

# **CURRICULUM VITAE**

**Pablo Nakagawa, PhD**  
**Assistant Professor of Physiology**

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## **EDUCATION:**

03/2002 – 07/2008 BS/MS, University of Buenos Aires, Buenos Aires, Argentina  
09/2010 – 04/2014 PhD, University of Buenos Aires, Buenos Aires, Argentina

## **POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:**

12/2007 – 03/2008 Clinical Training in Biochemistry, Hematology, Hemostasis, and Parasitology, Evita Hospital, Buenos Aires, Argentina.  
12/2006 – 02/2009 Undergraduate Research Fellow, Department of Biological Chemistry, University of Buenos Aires, Buenos Aires, Argentina.  
03/2009 – 06/2014 Predoctoral fellow, Department of Internal Medicine, Division of Hypertension and Vascular research, Henry Ford Hospital, Detroit, MI.  
07/2014 – 08/2016 Research Instructor/Scientist (mentored position), Department of Internal Medicine, Division of Hypertension and Vascular research, Henry Ford Hospital, Detroit, MI.  
09/2016 – 01/2019 Postdoctoral Fellow, Department of Pharmacology, University of Iowa, Iowa City, IA  
02/2019 – 06/2020 Postdoctoral Fellow, Department of Physiology, Medical College of Wisconsin, Wauwatosa, WI

## **FACULTY APPOINTMENTS:**

07/2020 – 12/2021 Instructor, Department of Physiology, Medical College of Wisconsin, Milwaukee, WI

|                 |                                                                                   |
|-----------------|-----------------------------------------------------------------------------------|
| 01/2022-12/2022 | Assistant Professor (Research Track), Medical College of Wisconsin, Milwaukee, WI |
| 01/2023-Present | Assistant Professor (Tenure Track), Medical College of Wisconsin, Milwaukee, WI   |

#### **AWARDS AND HONORS:**

|      |                                                                                                                               |
|------|-------------------------------------------------------------------------------------------------------------------------------|
| 2012 | Henry Ford Hospital - Research Symposia, First Place Award, best research presentation in physiology and pathophysiology      |
| 2012 | American Heart Association - Council of High Blood Pressure, Poster Award                                                     |
| 2018 | Gordon Conference Travel Award                                                                                                |
| 2019 | Medical College of Wisconsin - Research Day poster competition, Outstanding Presentation Award                                |
| 2019 | Medical College of Wisconsin - Postdoc Advisory Committee, Travel Award                                                       |
| 2020 | American Heart Association - Hypertension Scientific Sessions, AFHRE Travel Grants for Support of Underrepresented Minorities |
| 2022 | American Physiological Society – Neural Control and Autonomic Regulation, New Investigator Award                              |
| 2023 | Stephanie Watts Career Development Award – Finalist                                                                           |
| 2024 | Medical College of Wisconsin – Cardiovascular Center, Michael Keelan Award                                                    |

#### **MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:**

|                |                                       |
|----------------|---------------------------------------|
| 2010 – Present | American Heart Association            |
| 2019 – Present | American Physiological Society        |
| 2021 – Present | International Society of Hypertension |

#### **EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:**

##### Editorial Board

|              |                         |
|--------------|-------------------------|
| 2018-Present | Hypertension            |
| 2020-Present | Biomolecules            |
| 2023-Present | Frontiers in Physiology |
| 2024-Present | AJP-Cell Physiology     |

##### Ad-hoc Review

|              |                                                    |
|--------------|----------------------------------------------------|
| 2019-Present | Cellular and Molecular Neurobiology                |
| 2019-Present | Food                                               |
| 2020-Present | Journal of Hypertension                            |
| 2021-Present | Journal of Physiology and Biochemistry             |
| 2021-Present | Pharmacology Research & Perspectives               |
| 2021-Present | Clinical Science                                   |
| 2021-Present | Front. Cardiovasc. Med                             |
| 2022-Present | Circulation Research                               |
| 2022-Present | iScience (Cell Press)                              |
| 2022-Present | Frontiers Physiology                               |
| 2022-Present | Endocrinology                                      |
| 2023-Present | Arteriosclerosis, Thrombosis, and Vascular Biology |

