

Heather Caslin, Ph.D.
Assistant Professor
Department of Health and Human Performance
University of Houston

Lab Information: Laboratory of Integrative Physiology
<https://grants.hhp.uh.edu/lip>

EDUCATION AND TRAINING

Education

Postdoctoral Training	Vanderbilt University , Molecular Physiology and Biophysics <u>Research Focus</u> : Do adipose macrophages remember obesity? Innate immune memory in weight cycling <u>Research Mentor</u> : Alyssa Hasty	2018-2023
PhD	Virginia Commonwealth University , Integrative Life Sciences <u>Dissertation</u> : Glycolytic ATP production is required for innate mast cell activation and is limited by lactic acid, which effectively reduces LPS-induced cytokine production in mast cells and in vivo. <u>Research Mentor</u> : John J. Ryan, PhD	2014-2018
MS	Virginia Commonwealth University , Health and Movement Science Thesis: The Effect of Obesity on IL-1 β , IL-1Ra, and leptin following acute mental stress <u>Research Mentor</u> : R. Lee Franco Ph.D.	2012-2014
BS	Virginia Commonwealth University , Exercise Science Magna Cum Laude, University Honors, Minor: Psychology	2008-2012

Academic Positions

2023- present	Assistant Professor, Health and Human Performance, University of Houston
2018-2023	Postdoctoral Research Fellow, Vanderbilt University
2014-2018	Graduate Research Assistant, Life Sciences and Biology, Virginia Commonwealth University
2013-2014	Graduate Teaching Assistant, Kinesiology and Health Sciences, Virginia Commonwealth University
2012-2013	Graduate Research Assistant, Physical Medicine and Rehabilitation, Virginia Commonwealth University

Certifications

2012-current	ACSM Certified Exercise Physiologist
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Awards

2022	AAI-Thermo Fisher Trainee Achievement Award
2018	VCU Biology Outstanding Graduate Student, Cell and Molecular Biology
2013	Phi Kappa Phi Graduate Scholarship, School of Education
2011	Professional and Academic Excellence in Exercise Science Award
2008-2012	VCU Dean's Scholarship

RESEARCH SUPPORT

Research Support- Completed

5. VI4 Mini-Sabbatical Fellowship (2022-2023)

PI: Caslin \$4,000.

4. AHA Postdoctoral Fellowship (20POST35120547) (2020-2022)
“The influence of trained innate immunity on macrophages in metabolic disease”
PI: Caslin, \$128,836

3. Vanderbilt Institute for Clinical and Translational Research (VICTR) Voucher (2021)
“Do human mast cells acquire lipid handling when exposed repeatedly to fatty acids?”
PI: Caslin, \$1,451.05

2. Vanderbilt Institute for Clinical and Translational Research (VICTR) Voucher (2020)
“Does weight cycling influence adipose tissue mast cells beyond stable obesity?”
PI: Caslin, \$1,973

1. NIH T32 Training Grant (T32DK007563) (2018-2020).
PI: Richard O'Brien

Research Support- Declined

NIH K99-R00 Award (Received impact score 13 upon resubmission, declined due to change in academic status- accepted faculty position)
“Metabolic Memory in Weight Cycling-Associated Disease”
PI: Caslin, \$927,000

Competitive Travel Awards

4. Trainee Abstract Award for travel to AAI Immunology (2023) \$500
Vanderbilt Center for Immunobiology (VCI) Travel Award for AAI Immunology (2023) \$500
3. Trainee Abstract Award for travel to AAI Immunology (2021) \$500
2. Vanderbilt Center for Immunobiology (VCI) Travel Award for AAI Immunology (2020) \$500
1. Trainee Abstract Award for travel to AAI Immunology (2018) \$750

RESEARCH PRODUCTIVITY

Peer Reviewed Publications

*co-author publication

† direct mentee

24. Schleh M.W., **Caslin H.L.**, Garcia J.N, Mashayekhi M, Srivastava G., Bradley A.B., Hasty A.H. Metaflammation in obesity and its therapeutic targeting. Accepted: *Science Translational Medicine*, May 2023.

