

CURRICULUM VITAE

Junsu Kang, Ph.D.

Personal information

Work

Cell and Regenerative Biology
University of Wisconsin-Madison
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Education and Training

Education

2004 B.S. Biology (Graduated with high honors), Yonsei University, Seoul, South Korea
2010 Ph.D., Developmental Genetics, Seoul National University, Seoul, South Korea

Post-graduate training

2011 – 2016 Post-doctoral Fellow, Tissue regeneration in zebrafish, Mentor: Dr. Kenneth D. Poss, Duke University, Durham, NC

Academic Appointments

2016 – 2017, Sep Medical Instructor, Duke University, Durham, NC
2017 – 2024 Assistant Professor of Cell and Regenerative Biology
University of Wisconsin – Madison (Madison, WI)
2024 – Present Associate Professor of Cell and Regenerative Biology
University of Wisconsin – Madison (Madison, WI)

Publications

1. Begeman, I., Guyer, M., **Kang, J.** Cardiac Enhancers: Gateway to the Regulatory Mechanisms of Heart Regeneration, In revision
2. Duca, S., Xia, Y., Elmagid, L.A., Bakis, I., Qiu, M., Cao, Y., **Kang, J.**, Harrison, M.R.H., and Cao, J., Differential *vegfc* expression dictates lymphatic response during zebrafish heart development and regeneration. In press, *Development*
3. Duong, P.*, Rodriguez-Parks, A.*, **Kang, J.#**, Murphy, P.#, CUT&Tag Applied to Zebrafish Adult Tail Fins Reveals a Return of Embryonic H3K4me3 Patterns During Regeneration. *: co-first authors. #: co-corresponding authors. *Epigenetics & Chromatin*. 2024 Apr 3:rs.3.rs-4189493
4. Chen, Y., Hou, Y., Zeng, Q., Wang, I., Shang, M., **Kang, J.**, Hemaureur, C., Xing, X., Zhao, G., Wang, T., Common and Specific Gene Regulatory Programs in Zebrafish Caudal Fin Regeneration at Single-Cell Resolution. In revision
5. Lee., H., **Kang, J.**, Lee., SH., Lee., D., Chung, C.H., Lee, J., Neuroprotective role of Hippo signaling by microtubule stability control in *C. elegans*, *bioRxiv* 2024.03.11.584363; doi: <https://doi.org/10.1101/2024.03.11.584363>
6. Shin, K., Rodriguez-Parks, A., Kim, C., Silaban, I.M, Xia, Y., Sun, J., Dong, C., Kelles, S., Wang, J., Cao, J., **Kang, J.**, Harnessing the regenerative potential of *interleukin11* to enhance heart repair. In press, *Nat. Comm.*

