

CURRICULUM VITAE

Andrew Seth Greene, Ph.D.

The Robert D. and Patricia E. Kern
Professor in Biotechnology and Bioengineering
Professor, Department of Biomedical Engineering and
Professor, Department of Physiology and
Professor, Department of Biophysics and
Professor, Pharmacy School
Medical College of Wisconsin

Adjunct Professor, Department of Biomedical Engineering, Marquette University
Adjunct Professor Department of Biomedical Engineering, University of Wisconsin, Milwaukee

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Milwaukee, Wisconsin 53226
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PLACE OF BIRTH: New York, New York

CITIZENSHIP: USA

EDUCATION: Graduate School: Ph.D. Biomedical Engineering, 1980- 1985
The Johns Hopkins University School of Medicine, Baltimore, Maryland
Thesis title: Simultaneous Determination of Cardiac Function and Venous
Return Curves

Undergraduate: B.S., Biomedical and Electrical Engineering, 1976-1980
Syracuse University, Syracuse, New York Summa cum Laude, Tau Beta Pi

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

Postdoctoral Fellowship, 1985 - 1986
Department of Physiology
Medical College of Wisconsin
Milwaukee, Wisconsin
Dr. Allen W. Cowley, Jr., Advisor

Postdoctoral Fellowship, 1985
Department of Biomedical Engineering
The Johns Hopkins University School of Medicine,
Baltimore, Maryland
Dr. Artin A. Shoukas, Advisor

LEADERSHIP TRAINING:

- 2013 Leadership for Social Inclusion and Equity
National Coalition Building Institute
Washington, DC
- 2012 Communication and Conflict Resolution Center
for Academic Leadership Support University of
Wisconsin
- 2010 Academic Leadership that Benefits Learners
Lighthouse Academic Training Institute
Framingham, Massachusetts
- 2009 Pathways to Leadership: Developing Critical Skills
American Physiological Society Workshop Bethesda,
Maryland
- 2008 Team Leadership Training Program
General Electric
Waukesha, Wisconsin

FACULTY APPOINTMENTS:

- 2016-present Professor, Department of Biomedical Engineering
Marquette University and Medical College of Wisconsin
Milwaukee, Wisconsin
- 2015-present Adjunct Professor, Department of Biomedical Engineering
University of Wisconsin- Milwaukee
Milwaukee, Wisconsin
- 2011-present Dr. Robert D. and Dr. Patricia E. Professor of Biotechnology and
Bioengineering
- 1998-2016 Professor, Department of Physiology
Medical College of Wisconsin, Milwaukee, Wisconsin
- 1998-present Professor, Department of Biophysics
Medical College of Wisconsin, Milwaukee, Wisconsin
- 1987-2016 Adjunct Professor, Department of Biomedical Engineering, Marquette
University, Milwaukee, Wisconsin
- 1998 Visiting Professor, Sao Paulo University
PROINTER Program, Sao Paulo, Brazil
- 1991-1998 Associate Professor with Tenure, Department of Physiology
Medical College of Wisconsin, Milwaukee, Wisconsin
- 1990 Visiting Professor, Semmelweis University
Second Institute of Physiology and Experimental Research Department
Budapest, Hungary

1986-1991 Assistant Professor, Department Physiology
Medical College of Wisconsin, Milwaukee, Wisconsin

ADMINISTRATIVE APPOINTMENTS:

2016-present Interim Vice-Chair of Clinical and Research Affairs
Department of Biomedical Engineering
Marquette University and Medical College of Wisconsin

2009-present Founding Director, Innovation Center
Medical College of Wisconsin

2005-2015 Director, Translational Technologies,
Clinical Translational Science Institute (CTSI) of Southeast Wisconsin
Medical College of Wisconsin

2005-2010 Director, Joint Undergraduate Program in Bioinformatics
Medical College of Wisconsin

2003-2010 Director, NHLBI Proteomics Center,
Medical College of Wisconsin

2002-2016 Founding Director, Biotechnology and Bioengineering Center,
Medical College of Wisconsin

1995-present Founding Director of Physiology Research Services
Core, Medical College of Wisconsin

EDUCATIONAL ADMINISTRATIVE POSITIONS:

2009-2014 Director, Training Program in Inflammation and
Infection in Cardiovascular Diseases
Medical College of Wisconsin

2000-present Co-Director, Training Program in Integrated Physiology
Medical College of Wisconsin

1991-2017 Director Graduate Student Recruitment
Department of Physiology
Medical College of Wisconsin