23. **Caslin H.L.**, Cottam M.A., Piñon J.M.[†], Boney L.Y. [†], Hasty, A.H. Weight cycling induces innate immune memory in adipose tissue macrophages. *Frontiers in Immunology*. 2023 Jan 11; 13. doi: 10.3389/fimmu.2022.984859.

22. Blanks A.M., Pedersen L.N, **Caslin H.L.**, Mihalick V.L., Via J., Canada J.M., Van Tassell B., Carbone S., Abbate A., Franco R.L. LPS Differentially Affects Expression of CD14 and CCR2 in Monocyte Subsets of Post-STEMI Patients with Impaired Glucose. *Diabetes Research and Clinical Practice*. 2022 Sep; 191:110077. doi: 10.1016/j.diabres.2022.110077.

21. Winn N.C. *, Cottam M.A.* , Bhanot M., **Caslin H.L.**, Garcia J.N., Arrojo E Drigo R, Hasty A.H. Weight cycling impairs pancreatic insulin secretion but does not perturb whole-body insulin action in diet-induced obese mice. *Diabetes*. 2022 Jul 8;db220161. doi: 10.2337/db22-0161.
20. Cottam M.A.* , **Caslin H.L.***, Winn N.C., Hasty A.H. Multiomics reveals persistence of obesity-associated immune cell phenotypes during weight loss and subsequent weight regain. *Nature Communications*. 2022 May 26;13(1):2950. doi: 10.1038/s41467-022-30646-4.
19. Taruselli M.T., Kolawole E.M., Qayum A.A., Haque T., **Caslin H.L.**, Ababayehu D., Keeb S.A., Daileya J., Jackson K., Spence A.J., Pondicherry N., Barnstein B.O., Gomez G., Straus D.B., Ryan J.J. Fluvastatin Enhances IL-33-mediated Mast Cell IL-6 and TNF Production. *Cellular Immunology*. 2021 Nov 24;371:104457. doi: 10.1016/j.cellimm.2021.104457.
18. **Caslin H.L.**, Ababayehu D., Pinette J.A., Ryan J.J. Not solely a metabolic by-product, lactate shapes immune cell fate and function. *Frontiers in Physiology*. 2021 Oct; 12. doi: 10.3389/fphys.2021.688485. ****Invited review, corresponding author**
17. Kouame E., Noel J.C., Wane M., Babdor J., **Caslin H.L.**, Fan A., Mbiribindi B., Sattler S., Mobley A.S. Black in Immuno Week: Who We Are, What We Did, and Why It Matters. *Journal of Immunology*. 2021; 207 (8). doi: 10.4049/jimmunol.2100667
16. Tennent N.S[†], **Caslin H.L.**, Cottam M.A., Hasty A.H. Adipose Tissue Macrophage Transcriptome Suggest Trained Innate Immunity Formation in Response to Weight Cycling. *Young Scientist*. May 2021.
15. Paez P.A, Kolawole E.M, Taruselli M.T, Ajith S, Dailey J.M, Kee S.A, Haque T.T, Barnstein B.O, McLeod J.J.A., **Caslin H.L.**, Kiwanuka K.N, Fukuoka Y, Le Q.T, Schwartz L.B, Straus D.B, Gewirtz D.A, Martin R.K, Ryan J.J. Fluvastatin Induces Apoptosis in Primary and Transformed Mast Cells. *Journal of Pharmacology and Experimental Therapeutics*. 2020 May 2; jpet.119.264234. doi: 10.1124/jpet.119.264234.
14. **Caslin H.L.***, Bhanot M.* , Bolus W.R., Hasty A.H. Adipose tissue macrophages: unique polarization and bioenergetics in obesity. *Immunological Reviews*. 2020; 00:1-13. doi: 10.1111/imr.12853.
13. **Caslin H.L** and Hasty A.H. Extrinsic and Intrinsic Immunometabolism Converge: Perspectives on Future Research and Therapeutic Development for Obesity. *Current Obesity Reports*. 2019 Sep;8(3):210-219. doi: 10.1007/s13679-019-00344-2. Review.
12. **Caslin H.L.**, Ababayehu D., Abdul Qayum A., Paez P.A., Hoferlin L.A., Chalfant C.E., Ryan JJ. Lactic acid limits glycolysis and ATP availability effectively reducing LPS-induced cytokine production in mast cells and in vivo. *Journal of Immunology*. 2019 Jul 15;203(2):453-464. doi: 10.4049/jimmunol.1801005.
11. Ababayehu D., Spence A.J., **Caslin H.L.**, Taruselli M.T., Kolawole E.M., Chumanovich A.P., Sell S., Oskeritzian C.A., Ryan J.J. Lactic acid suppresses IgE-mediated mast cell function in vitro and in vivo. *Cellular Immunology*. 2019 Jul;341:103918. doi: 10.1016/j.cellimm.2019.04.006. Epub 2019 Apr 12.
10. **Caslin H.L.**, Taruselli M.T., Haque T.T., Pondicherry N., Baldwin E.A., Barnstein B.O., Ryan J.J. Inhibiting glycolysis and ATP production attenuates IL-33-mediated cytokine production in mast cells and IL-33-induced peritonitis. *Frontiers in Immunology*. 2018; 9. doi:10.3389/fimmu.2018.03026