7. Keating, M.*, Hagle, R.*, Osorio-Méndez, D.*, Rodriguez-Parks, A., Alutawa, S.I., **Kang, J.**, A highly efficient knock-in approach using a minimal promoter and a minicircle. *Developmental Biology*, 2024 Jan:505:24-33. (2024) *: co-first authors
8. Rao, A., Lyu, B., Jahan, I., Lubertozzi, A., Zhou, G., Tedeschi, F., Jankowsky, E., **Kang, J.**, Carstens, B., Poss, K., Baskin, K., and Goldman, J.A. The Translation Initiation Factor Homolog, eif4e1c, Regulates Cardiomyocyte Metabolism and Proliferation During Heart Regeneration. *Development*, dev.201376. (2023)
9. Yan, R., Cigliola, V., Oonk, K.A., Petrover, Z., DeLuca, S., Wolfson, D., Vekstein, A., Mendiola, M.A., Devlin, G., Bishawi, M., Gemberling, M.P., Sinha, T., Sargent, M.A., York, A.J., Shakked, A., DeBenedittis, P., Wendell, D.C., Ou, J., **Kang, J.**, Goldman, J.A., Baht, J.S., Karra, R., Williams, A.R., Bowles, D., Asokan, A., Tzahor, E., Gersbach, C.A., Molkenitin, J.D., Bursac, N., Black, B.L., Poss, K.D., An enhancer-based gene therapy strategy for spatiotemporal control of cargoes during tissue repair. *Cell Stem Cell*, 30(1):96-111.e6. (2023)
10. Shin, K., Begeman, I. J., Cao, J., **Kang, J.**, *leptin b* and its regeneration enhancer illustrate the regenerative features of zebrafish hearts. *Dev. Dyn.* doi: 10.1002/dvdy.556. (2022)
11. Begeman, I.J., Emery, B., Kurth, A., **Kang, J.**, Regeneration and Developmental Enhancers Are Differentially Compatible with Minimal Promoters. *Dev. Biol.* doi: 10.1016/j.ydbio.2022.09.007. (2022)
12. Elbially, A., Sulidan, K., Bhuiyan, A., Igarashi, Y., Yoshitake, K., Yamanouchi, D., **Kang, J.**, Asakawa, S., Watabe, S., Kinoshita, S. Induction of endoplasmic reticulum stress markers in an acromegaly model. *J. Cell Biochem.* doi: 10.1002/jcb.30301. (2022)
13. Osorio-Méndez, D., Miller, A., Begeman, I., Kurth, A., Hagle, R., Rolph, D., Dickson, A.L., Chen, C.H., Halloran, M., Poss, K.*, **Kang, J.***, Voltage-gated sodium channel, *scn8a*, is required for innervation and regeneration of amputated adult zebrafish fins. (*Co-corresponding authors). *Proc. Natl. Acad. Sci. USA.* 119(28):e2200342119. (2022)
14. Peng, X., Lai, K.S., Yu, G., She, P., **Kang, J.**, Wang, T., Li, G., Zhou, Y., Sun, J., Jin, D., Xu, X., Liao, L., Liu, J., Lee, E., Poss, K.D., Zhong, T.P., Induction of Wnt signaling inhibitors and P21-activated kinase enhances cardiomyocyte proliferation during zebrafish heart regeneration. *Journal of Molecular Cell Biology*, 13(1):41-58, (2021).
15. Begeman, I., Shin, K., Kurth, A., Lee, N., Chamberlain, T.J., Pelegri, F.J. and **Kang, J.** Decoding an organ regeneration switch by dissecting cardiac regeneration enhancers., *Development*. 147(24):dev1940192020, (2020).
16. Thompson, J.D., Ou, J., Lee, N., Shin, K., Cigliola, V., Song, L., Crawford, G., **Kang, J.** and Poss, K.D., Identification and requirements of enhancers that direct gene expression during zebrafish fin regeneration., *Development*. 147(14):dev191262, (2020).
17. Golenberg, N., Squirrell, J.M., Bennin, D.A., Rindy, J., Pistono, P.E., Eliceiri, K.W., Shelef, M.A., **Kang, J.**, Huttenlocher, A. Citrullination regulates wound responses 1 and tissue regeneration in zebrafish. *Journal of Cell Biology*, 219(4), e201908164, (2020).
18. Lee, H., **Kang, J.**, Ahn, S., Lee, J., The Hippo Pathway Is Essential for Maintenance of Apical Basal Polarity in the Growing Intestine of *Caenorhabditis elegans*. *Genetics*, 213(2): 501-515 (2019).
19. Rodriguez, A., **Kang, J.**, Regeneration enhancers: Starting a journey to unravel regulatory events in tissue regeneration, *Seminars in Cell and Developmental Biology*, Invited review for a special issue entitled, "Chromatin dynamics in regeneration", pii: S1084-9521(18) 30198-8. (2019).
20. Yang, K., **Kang, J.**, Tissue regeneration enhancer elements: A way to unlock endogenous healing power. *Developmental Dynamics*, Invited review for a special issue entitled, "Stem Cells and Tissue Engineering in Development, Disease, & Repair", 248(1):34-42. (2019).
21. Begeman, I., **Kang, J.**, Transcriptional programs and injury/regeneration enhancers underlying heart regeneration. *Journal of Cardiovascular Development and Disease*, Invited