ACADEMIC HONORS AND AWARDS:

2018 Distinguished Lectureship in Physiological Genomics, American Physiological
Society

2017 Outstanding Mentor Award, MCW

2015 Elected member of Alpha Omega Alpha

2015 Elected fellow of American Physiological Society

2014 Keynote speaker 48th Lake Kawaguchi Conference of Cardiology in Japan.

2011 Dr. Robert D and Patricia E Kern Professorship in Biotechnology and
Bioengineering

2006	Outstanding Mentor Award, MCW
2000	MCW Society of Teaching Scholars, Elected member
1997, 2001	National Institutes of Health, Surgery and Bioengineering Study Section, Ad. Hoc. Member
1998-2002	National Institutes of Health Protein Production, Structure and Function Study Section, regular member
1998	Harry Beckman Basic Science Teaching Award, Medical College of Wisconsin
1997	National Academy of Sciences - Models Symposium Invited Speaker, President's Symposium Speaker, Vascular Biology - Microcirculation
1996	NASA Life Sciences Advisory Council member
1994	Elected Fellow, American Heart Association - Hypertension Council
1994	Student Choice Teaching Award, Medical College of Wisconsin
1992	Elected Fellow, American Physiological Society – Cardiovascular Section
1990	Keynote Speaker, Hungarian Physiological Society
1989-2001	Grant Reviewer, American Heart Association Wisconsin Affiliate
1989	FASEB symposium, Oxygen transport to tissue The Johns Hopkins University
1987-1988	American Heart Association Research Award
1985-1986	American Heart Association Postdoctoral Fellowship Award
1984	Winner Caroline tum Suden Award of the American Physiological Society
1984	Alliance for Engineering in Medicine and Biology Student paper competition: First place
1981-1985	NRSA Scholarship award for graduate study
1980	Elected member Tau Beta Pi, national engineering honor society
1980	B.S. Syracuse University Summa cum Laude
1978-1980	Syracuse University, William Boulier Scholarship, award recipient

MEMBERSHIPS IN PROFESSIONAL AND HONORARY SOCIETIES:

American Physiological Society - Fellow
American Heart Association, Council for High Blood Pressure Research - Fellow
Microcirculatory Society
Sigma XI Society
American Association for the Advancement of Science
Alliance for Engineering in Medicine and Biology
Biomedical Engineering Society

EDITORIAL BOARDS:

2016-present	American Physiological Society, Publications Committee
2015-present and 2006-2008	Consulting Editor, Physiological Genomics

2009-2015	Editor-in-Chief, Physiological Genomics
2003-2006	Associate Editor, Physiological Genomics
2002-present	Editorial Board, Microcirculation
1998-2001	Associate Editor, American Journal of Physiology Heart and Circulatory Physiology
1998-2001	Editorial Board, Journal of Vascular Research

INVITED REVIEWER:

American Journal of Physiology
Annals of Biomedical Engineering
Canadian Journal of Physiology and Pharmacology
Cell
Circulation
Circulation Research
Hypertension
IEEE transactions on Biomedical Engineering
Journal of Vascular Biology
Journal of Vascular Research
Life Sciences
Microcirculation
Microcirculatory Research
Molecular and Cellular Proteomics
Nature Biotechnology
Nature Medicine
Physiological Genomics
PLOS
Proteomics
Science
The Journal of Pharmacology & Experimental Therapeutics

REGIONAL/LOCAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2015-2016	<u>Chair</u> , Biomedical Engineering Joint Department Steering Committee, Marquette University, MCW
2012-2014	Biomedical Engineering Chair Search Committee, Marquette University, member
2009-present	Milwaukee School of Engineering Industrial Advisors Board, member
2007-2012	<u>Treasurer</u> , Board of Education, Kettle Moraine School District
2003-2009	Milwaukee School of Engineering Molecular Biotechnology Advisory Board,

member

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2015-present	Publications Committee: American Physiological Society
2016-present	Steering Committee: American Physiological Society Teaching Section
2011-2015	Advisory Board Member, Translational Research Centers: NIH
2004-2006	American Physiological Society: Career Opportunities in Physiology Committee
2003-2009	Microcirculatory Society: Publications Committee
2000-2003	Councilor: Biomedical Engineering Commission: IUPS
2000- 2013	South Dakota Biomedical Research Infrastructure Network, Consultant
1999-2005	Bioengineering Commission International Union of Physiological Sciences
1997-2004	Merck & Co., Inc., National Consultant for Angiotensin II Research

