insights from Unbiased Multi-Omics Analysis" 11/4/2021

Alison J. Kriegel, Invited lecture, University of Utah, Salt Lake City, UT (virtual)
Title: "Application of Multi-Omics to Identify Molecular Mechanisms of Cardiorenal Syndrome" 6/22/2022

Invited Institutional Seminars/Presentations

Alison J. Kriegel, Invited Lecture, Nephrology Department, MCW,
08/23/2016

Alison J. Kriegel, Invited Lecture, Women in Science Lecture Series, Milwaukee, WI
05/23/2017

Alison J. Kriegel, Invited Lecture, Women's Health Research Program (WHRP), MCW,
02/21/2018

Alison J. Kriegel, Invited Lecture, Focus on Technology, Blood Research Institute
06/04/2019

Alison J. Kriegel, Invited Lecture, Nephrology Department, MCW,
07/30/2019

Alison J. Kriegel, Invited Lecture, Nephrology Department, MCW
07/30/2019

Andreas Beyer, Kirsten Beyer, Alison J. Kriegel, and Melinda Stolley, Invited Lecture,
"Understanding and Addressing Challenges in Cardio-Oncology Disparities",
Cancer Center, MCW

09/23/2022

Alison J. Kriegel, Invited Lecture, Research in Progress Series, Pediatrics Department, MCW

“Understanding Multi-Organ Effects of Juvenile Chronic Kidney Disease Through An Integrated Systems Physiology Approach”

10/10/2022

Alison J. Kriegel, Invited Lecture, Childrens Research Institute Conferece, Pediatrics Department, MCW

1/20/2022

Departmental Seminars

Alison J. Kriegel, Physiology Department, MCW,

10/16/2013, 03/15/2015, 05/03/2016, 10/11/2017, 12/4/2019, 3/9/2022, 12/7/2022

PEER REVIEWED INVITED WORKSHOPS/PRESENTATIONS

National

Kriegel AJ, Mladinov D, Kelly H, Langenstroer P, See W, and M. Liang. Interstitial fibrosis in the renal inner medulla in humans is associated with up-regulation of miR-382 and down-regulation of kallikrein 5, Experimental Biology, Washington, DC. 04/11/2011

Kriegel AJ, Liu Y, Cabacungan E, Liu P, and Liang M. Deep sequencing of microRNAs in medullary thick ascending limbs isolated from fibrotic and non-fibrotic regions of the kidney in the dahl salt-sensitive rat. Council on Hypertension Scientific Sessions, Washington D.C. 09/2012

Kriegel AJ, MicroRNA deep sequencing reveals altered expression in the left ventricle in a rat model of chronic renocardiac syndrome. AHA Scientific Sessions, Los Angeles, CA, 11/07/2012

Kriegel AJ, Liu Y, Liu P, Cowley AW, and Liang M. The Upregulation of MicroRNA miR-21 Mediates Concentric Left Ventricle Remodeling in a Rat Model of Chronic Renocardiac Syndrome. AHA Scientific Sessions, Dallas, TX 11/19/2013

Kriegel AJ, Liu P, Casati M, Cowley AW, and Liang M. 5/6 Nephrectomy Induces Changes in Immune and Inflammatory Gene Expression in the Left Ventricle. Experimental Biology Meeting in Boston, MA. 03/29/2015

Kriegel AJ, Liang M, Liu Y, Liu P, Cowley AW, Casati MC, Chuppa S. miR-21 Targets Left Ventricular Peroxisome Proliferator-activated Receptor Alpha in a Rat Model of Type 4 Cardiorenal Syndrome. AHA Basic Cardiovascular Sciences Scientific Sessions. 07/12/2015

Kriegel AJ, Baker MA, Liu Y, Liu P, Cowley AW, Liang M. (2015) Endogenous microRNAs in human microvascular endothelial cells regulate mRNAs encoded by hypertension-related genes are functionally important. AHA Council on Hypertension Scientific Sessions, 09/18/2015

Chuppa S, **Kriegel AJ**. Low-dose Clofibrate Protects the Heart and Kidney in the 5/6 NX Model of Chronic Kidney Disease. AHA Scientific Sessions, Orlando, FL 11/08/2015

Paterson M, Chuppa S, **Kriegel AJ**. RNA-Sequencing Based Approach to Identify Novel Pathways Regulating Atrophic and Hypertrophic Renal Remodeling. ASN Kidney week, New Orleans, LA 11/4/2017

Kriegel AJ, Nasci VL, and Liu P. Transcriptomic Profiling Reveals Left Ventricle and Kidney Pathology Resulting from Peritoneal Dialysis. Experimental Biology Meeting in Philadelphia, PA. 04/04/2022