- review for a special issue entitled, "Cardiac Regeneration in Non-Mammalian Vertebrates", 22;6(1). pii: E2 (2018).
22. Lee, H., **Kang, J.**, Lee, J., Involvement of YAP-1, the homolog of Yes-associated protein, in the Wnt-mediated neuronal polarization in *Caenorhabditis elegans*. *G3 (Bethesda)*, 8(8):2595-2602, (2018).
 23. **Kang, J.**, Hu, J., Karra, R., Dickson, A.L., Tornini, V.A., Nachtrab, G., Gemberling, M., Goldman, J.A., Black, B.L., Poss, K.D. Modulation of tissue repair by regeneration enhancer elements. *Nature*. 523(7598):201-206, (2016).
 24. **Kang, J.**, Karra, R., Poss, K.D. Back in Black. *Developmental Cell*. 33(6):623-624, (2015).
 25. **Kang, J.**, Nachtrab, G., Poss, K.D., Local Dkk1 Crosstalk from Breeding Ornaments Impedes Regeneration of Injured Male Zebrafish Fins. *Developmental Cell*. 27(1):19-31, (2013). This paper is chosen by cover story.
 26. **Kang, J.***, Bai, Z.*, Zegarek, M.H., Grant, B.D., Lee, J. Essential roles of *snap-29* in *C. elegans*. *Developmental Biology*. 355(1):77-88, (2011). (* These two equally contributed to this work)
 27. Choi, B., **Kang, J.**, Park, YS., Lee, J., Cho, NJ. A possible role for FRM-1, a *C. elegans* FERM family protein, in embryonic development. *Molecules and Cells*. 31(5):455-459, (2011).
 28. Min, K.*, **Kang, J.***, Lee, J. A modified feeding RNAi method for simultaneous knock-down of more than one gene in *Caenorhabditis elegans*. *Biotechniques*. 48(3): 229-232, (2010). (* These two equally contributed to this work)
 29. **Kang, J.**, Shin, D., Yu, JR., Lee, J. Lats kinase is involved in the intestinal apical membrane integrity in the nematode *Caenorhabditis elegans*. *Development*. 136(16): 2705-2715 (2009).
 30. Kim, YH., Song, HO., Ko, KM., Singaravelu, G., Jee, C., **Kang, J.**, Ahnn, J. A novel calcineurin-interacting protein, CNP-3, modulates calcineurin deficient phenotypes in *Caenorhabditis elegans*. *Molecules and Cells*. 25(4):566-571 (2008).

Research Grants

Active

NIH/NIGMS R35GM133478

Title: Molecular and genetic analysis of fin regeneration in zebrafish

Term: 07/01/2020 – 06/30/2025

Goal: The goals of this project are to construct genetic models for tissue regeneration to uncover regeneration-associated genes and underlying mechanisms.

Role: PI

NIH/NHLBI R01HL151522-01A1

Title: Dissecting injury-responsive gene expression during zebrafish heart regeneration

Term: 12/20/2020 – 11/30/2024

Goal: The goals of this project are to elucidate the transcriptional mechanisms by which cardiac injury signals are transduced to facilitate heart regeneration.

Role: PI

UW Institute for Clinical and Translational Research

Title: Dissecting the role of Il11 on heart regeneration

Term: 09/2023 - 08/2024

Goal: To determine the role of il11 on mouse heart regeneration

Role: PI (multi-PIs)

Sponsor: National Institutes of Health, F31HL162492

Title: Dissecting regulatory mechanisms of cardiac regeneration enhancers
PI: Ian Begeman; Junsu Kang, Sponsor
Inclusive Dates: 06/2022 – 05/2025
Role: Sponsor

NIH/NHLBI R01HL174965
Title: Reprogramming of hematopoietic stem cells during contact with the perivascular niche
Term: 7/1/2024 – 6/30/2029
Role: Tamplin, OJ (PI); Kang, J (co-I)