MEDICAL COLLEGE OF WISCONSIN FACULTY COMMITTEES:

2017-present	Rank Committee, School of Pharmacy
2017-2018	Chair of Physiology Search Committee
2017-present	Curriculum Evaluation Committee, member
2016-present	<u>co-Chair</u> , faculty recruitment committee, BME
2016-present	<u>Chair</u> , research committee, BME
2016-present	Research Computing Advisory Committee, member
2014-present	Cardiovascular Center, Internal Advisory Committee
2014-2016	Research Council, MCW
2013-2015	<u>Chair</u> , Multi-Institutional Biomedical Engineering Consortium
2002-2016	Executive Committee of the Faculty, MCW
2015-2016	<u>Chair</u> , Inter-institutional Collaborative Research Committee
2014-2016	MCW Research Leadership Council, elected center representative
2013-present	Foundations Award Task Force, MCW Foundation and Office of Research, member
2012-present	Research Leaders Advisory Committee, member
2011-2013	Dean's Center and Department Workgroup
2012-present	Foundation Support Task Force Committee
2012-present	Commencement Committee, member
2011-2012	Dean's Study Group of Medical College Wisconsin Centers, member
2011-2012	Search Committee- Director of MCW Information Technology Director
2011-present	Internal Advisory Board Member, Translational Research Center
2010-2012	Curriculum Evaluation Committee, member
2010-2013	<u>Chair</u> , President and Dean's IT Strategic Planning Committee

2010	Search Committee – Chair Medicine
2009-2010	<u>Chair</u> , President’s and Dean’s IT advisory Committee
2009	<u>Chair</u> , Search Committee Chair of Biochemistry Department
2009	Task Force: leveraging NIH’s Research Agenda
2009-2012	Research Leadership Council
2006-2012	<u>Director</u> , CTSI Translational Technologies Key Function
2009	<u>Chairman</u> , Biochemistry Chair Search Committee
2009-2011	<u>Chairman</u> , Educational Pathway Committee: Care Team
2009-2011	Deans Educational Innovation Advisory Committee, member
2009	TBRC Build-out committee, member
2008-2012	Curriculum Evaluation Committee, member
2008-2010	<u>Chairman</u> , Director Academic IT Search Committee
2007-present	<u>Director</u> , Kern Innovation Center
2007-2016	Executive Committee of the Faculty, member
2005-2006	<u>Chairman</u> , Information Systems Advisory Committee
2003-2010	<u>Director</u> , NHLBI Proteomics Center
2004-2006	Strategic Planning Committee – Informatics, member
2004-2005	<u>Chairman</u> Information Systems Review
2004-2006	Strategic Issue Group, member
2003-2007	Informatics Oversight Committee, member
2003-2004	Basic Science Committee, member
2003-2007	Health Information Technology Advisory Committee member
2003-2007	Strategic Research Planning Committee, member
2002-present	<u>Director</u> , Biotechnology and Bioengineering Center
2002-present	<u>Director</u> , Student Recruitment, Department of Physiology
2000-2004	Consultant, Computer Resources Committee
2000-2003	Consultant, Library Committee
2000-2003	Faculty Welfare Committees
1999-present	Graduate Studies Council member
1999-2003	<u>Chairman</u> , Student Welfare Committee
1999-2001	<u>Director</u> , Physiological Genomics Initiative
1992-1993	Search Committee for Biophysics Chair, member
1990-2014	<u>Director</u> , Physiology Computer Core
1990-2014	<u>Director</u> , Physiology Machine and Electronics Core
1987-present	Graduate Committee, Department of Physiology, member
1987-1990	Research Affairs Committee, member

PATENTS AND INVENTIONS:

1. Methods of modulating angiogenesis and cancer cell proliferation, PCT/US2004/037754
2. Peptide identification, PCT/US2005/001696
3. Perfusion system for the growth of tissue sheets in cell culture, pending

CURRENT RESEARCH GRANTS, CONTRACTS, AWARDS, PROJECTS:

1. Principal Investigator; AHW; Developing Novel Programs in a Joint Biomedical Engineering Department; total award \$2,000,000; 8/1/16-9/30/21
2. Co-Investigator : NIH/NHLBI R01HL128242-01; Role of Nrf2 in Vascular Antioxidant Defense; Principal Investigator: Julian Lombard, Current year \$443,854; 8/17/2016-5/31/2020
3. Co-Principal Investigator, NIH T32; Integrated Physiology Training: Molecule to Organism, Principal Investigator: Hubert Forster total award \$1,522,8307/1/2018-6/31/2023:
4. Principal Investigator; Kern Family; Innovation Center for Mass Spectrometry; \$10,000,000; 2009-2019.
5. Co- Investigator; National Science Foundation; I-Corps Innovation Network; \$300,000; 2015-2018
6. Mentor; NIH K99; NIDDK K01 Award (Hoffmann, PI) ; Evaluation of Endothelial Hyperglycemia-driven Alterations During Type 2 Diabetes; 9/17/15-07/31/19
7. Mentor; NIH F30 (Exner) 1F30HL121153-01A1; Mechanisms of EPC Dysfunction in the SS Rat: Quantity over Quality; \$235,235; 7/1/16-6/30/20
8. Co-Investigator ; NIH; Role of microRNA-29b in regulating endothelial function in health and insulin resistant diabetes; 9/1/2015-4/30/2019

PENDING RESEARCH GRANTS, CONTRACTS, AWARDS, PROJECTS:

1. Principal Investigator; NIH, R01 HL134695-01; Molecular Networks Regulating Sex-Specific Angiogenesis and Hypertension; submitted 6/2018.
2. Principal Investigator R01 HL144799-01 The Physiological Role of Endothelial Progenitor Cells in Cardiovascular Homeostasis; submitted 6/2018
3. Principal Investigator; NIH R01; Endothelial Progenitor Cell Dysfunction in Therapeutic Transplant for Angiogenesis in Cardiac and Skeletal Muscle; to be submitted 2/2019

PAST RESEARCH GRANTS, CONTRACTS, AWARDS, PROJECTS:

1. Co-Investigator; NIH/NHLBI – HL29587-29; Blood Pressure - Determinants and Controllers; Principal Investigator: Allen Cowley. Current year \$89,464 (Core C); 02/28/13 – 03/01/18 (funded since 1988).
2. Principal Investigator (Project 3) and Core Director (Core C); NIH, SCOR; P01-HL082798; Genetic & Physiological Basis of Salt induced Hypertension; Current year \$416,106; 02/01/06-06-30-16 (funded since 1996) no cost extension.
3. Co-Investigator NIH/NHLBI P01 HL116264 Renal Mechanisms in Blood Pressure Control; Core C: Genetic Model Tracking and Monitoring Core; Salary only; 07/01/13 - 06/30/18

4. Principal Investigator Clinical & Translational Science Institute of Southeast Wisconsin (Greene, PI) Developing technologies for rapid production of individualized models of congenital cardiovascular diseases to facilitate clinical treatment. Total award \$50,000 04/01/17-03/31/18
5. Mentor; NIH K99AG039511-01A1; Proteomics of memory failure: unraveling the relationship between 'normal' brain aging and Alzheimer's disease; Principal Investigator: Catherine Kaczorowski. \$927,000 7/1/12-6/30/17.
6. Principal Investigator; USAID AID-OAA-G-14-00013 International Evidence Locker Redesign, Redevelopment, and Redeployment; 8/14/14-08/13/17
7. Co- Investigator; CVC/AHW; Pilot Grant - Microvesicle Affinity Group; \$50,000 7/1/2015-6/30/2016
8. Principal Investigator; Board of Regents- University of Wisconsin; I-Corps Award (Freudinger); \$2,400; 7/27/2015-7/26/2017
9. Principal Investigator; Board of Regents- University of Wisconsin; I-Corps Award (Cossette); \$2,400; 7/27/2015-7/26/2016
10. Co-Investigator, NIH/NHLBI; MicroRNA Ribonucleoprotein Complexes. Principal Investigator Mingyu Liang 4/1/2013-3/31/2014
11. Co-Investigator; CTSI; Advancement in the Diagnosis and Treatment of Granulomatous/Lymphocytic Interstitial Lung Disease Principal Investigator: John Routes 4/1/15-5/31/16 \$50,000
12. Co-Investigator NIH P50; GLILD in CVID; \$272,433 7/1/2014-6/30/2015
13. Director, Translational Technology Research (TTR) Project; NIH. Clinical and Translational Science Award. Principal Investigator: Reza Shaker. Current year \$402,014(TTR) 7/01/10 – 06/30/15
14. Co-Investigator; NIH P50 HG004952; Center of Excellence in Genomic Science (CEGS). Principal Investigator: Michael Olivier. Current year \$2,465,127 08/12/09-06/30/14.
15. Principal Investigator, NIH T32HL094273: Inflammation and Infection in Inherited and Acquired Cardiovascular Diseases. Current year \$112,396; 05/01/09 - 04/30/14.
16. Subcontract- Principal Investigator; Determinants of Self-Renewal, and Reprogramming of hESCs; Principal Investigator: James Thompson. Current year \$89,464 (Core C) 09/01/10-07/31/2013.
17. Principal Investigator; Akebia Therapeutics; To test the in-vivo efficacy of candidate compounds from Akebia in modulating angiogenesis in an established rat vascular density model. \$66,650 2009-2012.
18. Co-Investigator; NIH 1RC2HL101681-01; Mechanistic Characterization of genes for hypertension and renal disease; Principal Investigator: Howard Jacob. \$19,661 09/30/09-8/31/11.
19. Principal Investigator; NIH NO1-HV-28182 -06; Development of Novel Mass Spectrometry Tools for Individual Cell Proteome Analysis; \$1,704,016 annually, 2002 – 2010.
20. Co-investigator Project I, Component Director; NIH; Knock-out Rats for Physiological Genomics. \$1,933,333 annually 2004 – 2008.
21. Investigator; NCCR Shared Instrumentation Grant; Bruker Biospec 9.4T/40cm Bore MRI System; \$500,000 2002-2003.
22. Co-Principal Investigator; NIH Integrated Physiology Training; Molecule to Organism; \$1,043,122 total 1996-2005.