Kriegel AJ, Patil CN, and Schwasinger E. Targeting Tolvaptan-Resistant Mechanisms of Fibrosis in ADPKD 2022 PKD Connect Conference, PKD Foundation, Virtual 06/24/2022

Kriegel AJ, Patil C, Schwasinger E. Growth Stress and CardioRenal Syndrome: Effect of Renal Insufficiency on Blood Pressure and Cardiac Remodeling in Juvenile Rats. AHA Hypertension Council Meeting, San Diego, CA 09/09/2022

Kriegel AJ, Patil C, Schwasinger E. Metabolic Changes and Growth Impairment in a Rat Model of Juvenile CKD. Kidney Week 2022, American Society of Nephrology, Orlando, FL, 11/04/2022

COMMITTEE SERVICE:

Medical College of Wisconsin

01/2010 – 06/2012	Member, Postdoctoral Advisory Committee, Office Postdoctoral Education, Medical College of Wisconsin
08/2014 –7/2020	Member, Admissions Committee, Office of Faculty Affairs, MCW
08/2016 – 07/2017	Member, Graduate Student Conference Education Award Committee, Graduate School, MCW
07/2017– present	Chair, GSC Awards Committee, Student Conference Education Award Committee, Graduate School, MCW *Covers awards sponsored by Graduate School: Travel awards Dissertation Awards Minority Scholarship Awards Paper of the Season/Year Award
08/2018 – 07/2021	Member, Institutional Animal Care and Use Committee, MCW
07/2019 – 06/2021	Secondary/Incoming Physiology Department Representative, Graduate Faculty Council, MCW
07/2021 – 06/2024	Physiology Department Representative, Graduate Faculty Council, MCW

07/2019 – present	Physiology Department Representative, Interdisciplinary Course Directors Group, MCW Graduate School
09/2019 – present	Member, Ambassador Workgroup/ Outreach & Recruitment, MCW Graduate School
10/2020 – present	Member, Ad Hoc Committee on Graduate School Holistic Admissions, MCW Graduate School
04/2022 – 05/2022	Interdisciplinary Program (IDP) in Biomedical Sciences Faculty Retreat Planning Committee
12/2022 – present	Ad Hoc Member, Admissions Committee, Office of Faculty Affairs, MCW

MEDICAL COLLEGE TEACHING ACTIVITIES

Medical Student Education

10/2013 – Present	Research Mentor for Scholarly Pathways Program
08/2016 – Present	Course Co-Director for Translational Genetics Course offered through the CTSI at MCW
08/2016 – Present	Lecturer for Translational Genetics Course “Genomics Review” “Disease gene identification and animal modeling” “RNA”
10/2019 – Present	Instructor in Renal Physiology block for second year medical students, Medical School, MCW
04/2019 –	Instructor Symptoms Course (Dyspnea Lecture), M2
06/2020 – Present	Co-Director and Lecturer Molecular and Cellular Research Scholarly Pathway
09/2022 –	Lecturer in M1 CTR/MCR Pathways “Introduction to Pathways” “Orientation” and “Professionalism” “Refining the Research Question” “Research Skills” “Mechanistic Research Studies”

Pharmacy Student Education

10/2017 – Present	Instructor, Human Anatomy and Physiology Cardiovascular and Renal Physiology Lectures
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Genetic Counseling Student Education

01/2022 – Present	Course Co-Director for Translational Genetics Course offered through the CTSI at MCW
01/2022 – Present	Lecturer for Translational Genetics Course “Genomics Review”, “RNA”

“Disease gene identification and animal modeling”

Graduate Student Education

02/2013, 2015-2019 Instructor, Physiological Genomics Course
08/2016 – Present Course Co-Director for Translational Genetics Course offered through the CTSI at MCW
Lecturer for Translational Genetics Course
08/2016 – Present “Genomics Review”
“Disease gene identification and animal modeling”
“RNA”
03/2017 – Present Mock-grant reviewer for Physiological Genomics/Grant Writing Course
12/2018 Lecturer, Advanced Systems Physiology Course, Renal Section
04/2019 – Present Associate Director, Master’s of Medical Physiology Program, MCW
08/2019 – Present Instructor, Biological Sciences, Foundations of Biological Sciences Course I, Cardiovascular Physiology
09/2019 – Present Instructor, Peer Review, Professional Development
01/2020 – Present Course Director and lecturer for Translational Genomics (Genetics) Course offered through the CTSI at MCW
09/2021 – Present Lecturer, Current Concepts in CV Biology, MCW “Renal Mechanisms in Hypertension and Heart Failure”
11/2021 – Present Instructor, Biological Sciences, Foundations of Biological Sciences III Course, Renal Physiology
11/2022 – Present Instructor, Biological Sciences, Foundations of Biological Sciences III Course, Excitable Membranes: Muscle