9. **Caslin H.L.**, Kiwanuka K.N., Haque T.T., Taruselli M.T., MacKnight H.P., Paranjape A., Ryan J.J. Controlling Mast Cell Activation and Homeostasis: Work Influenced by Bill Paul that Continues Today. *Frontiers in Immunology*. 2018 Apr; 9: 868. doi:10.3389/fimmu.2018.00868
8. McCleod J.*, **Caslin H.L.***, Spence A.J., Elford H., Ryan J.J. Didox (3,4-dihydroxybenzohydroxamic acid) suppresses IgE-mediated mast cell activation through attenuation of NFκB and AP-1 transcription in primary mouse cells. *Cellular Immunology*. 2017 Dec; 322:41-48. doi: 10.1016/j.cellimm.2017.09.008
7. **Caslin H.L.***, McCleod J.*, Spence A.J., Abdul Qayum A., Kolawole E.M., Taruselli M., Paranjape A., Elford H., Ryan J.J. Didox (3,4-dihydroxybenzohydroxamic acid) suppresses IL-33-induced cytokine production in primary mouse mast cells. *Cellular Immunology*. 2017 Sep; 319:10-16. doi: 10.1016/j.cellimm.2017.04.013
6. Ndaw V., Ababayehu D., Spence A.J., Paez P.A., Kolawole E.M., Taruselli M., **Caslin H.L.**, Chumanovich A.P., Paranjape A., Baker B., Barnstein B.O., Haque T.T., Kiwanuka K.N., Oskertizian C.A., Ryan J.J. TGFβ1 Suppresses IL-33-induced Mast Cell Activation. *Journal of Immunology*. 2017 Aug 1;199(3):866-873. doi: 10.4049/jimmunol.1601983.
5. Ababayehu D., Spence A.J., Abdul Qayum A. Taruselli M., McLeod J., **Caslin H.L.**, Kolawole E., Ndaw V., Barnstein B.O., Oskertizian C.A., Ryan J.J. Lactic acid suppresses IL-33-mediated mast cell inflammatory responses via HIF-1 dependent miR-155 suppression. *Journal of Immunology*. 2016; 197(7):2909-17. doi: 10.4049/jimmunol.1600651
4. Crabb E.B., Franco R.L., **Caslin H.L.**, Blanks A.M., Bowen M.K, Acevedo E.O. The effect of physical and mental stress on soluble adhesion molecule concentrations. *Life Sciences*. 2016 May 31. pii: S0024-3205(16)30341-1. doi: 10.1016/j.lfs.2016.05.042.
3. Abdul Qayum A., Paranjape A., Ababayehu D., Kolawole E.M., Haque T.T., McLeod J.J.A., Spence J.A., **Caslin H.L.**, Baker B., Taruselli M.T., Oskertizian C.A., Ryan J.J. IL-10-induced miR-155 targets SOCS1 to enhance IgE-mediated mast cell activation and passive systemic anaphylaxis in mice. *Journal of Immunology*. 2016; 196(11):4457-67. doi: 10.4049/jimmunol.1502240
2. **Caslin H.L.**, Crabb E.B, Huang C.J., Bowen M.K, Acevedo E.O., Franco R.L. The effect of obesity on inflammatory cytokine and leptin production following acute mental stress. *Psychophysiology*. 2016; 53(2):151-8. doi: 10.1111/psyp.12568
1. Crabb E.B., Bowen M.K, Huang C.J., **Caslin H.L.**, Acevedo E.O., Franco R.L. G protein-coupled receptor kinase-2 in peripheral blood mononuclear cells following acute mental stress. *Life Sciences*. 2016; 145:184-9. doi: 10.1016/j.lfs.2015.12.035