2023-Present Cardiovascular Research  
2023-Present American Journal of Physiology-Heart and Circulatory Physiology  
2023-Present Physiological Genomics  
2024-Present Journal of American Heart Association

#### **NATIONAL/INTERNATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

2017-2022 Trainee Advocacy Committee, AHA Council on Hypertension  
2020-Present Member of Regional Advisory Group (RAS), International Society of Hypertension  
2022-Present Steering Committee, Gordon Research Conference in Angiotensin  
2023-2024 Membership Committee Commission, AHA Council on the Kidney in Cardiovascular Disease

#### **RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**

##### **Active**

##### **Peer Review**

Title: Role of the prorenin receptor in blood pressure and autonomic control through the local activation of the renin angiotensin system in the brainstem.

Source: NIH / NHLBI

Grant Number: HL153101

Role: Principal Investigator

Dates: 8/1/2020 – 7/31/2025

Direct Funds: \$520,735 (total for 5 years)

Title: Role of renin-expressing neurons in blood pressure and autonomic control

Source: AHA

Grant Number: 23CDA1048244

Role: Principal Investigator

Dates: 4/1/2023 – 3/31/2026

Direct Funds: \$231,000 (total for 3 years)

Title: Role of the brain renin angiotensin system in neuroinflammation

Source: AHW

Grant Number: 5520639

Role: Principal Investigator

Dates: 2022-2026

Direct Funds: \$500,000 (total for 4 years)

Title: New tools to investigate renin in the brain

Source: MCW Cardiovascular Center

Role: Principal Investigator

Dates: 7/1/2024 – 6/3-/2025

Direct Funds: \$50,000 (total for 1 year)

## Prior

### Peer Review

Title: Effect of Acetyl-Aspartyl-Seryl-Lysyl-Proline in hypertension associated with autoimmunity

Source: AHA

Role: PI

Dates: 2013 – 2014

Direct Funds: \$52,000 (total for 2 years)

Title: T32 Ruth L. Kirschstein National Research Service Institutional Research Training Grant – Renal Institutional Research Fellowship at University of Iowa

Source: NIH / NIDDK

Role: PI

Dates: 2016 – 2017

Title: T32 Ruth L. Kirschstein National Research Service Institutional Research Training Grant - Cardiovascular Institutional Research Fellowship at University of Iowa

Source: NIH / NHLBI

Role: PI

Dates: 2018 – 2019

Title: T32 Ruth L. Kirschstein National Research Service Institutional Research Training Grant - Training in Signature Transdisciplinary Cardiovascular Sciences at Medical College of Wisconsin

Source: NIH / NHLBI

Role: Trainee

Dates: 2019 – 2020

Title: Angiotensinergic Signaling Mechanisms Integrating Neural Control of Cardiovascular, Metabolism and Respiration

Source: AHW

Role: Co-Investigator

PI: Dr. Curt D. Sigmund

Dates: 2021 – 2023

Direct Funds: \$250,000 (total for 2 years)

## INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

### International

- |         |                                                                                                                                                                                                                         |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/2022 | <b>Nakagawa P.</b> The elusive renin in the brain. Invited speaker at the Gordon Research Conference in Angiotensin 2022, Ventura, CA.                                                                                  |
| 04/2023 | <b>Nakagawa P.</b> Identification and characterization of the novel renin-expressing neurons in the nucleus ambiguus. Invited at the Cardiovascular Endocrinology and Metabolism Annual Scientific Meeting 2023, Japan. |

- 04/2024 **Nakagawa P.** Generación de Angiotensina II en el sistema nervioso central. Invited at Universidad Autónoma de Chile and Universidad de San Sebastián.
- 09/2024 **Nakagawa P.** New Approaches and Insights in the Renin-Angiotensin System. Invited at the 2024 International Society of Hypertension meeting.

