

Katarina Marie Braun

Curriculum vitae

University of Wisconsin-Madison
AIDS Vaccine Research Laboratory
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I. Background

Education

- 2014-current M.D./Ph.D. candidate, Medical Scientist Training Program (MSTP), University of Wisconsin-Madison
- 2010-2014 University of Wisconsin-Madison. Undergraduate GPA: 3.75/4.0
Bachelor of Science, Evolutionary Biology (Comprehensive honors)
Bachelor of Science, Anthropology (Honors)

Professional Experience

- 2017-current Graduate research assistant, University of Wisconsin-Madison
- 2014-2017 Medical student, University of Wisconsin School of Medicine & Public Health
- 2011-2014 Undergraduate research assistant, University of Wisconsin-Madison
- 2010-2012 Animal caretaker, Wisconsin National Primate Research Center

Honors and Awards

- 2018 Completed the Woods Hole Workshop on Molecular Evolution
- 2014 - 2018 Rath Distinguished Graduate Research Fellowship
- 2014 Comprehensive honors in biology and liberal arts, University of Wisconsin
- 2014 Mathea and Helen Lawless Louis Mollere Medicine Fund Scholarship
- 2014 University of Wisconsin Senior Thesis Award – top thesis presentation
- 2013 Letters and Science Senior Honors Thesis Scholarship
- 2013 American Society for Neural Therapy & Repair travel grant and platform presentation
- 2011 – 2013 Biocore Program Honors
- 2012 Welton Honors Summer Sophomore Research Apprenticeship Scholarship
- 2010 – 2014 Dean's Honors List, University of Wisconsin-Madison

II. Research Accomplishments

Peer-reviewed publications

1. **Braun KM**, Schultz-Darken N, Schneider M, Moore CF, Emborg ME (2015). *Development of a novel postnatal neurobehavioral scale for evaluation of common marmoset monkeys*. American Journal of Primatology, 77(4): 401-417. PMID: PMC4374045. DOI: 10.1002/ajp.22356.
2. Corinne AJ, Duffy MK, Hoffman SA, Schultz-Darken NJ, Braun KM, Ciucci MR, Emborg ME (2018). *Vocalization development in common marmosets for neurodegenerative*

translational modeling. Neurological Research, 1:9. Awaiting PMID. DOI: 10.1080/01616412.2018.1438226.

3. Florek NW, Campos LM, **Braun KM**, McLean HQ, King JP, Flannery B, Belongia EA, Friedrich TC (2017). *An updated influenza A(H3N2) vaccine generates limited antibody responses to previously encountered antigens in children*. Vaccine, 36(5) p758-746. PMID: PMC5773382. DOI: 10.1016/j.vaccine.2017.12.024.
4. Vermilyea SC, Guthrie S, Meyer M, Smuga-Otto K, **Braun KM**, Howden S, Thomson JA, Zhang SC, Emborg ME, Golos TG (2017). *Induced pluripotent stem cell-derived dopaminergic neurons from adult common marmoset fibroblasts*. Stem Cells Dev, 26(17): 1225-1235. PMID: PMC5576272. DOI: 10.1089/scd.2017.0069.
5. Schultz-Darken, **Braun KM**, Emborg ME (2016). *Neurobehavioral development of common marmoset monkeys*. Developmental Psychobiology, 58(2): 141-158. PMID: PMC4829073. DOI: 10.1002/dev.21360.

Oral research presentations

- 2018 “Gender and our MSTP”. Seminar presentation at the University of Wisconsin Medical Scientist Training Program retreat, Green Lake, Wisconsin (September 7 – 8, 2018)
- 2013 “Neurodevelopment in Common Marmoset Monkeys (*Callithrix jacchus*) and its application to transgenesis”
Platform Presentation at American Society for Neural Therapy and Repair, Clearwater Beach, Florida (April 25 – 28, 2013)

