

Curriculum Vitae: updated March 1st, 2024

I. Identifying Data

Name Cameron S. Bader, PhD
Current Position Postdoctoral Scholar
Current Affiliation Stanford University

II. Education History

Universities Attended

08/2015 - 05/2021 PhD, Immunology, University of Miami Miller School of Medicine
09/2010 - 06/2013 BS with Honors, Biological Sciences, University of California, Irvine
09/2009 - 06/2010 Biology, University of California, Riverside

III. Employment

Academic Appointments

05/2021 - present Postdoctoral Scholar, Division of BMT and Cell Therapy
Stanford University School of Medicine, Stanford, CA

IV. Honors and Awards

2021 Graduate Student Best Research Award 1st Place Winner
2020 St. Jude National Graduate Student Symposium Invitee
2019 – Present NCI Predoctoral to Postdoctoral Transition Award (F99/K00) Recipient
2019 Academic Excellence, Leadership, and Service Award, University of Miami
2019 Graduate Student Best Research Award 3rd Place Winner
2018 – 2019 NCI NRSA F31 Fellowship Award Recipient
2018 Sylvester Comprehensive Cancer Center Trainee Travel Award
2018 Office of Graduate Studies Travel Award, University of Miami
2017, 2018, 2019 American Society of Hematology Abstract Achievement Award
2013 B.S. awarded with Campuswide Honors, UC Irvine
2011 Summer Undergraduate Research Program Fellow, UC Irvine
2011 Undergraduate Research Opportunities Program Grant, UC Irvine

V. Bibliography

Peer-reviewed Original Research (10 total)

1. **Bader CS**, Pavlova A, Lowsky R, Muffly LS, Shiraz P, Arai S, Johnston LJ, Rezvani AR, Weng WK, Miklos DB, Frank MJ, Tamaresis JS, Agrawal V, Bharadwaj S, Sidana S, Shizuru JA, Fernhoff NB, Putnam A, Killian S, Xie BJ, Negrin RS, Meyer EH. Single-center randomized trial of T-reg graft alone vs T-reg graft plus tacrolimus for the prevention of acute GVHD. *Blood Advances*, 2024. doi: 10.1182/bloodadvances.2023011625. PMID: 38091578.
2. Barreras H, Copsel SN, **Bader CS**, Ding Y, Wolf D, Cash C, Stacey CJ, Benjamin C, Seavey MM, Wolf J, Jasuja RR, Pfeiffer B, Hill GR, Komanduri KV, Jurecic R, Malek TR, Levy RB. Regulatory T Cell Amelioration of Graft-versus-Host Disease following Allogeneic/Xenogeneic Hematopoietic Stem Cell

Transplantation Using Mobilized Mouse and Human Peripheral Blood Donors. *Transplantation and Cellular Therapy*, 2023. doi: 10.1016/j.jtct.2023.02.015. PMID: PMC10149591.

3. Pérez-Cruz M, Iliopoulou BP, Hsu K, Wu HH, Erkers T, Swaminathan K, Tang SW, **Bader CS**, Kambham N, Xie B, Dekruyff RH, Freeman GJ, Meyer E. Immunoregulatory effects of RGMb in gut inflammation. *Frontiers in Immunology*, 2022. doi: 10.3389/fimmu.2022.960329. PMID: PMC9676481.
4. **Bader CS**, Jin L, Levy RB. STING and Transplantation: Can targeting this pathway improve outcomes? *Blood*, 2021. doi: 10.1182/blood.2020008911. PMID: PMC8033456.
5. Lightbourn CO, Wolf D, Copsel SN, Wang Y, Pfeiffer BJ, Barreras H, **Bader CS**, Komanduri KV, Perez VL, Levy RB. Use of Post-transplant Cyclophosphamide Treatment to Build a Tolerance Platform to Prevent Liquid and Solid Organ Allograft Rejection. *Frontiers in Immunology*, 2021. doi: 10.3389/fimmu.2021.636789. PMID: PMC7962410.
6. **Bader CS**, Barreras H, Lightbourn CO, Copsel SN, Wolf D, Meng J, Ahn J, Komanduri KV, Blazar BR, Jin L, Barber GN, Roy S, Levy RB. STING differentially regulates experimental GVHD mediated by CD8 versus CD4 T cell subsets. *Science Translational Medicine*, 2020. doi: 10.1126/scitranslmed.aay5006. PMID: PMC7392054.
7. Copsel SN, Lightbourn CO, Barreras H, Lohse I, Wolf D, **Bader CS**, Manov J, Kale BJ, Shah D, Brothers SP, Perez VL, Komanduri KV, Wahlestedt C, Levy RB. BET Bromodomain Inhibitors Which Permit Treg Function Enable a Combinatorial Strategy to Suppress GVHD in Pre-clinical Allogeneic HSCT. doi: 10.3389/fimmu.2018.03104. *Frontiers in Immunology*, 2018. PMID: PMC6353853.
8. Wolf D, **Bader CS**, Barreras H, Copsel S, Pfeiffer BJ, Lightbourn CO, Altman NH, Komanduri KV, Levy RB. Superior immune reconstitution using Treg-expanded donor cells versus PTCy treatment in preclinical HSCT models. *JCI Insight*, 2018. doi: 10.1172/jci.insight.121717. PMID: PMC6237457.
9. Copsel S, Wolf D, Kale B, Barreras H, Lightbourn CO, **Bader CS**, Alperstein W, Altman NH, Komanduri KV, Levy RB. Very Low Numbers of CD4⁺ FoxP3⁺ Tregs Expanded in Donors via TL1A-Ig and Low-Dose IL-2 Exhibit a Distinct Activation/Functional Profile and Suppress GVHD in a Preclinical Model. *Biology of Blood and Marrow Transplantation*, 2018. doi: 10.1016/j.bbmt.2018.04.026. PMID: PMC6163068.
10. Wolf D, Barreras H, **Bader CS**, Copsel S, Lightbourn CO, Pfeiffer BJ, Altman NH, Podack ER, Komanduri KV, Levy RB. Marked in Vivo Donor Regulatory T Cell Expansion via Interleukin-2 and TL1A-Ig Stimulation Ameliorates Graft-versus-Host Disease but Preserves Graft-versus-Leukemia in Recipients after Hematopoietic Stem Cell Transplantation. *Biology of Blood and Marrow Transplantation* 2017. doi: 10.1016/j.bbmt.2017.02.013. PMID: PMC5625339.