Resident & Fellow Education

08/2016 – 12/2017 Course director and lecturer for Translational Genetics Course offered through the CTSI at MCW
01/2020 – Present Course Co-director and lecturer for Translational Genomics Course offered through the CTSI at MCW

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

Medical Students

Valerie Carter, MCW, 01/2013 – 10/2013, Research Mentor, Scholarly Pathways
Sophie Miller, MCW, 01/2016 – 05/2018, Research Mentor, Scholarly Pathways
Jeylan Zemaj, MCW, 06/2021 – Present, Research Mentor, Scholarly Pathways

Graduate Students

Ph.D. Students Advised (Primary Mentees in **bold**)

Jessica Olson, MCW, 11/2011 – 02/2012, Research Co-Mentor
Angeles Baker, MCW, 08/2011 – 10/2011, Research Co-Mentor
Tommy Langer, MCW, 08/2012 – 10/2012, Research Co-Mentor
Tim Stodola, MCW, 11/2012 – 02/2013, Research Co-Mentor
Anna Williams, MCW, 11/2013 – 02/2013, Research Co-Mentor

Kathleen Bazan, MCW, 02/2015 – 04/2015, Research Mentor
Mark Paterson, MCW, 06/2015 – 04/2019, Research/PhD Mentor
Victoria Nasci, MCW, 08/2016 – 11/2021, Research/PhD Mentor
Dawid Chabowski, MCW, 09/2016 – 11/2016, Informal Research Advisor
James Miller, MCW, 10/2016 – 05/2018, Informal Research Advisor
Lashodya Dissanayake, MCW, 08/2018 – 11/2017, Research Mentor
Adrian Zietara, MCW, 11/2018 – 02/2019, Research Mentor
Amanda Marks, MCW, 08/2018 – Present, Research Mentor/PhD Mentor
Adaysha Williams, MCW, 11/2019 – Present, Research Mentor
Jerrell Lovett, MCW, 11/2019 – 2/20, Research Mentor
Mark Vanden Avond, MCW, 2/20 – 5/20, Research Mentor
Alisha Ziegler, MCW, 8/20 – 9/20, Research Mentor
Lukas Brandt, MCW, 10/20 – 12/20, Research Mentor/PhD Co-Mentor
Lauren Yunker, MCW, 1/20 – Present, Research Mentor/PhD Mentor

Ph.D. Committees

Ogugua Anene-Maidoh, MD MCW, 06/2014 – 06/2015	No degree conferred
Maria Angeles Baker, MCW, 09/2015 – 10/2016	Defended 10/30/2016
Mark Paterson , MCW, 06/2015 – 04/2019, *Advisor	Defended 04/20/2019
Victoria Nasci , MCW, 08/2016 – 11/2021, *Advisor	Defended 11/11/2021
Brittany Wade, MCW, 06/2016 – 11/2017	Defended 11/16/2017
David Jensen, MCW, 11/2017 – 4/2020	Defended 04/14/2020
Denisha Spires, MCW, 5/2019 – 11/2020	Defended 11/02/2020
Samantha Paddock, MCW, 5/2019 – 9/2021	Defended 09/12/2021
Thiago Arzua, MCW, 8/2019 – 12/2021	Defended 12/08/2021
Jennifer Tinklenberg, MCW, 8/2019 – present	
Rebecca Slick, MCW, 8/2019 – 11/2022	Defended 11/14/2022
Nnamdi Uche, MCW, 5/2020 – present	
Amanda Marks , MCW, 08/2018 – Present, *Advisor	
Mark Vanden Avond, 12/2021– present	
Adaysha Williams , MCW 11/2018 – Present, *Advisor	

Master's Program Committees

Marc Casati, MCW, 11/2016 – 02/2017	Graduated, Spring 2017
James Reneau, MCW, 10/2017 – 4/2019	Graduated, Spring 2019

Residents/Fellows (Primary Mentees in **bold**)

Ameya Patil, MD, MCW, 12/2014 – 05/2017
Pediatric Nephrology Fellow, Department of Pediatrics
Informal Research Advisor

Vaishali Singh, MD, MCW, 02/2016 – 05/2018
Pediatric Nephrology Fellow, Department of Pediatrics
Mentor for Research fellowship

