

Ethan P. Glaser, B.S.

MD/PhD Candidate M2

Ethan.Glaser@uky.edu

Education University of Kentucky College of Medicine
MD/PhD Candidate Expected Graduation: 2026

University of Maryland, Baltimore County
Bachelor of Science – Biochemistry and Molecular Biology ‘15
Magna Cum Laude GPA: 3.80

Employment

2016 - 2018 Research Technician
Center for Shock, Trauma and Anesthesiology Research
University of Maryland, Baltimore

2014 - 2016 Undergraduate Researcher
The White Group - University of Maryland, Baltimore County Baltimore, MD

Summer 2014 Summer Intern, Department of Microbiology and Immunology
University of Colorado Anschutz Medical Campus
Graduate Experience for Multicultural Students (GEMS) Denver, CO

2011 - 2012 Funded Undergraduate Researcher
Food and Drug Administration/ Center for Devices and Radiological Health/
Office of Science and Engineering Laboratories/ Department of Chemistry and
Material Sciences Silver Spring, MD
(Oak Ridge Institute of Science Education Fellowship)

Publications Ritzel, R. M., Doran, S. J., **Glaser, E. P.**, Meadows, V. E., Faden, A. I., Stoica, B. A., & Loane, D. J. (2019). Old age increases microglial senescence, exacerbates secondary neuroinflammation, and worsens neurological outcomes after acute traumatic brain injury in mice. *Neurobiology of Aging*, 77, 194–206. <https://doi.org/10.1016/j.neurobiolaging.2019.02.010>

Yauger, Y. J., Bermudez, S., Moritz, K. E., **Glaser, E.**, Stoica, B., & Byrnes, K. R. (2019). Iron accentuated reactive oxygen species release by NADPH oxidase in activated microglia contributes to oxidative stress in vitro. *Journal of Neuroinflammation*, 16(1). <https://doi.org/10.1186/s12974-019-1430-7>

Aubrecht T. G. , Faden A. I. , Sabirzhanov B. , **Glaser E. P.**, Roelofs B. A., Polster B. M. , Makarevich O. , Stoica B. A. . Comparing effects of CDK inhibition and E2F1/2 ablation on neuronal cell death pathways in vitro and after traumatic brain injury. *Cell Death and Disease* (2018). Nov 6 9(11):1121. doi: 10.1038/s41419-018-1156-y.

Doran, S. J., Ritzel, R. M., **Glaser, E. P.**, Henry, R. J., Faden, A. I., Loane, D. J.. Sex Differences in Acute Neuroinflammation after Experimental Traumatic Brain Injury Are Mediated by Infiltrating Myeloid Cells. *Journal of Neurotrauma* (2018). doi:10.1089/neu.2018.6019

Sabirzhanov, B., Faden, A. I., Aubrecht, T., Henry, R., **Glaser, E.**, & Stoica, B. A. “MiR-711 Induced down-Regulation of Angiopoietin-1 Mediates Neuronal Cell Death.” *Journal of Neurotrauma*, 2018, doi:10.1089/neu.2017.5572.

Schoukroun-Barnes, Lauren; **Glaser, Ethan**; White, Ryan (2015), Heterogeneous Electrochemical Aptamer-Based Sensor Surfaces for Controlled Sensor Response. *Langmuir*. 31(23), 6563–6569. <https://doi.org/10.1021/acs.langmuir.5b01418>

Guo, J., Saylor, D. M., **Glaser, E. P.** and Patwardhan, D. V. (2013), Impact of artificial plaque composition on drug transport. *J. Pharm. Sci.* doi: 10.1002/jps.23537

Presentations 2019 University of Kentucky Center for Clinical and Translational Science Spring Conference Lexington, KY April 2019

Poster Presentation: “Cyclin-dependent kinase inhibitors attenuate mitochondrial injury in neuronal apoptosis”

2018 National Capital Area Traumatic Brain Injury Research Symposium – NIH Bethesda, MD March 2018

Poster Presentation: “Cyclin-dependent kinase inhibitors attenuate mitochondrial injury in neuronal apoptosis”

Undergraduate Research and Creative Achievement Day – UMBC April 2015
Poster Presentation: “Using Biocompatible Hydrogels to Protect Electrochemical RNA Aptamer-Based Sensors for Continuous Drug Load Monitoring”

Keystone Symposia on Molecular and Cellular Biology: Viral Immunity Breckenridge, CO January 2015

Poster presentation: “The Role of Type I Interferons in Tetherin Induction following Retroviral Infection”

Student Presentations for the Graduate Experience for Multicultural Students Program Denver, CO August 2014

Presentation: “The Role of Type I Interferons in Tetherin Induction following Retroviral Infection”

Summer Student Poster Session at the FDA (August 2011, August 2012)

Poster presentation: “Analyzing Drug Diffusion in Hydrogels Using Desorption Electrospray Ionization Mass Spectrometry” (2011)

Poster presentation: “Impact of Lipid Content of Arterial Plaque Surrogates on Polymer Degradation” (2012)

Grants

Professional Student Mentored Research Fellowship Program

Title: "Investigating Azithromycin's surprising anti-inflammatory and analgesic properties in the context of central neuropathic pain after spinal cord injury"

P.I.: John C. Gensel Ph.D.

Agency: University of Kentucky Center for Clinical and Translational Science

Period: 2019-2022

Total Direct: \$3,000

Role: Research Fellow

Awards

Award for Exceptional Achievement in the Graduate Experience for Multicultural Students (August 2014)

American Chemical Society Undergraduate Award in Analytical Chemistry (May 2014)

Oak Ridge Institute of Science Education Fellowship (June 2012)

Springbrook High School Chemistry Student of the Year (2011)