First-author Conference Presentations (7 total, 4 oral, 3 poster)

1. **Bader CS**, Barreras H, Lightbourn CO, Copsel S, Wolf D, Meng J, Ahn J, Komanduri, KV, Blazar BR, Jin L, Barber GN, Roy S, Levy RB. The Innate Immune Sensor STING Promotes Donor CD8⁺ T cell Activation and Recipient APC Death Early After Preclinical Allogeneic Hematopoietic Stem Cell Transplantation. *Abstract for oral presentation at the 2020 Transplantation and Cellular Therapy Annual Meeting, Orlando, FL.*
2. **Bader CS**, Barreras H, Lightbourn CO, Copsel S, Wolf D, Meng J, Ahn J, Komanduri, KV, Blazar BR, Jin L, Barber GN, Roy S, Levy RB. The Innate Immune Sensor STING Promotes Donor CD8⁺ T cell Activation and Recipient APC Death Early After Preclinical Allogeneic Hematopoietic Stem Cell

Transplantation. *Abstract for poster presentation at the 2019 American Society of Hematology Annual Meeting, Orlando, FL.*

3. **Bader CS**, Barreras H, Lightbourn CO, Copsel S, Meng J, Ahn J, Barber GN, Jin L, Roy S, Levy RB. The Innate Immune Sensor STING Promotes CD8⁺ T Cell-mediated GVHD After Preclinical Allogeneic Hematopoietic Stem Cell Transplantation. *Abstract for oral presentation at the 2019 Transplantation and Cellular Therapy Annual Meeting, Houston, TX.*
4. **Bader CS**, Barreras H, Lightbourn CO, Copsel S, Ahn J, Barber GN, Jin L, Levy RB. The Innate Immune Sensor STING Regulates Intestinal Inflammation and GVHD after Allogeneic Hematopoietic Stem Cell Transplantation in Knock-out and Human Allele Knock-in Recipient Mice. *Abstract for oral presentation at the 2018 American Society of Hematology Annual Meeting, San Diego, CA.*
5. **Bader CS**, Barreras H, Lightbourn CO, Copsel S, Ahn J, Barber GN, Levy RB. The Innate Immune Sensor STING Can Augment or Ameliorate Graft-Versus-Host Disease Dependent on the Genetic Disparity between Donors and Recipients. *Abstract for poster presentation at the 2018 American Society of Blood and Marrow Transplantation Annual Meeting, Salt Lake City, UT.*
6. **Bader CS**, Barreras H, Lightbourn CO, Copsel S, Ahn J, Barber GN, Levy RB. The Innate Immune Sensor STING Can Augment or Ameliorate Graft-Versus-Host Disease Dependent on the Genetic Disparity between Donors and Recipients. *Abstract for oral presentation at the 2017 American Society of Hematology Annual Meeting, Atlanta, GA.*
7. **Bader CS**, Barreras H, Lightbourn C, Copsel S, Ahn J, Barber GN, Levy RB. The Innate Immune Sensor STING Regulates Graft-Versus-Host Disease in Pre-Clinical Models of Allogeneic Hematopoietic Stem Cell Transplantation. *Presented as late-breaking abstract for poster presentation at the 2017 American Society of Blood and Marrow Transplantation Annual Meeting, Orlando, FL.*

VI. Grant Funding

Current:

09/2019 - 08/2025

Funder: NCI (F99/K00)

Title: The regulation of innate immune sensors to control GVHD and GVL after allogeneic hematopoietic stem cell transplantation

Role: PI

Completed:

01/2018 - 08/2019

Funder: NCI (F31)

Title: The contribution of the innate immune sensor STING in GVHD and GVL following allogeneic hematopoietic stem cell transplantation

Role: PI

VII. Patents

Invention Disclosure: STING regulation of graft versus host disease following hematopoietic stem cell transplantation

VIII. Service as Reviewer

2018

Translational Research

2021 – Present

Frontiers in Immunology

IX. University Administrative Service

- 2020 - 2021 Anti-Racism Book Club Committee Member, University of Miami
- 2020 - 2021 Diversity and Inclusion Committee Founding Member, University of Miami
- 2018 - 2019 Graduate Forum Committee Member, University of Miami
- 2017 - 2019 Microbiology and Immunology Graduate Program Class President, University of Miami
- 2017 Lead Committee Member, Enrique Cepero Memorial Lecture, University of Miami

X. Service to Professional Organizations

Memberships

- 2017 - 2021 American Society of Blood and Marrow Transplantation
- 2017 - 2021 American Society of Hematology