Pui Lai, MD, MCW, 03/2017 – 08/2017
Neonatology Fellow, Department of Pediatrics

Informal Research Advisor
Devashis Mukherjee, MD, 11/2018 – 05/2021
Neonatology Fellow, Department of Pediatrics
Advisor/Scholarship Oversight Committee Member
Mark Paterson, PhD, MCW, 04/2019 – 07/2019
Postdoctoral Fellow (Basic Science)
Research/Postdoctoral Mentor
Ryan Adam, PhD, MCW, 11/2019 – Present
Postdoctoral Fellow (Basic Science)
Research/ Postdoctoral Mentor
Sunil Sati, MD, 11/2021 – Present
Neonatology Fellow, Department of Pediatrics
Advisor/Scholarship Oversight Committee Member
Karen Clark, PhD, MCW, 10/2022 – Present
Postdoctoral Fellow (Basic Science)
Research/ Postdoctoral Co-Mentor

Faculty

Ameya Patil, MCW, 05/2017 – 07/2020
Assistant Professor, Department of Pediatrics
Primary Advisor/Research Mentor
Anna Palatnik, MD, 12/12/2017 – 8/20/2019
Assistant Professor, Department of Medicine, Div. of Obstetrics and
Gynecology
Mentor for research project and Clinical Research Scholars Program
Jessica Olson, PhD 11/2019 – 06/2020
Assistan Professor, Institute for Health and Equity
Mentor for research project

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

Faculty

Eman Gohar, PhD, Assistant Professor, Vanderbilt University, 03/2017- present
Formal training grant mentor for renal microRNA and gene expression analysis
Maurice Fluitt, PhD, Assistant Professor, Endocrine and Metabolism, Department of
Medicine, Howard University, 1/2020 – Present, Formal basic/translational
science mentor for renal microRNA and gene expression analysis, KL2 application

Medical Students

Leah Patullo, University of Pikeville- Kentucky College of Osteopathic Medicine,
05/2015 – 08/2015 UP-KYCOM Summer Research Fellowship mentor

Graduate Students

Cayla Harris, Jackson State University, 06/2019 – 07/2019

Mentor for Master's Program summer research experience

Undergraduate Students

Kathryn Wagner, Viterbo University, 05/2011– 08/2011, SPUR Co-Mentor

Sampson Boham, Cardinal Stritch University, 12/2012 – 05/2013, PURE Co-Mentor

Sarah Amherdt, Marquette University, 05/2013 – 08/2013, SPUR Co-Mentor

Anne Turco, Luther College, 05/2014 – 08/2014, SPUR Mentor

Lukas Wardecke, Cardinal Stritch University, 05/2016 – 08/2016, SPUR Mentor

Murali Palathinkara, Rice University, 05/2016-07/2016, Mentor for observation

Raven Hall, Syracuse University 05/2018-08/2018, Diversity Summer Health-Related Research Education Program (DSHREP) Mentor

Destiny Scott-Dyson, UW-Whitewater 05/2019-08/2019, DSHREP Mentor

William Piatt, University of Minnesota 05/2021-08/2021, AHA Summer Undergraduate

High School Students

Raven Hall, Divine Savior Holy Angels High School, 5/2017–08/2017

Research Opportunity for Academic Development in Science (ROADS) Mentor

Vibhusha Kolli, Brookfield Academy High School, 1/2018–05/2018

SUPREMES Mentor

COMMUNITY SERVICE ACTIVITIES:

- | | |
|-------------------|---|
| 02/28/2012 | Science Fair Judge, Nicolet High School, Glendale, WI |
| 10/2012- 3/2013 | Science fair mentor to 6 th and 7 th graders at St. Matthias Parish School, Milwaukee, WI |
| 02/26/2013 | Science Fair Judge, Nicolet High School, Glendale, WI |
| 11/2013 – 01/14 | Science fair mentor to 6 th and 7 th graders at St. Matthias Parish School, Milwaukee, WI through the Biotechnology and Bioengineering Center Education Outreach program |
| 10/10/2014 | Discussed careers in biomedical science with students as part of "Career Day", Grafton High School, Grafton, WI |
| 12/2014 - 4/2016 | Science fair mentor to 4 th and 5 th graders at Wauwatosa STEM, Webster Elementary School, Wauwatosa, WI through the Biotechnology and Bioengineering Center Education Outreach |
| 01/2014 – 9/2019 | Project Lead the Way Advisory Board, Grafton High School, Grafton, WI |
| 03/2014 – 04/2014 | Club Invention Instructor (Grades K-3), Parkview Elementary School, Cedarburg, WI |

