# Ashley Munie Gardner, Ph.D.

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## **EDUCATION**

Ph.D., Immunology, 2023 University of Michigan Ann Arbor, MI B.S., Biomedical Sciences, 2017

Murray State University

Murray, KY

#### RESEARCH EXPERIENCE

2023-Present	Postdoctoral Associate, The Jackson Laboratory. Mentor: Lenny Shultz, PhD
2019-2022	Visiting Scholar, Neurology Department, The Ohio State University. Mentor: Benjamin Segal, MD
2017-2022	PhD Student, Graduate Program in Immunology, University of Michigan. Mentor: Benjamin Segal, MD
2016	Summer Undergraduate Research Fellowship, Immunology, Mayo Clinic. Mentor: Dr. Michael Barry, PhD
2015-2017	Biology Department Teaching Assistant, Microbiology and Biology for Non- Majors, Murray State University
2015-2017	Undergraduate Researcher, Biology Department, Murray State University. Mentor: Dr. Chris Trzepacz

#### **PUBLICATIONS**

- **Gardner, A.M.**, Atkinson, J.R., Wilkinson, N.M., Jerome, A.D., Bellinger, C.E., Sas, A.R., Segal, B.M. TAM Receptor Signaling Dictates Lesion Location and Clinical Phenotype during Experimental Autoimmune Encephalomyelitis. J Neuroimmunol. (2023).
- Atkinson, J. R., Jerome, A.D., Sas, A.R., **Munie, A.,** Wang, C., Ma, A., Arnold, W.D., Segal, B.M. Biological Aging of CNS-Resident Cells Alters the Clinical Course and Immunopathology of Autoimmune Demyelinating Disease. JCI Insight (2022).
- Mockus, T. E., **Munie, A**., Atkinson, J. R. & Segal, B. M. Encephalitogenic and Regulatory CD8 T Cells in Multiple Sclerosis and Its Animal Models. J Immunol (2021).

### **FUNDING RECEIVED**

2021-2023	NIH F31NS118881 The Role of Myeloid Cell-Specific Ten-Eleven Translocase 2 (TET2) in Regulation of Neuroinflammation
2018-2019	NIH T32 Research Training in Experimental Immunology, University of Michigan

#### SCHOLARLY AWARDS AND HONORS

2021	National Multiple Sclerosis Society Travel Award, Autumn Immunology Conference
2021	John Wallace Diversity Award, Autumn Immunology Conference
2020	AAI Trainee Abstract Award, American Association of Immunologists (Meeting Canceled)

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Curriculum Vitae

American Association of Immunologists Young Investigator Award, Autumn Immunology Conference

Rackham Graduate School Pre-Candidate Graduate Student Research Grant, University of Michigan

Bernard Maas Fellowship, University of Michigan

Undergraduate Degree awarded with Honors Diploma, Summa Cum Laude,

## OTHER EXPERIENCES AND PROFESSIONAL MEMBERSHIP

Murray State University

2022	Guest Speaker, Biology Department, Murray State University, sponsored by the McNair Scholars Program
2019-2022	Graduate Trainee Representative, Autumn Immunology Conference
2019-2021	Trainee Member, American Association of Immunologist
2019	Guest Instructor, Research Colloquium in Experimental Immunology, University of Michigan
2018-2019	Founding President, Biomedical Graduate Student Government, University of Michigan
2015-2017	President, Tri Beta Biological Honor Society Beta Pi Chapter, Murray State University

## **WORKSHOPS/TEACHING SEMINARS ATTENDED**

2023	Introduction to Image Analysis with Fiji; 4-day course; Supported by Imaging Applications Service at The Jackson Laboratory
2022	Americas School of Neuroimmunology; 3-day course; Columbus, OH.
2022	Flow Jo Training; Intro to Flow Jo and High Parameter Analysis in FlowJo; two 1.5 hour workshops; Supported by BD.
2022	Advancing Career Targets; 4 week workshop, 2 hours/week; Supported by the Career and Professional Development Team at OGPS, UM
2020	Data analysis with R; 3-day workshop; Taught by Pat Schloss
2017	Mentoring Plan Workshop; 3.5 hour workshop; Supported by Rackham Graduate School, UM

#### CONFERENCE PRESENTATIONS

- 2022 **Munie, A.,** Segal, B.M. TAM Receptor Signaling Dictates Lesion Location and Clinical Phenotype during Experimental Autoimmune Encephalomyelitis. Poster Presentation at Foundation of American Societies for Experimental Biology, The Translational Neuroimmunology Conference; 2022 September; Asheville, NC.
- 2022 Bellinger, C.E., Atkinson, J.A., Jerome, A.D., **Munie, A.**, Segal, B.M. Zymosan-Stimulated Neutrophils Suppress T cell proliferation and Ameliorate CNS Autoimmune Disease. Acted as a substitute for a Poster Presentation at Americas School of Neuroimmunology; 2022 July; Columbus, OH.

Ashley Gardner Curriculum Vitae

**Munie, A.,** Segal, B.M. The regulatory role of TAM receptors in Experimental Autoimmune Encephalomyelitis. Poster Presentation at Society for Neuroscience, Neuroscience; 2021 November; Virtual.

- **Munie, A.,** Segal, B.M. TAM Receptors Protect Against Brain Inflammation during Experimental Autoimmune Encephalomyelitis. Oral and Poster presentation at Autumn Immunology Conference; 2021 November; Chicago IL.
- **Munie, A.**, Segal, B.M. The role of myeloid cell-specific ten eleven translocase (TET2) in regulation of neuroinflammation. Accepted for poster and platform presentation at: Association of American Immunologists annual meeting 2020 (meeting canceled, abstracts online).
- **Munie, A.**, Segal, B.M. A Novel Pathway Regulating Neuroinflammation in an Animal Model of MS. Oral Presentation presented at: The Ohio State University Neuroscience Day; 2020 May; Virtual.
- **Munie, A.,** Segal, B.M. The Regulatory Role of TET2 in Myeloid Cells during EAE Pathogenesis. Poster Presentation at Autumn Immunology Conference; 2019 November; Chicago IL.
- **Munie, A.,** Duncker, P., Segal, B.M. GM-CSF promotes CNS autoimmunity via activation of the CCR1 chemokine pathway. Poster and Oral session presented at: Autumn Immunology Conference; 2018 November; Chicago, IL.

## **COMMUNITY INVOLVEMENT**

2023-Present	Writer and Co-Host for Antibuddies Podcast Immunology 101 Series – A podcast focused on teaching immunological concepts to aspiring scientists and the general public with the scientific communication platform Antibuddies
2023-Present	EMS Driver, Southwest Harbor Tremont Ambulance Service – Patient transport for the town of Southwest Harbor and Tremont on Mount Desert Island, ME.
2021-2022	Polygence Mentor – One-on-one mentoring of high school students through completion of independent research or literature review project
2018, 2022	Michigan DNA Day – Visiting local high schools to present and answer questions about the importance of DNA in immunology
2019-2020	Volunteer, Center of Science and Industry (COSI), Columbus, OH – <i>Engaging</i> with the community during scientific demonstrations
2018-2019	Association of Multicultural Scientists Science Career Day - Speaking to high school students in a college-preparatory program about careers and interesting topics in science
2018-2019	Science Education and Engagement for Kids - Developing and teaching a science curriculum for 5th graders at underprivileged elementary schools in the Ann Arbor Area without any current school-provided science education
2018	Michigan Health Science Pre-College Exposure Academy (MHSPEA) Student Teacher - Teaching a lab about regenerative biology to high-school students in the MHSPEA program at the University of Michigan