

Brittany Fenner, M.D.

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Education

M.D., University of Kentucky, Lexington, KY, with distinction	07/2013 – 05/2017
B.S., Chemistry, Furman University, Greenville, SC, magna cum laude	08/2009 – 05/2013

Postgraduate Training

Internship – General Surgery University of Florida, Gainesville, FL	07/2017 – 06/2024
T32 Research Fellow – Sepsis and Critical Illness Research Center Department of Surgery, University of Florida, Gainesville, FL	07/2020 – 06/2022
Residency – General Surgery University of Florida, Gainesville, FL	07/2018 – 06/2024
Fellowship – Surgical Critical Care University of Pittsburgh Medical Center, Pittsburgh, PA	08/2024 – 07/2025
Fellowship – Acute Care Surgery University of Pittsburgh Medical Center, Pittsburgh, PA	08/2025 – Present

Other Positions and Employment

MCAT Tutor, Kaplan Test Prep, Lexington, KY
Chemistry Research Associate, Furman University, Greenville, SC
Sales Associate, American Eagle, Lexington, KY
Shift Leader, Coldstone Creamery, Lexington, KY

Leadership Positions and Volunteer Activities

Social Media Committee Member
American Association for the Surgery of Trauma

EGS Committee Member
University of Pittsburgh, Pittsburgh, PA

Quality Improvement Project Leader – Post-Operative Sign-Out
University of Pittsburgh, Pittsburgh, PA

Quality Improvement Project Leader – Discharge Metrics
University of Florida, Gainesville, FL

Resident Recruitment Task Force
University of Florida, Gainesville, FL

Resident Wellness Committee
University of Florida, Gainesville, FL

Physician Student Mentorship Program – President
University of Kentucky, Lexington, KY

Dean's Student Council for Admissions
University of Kentucky, Lexington, KY

Surgery on Sunday
University of Kentucky, Lexington, KY

Ward O. Griffen Surgical Society – Student Government Representative
University of Kentucky, Lexington, KY

Salvation Army Clinic – Physician Recruitment
University of Kentucky, Lexington, KY

Panhellenic Council – VP of Recruitment

Honors and Awards

Gold Medal – Surgical Olympics

University of Florida, Gainesville, FL

Francis S. Massie Award

University of Kentucky, Lexington, KY

Outstanding Leadership and Community Service Award

University of Kentucky, Lexington, KY

Physician Student Mentored Research Fellowship Grant

University of Kentucky, Lexington, KY

Educational Activities

Invited Lectures

"Commonly Missed Traumatic Injuries" – University of Pittsburgh, Department of Emergency Medicine

ITLS Instructor – Ford City EMS, UPMC Prehospital Care

"BRIDGE-ing Better Communication Between Teams" – UPMC Regional GME Committee

AAST Acute Care Surgery Fellowship Journal Club

Teaching Activities in Programs and Courses

Journal Club, University of Pittsburgh, Department of Critical Care Medicine

"Tools of the Trade" Workshop Instructor, University of Pittsburgh, Department of Surgery

Percutaneous Tracheostomy Workshop, University of Pittsburgh, Department of Critical Care Medicine

Critical Care Fellowship Orientation, University of Pittsburgh, Department of Critical Care Medicine

Anatomy Clinical Instructor, University of Pittsburgh, Department of Surgery

Surgical Skills Lab Instructor, University of Pittsburgh, Department of Surgery

Surgery Clerkship, Skills Workshop Leader, University of Florida

Techniques in Chemistry, Teaching Assistant, Furman University

Advising and Mentoring

"Golden Hour Happy Hour" Advisor, University of Pittsburgh

Surgery Intern Orientation, University of Florida

Peer to Peer Mentoring Program, University of Florida

Anatomy Mentorship Program, University of Kentucky Medical School

Big Brother/Sister Program, University of Kentucky

Social Media Activities

"Fun Facts with Fenner on Fridays" – weekly educational series

X Takeover – AAST 2025

Courses and Certifications

AAST ROBO-TRACS – Robotics in Acute Care/Trauma

Advanced Cardiovascular Life Support

Advanced Trauma Life Support - **Instructor**

Advanced Trauma Operative Management

Advanced Surgical Skills for Exposure in Trauma

Professional Memberships

American Association for the Surgery of Trauma – Associate Member Eastern Association for the Surgery of