08/2015 – 02/2016	Faculty mentor for DRIVE2 program (MCW) for high school students from Milwaukee Academy of Science & High School of Health Sciences
11/2016 – 04/2017	Destination Imagination team manager, Parkview Elementary School, Cedarburg, WI
03/10/2018	Introduction to Physiology Lecture, Student Enrichment Program for Underrepresented Professions (StEP-UP) program (MCW)
09/2018, 2019	“STEAM Day” presenter introducing a career in biomedical sciences for 3-5 th graders, Parkview Elementary School, Cedarburg, WI
11/2018 – 5/2020	Volunteer for HOPE Network for Single Mothers Newsletter researcher and scholarship committee
12/07/2018	“PLTW Biomedical Conference” at Concordia University, presenter introducing a career in physiology and basic cardiovascular principles for high school freshman and sophomores.
08/2019 – Present	UW-Milwaukee Fostering Success Committee, provides comprehensive support and assistance to college students who have left the foster care system
12/2019 – 5/2020	Member, STEAM Fair Organizing Committee, Webster Middle School, Cedarburg, WI
2021, 2022	Virtual guest for 2 nd grade Q&A on being a scientist Pewaukee Lake Elementary School

BIBLIOGRAPHY

REFEREED JOURNAL PUBLICATIONS/ORIGINAL PAPERS

de Resende MM, **Kriegel AJ** and Greene AS. Combined effects of low-dose spironolactone and captopril therapy in a rat model of genetic hypertrophic cardiomyopathy. *Journal of Cardiovascular Pharmacology*. 2006 Dec; 48(6):265-73.

Kriegel AJ and Greene AS. Substitution of chromosome 16 from Brown Norway preserves cardiac function with aging in a Salt-Sensitive Dahl consomic rat. *Physiol Genomics*. 2008 Dec 12;36(1):35-42.

Kriegel AJ, Fang Y, Liu Y, Tian Z, Mladinov D, Matus IR, Ding X, Greene AS, and Liang M. MicroRNA-target pairs in human renal epithelial cells treated with transforming growth factor {beta}1: a novel role of miR-382. *Nucleic Acids Res*. 2010 Dec 1;38(22):8338-47.

Kriegel AJ, Liu Y, Cohen B, Usa K, Liu Y and Liang M. miR-382 targeting of kallikrein 5 contributes to renal inner medullary interstitial fibrosis. *Physiol Genomics*. 2012 Feb 27;44(4):259-67.

Kriegel AJ, Liu Y, Fang Y, Ding X, Liang M. The miR-29 family: genomics, cell biology, and relevance to renal and cardiovascular injury. *Physiol Genomics*. 2012 Feb 27;44(4):237-44. Review.

Kriegel AJ, Mladinov D, and Liang M. Translational study of microRNAs and its application in kidney disease and hypertension research. *Clin Sci (Lond)*. 2012 May 1;122(10):439-47. Review.

Kriegel AJ, Didier DN, Li P, Lazar J, Greene AS. Mechanisms of cardioprotection resulting from Brown Norway chromosome 16 substitution in the Salt-Sensitive Dahl rat. *Physiol Genomics*. 2012 Aug 17;44(16):819-27.

Xu X, **Kriegel AJ**, Liu Y, Usa K, Mladinov D, Liu H, Fang Y, Ding X, Liang M. Delayed ischemic preconditioning contributes to renal protection by upregulation of miR-21. *Kidney Int*. 2012 Dec; 82(11):1167-75.

Fang Y, Yu X, Liu Y, **Kriegel AJ**, Heng Y, Xu X, Liang M, Ding X. MiR-29c is down-regulated in renal interstitial fibrosis in humans and rats and restored by HIF- α activation. *Am J Physiol Renal Physiol*. 2013 May 15;304(10):F1274-82.

Yu X, Lu C, Liu H, Rao S, Cai J, Liu S, **Kriegel AJ**, Greene AS, Liang M, Ding X. Hypoxic preconditioning with cobalt of bone marrow mesenchymal stem cells improves cell migration and enhances therapy for treatment of ischemic acute kidney injury. *PLoS One*. 2013 May 9;8(5):e62703.

Jia P, Teng J, Zou J, Fang Y, Jiang S, Yu X, **Kriegel AJ**, Liang M, Ding X. Intermittent exposure to xenon protects against gentamicin-induced nephrotoxicity. *PLoS One*. 2013 May 30;8(5):e64329.

Kriegel AJ, Liu Y, Liu P, Baker MA, Hodges MR, Hua X, and Liang M. Characteristics of microRNAs enriched in specific cell types and primary tissue types in solid organs. *Physiol Genomics*. 2013 Dec 2; 45(23):1144-56.

Kriegel AJ and Liang M. microRNA in situ hybridization for formalin fixed kidney tissues. *J Vis Exp*. 2013 Nov. 30;(81).

Xu X, **Kriegel AJ**, Jiao X, Liu H, Bai X, Olson J, Liang M, Ding X. miR-21 in ischemia/ reperfusion injury: a double-edged sword? *Physiol Genomics*. 2014 Nov1;46(21):789-97.