Book Chapters

1. **Caslin H.L.**, Taruselli M.T., Paranjape A., Kiwanuka K., Haque T., Oskertizian C.A., Ryan J.J. The Use of Human and Mouse Mast Cell and Basophil Cultures to Assess Type 2 Inflammation. *Methods in Molecular Biology*. 2018; 1799:81-92. doi: 10.1007/978-1-4939-7896-0_8.

Manuscripts in Submission

Taruselli M.T., Qayum A.A., Ababayehu D., **Caslin H.L.**, Haque T., Ryan J.J. IL-33 induces cellular and exosomal miR-146a expression as a feedback inhibitor of mast cell function.

Submitted, *Journal of Immunology*, Dec 2022.

Caslin H.L., Cottam M.A., Betjemann A.M.[†], Mashayekhi M., Silver, H.J., Hasty A.H. Weight cycling induces a novel lipid-associated mast cell population.

In revision, *Cellular Immunology*, Aug 2023, ***corresponding author**.

Caslin H.L.*, Bolus W.R.*, Norlander A.E., Thomas C., Toki S., Peebles R.S., Hasty A.H. Bovine serum albumin elicits IL-33-dependent adipose tissue eosinophilia: potential relevance for models of allergic disease. Submitted, *Immunohorizons*, Aug 2023

Invited Presentations

3. "Immunological memory in weight cycling", Adipose Biology Seminar Series, Medicine by Design and University of Toronto, June 2022
2. "Defining monocytes and macrophages", Lee Franco Lab Meeting, Sept 2020
1. "Do adipose tissue macrophages remember obesity?", John Ryan Lab Meeting, May 2020

Oral Conference Presentations

5. **Caslin H.L.**, Cottam M.A., Betjemann A., Mashayekhi M., Silver H.J., Hasty A.H. Weight cycling may induce lipid handling in mast cells.

Annual American Association of Immunologists Conference. Washington, DC (May 2023)

4. **Caslin H.L.** Do adipose macrophages remember obesity? Innate immune memory in weight cycling.
Vanderbilt Vi4 Annual Symposium. Nashville, TN (Apr 2023)
Selected for presentation as Outstanding Vanderbilt Vi4 Postdoctoral Trainee

3. **Caslin H.L.**, Cottam M.A., Winn N.W., Hasty A.H. Do adipose macrophages remember obesity? Innate immune memory in weight cycling.

International Society of Exercise Immunology. Tucson, AZ (Oct 2022)

*Honorable mention for oral presentation award

2. **Caslin H.L.**, Cottam M.A., Winn N.W., Hasty A.H. Do adipose macrophages remember obesity? Innate immune memory in weight cycling.

Annual American Association of Immunologists Conference. Portland, OR (May 2022)

1. **Caslin H.L.**, Abebayehu D., Abdul Qayum A., Hoeflerlin L.A., Chalfant C.E., Ryan JJ. Lactic acid suppresses LPS-induced cytokine production in mast cells by limiting glycolysis and ATP availability.