23. Co-Investigator; NIH MRI Contrast Agent; Methods to Assess Tumor Angiogenesis. \$18,628 annually 2000-2004.
24. Component Director; NIH Program in Genomic Applications; Physiogenomics of Stressors in Derived Consomic Rats; \$306,526 annually 2000-2004.
25. Principal Investigator; MCW Learning Resources; Computer Simulations for Physiology Teaching; \$10,000 2000-2001.
26. Co- Principal Investigator; NIH Biophysics of Functional MRI; Functional Magnetic Resonance Imaging of the Brain; \$618,481 total 1995-2004.
27. Principal Investigator; NIH; Microvascular Changes During Microgravity; \$83,319 annually 1994-1997.
28. Co- Principal Investigator; Department of Veterans Affairs; Cerebral Blood Flow Regulation In Vivo; \$93,300 annually 1993-1998.
29. Sponsor, Postdoctoral Fellowship award for Mark J. Rieder; American Heart Association. Functional; Consequences of Vascular Rarefaction in Contracting Skeletal Muscle; \$8,500 1993-1994.
30. Sponsor, Pre-Doctoral Fellowship Award for Diane H. Munzenmaier; American Heart Association; Mechanisms of the Effects of Angiotensin II on Blood Vessel Growth; \$8,500 1993-1994.
31. Sponsor, Post-Doctoral Fellowship Award for David M. O'Drobinak; American Heart Association; Vascular Rarefaction and Insulin Stimulated Glucose Uptake; \$35,000 1992-1994.
32. Co-Investigator; NIH Shared Instrumentation Grant; In vivo NMR spectroscopy and Imaging at 3.0 Tesla; \$200,000 1990.
33. Principal Investigator; Marion Merrell Dow; Acute and Chronic Effects of Beraprost Sodium on Muscle blood flow and Oxygen Delivery in Normal and Post-Ischemic Rats; \$12,203 1990.
34. Principal Investigator; Research Grant for Information and Technology; National Science Foundation Collaborative Exchange; \$85,342 1989-1993.
35. Principal Investigator; Medical College of Wisconsin; Development of in vivo Oxygen Imaging; \$15,278 1988. AHA Grant #87-GA-13; Microvascular Window Studies in Renal Hypertension; \$10,997 1987.
36. Consultant; NSF Grant #EET 8552518; Biomedical Imaging and Speech Coding in the Auditory Nerve; \$10,000 1987.

INVITED LECTURES/WORKSHOPS/PRESENTATIONS/SITE VISITS:

The Jackson Laboratories, Bar Harbor, 2018
Experimental Biology Meeting, San Diego, 2018
University of Wisconsin, 2017, 2018
MCW Cardiovascular Center Board of Directors, 2017,2018
Experimental Biology Meeting, Chicago, 2017
Milwaukee Engineering Research Conference, 2016
Marquette University, Biomedical Engineering, 2016

University of Wisconsin, Biomedical Engineering 2016

Medical College of Wisconsin Seminars: Departments of Physiology, Orthopedic Surgery, Neurosurgery, Cardiovascular Research Center, 2015