Olson JM, Yan Y, Bai X, Ge ZD, Liang M, **Kriegel AJ**, Twaroski DM, Bosnjak ZJ. Up-regulation of microRNA-21 mediates isoflurane-induced protection of cardiomyocytes. *Anesthesiology*. 2015 Apr;122(4):795-805.

Kriegel AJ, Baker MA, Liu Y, Liu P, Cowley AW Jr, Liang M. Endogenous microRNAs in human microvascular endothelial cells regulate mRNAs encoded by hypertension-related genes. *Hypertension*. 2015 Oct;66(4):793-9.

Kriegel AJ, Gartz M, Afzal M, de Lange W, Carter Ralph JC, and Strande, JL. Molecular approaches in HFpEF: MicroRNAs and iPSC-derived cardiomyocytes. *J Cardiovasc Transl Res*. 2016 Dec 28. 2017 Jun;10(3):295-304. Review.

Usa KS, Liu Y, Kurth T, **Kriegel AJ**, Mattson DL, Cowley AW Jr, Liang M. Renal Delivery of Anti-microRNA Oligonucleotides in Rats. *Methods Mol Biol.* 2017; 1527:409-419.

Paterson MR, **Kriegel AJ**. miR-146a/b: a family with shared seeds and different roots. *Physiol Genomics.* 2017 Apr 1;49(4):243-252. Epub 2017 Feb 17. Review.

Chuppa S, Liang M, Liu P, Liu Y, Casati MC, Cowley AW, Patullo L and **Kriegel AJ**. The MicroRNA-21 regulates peroxisome proliferator-activated receptor alpha, a molecular mechanism of cardiac pathology in Cardiorenal Syndrome Type 4. *Kidney International.* 2018 Feb;93(2):375-389.

Widlansky ME, Jensen DM, Wang J, Liu Y, Geurts AM, **Kriegel AJ**, Liu P, Ying R, Zhang G, Casati M, Chu C, Malik M, Branum A, Tanner MJ, Tyagi S, Usa K, Liang M. miR-29 contributes to normal endothelial function and can restore it in cardiometabolic disorders. *EMBO Mol Med.* 2018 Mar;10(3). PMID: 29374012

Miller JJ, Aoki K, Mascari CA, Beltrame AK, Sokumbi O, North PE, Tiemeyer M, **Kriegel AJ**, Dahms NM. α -Galactosidase A-deficient rats accumulate glycosphingolipids and develop cardiorenal phenotypes of Fabry disease. *FASEB J.* 2019 Jan;33(1):418-429. PMID: 29979634.

Kriegel AJ, Terhune SS, Greene AS, Noon KR, Pereckas MS, and Liang M. Isomer-specific effect of microRNA miR-29b on nuclear morphology. *J Biol Chem.* 2018 Sep 7;293(36):14080-14088.

Baker MA, Wang F, Liu Y, **Kriegel AJ**, Geurts AM, Usa K, Xue H, Wang D, Kong Y, Liang M. MiR-192-5p in the Kidney Protects Against the Development of *Hypertension*. 2019 Feb;73(2):399-406.

Nasci VL, Chuppa S, Griswold L, Goodreau KA, Dash RK, **Kriegel AJ**. miR-21-5p regulates mitochondrial respiration and lipid content in H9C2 cells. *Am J Physiol Heart Circ Physiol.* 2019 Mar 1;316(3):H710-H721.

Ilatovskaya DV, Levchenko V, Pavlov TS, Isaeva E, Klemens CA, Johnson J, Liu P, **Kriegel AJ**, Staruschenko A. Salt-deficient diet exacerbates cystogenesis in ARPKD via epithelial sodium channel (ENaC). *EBioMedicine.* 2019 Feb;40:663-674.

Liu Y, **Kriegel AJ**, Liang M. Library Preparation for Multiplexed Reduced Representation Bisulfite Sequencing with a Universal Adapter. *Methods Mol Biol.* 2019; 2018:177-194.

Lai PY, Jing X, Michalkiewicz T, Entringer B, Ke X, Majnik A, **Kriegel AJ**, Liu P, Lane RH, Konduri GG. Adverse early-life environment impairs postnatal lung development in mice. *Physiol Genomics.* 2019 Sep 1;51(9):462-470. PMID: 31373541; PMCID: PMC6766700.

Hader SN, Zinkevich N, Norwood Toro LE, **Kriegel AJ**, Kong A, Freed JK, Gutterman DD, Beyer AM. Detrimental effects of chemotherapy on human coronary microvascular function. *Am J Physiol Heart Circ Physiol.* 2019 Oct 1;317(4):H705-H710. PMID: 31397169; PMCID: PMC6843017.