### **National**

- 04/2015 **Nakagawa P**, Liao T-D, Worou ME, Basha H, Peterson EL, Janic B, Yang XP, Rhaleb N-E and Carretero OA. N-Acetyl-Seryl-Aspartyl-Lysyl-Proline (Ac-SDKP) Delays the Development of Hypertension and Renal Damage in Systemic Lupus Erythematosus (SLE). Oral presentation in Experimental Biology 2015, Boston, MA.
- 04/2015 **Nakagawa P**, Xu J, Bordcoch G, Janic B, and Carretero OA. Inhibition of neutrophil chemotaxis by N-Acetyl-Seryl-Aspartyl-Lysyl-Proline and thymosin  $\beta$ 4. Oral presentation in Experimental Biology 2016, San Diego, CA.
- 09/2018 Seara F, **Nakagawa P**, Gomez JA, Deng G, Sebag JA, Karnik SS, Grobe JL, Sigmund CD. DOCA induced natriorexigenic and hypertensive effects are blunted by central infusion of AT1 receptor biased agonist TRV120027. Oral presentation in AHA Hypertension Scientific Sessions 2018. Chicago, IL.
- 09/2019 **Nakagawa P**, Nair A, Zhang SY, Lu KT, Zanaty M, Gomez J, Grobe J, and Sigmund CD. Susceptibility of Mice Lacking Renin-b to Chronic Angiotensin II Infusion. Oral presentation in AHA Hypertension Scientific Sessions 2019. New Orleans, LA.
- 12/2020 **Nakagawa P**, Invited Seminar at Emory University, School of Medicine. Renal Grand Rounds.
- 06/2021 **Nakagawa P**, Invited Seminar at Augusta University, Vascular Biology Center. Vascular Metabolic Group Meeting
- 09/2021 **Nakagawa P**, Invited Seminar at University of Nevada Reno, Department of Pharmacology.
- 09/2021 **Nakagawa P**, Invited Seminar at Augusta University, Department of Physiology.
- 04/2022 **Nakagawa P**, Brozoski D, Mathieu NM, Lu KT, Gomez J, Reho J, Fang S, Segar JL, Grobe JL, and Sigmund CD. Deletion of Prorenin Receptor in the Rostral Ventrolateral Medulla Results in Biphasic and Sex-Dependent Pressor Responses in Deoxycorticosterone Acetate-salt Hypertension. Oral presentation in Experimental Biology, Philadelphia, PA.
- 09/2022 **Nakagawa P**. “Angiotensin & the brain” Rising Start Lecture. AHA Hypertension Scientific Sessions 2022, San Diego, CA.
- 02/2024 **Nakagawa P**. Elucidating the role of renin in the central nervous system. Invited by the Grad Students committee at the University of Kentucky.
- 12/2024 **Nakagawa P**. Hypertension SCILL Committee’s Webinar: “How Does the Renin-Angiotensin System Operate Within the Brain?”

### **Local**

- 05/2012 **Nakagawa P**, N-E Rhaleb, Chen X, Liao T-D, Smolarek D, Bobbitt KR, Peterson E, Yang X-P, Liu YH, Carretero OA. Effects of N-Acetyl-Seryl-Aspartyl-Lysyl-Proline on Experimental autoimmune myocarditis. 9th Annual Research Symposium of Henry Ford Health System, MI.
- 02/2024 **Nakagawa P**. Involvement of renin-expressing neurons in cardiovascular function and autonomic control. Invited by the Neuroscience Research Center at MCW.

### **PEER-REVIEWED WORKSHOPS/PRESENTATIONS:**

#### **International**

1. **Nakagawa P**, Gomez J, Shinohara K, Grobe JL, Rahmouni K, and Sigmund CD. Mice lacking the brain-specific renin isoform renin-b may be model of stress-induced hypertension. 2018 Angiotensin Gordon Research conference. February 2018. Ventura, CA.
2. **Nakagawa P**, Nair AR, Agbor LN, Gomez J, Morgan DA, Rahmouni K, Grobe JL, Sigmund CD. Susceptibility of Mice Lacking Renin-b to Chronic Angiotensin II Infusion. 2020 Gordon Research Conference and Seminar in Angiotensin at Lucca (Barga), Italy.
3. Fekete EM, Muskus PC, Hantke Guixa A, Xie M, Gomez RA, Grobe JL, Sigmund CD, and **Nakagawa P**. New Tools to Study Renin in the Brain. 2024 Gordon Research Conference and Seminar in Angiotensin at Lucca (Barga), Italy.