University of Wisconsin, Milwaukee, 2015

Milwaukee Academy of Medicine, 2015

Medical College of Wisconsin Seminars: Departments of Physiology, Medicine, Anesthesiology, Orthopedic Surgery, Neurosurgery, Pediatrics, Gastroenterology, 2014

Science Café Milwaukee Wisconsin, May 2013

Medical College of Wisconsin Seminars: Departments of Medicine, Anesthesiology, Hematology, Pediatrics, Gastroenterology, 2013

Johns Hopkins University, Baltimore, Maryland, April 2013

Future of Medical Education Docere program, Medical College of Wisconsin, January 2013

Milwaukee School of Engineering, Biomolecular Engineering, September 2012

Experimental Biology Meeting, San Diego California, April 2012

Spotlight on Science, Medical College of Wisconsin, August 2012

Science Café, Wauwatosa, Wisconsin, April 2011

University of Virginia, Cardiovascular Center, August 2010

Wisconsin Presidents Organization, Milwaukee, Wisconsin, September 2010

General Electric Health Care Institute, January 2009

University of Virginia Dept. of Biomedical Engineering, December 2009

Johns Hopkins School of Medicine, Baltimore, Maryland, March 7-9, 2009

PI Investigator Meeting, National Heart, Lung and Blood Institute, Charleston, SC, September 16-18, 2008

National Heart, Lung and Blood Institute Meeting, Charleston, SC, April 15-17, 2008

Experimental Biology Conference San Diego, CA, April 5-9, 2008

Safety Pharmacology Society Annual Meeting, Madison Wisconsin, September 23, 2008

APSUS Human Proteome Organization, Bethesda, MD, March 17-18, 2008

Angiotensin Gordon Research Conference – Emory University School of Medicine, “Angiotensin and Skeletal Muscle Angiogenesis”, Atlanta, GA, Feb 27, 2008

American Society of Nephrology, San Francisco, CA, Nov 5, 2007

Molecular genetics: approaches to microvascular research.” *Experimental Biology (FASEB 2004)*, Washington, D.C., April 17-21, 2004

University of Whitewater, WI, for the Colloquium, 2004

“Developing novel technologies for Proteomics directly from whole cells,” *Experimental Biology (FASEB 2004)*, Washington, D.C., April 17-21, 2004

HFSA 7th Annual Scientific Meeting, “Individual Cell Proteome analysis” 2003

University of Virginia, Charlottesville, VA, 2001

Angiotensin Gordon Conference, Ventura CA, 2001

International Society for Hypertension, Chicago, 2000

University of Mississippi, 2000

Biomedical Engineering Society, Atlanta, GA, 1999

Microcirculation Physiome, San Francisco, CA, 1998

National Academy of Sciences, Washington D.C., 1997

Vascular Biology '97, New Orleans, LA, 1997

St. Louis University, St. Louis, MO, 1997

Biomedical Engineering Society, State College, PA, 1996

University of Wisconsin School of Medicine Department of Physiology, Madison, WI, 1988

Gordon Conference, Angiotensin, Ventura, CA, 1996

NASA, Symposium on Gravitational Stress, Dallas, TX, 1995

University of Virginia, Department of Biomedical Engineering, Charlottesville, VA, 1993

Oakland University, Department of Biological Sciences, Rochester, MI, 1993

The Johns Hopkins University School of Medicine, Dept of Biomedical Engineering, Baltimore, MD, 1993

International Society for Heart Research, Burlington, VT, 1992

Biomedical Engineering Society, Charlottesville, VA, 1991

Duke University School of Medicine, Department of Radiology, Durham, NC, 1990

Marquette University Department of Mathematics, Statistics & Computer Science, 1988,

University of Maryland School of Medicine, Department of Physiology, Baltimore, MD, 1987, 1988, 1989

Barnes Hospital, Washington University School of Medicine, Department of Radiology, St. Louis, MO, 1988

The Johns Hopkins University School of Medicine, Department of Biomedical Engineering, Baltimore, MD, 1988, 1989

Washington University, Department of Electrical Engineering, St. Louis, MO, 1988

INTERNATIONAL INVITED LECTURES:

Kyushu University, Japan, July 2014

Keynote speaker 48th Lake Kawaguchi Conference of Cardiology in Japan, June 2014

University of Sao Paulo, Sao Paulo, Brazil, 2004

International Microcirculation Society, Stockholm, Sweden, 2001

International Union of Physiological Sciences, Christchurch, NZ, 2001

World Congress for Microcirculation, Sydney, Australia, 2001

World Congress of Microcirculation, Munich, Germany, 1996

Technical University of Budapest, Budapest, Hungary, 1990

Academy of Sports Medicine, Budapest, Hungary, 1990

Semmelweis University, Institute of Physiology, Budapest, Hungary, 1990

MEDICAL COLLEGE OF WISCONSIN TEACHING ACTIVITIES:

Advanced Systems Physiology for Biomedical Engineers (entire course with Brian Hoffmann, spring 2017, 2018)

Symptoms – Dyspnea and Heart Failure, medical school: 1 session annually, 2014-present
General Physiology, medical school and graduate school: between 6-18 lectures annually, 1987-present
Advanced Cardiovascular Physiology, graduate: developed course, taught entire course annually, 2008-present
Physiological Genomics, graduate: developed course, taught between 2-6 lectures annually 2001-present
Concepts in Scientific Research, high school; met weekly with students for entire academic year 2011-2013
Cardiovascular small group pilot, medical school: developed course with Joshua Meskin, taught 12 sessions 2010
Biochemistry-proteomics, graduate: 2 lectures annually 2009-2013
Bioinformatics, undergraduate: 4 lectures annually, 1998-2005
Laboratory Cardiovascular Simulation, medical school: 8 sessions annually 1986-2002
General Neuroscience, medical school: 1 lecture annually, 1995-2004
Advanced Systems Neuroscience, graduate: 2 lectures annually, 1995-2004
Mathematical Modeling in Biology, graduate: entire course with Peter Tonellato, 1990-1996
Computational Modeling in Physiology, undergraduate: entire course with Peter Tonellato, 1990-1993
Advanced Systems Physiology, graduate: developed and taught CV section (12 lectures) annually 1990-2008

RESEARCH INTERESTS AND EXPERIENCE:

Angiogenesis
Stem Cell Biology
Systems Biology
Bioinformatics
Biomedical Instrumentation
Cardiovascular Mechanics and Hemodynamics
Computer Applications to Measurement and Modeling in Physiology
Genetics of Complex Disease
In Vivo Nuclear Magnetic Resonance Spectroscopy and Imaging
Infection and Inflammation in CV disease
Neural and Endocrine Control of the Circulation
Proteomics
Radiologic Imaging
Renin-Angiotensin System
Vascular Remodeling in Hypertension

STUDENTS AND POST-DOCTORAL FELLOWS TRAINED: 43

Name	Current Position/Institution
Isabel Hernandez, M.D. 1994	Professor of Physiology and Medicine/Universidad de Murcia
Diane Munzenmaier, Ph.D. 1995	Program Director, Center for Biomolecular Modeling, MSOE

Mark Rieder, Ph.D. 1996	Senior Vice President/Adaptive Biotechnologies, Seattle, WA
David O'Drobinak, Ph.D. 1996	Professor of Biology/Valdosta State University, Georgia*
Canzater Gillespie, B.S. 1997	Teacher, Milwaukee Public Schools
James Alletto, Ph.D. 1998	Associate Professor/Western Kentucky University
Adrienne Lenz, M.A. 1998	Regulator Affairs Director/GE Healthcare, Waukesha, WI
Elizabeth Nora, Ph.D., M.D. 1998	Endocrinologist/Aurora Sheboygan Memorial Medical Center
Ron Gerrits, Ph.D. 1999	Professor of Biomedical Engineering, MSOE, Milwaukee
Sandra Amaral, Ph.D. 2001	Professor/ University of Sao Paulo, Bauru
J. Russel Linderman, Ph.D. 2001	Research Scientist, Navy/University of West Virginia
Jess Fedorowitz, M.D. 2001	Assistant Professor of Psychiatry/University of Iowa
Carlos Santos, Ph.D. 2002	Professor and Dean / University of Sao Paulo, Brazil
Jacklyn Bohman, B.S. 2002	Biomedical Engineer/ Clement J. Zablocki VA Medical Center, Milwaukee, Wisconsin
Melissa Morse (Agoudemos), Ph.D., M.D. 2002	Professor of Pediatric Cardiology/Southern Illinois University
Wayne Hicks, Ph.D. 2005	Staff Scientist/ Food and Drug Administration, Bethesda, MD
Sarah Nickoloff, M.D. 2005	Assistant Professor of Medicine/Medical College of Wisconsin
Matt Brown, M.D. 2007	Assistant Professor of Pediatric Cardiology/University of Texas
Julia Hayter (Smith), Ph.D. 2008	Customer Support Scientist/Bruker Daltronics Limited, Coventry, UK
Jonna Lindholm-Ventola, M.S. 2008	Technical Customer Service/Antilla Oy in Kerava, Finland
Matt Petersen, Ph.D. 2006	Associate Dean/Northeast Wisconsin Technical College
Julie Antczak-Freed, Ph.D. 2008	Fellow in Anesthesiology/Medical College of Wisconsin
Zhongmin Tian, Ph.D. 2009	Professor/Xi'an Jiaotong University, China
Alison Kriegel, Ph.D. 2009	Assistant Professor/Medical College of Wisconsin
Micheline Resende, Ph.D. 2010	Research Scientist, Stem Cell Center/Texas Heart Institute
Sarah Parker, Ph.D. 2011	Project Scientist/Cedars-Sinai, Los Angeles
Catherine Kaczorowski, Ph.D. 2012	Associate Professor/Jackson Laboratories
Jordan Wagner, B.S. 2013	Graduate Student/Johns Hopkins University
Ogugua Anene-Maidoh, M.D. 2013	Resident in Thoracic Surgery/Medical College of Wisconsin
Brian Hoffman, Ph.D. 2014	Assistant Professor / Medical College of Wisconsin
Tony Prisco, MD, PhD. 2015	Resident in Cardiology/ University of Minnesota
Jamie Karcher (Genthe), PhD. 2015	Postdoctoral Fellow/ St Jude Children's Research Hospital
Eric Exner, PhD. 2018	MSTP Student/Medical College of Wisconsin
Timothy Stodola, PhD. 2018	Postdoctoral fellow/Medical College of Wisconsin
Alicia Ivory, B.S.	MSTP Student/Medical College of Wisconsin
Kate Schmidt, M.D.**	