Past Awards

American Heart Association 16SDG30020001
Title: Unraveling the regulatory mechanisms of cardiac regeneration enhancers.
Term: 07/01/16-06/30/19
Goal: The goals of this project are to elucidate the regulatory mechanisms underlying heart regeneration.
Role: PI

Sponsor: American Heart Association, predoctoral fellowship, 827904
Title: Dissecting regulatory mechanisms of cardiac regeneration enhancers
PI: Ian Begeman; Junsu Kang, Sponsor
Inclusive Dates: 09/2021 – 05/2022
Role: Sponsor

Sponsor: Stem Cell Research and Regenerative Center, UW-Madison, Graduate Training Award
Title: Regulation of Fin Regeneration by a Voltage-Gates Sodium Channel
PI: Daniel Osorio-Mendez; Junsu Kang, Sponsor
Inclusive Dates: 07/2021 – 06/2022
Role: Sponsor

NIH/NIGMS R35GM133478-S1
Title: Molecular and genetic analysis of fin regeneration in zebrafish
Term: 06/2023
Goal: The goal of this supplementary grant project is to purchase a state-of-art confocal microscope system for successful execution of projects proposed in R35GM133478.
Role: PI

Sponsor: Stem Cell Research and Regenerative Center, UW-Madison, Graduate Training Award
Title: Dissecting roles of *interleukin 11a (il11a)* in enhancing muscle regeneration and inducing fibrosis
PI: Kwangdeok Shin; Junsu Kang, Sponsor
Inclusive Dates: 04/2023 – 03/2024
Role: Sponsor

Pending

Sponsor: National Institutes of Health, R21OD037634
Title: Developing robust genome editing tools for generating floxed alleles and editing amino acid change in zebrafish
PI: Junsu Kang, PI

Inclusive Dates: 4/2025-3/2027

Role: PI

Impact score: 20

Sponsor: NIH/NHLBI R01HL151522

Title: Dissecting gene regulatory networks and regeneration enhancer elements for zebrafish heart regeneration

Term: 12/01/2024 – 11/30/2029

Goal: The goals of this project are to elucidate the transcriptional mechanisms by which cardiac injury signals are transduced to facilitate heart regeneration.

Role: PI

Impact score: 24

Sponsor: NIH/NIGMS R35GM133478

Title: Molecular and genetic analysis of fin regeneration in zebrafish

Term: 07/01/2025 – 06/30/2030

Goal: The goals of this project are to construct genetic models for tissue regeneration to uncover regeneration-associated genes and underlying mechanisms.

Role: PI

Impact score: 24

Honors and Awards

2006 – 2007	Seoul Science Fellowship, Seoul City Government
2014	Travel Award, International Conference on Zebrafish Development and Genetics
2016	Best Poster Award, Weinstein Cardiovascular Development and Regeneration Conference
2016	Travel Award, The Allied Genetics Conference
2016	Presentation Award for Young Investigators, International Conference of the Korean Society for Molecular and Cellular Biology
2018, 2020	Wisconsin Partnership Program New Investigator Program, Finalist
2024	ISRB rising star award

Talks

Nov 2006	The 2nd East Asia C. elegans meeting, Seoul National University, Seoul, South Korea
July 2008	15th East Asia Joint Conference on Biomedical Research, Samsung Biomedical Research Institute, Seoul, South Korea
Feb 2012	Triangle Zebrafish Group Meeting, North Carolina State University
Oct 2013	Evolution, Development, and Genomics Seminar series, Duke University
Apr 2015	Triangle Zebrafish Research Symposium, Duke University
Oct 2015	Duke Epigenetics and Epigenomics Program, Duke University
July 2016	The Allied Genetics Conference, Orlando
Oct 2016	International Conference of the Korean Society for Molecular and Cellular Biology, Seoul, South Korea, 2016

Jan 2017 Dept. of Developmental Biology, University of Pittsburgh

Jan 2017 Dept. of Developmental Biology, Washington University in St. Louis

Jan 2017 Developmental Biology Division, Cincinnati Children's Hospital

Feb 2017 Dept. of Regenerative Medicine and Cell Biology, Medical University of South Carolina