#### **National**

1. Gonzalez GE, Liu Y-H, **Nakagawa P**, Liao T-D, Yang X-P, Rhaleb N-E, Carretero OA. In angiotensin II induced hypertension Ac-SDKP reduces cardiac inflammation, NF-kB expression, lysyl oxidase expression and cross-linked collagen. Hypertension 56: (5), 005. E54, 2010.
2. **Nakagawa P**, Liu Y-H, Liao T-D, Gonzalez GE, Yang X-P, Rhaleb N-E, Carretero OA. N-Acetyl- Seryl-Aspartyl-Lysyl-Proline ameliorates the severity of experimental autoimmune myocarditis in rats. Hypertension 56: (5) P100. E76, 2010.
3. Gonzalez GE, Liu Y-H, **Nakagawa P**, Liao T-D, Yang X-P, Rhaleb N-E, Carretero OA. Ac-SDKP reduces cardiac cross-linked collagen NF-kB expression, inflammation, and lysyl oxidase expression in angiotensin II induced hypertension. 2010 Westminster, Colorado APS Conference: Inflammation, immunity and cardiovascular disease meeting.
4. **Nakagawa P**, Liu Y-H, Liao T-D, Gonzalez GE, Yang X-P, Rhaleb N-E, Carretero OA. N-Acetyl-Seryl-Aspartyl-Lysyl-Proline ameliorates the severity of experimental autoimmune myocarditis in rats. 2010. Westminster, Colorado APS Conference: Inflammation, immunity and cardiovascular disease meeting.
5. Rhaleb N-E, Yang X-P, Peng H, Xu J, Liu Y-H, **Nakagawa P**, Leung P, Carretero OA. Effects of Ang II-induced hypertension on the heart in mice with Th1/Th2 profiles. 2010 Westminster, Colorado APS Conference: Inflammation, immunity and cardiovascular disease meeting.

6. **Nakagawa P**, N-E Rhaleb, Chen X, Liao T-D, Smolarek D, Yang X-P, Liu Y-H, Carretero OA. Effect of N-Acetyl-Seryl-Aspartyl-Lysyl-Proline on intercellular adhesion molecule 1 and proinflammatory cytokines and chemokines in experimental autoimmune myocarditis. Experimental Biology 2012, San Diego, CA.
7. Carretero OA, **Nakagawa P**, Rhaleb NE. Ac-SDKP in hypertension and experimental autoimmune myocarditis. 3th Annual symposium on thymosins in health and disease. 2012 Washington, DC.
8. **Nakagawa P**, N-E Rhaleb, Chen X, Liao T-D, Smolarek D, Bobbitt KR, Peterson E, Yang X-P, Liu YH, Carretero OA. Effects of N-Acetyl-Seryl-Aspartyl-Lysyl-Proline on Experimental autoimmune myocarditis. High Blood Pressure Research 2012 Scientific Sessions. September of 2012, Washington, DC.
9. Liao TD, **Nakagawa P**, D'ambrosio M, Rhaleb N-E, Yang X-P, Carretero OA. N-Acetyl-Seryl-Aspartyl-Lysyl-Proline (Ac-SDKP) Prevents the Progression of Renal Dysfunction in Mice with Lupus (MRL/lpr). Experimental Biology 2013, San Diego, CA.
10. Worou ME, D'Ambrosio M, Liao TD, **Nakagawa P**, Rhaleb N-E, Carretero OA. Protective effects of N-acetyl-seryl-aspartyl-lysyl-proline (Ac-SDKP) on renal damage in Dahl Salt-Sensitive Rats. High Blood Pressure Research 2014 Scientific Sessions, San Francisco, CA.
11. **Nakagawa P**, Liao T-D, Worou ME, Basha H, Peterson EL, Janic B, Yang XP, Rhaleb N-E and Carretero OA. N-Acetyl-Seryl-Aspartyl-Lysyl-Proline (Ac-SDKP) Delays the Development of Hypertension and Renal Damage in Systemic Lupus Erythematosus (SLE). Experimental Biology 2015, Boston, MA.
12. **Nakagawa P**, Bordcoch G, D'Ambrosio M, Jiang X, and Carretero OA. Effects of N-Acetyl-Seryl-Aspartyl-Lysyl-Proline on inflammatory cells during the acute stage of myocardial infarction. Hypertension. 2016;68:A028
13. **Nakagawa P**, Gomez J, Shinohara K, Morgan DA, Grobe JL, Rahmouni K, and Sigmund CD. Deletion of brain-specific isoform of renin (renin-b) increases resting metabolic rate by stimulating brown adipose tissue sympathetic nerve activity. Experimental Biology 2017, Chicago, IL.
14. **Nakagawa P**, Agbor LN, Nair AR, Gomez J, Hu C, Wu J, and Sigmund CD. Effects of high salt diet on vascular function and renal injury in a novel mouse model of neurogenic hypertension. High Blood Pressure Research 2017 Scientific Sessions. September of 2017, San Francisco, CA.
15. Gomez J\*, **Nakagawa P\***, Shinohara K, Morgan DA, Weidemann BJ, Folchert MD, Rahmouni K, Grobe JL, Sigmund CD. Deletion of brain-specific isoform of Renin (Renin-b) increases resting metabolic rate by stimulating brown adipose tissue sympathetic nerve activity. High Blood Pressure Research 2017 Scientific Sessions. September of 2017, San Francisco, CA.
16. Gomez J, **Nakagawa P**, Sigmund CD. Induction of endoplasmic reticulum stress upregulates renin expression in immortalized mouse hypothalamic N43/5 cells. AHA Hypertension Scientific Sessions 2018. September of 2018, Chicago, IL.
17. **Nakagawa P**, Gomez J, Seara F, Sigmund CD. Exposure to stress and low salt diet increases blood pressure in mice lacking the brain-specific renin isoform renin-b. AHA Hypertension Scientific Sessions 2018. September of 2018, Chicago, IL.