Abais-Battad JM, Alsheikh AJ, Pan X, Fehrenbach DJ, Dasinger JH, Lund H, Roberts ML, **Kriegel AJ**, Cowley AW Jr, Kidambi S, Kotchen TA, Liu P, Liang M, Mattson DL. Dietary Effects on Dahl Salt-Sensitive Hypertension, Renal Damage, and the T Lymphocyte Transcriptome. *Hypertension.* 2019 Oct;74(4):854-863. PMID: 31476910; PMCID: PMC6739138.

Paterson MR, Geurts AM, **Kriegel AJ**. miR-146b-5p has a sex-specific role in renal and cardiac pathology in a rat model of chronic kidney disease. *Kidney Int*. 2019 Dec;96(6):1332-1345. PMID: 31668631.

MacKay, M. J., Hooker, A. C., Afshinnekoo, E., Salit, M., Kelly, J., Feldstein, J. V., Haft, N., Schenkel, D., Nambi, S., Cai, Y., Zhang, F., Church, G., Dai, J., Wang, C. L., Levy, S., Huber, J., Ji, H. P., **Kriegel, AJ**, Wyllie, A. L., & Mason, C. E. The COVID-19 XPRIZE and the need for scalable, fast, and widespread testing. *Nature biotechnology*, 38(9), 1021–1024. PMID: 32820257.

Adam RJ, Paterson MR, Wardecke L, Hoffmann BR, **Kriegel AJ**. Functionally Essential Tubular Proteins are Lost to Urine-Excreted, Large Extracellular Vesicles During Chronic Renal Insufficiency. *Kidney360*. 2020 Oct;1(10):1105-1115. Epub 2020 Oct 29. PMID: 34263177

Klemens CA, Chulkov EG, Wu J, Hye Khan MA, Levchenko V, Flister MJ, Imig JD, **Kriegel AJ**, Palygin O, Staruschenko A. Loss of Chloride Channel 6 (CLC-6) Affects Vascular Smooth Muscle Contractility and Arterial Stiffness via Alterations to Golgi Calcium Stores. *Hypertension*. 2021 Feb;77(2):582-593. PMID: 33390052

Spires DR, Palygin O, Levchenko V, Isaeva E, Klemens CA, Khedr S, Nikolaienko O, **Kriegel A**, Cheng X, Yeo JY, Joe B, Staruschenko A. Sexual dimorphism in the progression of type 2 diabetic kidney disease in T2DN rats. *Physiol Genomics*. 2021 Jun 1;53(6):223-234. PMCID: PMC8285576

Moore KJM, Cahill J, Aidelberg G, Aronoff R, Bektaş A, Bezdán D, Butler DJ, Chittur SV, Codyre M, Federici F, Tanner NA, Tighe SW, True R, Ware SB, Wyllie AL, Afshin EE, Bendesky A, Chang CB, Dela Rosa R 2nd, Elhaik E, Erickson D, Goldsborough AS, Grills G, Hadasch K, Hayden A, Her SY, Karl JA, Kim CH, **Kriegel AJ**, Kunstman T, Landau Z, Land K, Langhorst BW, Lindner AB, Mayer BE, McLaughlin LA, McLaughlin MT, Molloy J, Mozsary C, Nadler JL, D'Silva M, Ng D, O'Connor DH, Ongerth JE, Osuolale O, Pinharanda A, Plenker D, Ranjan R, Rosbash M, Rotem A, Segarra J, Schürer S, Sherrill-Mix S, Solo-Gabriele H, To S, Vogt MC, Yu AD, Mason CE; gLAMP Consortium. Loop-Mediated Isothermal Amplification Detection of SARS-CoV-2 and Myriad Other Applications. *J Biomol Tech*. 2021 Sep;32(3):228-275. PMCID: PMC8802757

Park J, Foux J, Hether T, Danko DC, Warren S, Kim Y, Reeves J, Butler DJ, Mozsary C, Rosiene J, Shaiber A, Afshin EE, MacKay M, Rendeiro AF, Bram Y, Chandar V, Geiger H, Craney A, Velu P, Melnick AM, Hajirasouliha I, Beheshti A, Taylor D, Saravia-Butler A, Singh U, Wurtele ES, Schisler J, Fennessey S, Corvelo A, Zody MC, Germer S, Salvatore S, Levy S, Wu S, Tatonetti NP, Shapira S, Salvatore M, Westblade LF, Cushing M, Rennert H, **Kriegel AJ**, Elemento O, Imielinski M, Rice CM, Borczuk AC, Meydan C, Schwartz RE, Mason CE. System-wide transcriptome damage and tissue identity loss in COVID-19 patients. *Cell Rep Med*. 2022 Jan 24;3(2):100522. doi: 10.1016/j.xcrm.2022.100522. eCollection 2022 Feb 15. PMID: 35233546