Trauma – Associate Member

American Medical Association

Association of Women Surgeons

Periodical Reviews

Journal of Trauma and Acute Care Surgery
Critical Care Explorations
EBioMedicine

Personal Interests

Reading/Podcasts – nonfiction, true crime, and medical history Kentucky Basketball
Traveling
My two cats

Research Experience

T32 Post-Doctoral Research Fellow

PI: L. Moldawer, T. Loftus
Sepsis and Critical Illness Research Center
Department of Surgery
University of Florida, Gainesville, FL

Professional Student Mentored Research Grant

PI: L. Procter, A. Bernard
Department of Trauma and Acute Care Surgery
University of Kentucky, Lexington, KY

Summer Research Fellow

PI: S. Rose, D. Rudy
Department of Internal Medicine
University of Kentucky, Lexington, KY

National Science Foundation REU Research Award

PI: N. Kane-Maguire, J. Wheeler
Department of Chemistry
Furman University, Greenville, SC

Bibliography

Peer-reviewed publications

1. Mazirka P, **Fenner BP**, Terracina KP, Goldstein LE, Read TE, Nordenstam JF. Single-Port Robot-Assisted Hartmann-Type End Ileostomy Reversal Using the Existing Ostomy Site. *Dis Colon Rectum*. 2025.
2. Brakenridge SC, Chen U, Loftus TJ, Ungaro R, Dirain M, Kerr A, Zhong L, Bacher R, Starostik P, Ghita G, Midic U, Darden DB, **Fenner BP**, Wachter J, Efron PA, Liesenfeld O, Sweeny TE, Moldawer LL. Evaluation of a Multivalent Transcriptomic Metric for Diagnosing Surgical Sepsis and Estimating Mortality Among Critically Ill Patients. *JAMA Network Open*. 2022.
3. Yonker LM, Badaki-Makun O, Arya P, Boribong BP, Moraru G, **Fenner BP**, Rincon JC, Hopke A, Rogers B, Hinson J, Fasano A, Lee L, Kehoe SM, Larson SD, Chavez H, Levin S, Moldawer LL, Irimia D. Monocyte anisocytosis increases during multisystem inflammatory syndrome in children with cardiovascular complications. *BMC Infectious Diseases*. 2022.
4. Efron PA, Darden DB, Li EC, Munley J, Kelly L, **Fenner BP**, Nacionales DC, Ungaro RF, Dirain ML, Rincon J, Mankowski RT, Leeuwenburgh C, Moore FA, Brakenridge SC, Foster TC, Laitano O, Casadesus G, Moldawer LL, Mohr AM, Thomas RM. Sex differences associate with late microbiome alterations after murine surgical sepsis. *J Trauma Acute Care Surg*. 2022.
5. Kelly LS, Apple CG, Darden DB, Kannan KB, Pons EE, **Fenner BP**, Parvataneni HK, Hagen JE, Brakenridge SC, Efron PA, Mohr AM. Transcriptomic Changes Within Human Bone Marrow After Severe Trauma. *Shock*. 2022.