18. **Nakagawa P**, Gomez J, Seara F, and Sigmund CD. Exposure to Stress and Low Salt Diet Increases Blood Pressure in Mice Lacking the Brain-specific Renin Isoform Renin-b. Experimental Biology, April 2019, Orlando, FL.
19. **Nakagawa P**, Gomez J, Silva Jr SD, and Sigmund CD. Prorenin induces intracellular signaling and generation of reactive oxygen species in brainstem primary cultures. Experimental Biology 2020 (conference cancelled due to COVID19).
20. **Nakagawa P**, Nair AR, Gomez J, Wu J, Grobe JL, and Sigmund CD. Susceptibility of Mice Lacking Renin-b to Chronic Angiotensin II Infusion. Experimental Biology 2020 (conference cancelled due to COVID19).
21. **Nakagawa P**, Silva SD, Gomez J, Grobe JL, Sigmund CD. Prorenin Induces Intracellular Signalling and Reactive Oxygen Species in The Brainstem. AHA Hypertension Scientific Sessions 2020.
22. **Nakagawa P**, Brozoski D, Mathieu NM, Lu KT, Gomez J, Reho J, Fang S, Segar JL, Grobe JL, Sigmund CD. Biphasic and Sex-Dependent Roles of the Prorenin Receptor in the Rostral Ventrolateral Nucleus in Mice Subjected to Deoxycorticosterone Acetate-salt Hypertension. AHA Hypertension Scientific Sessions 2021.
23. Fekete EM, Muskus P, Mathieu N, Brozoski D, Gomez J, Mouradian G, Hodges M, Grobe JL, Sigmund CD, **Nakagawa P**. Conditional deletion of renin in the mouse brain results in cardiovascular and respiratory abnormalities in response to hypoxia or autonomic blockade. AHA Hypertension Scientific Sessions 2021.
24. Mathieu NM, **Nakagawa P**, Muskus PC, Reho JJ, Brozoski DT, Grobe JL, and Sigmund CD. Beta-Arrestin2 Deficiency in the Brain Alters Blood Pressure Regulation. AHA Hypertension Scientific Sessions 2023.
25. Mathieu NM, **Nakagawa P**, Muskus PC, Reho JJ, Brozoski DT, Grobe JL, and Sigmund CD. Arrestin2 Deficiency in the Subfornical Organ Alters Fluid Intake and Blood Pressure Regulation. APS Summit 2024.
26. Ghobrial M, Fekete EM, Muskus PC, Brozoski DT, Lu KT, Hantke Guixa A, Wackman KK, Sigmund CD, **Nakagawa P**. A Role of T-Lymphocyte  $\beta$ -Arrestins in Hypertension. APS Summit 2024.
27. Hantke Guixa A, Vazirabad I, Mathieu NM, Muskus PC, Brozoski DT, Grobe JL, **Nakagawa P**, Sigmund CD. A Preliminary 10X Genomics Xenium Profiler Spatial Transcriptomics Map of Renin-Angiotensin System Genes in the Mouse Subfornical Organ. AHA Hypertension Scientific Sessions 2024.
28. Ghobrial M, Fekete EM, Muskus PC, Brozoski DT, Lu KT, Hantke Guixa A, Wackman KK, Sigmund CD, **Nakagawa P**. Ablation of T-Lymphocyte  $\beta$ -Arrestins Reduces Inflammation and Increases Salt Retention in the Absence of Blood Pressure Changes Following Angiotensin II Infusion. AHA Hypertension Scientific Sessions 2024.
29. Wagner VA, Muskus PC, Sigmund CD, **Nakagawa P**, Grobe JL. Transcriptomic Effects of Prolonged Diet-Induced Obesity in Subtypes of Agouti-Related Peptide Neurons of the Hypothalamic Arcuate Nucleus. AHA Hypertension Scientific Sessions 2024.