Gohar EY, De Miguel C, Obi IE, Daugherty EM, Hyndman KA, Becker BK, Jin C, Sedaka R, Johnston JG, Liu P, Speed JS, Mitchell T, **Kriegel AJ**, Pollock JS, Pollock DM. Acclimation to a High-Salt Diet Is Sex Dependent. *J Am Heart Assoc*. 2022 Mar;11(5):e020450. doi: 10.1161/JAHA.120.020450. Epub 2022 Feb 22. PMID: 35191321

Adam RJ, Williams AC, **Kriegel AJ**. Comparison of the Surgical Resection and Infarct 5/6 Nephrectomy Rat Models of Chronic Kidney Disease. *Am J Physiol Renal Physiol*. 2022 Apr 4. doi:10.1152/ajprenal.00398. 2021. Online ahead of print. PMID: 35379002 Review.

Ilatovskaya DV, Levchenko V, Winsor K, Blass GR, Spires DR, Sarsenova E, Polina I, Zietara A, Paterson M, **Kriegel AJ**, Staruschenko A. Effects of elevation of ANP and its deficiency on cardiorenal function. *JCI Insight*. 2022 May 9;7(9):e148682. doi: 10.1172/jci.insight.148682. PMID: 35380994; PMCID: PMC9090260.

Patil CN, Ritter ML, Wackman KK, Oliveira V, Balapattabi K, Grobe CC, Brozoski DT, Reho JJ, Nakagawa P, Mouradian GC Jr, **Kriegel AJ**, Kwitek AE, Hodges MR, Segar JL, Sigmund CD, Grobe JL. Cardiometabolic effects of DOCA-salt in male C57BL/6J mice are variably dependent on sodium and nonsodium components of diet. *Am J Physiol Regul Integr Comp Physiol*. 2022 Jun 1;322(6):R467-R485. doi: 10.1152/ajpregu.00017.2022. Epub 2022 Mar 29. PMID: 35348007

Mukherjee D, Rana U, **Kriegel AJ**, Liu P, Michalkiewicz T, Konduri GG. Dysregulated microRNA-34c-Notch1 axis contributes to impaired angiogenesis in ovine fetal pulmonary hypertension. *Pediatr Res*. 2022 Jun 18. doi: 10.1038/s41390-022-02151-3. PMID: 35717485

Jensen DM, Han P, Mangala LS, Lopez-Berestein G, Sood AK, Liu J, **Kriegel AJ**, Usa K, Widlansky ME, Liang M. Broad-acting therapeutic effects of miR-29b-chitosan on hypertension and diabetic complications. *Mol Ther*. 2022 Nov 2;30(11):3462-3476. doi: 10.1016/j.ymthe.2022.08.007. Epub 2022 Aug 13. PMID: 35965413; PMCID: PMC9637778.

Chivers JM, Whiles SA, Miles CB, Biederman BE, Ellison MF, Lovingood CW, Wright MH, Hoover DB, Raafey MA, Youngberg GA, Venkatachalam MA, Zheleznova NN, Yang C, Liu P, **Kriegel AJ**, Cowley AW Jr, O'Connor PM, Picken MM, Polichnowski AJ. Brown-Norway chromosome 1 mitigates the upregulation of pro-inflammatory pathways in mTAL cells and subsequent age-related CKD in Dahl SS/JrHsdMcwi Rats. *Am J Physiol Renal Physiol*. 2022 Dec 8. doi: 10.1152/ajprenal.00145.2022. Epub ahead of print. PMID: 36475869.

BOOK CHAPTERS

Kristie S. Usa, Yong Liu, Terry Kurth, **Alison J. Kriegel**, David L. Mattson, Allen W. Cowley Jr., and Mingyu Liang. (2017). Renal Delivery of Anti-microRNA Oligonucleotides in Rats. *Hypertension: Methods and Protocols, (Methods Mol Biol.)* 1527:409-419. 2.

Yong Liu, **Alison J. Kriegel**, Mingyu Liang. (2019). Library Preparation for Multiplexed Reduced Representation Bisulfite Sequencing with a Universal Adapter. Methylation and Epigenetics in Rat, *Methods Mol Biol.* 177-194

EDITORIALS, LETTERS TO EDITOR, OTHER

Kriegel AJ. Connecting the Bench and Bedside. *AHA/ASA Connections*, quarterly newsletter, Fall 2017, pg. 39.