6. Darden DB, Kelly LS, **Fenner BP**, Moldawer LL, Mohr AM, Efron PA. Dysregulated Immunity and Immunotherapy after Sepsis. *Journal of Clinical Medicine*. 2021.
7. **Fenner BP**, Darden DB, Kelly LS, Rincon J, Brakenridge SC, Larson SD, Moore FA, Efron PA, Moldawer LL. Immunological Endotyping of Chronic Critical Illness After Severe Sepsis. *Frontiers in Medicine*. 2021.
8. Darden DB, Brakenridge SC, Efron PA, Ghita GL, **Fenner BP**, Kelly LS, Mohr AM, Moldawer LL, Moore FA. Biomarker Evidence of the Persistent Inflammation, Immunosuppression and Catabolism Syndrome (PICS) in Chronic Critical Illness (CCI) After Surgical Sepsis. *Annals of Surgery*. 2021.
9. Brakenridge SC, Starostik P, Ghita GL, Midic U, Darden DB, **Fenner BP**, Wacker J, Efron PA, Liesenfeld O, Sweeney TE, Moldawer LL. A transcriptomic severity metric that predicts clinical outcomes in critically ill surgical sepsis patients. *Critical Care Explorations*. 2021.
10. Kelly LS, Darden DB, **Fenner BP**, Efron PA, Mohr AM. The hematopoietic stem/progenitor cell response to hemorrhage, injury, and sepsis: a review of pathophysiology. *Shock*. 2021.
11. Darden DB, Ghita GL, Wang Z, Stortz JA, Lopez MC, Cox MC, Hawkins RB, Rincon JC, Kelly LS, **Fenner BP**, Ozrazgat-Baslanti T, Leeuwenburgh C, Bihorac A, Loftus TJ, Moore FA, Brakenridge SC, Baker HV, Bacher R, Mohr AM, Moldawer LL, Efron PA. Chronic critical illness elicits a unique circulating leukocyte transcriptome in sepsis survivors. *Journal of Clinical Medicine*. 2021.
11. Darden DB, Dong X, Brusko MA, Kelly LS, **Fenner BP**, Rincon JC, Dirain ML, Ungaro R, Nacionales D, Gauthier M, Kladde M, Brusko TM, Bihorac A, Moore FA, Loftus TJ, Bacher R, Moldawer LL, Mohr AM, Efron PA. A novel single cell RNA-seq analysis of non-myeloid circulating cells in late sepsis. *Frontiers in Immunology*. 2021.
12. Darden DB, **Fenner BP**, Foster T, Larson S, Efron PA. Chronic "sepsis brain" and regulatory T cells - A promising therapeutic target. *Brain Behav Immun*. 2021.
13. Darden DB, Ghita GL, Wang Z, Stortz JA, Lopez MC, Cox MC, Hawkins RB, Rincon JC, Kelly LS, **Fenner BP**, Ozrazgat-Baslanti T, Leeuwenburgh C, Bihorac A, Loftus TJ, Moore FA, Brakenridge SC, Baker HV, Bacher R, Mohr AM, Moldawer LL, Efron PA. Chronic Critical Illness Elicits a Unique Circulating Leukocyte Transcriptome in Sepsis Survivors. *J. Clin Med*. 2021.
14. Darden DB, Mira JC, Lopez MC, Stortz JA, **Fenner BP**, Kelly LS, Nacionales DC, Budharaju A, Loftus TJ, Baker HV, Moore FA, Brakenridge SC, Moldawer LL, Mohr AM, Efron PA. Identification of unique microRNA expression patterns in bone marrow hematopoietic stem and progenitor cells after hemorrhagic shock and multiple injuries in young and old adult mice. *J Trauma Acute Care Surg*. 2021.

Selected Other Presentations, Posters & Abstracts

1. **Fenner, BP**, Rose SA, Capel BJ, Jackson N, Kumar B, Rudy D. "Using a Positive Approach to Improve Patient Satisfaction in Primary Care." Abstract. *Journal of General Internal Medicine*. Vol. 29. 233 Spring St, New York, NY 10013 USA: Springer, 2014.
2. Kumar B, Capel BJ, Jackson N, **Fenner BP**, Schuetz S, Zephyr D, Rudy D, Rose SA. "Optimism, Risks, And Perceptions of Health for Evaluation of Underlying Sentiment (Orpheus)." Abstract. *Journal of Investigative Medicine*. Vol. 62. No. 2. 530 Walnut St, Philadelphia, PA 19106-3621 USA: Lippincott Williams & Wilkins, 2014.
3. Rose SA, Jackson N, **Fenner BP**, Capel B, Rudy D. "Promoting Positive Change in the Residency Experience Through Discovery of Resident Values." Abstract. *Journal of General Internal Medicine*. Vol. 29. 233 Spring St, New York, NY 10013 USA: Springer, 2014.
4. Rose SA, Capel B, Kumar B, Jackson N, **Fenner BP**, Masero C, Zephyr D, Rudy D, Real K. "Risk Perception, Self-Efficacy and Objective Health Risk." Abstract. *Journal of General Internal Medicine*. Vol. 29. 233 Spring St, New York, NY 10013 USA: Springer, 2014.
5. "Predictors of Mortality in Emergency Surgery for Perforated Peptic Ulcer Disease." Podium Presentation. Kentucky Chapter of the American College of Surgeons Annual Chapter Meeting. Louisville, KY, Aug 2015.
6. "Using a Positive Approach to Improve Patient Satisfaction" Podium Presentation. Southern Society of General Internal Medicine Annual Meeting. New Orleans, LA. Feb 2014.

7. "Predictors of Mortality in Emergency Surgery for Perforated Peptic Ulcer Disease." Poster Presentation. Eastern Association for the Surgery of Trauma 29th Annual Scientific Assembly, San Antonio, TX, Jan 2016.
8. "Using a Positive Approach to Improve Patient Satisfaction" Poster Presentation. Society of General Internal Medicine 24th Annual Meeting. San Diego, CA, Apr 2014.