### **Regional**

1. **Nakagawa P**, Gomez J, Shinohara K, Morgan DA, Weidemann BJ, Folchert MD, Grobe JL, Rahmouni K, and Sigmund CD. Deletion of brain-specific isoform of renin (renin-b) increases resting metabolic rate by stimulating brown adipose tissue sympathetic nerve activity. Pharmaceutical and Pharmacological Sciences Research Retreat 2017

2. **Nakagawa P**, Agbor LN, Nair A, Gomez J, Hu C, Wu J, and Sigmund CD. Effects of high salt diet on vascular function and renal injury in a novel mouse model of neurogenic hypertension. 22nd Iowa Physiological Society meeting.
3. **Nakagawa P**, Morgan DA, Zhang SY, Lu K-T, Gomez JA, Seara F, Rahmouni K, Grobe JL, and Sigmund CD. Deletion of brain-specific isoform of renin (renin-b) increases resting metabolic rate by stimulating brown adipose tissue sympathetic nerve activity. Pharmaceutical and Pharmacological Sciences Research Retreat 2018

### **Local**

1. **Nakagawa P\***, Frasch AP\*, Gironacci MM. The effect of Angiotensin (1-7) on the NOS activity in hypertensive rat hypothalamus. V Jornada Científica de AECUBA. 2007 School of Medicine, University of Buenos Aires.
2. **Nakagawa P**, Liu Y-H, Liao T, Gonzalez GE, Yang X-P, Rhaleb N-E, Carretero OA. N-Acetyl-Seryl-Aspartyl-Lysyl-Proline ameliorates the severity of experimental autoimmune myocarditis. Henry Ford Medical Group, 7th Annual Research Symposium, Henry Ford Hospital, MI.
3. **Nakagawa P**, N-E Rhaleb, Chen X, Liao T-D, Smolarek D, Bobbitt KR, Peterson E, Yang X-P, Liu YH, Carretero OA. Effects of N-Acetyl-Seryl-Aspartyl-Lysyl-Proline on Experimental autoimmune myocarditis. 9th Annual Research Symposium of Henry Ford Health System, MI.
4. Gomez J, **Nakagawa P**, Shinohara K, Morgan DA, Weidemann BJ, Folchert MD, Rahmouni K, Grobe JL, and Sigmund CD. Deletion of brain-specific isoform of renin (renin-b) increases resting metabolic rate by stimulating brown adipose tissue sympathetic nerve activity, but not insulin sensitivity. 4th Annual Abboud Cardiovascular Research Center Symposium.
5. **Nakagawa P**, Nair AR, Zhang SY, Lu KT, Zanaty M, Gomez J, Grobe JL, and Sigmund CD. Susceptibility of Mice Lacking Renin-b to Chronic Angiotensin II Infusion. Research day at Medical College of Wisconsin, September 2019, Wauwatosa, WI
6. **Nakagawa P**, Nair AR, Zhang SY, Lu KT, Zanaty M, Gomez J, Grobe JL, and Sigmund CD. Susceptibility of Mice Lacking Renin-b to Chronic Angiotensin II Infusion. 2019 Research day at Medical College of Wisconsin. Annual Research Retreat at Medical College of Wisconsin, October 2019, Milwaukee, 2019