Annual American Association of Immunologists Conference. Austin, TX (May 2018)

Select Conference Poster Presentations

11. **Caslin H.L.**, Cottam M.A., Betjemann A., Mashayekhi M., Silver H.J., Hasty A.H. Weight cycling may induce lipid handling in mast cells.

Annual American Association of Immunologists Conference. Washington, DC (2023)

10. **Caslin H.L.**, Cottam M.A., Winn N.W., Hasty A.H. Do adipose macrophages remember obesity? Innate immune memory in weight cycling.

Annual American Association of Immunologists Conference. Portland, OR (2022)

9. Weight loss does not reverse the inflammatory phenotype of adipose tissue macrophages following obesity: implications for metabolic memory and impaired glucose tolerance in weight cycling.

Annual American Association of Immunologists Conference. Honolulu, HI (2020)

**Abstract accepted, Conference cancelled due to COVID-19

8. **Caslin H.L.**, Cottam M.A., Hasty A.H. Weight loss restores glucose tolerance but does not reverse macrophage inflammatory potential following obesity.

Tissue Immunity Keystone. Boulder, CO (2020)

7. **Caslin H.L.**, Bolus W.R., Cottam M.A., Hasty A.H. Intraperitoneal bovine serum albumin (BSA) injections suggest a novel link between adipose tissue eosinophils and allergic immunity.

Immunometabolism, Metaflammation & Metabolic Disorders Keystone. Vancouver, CA (2020)

6. **Caslin H.L.**, Abebayehu D., Abdul Qayum A., Hoeflerlin L.A., Chalfant C.E., Ryan JJ. Lactic acid suppresses LPS- induced mast cell activation and septic shock.
National American College of Sports Medicine Conference. Denver, CO (2017)
5. **Caslin H.L.**, Abebayehu D., Abdul Qayum A., Hoeflerlin L.A., Chalfant C.E., Ryan JJ. Lactic acid suppresses LPS-induced cytokine production in vitro and in vivo.
Annual American Association of Immunologists Conference. Washington, DC (2017)
4. **Caslin H.L.**, Abebayehu D., Abdul Qayum A., Spence A.J., Ryan JJ. Lactic acid suppresses cytokine production and expression of miR-155 and 146a following LPS activation in mast cells.
Annual American Association of Immunologists Conference. Seattle, WA (2016)
3. **Caslin H.L.**, Abebayehu D., Spence A.J., Abdul Qayum A., Ryan JJ. Lactic acid attenuates LPS-induced cytokine production in mast cells
VCU Integrative Life Sciences Student Symposium. Richmond, VA (2015)
Annual American Association of Immunologists Conference. New Orleans, LA (2015).
VCU Graduate Student Research Symposium. Richmond, VA (2015) ***Award Finalist**
2. **Caslin H.L.**, Crabb E.B, Huang C.J., Bowen M.K, Acevedo E.O., Franco R.L. Impact of obesity on norepinephrine and TNF- α following mental stress.
National American College of Sports Medicine Conference. Orlando, FL (2014)
VCU Graduate Student Research Symposium. Richmond, VA (2014)
Southeast American College of Sports Medicine Conference. Greenville, SC (2014)
1. **Caslin H.L.**, Bowen M.L., An K., Acevedo E.O., Franco R.L. Fitness and heart rate reactivity to mental stress: Impact of obesity.
National American College of Sports Medicine Conference. Indianapolis, IN (2013)
VCU Graduate Research Symposium and Exhibit. Richmond, VA (2013)
Southeast American College of Sports Medicine Conference. Greenville, SC (2013)

TEACHING

University Courses Taught

Vanderbilt University

- | | |
|------|---|
| 2023 | Immunometabolism (2 classes)
Interdisciplinary Graduate Program, Lecturer |
| 2023 | Principles of Immunology and the Immune System in Disease (2 cr)
Interdisciplinary Graduate Program, Course Associate/ Discussion Facilitator |
| 2022 | Bioregulation Proposal Development Block (3 wk)
Interdisciplinary Graduate Program, Discussion Facilitator |