Feb 2017 Center for Molecular Medicine, University of Georgia

Feb 2017 Dept. of Developmental and Cell Biology, University of California, Irvine

Feb 2017 Genetics Department, MD Anderson Cancer Center

Mar 2017 Dept. of Cell and Regenerative Biology, University of Wisconsin - Madison

Nov 2017 UW-Madison Zebrafish Meeting, University of Wisconsin - Madison

Jan 2018 CVRC Vascular Biology Research Colloquium, University of Wisconsin - Madison

Feb 2018 Developmental Biology Seminar, University of Wisconsin - Madison

Feb 2018 Genetics Colloquium, University of Wisconsin - Madison

Apr 2018 SCRMC Campus Lab Meeting, University of Wisconsin - Madison

Nov 2018 American Heart Association Heart Ball Research Breakfast
University of Wisconsin – Madison

Feb 2021 The Institute of Interdisciplinary Research (IRIBHM)
Université Libre de Bruxelles, Belgium

Feb 2021 Biological Sciences, University of Wisconsin – Milwaukee

Mar 2021 Frontiers in Cardiovascular Science Seminar Series
Cardiovascular Research Center, University of Wisconsin – Madison

July 2021 Cardiovascular Research Institute, Weill Cornell Medicine

Oct 2021 International Conference of the Genetics Society of Korea (ICGSK)
Seoul, South Korea

May 2022 Centre for Cardiovascular Science,
University of Edinburgh, Scotland, United Kingdom

April 2023 iBio Colloquium, University of Wisconsin – Madison

June 2023 Developmental Biology, Regenerative Medicine Program Seminar
University of Southern California

June 2023 International Society Heart Research – North American Meeting, Madison

June 2024 Midwest zebrafish conference, Washington University School of Medicine

	in St. Louis, St. Louis
July 2024	Korean Association for Laboratory Animal Sciences, South Korea
Aug 2024	Chungnam National University, Biology, South Korea
Aug 2024	Korea Research Institute of Bioscience and Biotechnology, South Korea
Aug 2024	Seoul National University, Institute of Molecular Biology and Genetics, South Korea
Aug 2024	Korea University Ansan Hospital, Department of Biomedical Science, South Korea
Sep 2024	Dept. of Cell Biology, University of Pittsburgh
Oct 2024	EMBO Workshop, The molecular and cellular basis of regeneration and tissue repair

Professional Associations

2010 – Present	Member, American Association for the Advancement of Science
2014 – Present	Member, American Heart Association
2012 – Present	Member, Genetic Society of America
2017 – Present	Member, Society for Developmental Biology
2018 – Present	Member, International Zebrafish Society
2021 – Present	Member, International Society for Regenerative Biology

Other Activities

2025	Serve as a meeting organizer for the 2 nd International Society of Regenerative Biology (ISRB) conference
2025	Serve as a scientific committee for the 2025 Weinstein Cardiovascular Development and Regeneration conference
2024, July	Serve as an <i>ad hoc</i> reviewer of Neurodevelopment, Oxidative Stress and Synaptic Plasticity NIH F03A Study Section
2023, Oct	Serve as an <i>ad hoc</i> reviewer of Opportunities for Advancing Limb Regeneration Research NIH study section
2023, June	Serve as a meeting organizer for International Society Heart Research – North American Meeting, Local Organizing Committee
2023 – present	Serve as a chair Developmental Biology and Regenerative Medicine subgroup of Cellular and Molecular Biology graduate program, UW-Madison
2022, Sep	Serve as a poster judge, EMBO Workshop
2022, June	Serve as an <i>ad hoc</i> reviewer of Development 1 NIH study section
2022, Apr	Serve as a co-organizer for Regeneration around the world, The International Society of Regenerative Biology (ISRB)
2021 – present	Serve as a voting member for SMPH Institutional Animal Care and Use Committee (IACUC)
2021, 2023, 2024	Serve as a reviewer of SCRMC award
2020, Nov	Serve as an <i>ad hoc</i> reviewer of for NIH K99/R00 Maximizing Opportunities for