Allysa M. O'Farrell, M.D.**

Chris Razinski, B.S. **

Niraj Nagrami, M.S.**

Jean Peters, B.S. **

Anna Corey**

Evon Croen**

Chris Kleefish**

Kevin Murray**

(*deceased, ** Lost to follow-up)

STUDENT THESIS COMMITTEE:

49 Students at MCW, Marquette University, Children's Hospital, USP Brazil

Zhiwei Zhang, Computer Sciences, Marquette University	1989
Donald Jacobsen, Biophysics	1989
Suzanne Greenberg, Physiology	1991
Daniel Brown, Physiology	1991
James Wu, Biophysics	1992
Sharon Lu, Physiology	1993
Mary Pat Kunert, Physiology	1993
Sarah England, Physiology	1993
Eric Wong, Biophysics	1994
Michael Ibrahim, Biophysics	1994
Peter Bandettini, Biophysics	1994
Nabil Alkayed, Physiology	1995
Amadou Camara, Physiology	1995
James Christiansen, Biophysics	1996
Wen-Ming Lu, Biophysics	1998
David Weber, Physiology	1998
Tim Lowry, Physiology	1999
Tom Feroah, Physiology	2001
Arvind Pathak, Biophysics	2001
Jason Bently, Biomedical Engineering, Marquette University	2001
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Brian Chelowa, Physiology	2002
Frank Sylvester, Physiology	2002
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Matt Hodges, Physiology	2004
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Christian Wietholt, Biomedical Engineering, Marquette University	2004
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Carlos Santos, Pharmacology, USP Brazil	2005
Amit Indap , Biomedical Engineering, Marquette University	2005
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Matt Brown, Children's Hospital	2006
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Amy Cayenberg, Physiology	2010
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Matt Thompson, Physiology	2012
John Savaryn, Microbiology and Molecular Genetics	2012
Scott Canfield, Physiology	2013
Sandra Brown-Ford, Physiology	2013
Tarin Bigley, Microbiology and Molecular Genetics	2014
Jessica Priestly, Physiology	2014
Maxime Heroux, Biochemistry	2015
Michael Larson, Biophysics	2014
Scott Bugenhagen, Physiology	2014
Sasha Prisco, Physiology	2014
Bryce Schuler, Microbiology and Molecular Genetics	2015
Luis Paniagua, Biochemistry	2015
Dominique Carter, Microbiology and Molecular Genetics	2016
Andrew Kadlec, Physiology	2017
Alexander Dayton, Physiology	2017
Brittany Wade, Physiology	2017
Kristen Westdorp, Microbiology and Molecular Genetics	2017
Shauna Rasmussen, Physiology	2017
John Bukowy, Physiology	2018

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Cody Plasterer, Physiology

Cagatay Dursun, Biomedical Engineering

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ABSTRACTS (PARTIAL LIST):

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