Virginia Commonwealth University

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| 2016 | Capstone Laboratory (2 cr)
Department of Biology, Teaching Assistant |
| 2015-2016 | Integrative Life Science Research (3 cr)
Life Sciences, Teaching Assistant/ Discussion Facilitator |
| 2013- 2014 | Assessment and Exercise Intervention in Health and Disease (3 cr)
Department of Health and Human Performance, Instructor of Record |
| 2013-2014 | Clinical Experience I (3 cr)
Department of Health and Human Performance, Instructor of Record |
| 2013-2014 | Exercise Physiology Lab (1 cr)
Department of Health and Human Performance, Instructor of Record |

2013-2014 **Medical Terminology (1 cr)**
Department of Health and Human Performance, Instructor of Record

Guest Lectures

2015 **Sport Nutrition**
Department of Health and Human Performance, 1 Guest Lecture

2013 **Exercise Physiology**
Department of Health and Human Performance, 4 Guest Lectures

Courses Taken

VCU Preparing Future Faculty Program

The Academic Profession
Teaching and Learning in Higher Ed
Teaching, Learning, Technology and the Future of Higher Ed

Vanderbilt Center for Teaching

An Introduction to Evidence-Based Undergraduate STEM Teaching (Online MOOC)
Certificate in College Teaching Course

Boston University x EdX online

The Inclusive Stem Teaching Project (Online MOOC)

Training in Mentorship, Inclusion, Diversity, and Leadership

2020 Speaking Up: Bias Awareness & Intervention In The Remote Workplace, Vanderbilt University via University of New Hampshire PowerPlay & Inclusion Works Inc.

2020 "Leading scientific team and project meetings" and "Difficult conversations and interactions in the research workplace: Fundamentals of negotiation" with Carl M. Cohen, Vanderbilt University

2020 "Strategies for Mentoring Underrepresented Minority Students" via UPenn and Harvard Medical School

2020 Disrupting Everyday Bias, Vanderbilt University

2020 Science communication techniques for advancing justice, equity, diversity, and inclusion (JEDI), RBR 2020 Cohort Sci Comm Workshops

2020 MAPS: Mental Health Awareness and the Prevention of Suicide training

2020 "APS Live: EB Featured Topics: Mentoring Symposium: Imposters, Promoters, Leaders - The Scientific Struggles", American Physiological Society Webinar

2020 "From Bystander to Upstander: take action to combat harassment and aggression", NIH OITE Webinar

2019 "Fair Play" Stereotype and Bias training, Vanderbilt University

2019 Vanderbilt Summer Science Academy Mentorship training, Vanderbilt University

MENTORING

Azuah Gonzalez VI4 DEI Mentorship Program mentee 2022-2023
Vanderbilt University (1 hr/ month)

Jacque Piñon Undergraduate research assistant 2021-2022
Vanderbilt University (~9 hrs/wk, 32 wks)
**University of New Mexico medical student*
**co-author on published work*

Alexis Betjemann Undergraduate research assistant 2020-2023
Vanderbilt University (~2-9 hrs/wk, 50 wks)