2020, Feb	Scientific and Academic Independent Careers (MOSAIC) study section Serve as an <i>ad hoc</i> reviewer of Cardiac Development and Differentiation NIH study section
2018 – present 2018	Organizer of the CRB developmental biology group meeting 13 th International zebrafish conference, a chair of stem cells and regeneration session
2018 – 2023	Serve as an International Reviewer for Cellular and Molecular Biology graduate program admissions committee
2017 – present	Serve as a peer reviewer on Nature Communications, Genome Research, Scientific Reports, Developmental Biology, Development, iScience, Bio-protocols, Journal of Cardiovascular Development and Disease, Zebrafish, the FEBS journal, eLife, Journal of Molecular and Cellular Cardiology, Disease Models and Mechanisms, Bioactive Materials, Bone, npj regenerative medicine, BMC Genomics, Current Biology, and Cell Systems

Mentoring

Postdoc

- Daniela Rolph, Feb 2022 - 2023

Graduate Students

- Ian Begeman, Cellular and Molecular Biology Graduate Program, Sep 2018 – Present, supported by American Heart Association (2021-2022) and NIH F31 pre-doctoral fellowship (2022-present)
- Daniel Osorio Mendez, Genetics Graduate Program, Dec 2018 – June 2024, supported by Stem cell and regenerative medicine center pre-doctoral fellowship (2021-2022)
Current location: Postdoc at Icahn School of Medicine at Mount Sinai
- Kwangdeok Shin, Cellular and Molecular Biology Graduate Program, June 2021 – Present, supported by Stem cell and regenerative medicine center pre-doctoral fellowship (2023-2024)
- Siyang Cao, Cellular and Molecular Biology Graduate Program, June 2023 – Present
- Megan Guyer, Genetics, Feb 2023 – Present, NSF fellowship (2024-2026)

Post-baccalaureate trainee

- Kahoua Yang, Jan 2018 – Aug 2018
- Maggie Keating, June 2021 – May 2023
- Andrew Kurth, Aug 2020 – Sep 2021
- Ryan Hagle, Jan 2023 – Apr 2023
- Steffani Manna, 2023 May – 2024 Aug
- Chanul Kim, Jan 2024 – June 2024
- Hossam Ahmed, Aug 2024 – Present
- Ella G. Beezley, Sep 2024 - Present

Undergraduate Students

- Jonah David Mudge, May 2018 – May 2019

- Lindsey Ann Tushman, May 2018 – Sep 2020
- Andrew Kurth, Aug 2018 – Mar 2020
- Kavya Borde, Sep 2018 – Mar 2020
- Daniel Mcgarry, Jan 2019 – Mar 2020
- Elaine Zheng, June 2019 – Dec 2019, Sep 2020 – Dev 2020
- Madison Kurth, Jan 2020 – Mar 2020, Sep 2020 - May 2021
- Sheila Ngoc Anh Duong, Jan 2020 – May 2021, supported by McNair Scholar
- Seungwon Ryu, Jan 2021 – Aug 2021
- Maggie Keating, May 2021 – June 2021
- Benjamin Emery, May 2021 – May 2022
- Madeline Sullivan, June 2021 – Aug 2021
- Ryan Hagle, May 2021 – Dec 2022, supported by Hilldale fellowship
- Sarah I Almutawa, Jan 2022 – May 2023
- Steffani Manna, June 2022 – May 2023
- Ric Anthony Vandergraaf, Sep 2022 – Dec 2022
- Isabella Matahari Silaban, Sep 2022 – Present, supported by Hilldale fellowship
- Abby Weber, June 2023 – Aug 2023
- Sungjin Kim, June 2023 – Dec 2023
- Grayson Hight, June 2023 – Dec 2023
- Chanul Kim, June 2023 – Aug 2023
- Adib Rusyaidi Mohd Azilan, Nov 2023 – Present
- Zaria Johnson, Nov 2023 – Present