### **COMMITTEE SERVICE:**

#### **Medical College of Wisconsin**

|                   |                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------|
| 2019-2020         | Member of the Postdoc Advisory Committee                                                            |
| 10/2019           | Moderator in Annual Cardiovascular Center Research Retreat                                          |
| 10/2021           | Reviewer for “the paper of the year” award, MCW Postdoctoral Advisory Committee.                    |
| 07/2020 - Present | Secondary Member, Physiology Representative, Graduate Faculty Council, Medical College of Wisconsin |
| 2/2022 - Present  | Physiology Global Health Liaison                                                                    |
| 10/2022           | Cardiovascular Center Research Retreat – Poster Judge                                               |
| 11/2022           | Graduate School Poster Session – Poster Judge                                                       |
| 04/2023           | IDP – Poster Judge                                                                                  |

|                |                                                                              |
|----------------|------------------------------------------------------------------------------|
| 08/2023        | IDP Graduate Student Boot Camp “Picking a Dissertation Lab” session panelist |
| 12/2023        | Co-Chair in the Annual Cardiovascular Center Research Retreat & poster judge |
| 2024 - Present | IDP Graduate Student Boot Camp Work Group member.                            |
| 05/2024        | Postdoc course Advance: “From Postdoc to Faculty?” Session panelist          |

#### **American Heart Association**

|      |                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------|
| 2019 | Reviewer – Trainee Poster Competition at the High Blood Pressure Research Scientific Sessions 2019                                |
| 2020 | Moderator - American Heart Association – Hypertension Scientific Sessions 2020                                                    |
| 2021 | Moderator - American Heart Association – Hypertension Scientific Sessions 2021                                                    |
| 2021 | Panelist – “Publishing for early-stage investigators” <i>Hypertension</i>                                                         |
| 2022 | Peer Review Committee member in the Study section of the American Heart Association Career Development Award – Vascular Sciences. |
| 2022 | Moderator & poster reviewer- American Heart Association – Hypertension Scientific Sessions 2022                                   |
| 2023 | Moderator & poster reviewer - American Heart Association – Hypertension Scientific Sessions 2023                                  |
| 2024 | Moderator & poster reviewer - American Heart Association – Hypertension Scientific Sessions 2024                                  |
| 2024 | Peer Review Committee member in the Study section of the American Heart Association Predoctoral and Postdoctoral Awards           |

#### **American Physiological Society**

|      |                                                          |
|------|----------------------------------------------------------|
| 2023 | Water and Electrolyte Homeostasis - Awards Committee     |
| 2023 | Neural Control & Autonomic Regulation - Awards Committee |
| 2024 | APS Summit poster session judge                          |

#### **Gordon Research Conference**

|      |           |
|------|-----------|
| 2024 | Moderator |
|------|-----------|

#### **International Society of Hypertension**

|      |                                  |
|------|----------------------------------|
| 2024 | Moderator & poster session judge |
|------|----------------------------------|

### **MEDICAL COLLEGE TEACHING ACTIVITIES:**

#### **Medical Student Education**

|         |                                                                                        |
|---------|----------------------------------------------------------------------------------------|
| 10/2020 | Facilitator in Clinical & Translational Research Pathway; Medical College of Wisconsin |
| 10/2021 | Facilitator in M1 Physiology - Case-Based Discussion                                   |

|             |                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| 10/2022     | Lecturer in M1 Physiology – Central regulation of blood pressure & long-term regulation of blood pressure lectures. |
| 03/2023     | Special Problems in Physiology: Article for Discussion                                                              |
| 04/2023     | Organ Systems Journal Club                                                                                          |
| 2023 - 2024 | Advanced Human Physiology: Cardiovascular module                                                                    |
| 2024 - 2025 | Lecturer in MCW Fusion Program - CV Block.                                                                          |