**co-author on paper in submission*

Jennifer Battle	VI4 DEI Mentorship Program mentee 2021-2023 Vanderbilt University (1 hr/ month)
Josephine Chu	VI4 DEI Mentorship Program mentee 2020-2021 Bridge to Vanderbilt program, Fisk University Vanderbilt University (1 hr/ month)
Likem Boney	Undergraduate volunteer -> paid research assistant 2018- 2021 Vanderbilt University (~2-8 hrs/ wk, 32 wks) <i>*Awarded 2020 dkNET Summer of Data Student Internship</i> <i>*Mayo Clinic MD/PhD student</i> <i>*co-author on published work</i>
Sofia Tennent	SSMV high school student 2020 Vanderbilt University (~2-4 hrs/ wk, 16 wks) <i>**Published in Young Scientist</i>
Jade McDaniel	Graduate rotation student (IGP PhD program) 2020 Vanderbilt University (~30 hrs/ wk, 8 wks)
Verda Agan	Graduate rotation student (IGP PhD program) 2020 Vanderbilt University (~30 hrs/ wk, 8 wks) Graduate research assistant 2019 Vanderbilt University (~9 hrs/wk, 16 wks)
Darian Thomas	Graduate rotation student (IGP PhD program) 2019 Vanderbilt University (~30 hrs/ wk, 8 wks)
Kylie Fletcher	UCRIP summer internship student 2019 Vanderbilt & University of South Carolina (30 hrs/ wk, 8 wks) <i>*Vanderbilt University Medical Student 2020-2024</i>
Arya Nakhe	Graduate rotation student (IGP PhD program) 2018 Vanderbilt University (~30 hrs/ wk, 8 wks)
Katie Volk	Graduate rotation student (IGP PhD program) 2018 Vanderbilt University (~30 hrs/ wk, 7 wks) <i>*Joined the Hasty Lab</i>
Jordan Rasure	Grad School Mentorship Program mentee 2017-2018 Virginia Commonwealth University (~1 hr/ wk, 20 wks) <i>*Montana Conservation Corps Intern 2020</i>
Melissa Bills	HERO-T fellow 2016- 2017 Virginia Commonwealth University (~8 wks at 40 hrs/ wk) <i>*Middle school science teacher</i>
Stephanie Demasi	Clinical Internship II intern, undergraduate student 2014 Virginia Commonwealth University (~40 hrs/ wk, 16 wks) <i>*MD, Attending physician at Virginia Commonwealth University</i>

Susan Teasley

Clinical Internship II intern, undergraduate student 2013
Virginia Commonwealth University (~20 hrs/ wk, 16 wks)

SERVICE

Membership

2019- present Society for Leukocyte Biology (SLB)
2019- present American Heart Association (AHA)
2015- present American Association of Immunology Member (AAI)
2011- present American College of Sports Medicine Member (ACSM)
2015- 2018 Sigma Xi Associate Member
2009- 2018 Phi Kappa Phi Honor Society Member
2011- 2015 Southeast Chapter of the American Conference of Sports Medicine (SEACSM) Member

Manuscript Review

2023 Review Editor: *Frontiers in Immunology*, Molecular Innate Immunity

Ad hoc review

2023 *JCI Insight*
2022-2023 *Frontiers in Immunology*
2022 *Scientific Reports*
2022 *Frontiers in Cardiovascular Medicine*
2020 *Life Sciences*
2018-2020 *International Journal of Obesity*
2015, 2016 *Psychophysiology*

Grant Review

2021(x2) AHA Fellowship Peer Reviewer in Training: Immunology Basic Sciences

University and Service to the Field, Outreach, and Leadership

2021-2022 Vanderbilt Molecular Physiology and Biophysics DEI Committee
2021-2022 Intersectional Science Fellows Symposium Selection and Post Symposium Committees
Moderator for Funding Workshop in 2021 Symposium
2020-2022 Black In Immuno Board Member and Secretary
Organizer for Black in Immuno Weeks and Public Relations Coordinator
2020-2021 Vanderbilt Biomedical Research and Training Career Symposium Planning Committee
2020 Vanderbilt University Women in the Academy Program Planning Committee
2019-2020 Outreach Advisor and Mentorship Chair, Vanderbilt University- Women In Science and Engineering: Coordinated Expanding Your Horizons volunteer experience with MTSU, coordinated and taught School for Science and Math at Vanderbilt lessons: Proteins and Immune/ Viral Interactions, coordinated two peer mentorship lunches, coordinated the VU-Wise Near Peer Mentorship program
2018-2020 VU Provost's Women's Advancement & Equity Subcommittee Member for Parental Leave, Childcare, and Family Friendly Policies
2019 CSO High School Research Symposium Judge (for SSMV and RHSS students)
2018-2019 Vanderbilt Tiered Mentoring Program Participant
2018-2019 Outreach Committee, Vanderbilt University- Women In Science and Engineering: Coordinated and taught Lab and Lessons for SSMV: Microtubules and the Cytoskeleton and Cell Metabolism
2018 Vanderbilt Undergraduate Research Fair Judge
2018 "My Research Journey" Panelist for Life Sciences Careers course
2018 "Making the Most of Conferences" Panelist for Fisk-Vanderbilt Bridge students