Highschool student

- Clare Hu Pesh, June 2022 – Aug 2022

Thesis committee

- Kartik Gupta, Cellular and Molecular Biology program, Dr. Bo Liu lab, UW-Madison, 2018 - 2021
- Stanford Mitchell, Molecular and Cellular Pharmacology program, Dr. Ying Ge lab, UW-Madison, 2018 – 2019
- Janna Bashar, Cellular and Molecular Biology program, Dr. Ahmed Mahmoud lab, UW-Madison, 2019-2020
- Ryan Trevena, Endocrinology and Reproductive Physiology program, Dr. Francisco Pelegri lab, UW-Madison, 2019 – 2024
- Corelle Rokicki, Molecular and Cellular Pharmacology program, Dr. Tim Kamp lab, UW-Madison, 2019-2021
- Kent Jorgenson, Molecular and Cellular Pharmacology program, Dr. Troy Hornberger lab, UW-Madison, 2019 - 2024
- Shalini Chakraborty, Cellular and Molecular Biology program, Dr. Mary Halloran lab, UW-Madison, 2020 - Present
- Simone Shen, Cellular and Molecular Biology program, Dr. Anna Huttenlocher and Dr. John-Demian Sauer labs, 2020 – 2024
- Erin Miners, Endocrinology and Reproductive Physiology program, Dr. Francisco Pelegri lab, UW-Madison, 2023 – 2024
- Mei Xi Chen, Cellular and Molecular Biology program, Dr. Jeffrey Dilworth lab, UW-Madison, 2024 – Present

- Alena Hanson, Cellular and Molecular Pathology program, Dr. John Svaren lab, UW-Madison, 2024 – Present
- Nicholas Garcia, Medical Scientist Training Program (MSTP), Dr. Anna Huttenlocher lab, UW-Madison, 2024 – Present
- Sarika K. Marathe, Integrative Biology, Dr. Yevgenya Grinblat lab, UW-Madison, 2024 – Present

Funding and Awards to Trainees

Ian Begeman (Ph.D. student, CMB)

Travel award, Cardiovascular Development and Regeneration Weinstein Conference	2019, 2023
Training Program in Translational Cardiovascular Science (TPTCS) (T32)	2020
American Heart Associate predoctoral fellowship	2021-2022
National Institutes of Health F31 fellowship	2022-present
Selected short talk, Cardiovascular Development and Regeneration Weinstein Conference	2023
Best poster award, SCRMC Fall Conference	2023
Best poster award, Cardiovascular Development and Regeneration Weinstein Conference	2024

Daniel Osorio-Mendez (Ph.D. student, Genetics)

Genetics Training Grant (T32)	2019, 2020
UW-Madison SCRMC graduate training award	2021
Selected short talk, International Society of Regenerative Biology Conference, awarded the best graduate student talk	2023

Kwangdeok Shin (Ph.D. student, CMB)

UW-Madison SCRMC graduate training award	2023
CMB travel award	2023
Selected short talk, Cardiovascular Development and Regeneration Weinstein Conference	2024

Siyang Cao (Ph.D. student, CMB)

Best poster award, Midwest zebrafish conference	2024
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Ryan Hagle (Undergraduate student)

Best poster award, Mid-west SDB conference	2022
Hilldale undergraduate research award	2022

Sarah I Almutawa (Undergraduate student)

Finalist, Rhodes Scholarship	2022
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Isabella Matahari Silaban (Undergraduate student)

Hilldale undergraduate research award	2024
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Teaching Activities

Present Courses

CRB710, Developmental Genetics, 2019 – Present, 3 credits, 4 contact hours, Frog, fish, wound healing and regeneration lectures

CRB670 (Course Co-Director), Biology of heart disease and regeneration, 2019 - Present, 3 credits, 10-15 contact hours, cardiac disease and regeneration lectures

CRB650, Molecular and Cellular Organogenesis, 2021 – Present, 3 credits, 4.5 contact hours, Limb regeneration and heart development lectures