### **Graduate Student Education**

|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| 04/2021-Present  | Facilitator in Spotlight on Science Responsible Conduct in Research (RCR) training                      |
| 01/2022-Present  | Departmental Seminar Director, Department of Physiology, Medical College of Wisconsin, Milwaukee, WI    |
| 09/2021- 01/2022 | Departmental Seminar Co-Director, Department of Physiology, Medical College of Wisconsin, Milwaukee, WI |

### **EXTRAMURAL TEACHING:**

### **Graduate Student Education**

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| 7/2006-2/2009 | TA for Biological Chemistry, University of Buenos Aires, Argentina  |
| 4/2022        | Riverside High School, WI. Career Exploration Panel                 |
| 2/2022        | Wayne State University, Cellular and Molecular Physiology (PSL7640) |

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

### **Graduate Students**

#### **PhD Students Advised**

- Natalia Marin Mathieu, PhD Student, Medical College of Wisconsin, 2019-2024, research co-mentor
- Autumn Hamilton, PhD Student, Medical College of Wisconsin, 2022, research co-mentor
- Moniece Lowe, IDP rotation student (January 2023)
- Alex Gallo, IDP rotation student (September 2023)
- Kathren Kaminski, IDP student, Medical College of Wisconsin, April 2024-Present. Primary mentor.

#### **MSTP Students Advised**

- Luke Zangl, MSTP rotation student, Medical College of Wisconsin, June 2022, research mentor.
- Mina Ghobrial, MSTP student, Medical College of Wisconsin, July 2023-Present, research co-mentor.

### **Qualifying Exam Committee Member:**

- Gopika SenthilKumar, PhD Student, Medical College of Wisconsin, 2022.
- Melissa Eilbes, PhD student, Medical College of Wisconsin, 2022.
- Reiauna Taylor, IDP student, Medical College of Wisconsin, 2023.
- Luke Zangl, MSTP student, Medical College of Wisconsin, 2023.
- Nicole Hennen, IDP student, Medical College of Wisconsin, 2024

PhD Thesis Committee Member:

- Natalia Marin Mathieu, PhD Student, Medical College of Wisconsin. Passed thesis defense on March 2024
- Alisha Ziegler, PhD Student, Medical College of Wisconsin. Passed thesis defense on April 2024

**Undergraduate Students**

- Azeez Ganiyu, Advancing Student Potential for Inclusion with Research Experiences (ASPIRE) program student and Diversity Summer Health-related Research Education Program (DSHREP). Medical College of Wisconsin (May-August 2023 and May-Aug 2024). Research mentor.
- Cotes Royson, Advancing Student Potential for Inclusion with Research Experiences (ASPIRE) program student (May-Aug 2024). Research mentor.

**High School Students**

- Michelle Xie, Brookfield East High School in the SUPREMES program, Medical College of Wisconsin (Jan 2023-Apr 2024). Research Mentor. She was accepted at Cornell University.

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

**Medical Students**

- Mario Zanaty, Neurosurgery Resident, University of Iowa, 2018-2020, research mentor

**Postdoctoral fellows**

- Nitin Kumar, Post-doctoral Fellow, Henry Ford Hospital, 2014-2016, research mentor
- Ginette Bordcoch, Post-doctoral Fellow, Henry Ford Hospital, 2015-2016, research mentor

**Graduate Students**

PhD Students Advised

- Fernando Seara, PhD Student, University of Iowa, 2017-2018, research mentor

**Undergraduate Students**

- Kristopher Kutskill, Summer Student, Henry Ford Hospital, 2010, research mentor

- Nadia Rhaleb, Summer Student, Henry Ford Hospital, 2011, research mentor
- Heba Basha, Summer Student, Henry Ford Hospital, 2013, research mentor

### **High School Students**

- Aparajita Sivaraman, Summer Student, Henry Ford Hospital, 2012, research mentor. She was accepted in MIT.

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