2018 "Time and Task Management in Graduate School" Panelist for incoming Fisk-Vanderbilt Bridge students
 2017-2018 VCU Graduate School Mentorship Program Mentor
 2017-2018 Search Committee Student Member (x2)- CSBC Director position
 2017-2018 Integrative Life Sciences Student Organization- President
 ILS Student Research Symposium Coordinator (2018)
 2017 "New Graduate Teaching Assistants Welcome" Panelist for incoming VCU GTAs
 2016-2017 Integrative Life Sciences Student Organization- Board Member at Large
 ILS Student Research Symposium Coordinator (2017)
 2016 VCU Honors Summer Undergraduate Research Dinner Panelist
 2013 Career Options Panelist for the VCU Exercise Science Club

Community Outreach

2022 Tallo Ask Me Anything with high school and undergraduate students
 2020 MEGAMicrobe Science at Home Videos ([Fireworks and Make it Rain](#)), Vanderbilt Institute for Infection, Immunology and Inflammation
 2019 STEM Goes Red Mentor, Middle Tennessee Event, American Heart Association
 2018 MEGAMicrobe Volunteer, Vanderbilt Institute for Infection, Immunology and Inflammation
 2016, 2017 Lab tour/ activity for high school students invited by VCU HERO-T Fellows
 2016, 2017 Lab activity with high school students from the Summer Residential Governor's School Medicine and Health Sciences program
 2016 Immunology class/ game with Holman Middle School students
 2016 VCU Women in Science Girl Scout Day Guide
 2016 Richmond Public Schools STEM Fair Judge
 2011- 2013 Cosby High School Tour of the Exercise Physiology Lab

SCIENCE COMMUNICATION

Public Scholarship and Communication

2. Interview, podcast. [Vaccines and Immunology](#). 2020
 1. Interview, podcast. [Are Vaccines Safe? 15+ Nuanced Responses To Common Questions](#). 2020

Article Summaries for University Press

2020 BRET Office Results and Discussion Interview
<https://cdn.vanderbilt.edu/vu-web/medschool-wpcontent/sites/5/2020/06/06115639/Issue-11-2021.pdf>
 2020 VU Basic Sciences New Discoveries:
[Late-night meals may reduce how much fat your body burns at night](#)
[Cellular stress regulates \$\beta\$ -cell dysfunction in type 2 diabetes](#)
 2020 VUMC Reporter: [Race, Hormones, and Diabetes Risk](#)

Courses

2020 Science for Everyone, AHA **pilot tested and reviewed*

OTHER WORK EXPERIENCE

Clinical Experience

2012-2013 **Rehabilitation Technician**, Bon Secours Physical Therapy, Richmond, VA
 2011-2013 **Rehabilitation Technician**, Physiotherapy Associates, Richmond, VA
 2010 **Intern**, Olympic Training Center Sports Medicine Clinic, Colorado Springs, CO
 2010 **Intern**, TEENS program, VCU Health and Human Performance Lab, Richmond, VA
 2009 **PT Aide & Office Assistant**, Berryville Physical Therapy and Wellness, Berryville, VA
 2008 **PT Aide & Office Assistant**, Purcellville Orthopedic PT, Purcellville, VA

Volunteer Work

2020	Vanderbilt COVID-19 Family Support Volunteer
2018-2019	Girls on the Run Assistant Coach, Haywood Elementary and Haynes Middle School
2018	Hands on Nashville Volunteer Day: Serve in Schools
2018	Lab Volunteer Project with Grow Production Gardens and The Nashville Food Project
2017	Girls on the Run 5k Committee and Race Day Volunteer (Richmond)
2016	Ragnar Relays Richmond Volunteer
2014, 2015	Richmond Road Runners Volunteer