Poster presentations

- 2017 “Approaches to improve the accuracy of SNP frequency and population size estimates in deep sequencing analyses of viral populations” University of Wisconsin-Madison Medical Scientist Training Program Symposium, Madison, Wisconsin (April 19, 2017)
- 2016 “Early development of common marmoset vocalizations”
Society for Neuroscience, San Diego, California (November 14, 2016)
- 2015 “Common marmosets IPSC-derived midbrain floorplate neuroprogenitors”
Society for Neuroscience, Chicago, Illinois (October 17, 2015)
- 2013 “A novel postnatal neurodevelopmental scale for evaluation of normal and transgenic common marmoset monkeys”
Society for Neuroscience, San Diego, California (November 9, 2013)

Other research experience

Undergraduate research assistant, University of Wisconsin-Madison (2010-2014)

As an undergraduate student I conducted research in the Marina Emborg laboratory at the Wisconsin National Primate Research Center. My research focused on (1) developing a novel postnatal neurodevelopmental scale for common marmoset monkeys intended for use in evaluation of transgenic models of neurodegenerative diseases and (2) development of a

common marmoset induced pluripotent stem cell line derived from adult marmoset fibroblasts and patterned towards ventralized midbrain dopaminergic phenotypes to be used as a tool for investigating regenerative medicine approaches for targeting the dopaminergic central nervous system.

III. Workshops and Professional Development

Workshop on Molecular Evolution, Marine Biological Laboratory. Woods Hole, Massachusetts (July 19 – 29, 2018)

University of Wisconsin Biotechnology Center: Introduction to next generation sequence analysis (September, 2017)

University of Wisconsin Biotechnology Center: Linux essentials for next generation sequencing data analysis (September, 2017)

Wisconsin Medical Society Annual Meeting
Delegate for Student Caucus, Madison, Wisconsin (April, 2016)

American Medical Association – Medical Student Section Annual Meeting
Served as Region 2 Delegate, Chicago, Illinois (June, 2015)

American Medical Association – Medical Student Section Region 2 Meeting
Served as a UW School of Medicine Delegate, Omaha, Nebraska (February, 2015)

American Medical Association – Medical Student Section Interim Meeting
Served as Region 2 Delegate, Dallas, Texas (November, 2014)

IV. Teaching, Leadership and Outreach Experience

Mentorship

Macy Pell, undergraduate (2017-present)

Macy is a senior undergraduate who joined the Friedrich laboratory in hopes of gaining research experience and applying to graduate school. I am currently leading her training in laboratory techniques, providing mentorship and overseeing her project aimed at identifying the extent to which influenza viral mixing occurs between the upper and lower respiratory tracts of mammals.

UW MSTP Peer Mentor (2017-present)

I mentor first and second year medical students within the UW MSTP. This role involves tutoring course material, providing guidance on preparations for clinical rotations, and providing guidance for licensing exam studying.

Biocore Peer Mentoring Program (2012-2013)

I tutored Biocore students weekly. Biocore is a 4-semester integrative undergraduate biology

course. I acted as both a guide to understanding the course material and a trusted peer.

Leadership and Outreach

2018-present	UW-Madison MSTP Executive Committee, Diversity Co-Chair
2018 -present	UW School of Medicine and Public Health Medical School Peer Tutor
2017 -present	UW School of Medicine and Public Health MEDiC (student-run clinic) volunteer
2017-2018	UW-Madison MSTP Executive Committee, Outreach Co-Chair
2016-2017	AMA-MSS UWSMPH Chapter Co-President
2015-2016	AMA-MSS Committee for Bioethics and Humanities
2015	AMA-MSS Region 2 Delegate
2015-2016	Internal Medicine Interest Group Student Leader
2014	UW School of Medicine and Public Health Substance Abuse Task Force, Co-founder

Resolutions I have authored and presented at national AMA conferences:

- (1) "Support for the Use of Pain Contracts" adopted as AMA-MSS policy, A-2015.
- (2) "Banning the Sale of Sugar-Sweetened Beverages in Hospitals" adopted as AMA-MSS policy, I-2015.

Membership in professional societies

American Physician Scientist Association (APSA)
American Medical Association – Medical Student Section (AMA-MSS)
Infectious Diseases Society of America (IDSA)
American Society for Virology (ASV)
American College of Physicians (ACP)
American Medical Student Association (AMSA)
Wisconsin Medical Society (WMS)