NOAH J. SPENCER

njspenc1@asu.edu • (304) 692-5588 • noahspencer.net

EDUCATION

| 2021– | Ph.D. Student, Evolutionary Biology Arizona State University, Tempe, AZ, USA |
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| 2021 | B.S. Biology (Genomics emphasis), <i>summa cum laude</i> West Virginia University, Morgantown, WV, USA |

RESEARCH INTERESTS: Endosymbiosis, evolutionary biology, cell biology, prokaryotic and organellar genome evolution, mutation, intracellular transport

RESEARCH EXPERIENCE

| 2021– | Center for Mechanisms of Evolution, Arizona State University |
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Advisor: Dr. John McCutcheon

2017–2021 Department of Biology, West Virginia University

Advisor: Dr. Rita Rio

PEER-REVIEWED PUBLICATIONS

evad100.

| 2024 | McCutcheon JP, Garber AI, Spencer N Warren JM. How do bacterial endosymbionts work with so few genes? (<i>In revision</i>) |
|------|--|
| | Spencer N , Santee M, Wetherhold A, Rio RVM. Draft genome sequence of <i>Wigglesworthia glossinidia</i> "palpalis gambiensis" isolate. <i>Microbiol. Resour. Announc.</i> e00912-23 |
| 2023 | Spencer N , Łukasik P, Meyer M, Veloso C, McCutcheon JP. No Transcriptional Compensation for Extreme Gene Dosage Imbalance In Fragmented Endosymbionts of Cicadas. <i>Genome Biol. Evol.</i> 15(6), |

| 2021 | Medina Munoz M, Brenner C, Richmond D, Spencer N , Rio RVM. The |
|------|---|
| | holobiont transcriptome of teneral tsetse fly species of varying vector |
| | competence. BMC Genomics. 22(1), 400. |

2020 Medina Munoz M, **Spencer N**, Enomoto S, Dale C, Rio RVM. Quorum sensing sets the stage for the establishment and vertical transmission of Sodalis praecaptivus in tsetse flies. *PLOS Genet*. 16, e1008992.

GRANTS, FELLOWSHIPS, & AWARDS

| 2023–2024; 2022–2023 | ASU Graduate College University Grant ($$10$ K/year \times 2 years awarded) |
|-------------------------|--|
| 2021–2026 | National Science Foundation Graduate Research Fellowship (<u>\$138K</u>) |
| 2021 | WVU Outstanding Senior |
| 2020 | WVU Eberly Scholar |
| 2019 | WVU Honors EXCEL Grant (<u>\$1K</u>) |
| 2019 | WVU SURE Enrichment Grant (<u>\$500</u>) |

CONTRIBUTED PRESENTATIONS

| Oral | Prese | nta | tions |
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| 2023 | Comparing Bacterial Gene Expression Outcomes Under Extreme Genome |
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| | Erosion and Fragmentation in Cicada Endosymbionts. SMBE Satellite |
| | Meeting on Mechanisms of Cellular Evolution. Tempe, AZ. |
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Increases in Genome Complexity Exacerbate Transcript Dosage Imbalance in a Cicada Endosymbiont. 8th Conference on Beneficial Microbes. Madison, WI.

Poster Presentations

| 2024 | Loss of Transcriptional Control in an Ancient Endosymbiont. Howard |
|------|--|
| | Hughes Medical Institute January–February 2024 Science Meeting. |
| | Ashburn, VA. |

- No Transcriptional Compensation for Extreme Gene Dosage Imbalance In Fragmented Endosymbionts of Cicadas. 2023 EMBL Symposium on the Cellular Mechanics of Symbiosis. Heidelberg, Germany. (*Also presented at Biodesign Fusion 2023. Tempe, AZ.*¹)
- 2022 No Transcriptional Compensation for Extreme Gene Dosage Imbalance In Fragmented Endosymbionts of Cicadas. 2022 Annual Symposium for Mechanisms of Cellular Evolution. Tempe, AZ.
- 2021 Genome Sequencing Provides Insight into Coevolution Between an Insect Vector and Its Microbial Partner. WVU Online Spring Undergraduate Research Symposium.²
- 2020 Plasmid DNA Sequence Analysis Elucidates Evolution of Species-Specific Tsetse Fly Symbiotic Bacteria. WVU Online Spring Undergraduate Research Symposium.

CONTRIBUTED PRESENTATIONS (CONTINUED)

Poster Presentations (continued)

2019 Characterizing Plasmid Functional Roles Within Tsetse Fly-Associated Symbiotic Bacteria. WVU Summer Undergraduate Research Symposium. Morgantown, WV.³

TEACHING EXPERIENCE

2022– Volunteer with Prison Biology Education Program, ASU

Taught in-person, developed course materials and assessments, and coordinated research projects for introductory biology courses offered at Eyman Prison Complex in Florence, AZ.

2018–2021 Tutor at MindFit Academic Enhancement, WVU

Provided over 350 hours of sustained, one-on-one academic coaching to students with learning-related difficulties.

2019 Cell and Molecular Biology Teaching Assistant, WVU

Provided feedback on over 350 written assignments, held weekly office hours to provide one-on-one support, and assisted with course design.

INVITED PANELS & TALKS

2023 ASU Science on Tap. Living With a Cellmate: The Light and Dark Sides of Endosymbiosis.

Grad Student Panel, ASU School of Life Sciences Graduate Recruitment

2022 Grad Student Panel, Biodesign Institute Summer Internship Program for Community College Students

WVU ASPIRE Academy Alumni Panel

^{1, 3} Winner, Best Poster in Category

²Runner-up, Best Poster in Category

INVITED PANELS & TALKS (CONTINUED)

2021 WVU Honors EXCEL Seminar: "The Secret of My Success: Learning from

Recent Honors EXCEL Graduates"

WVU Summer Undergraduate Research Symposium panel, "Get the Most

from Your Mentor"

2020 WVU Summer Undergraduate Research Symposium panel,

"Get the Most from Your Mentor"

WVU undergraduate research webinar for incoming freshmen; WVU

Honors EXCEL Academy

PROFESSIONAL SOCIETY AFFILIATIONS & SERVICE

Member, Society for Molecular Biology & Evolution (Since 2021)

Member, American Society for Microbiology (Since 2021)

Reviewer of paper submitted to *mBio*.