

CALEB ROTHER

Curriculum Vitae

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EDUCATION

University of Nebraska at Kearney (2023-Expected May 2027)
BS, Molecular Biology, Minor in Media Production
- Honors, GPA: 3.93

PROFESSIONAL POSITIONS

2014-2021	Harold Rother Farms	Arapahoe, CO
<i>Heavy Machinery Operator: Operated grain cart, combine, tractor, forklift, high loader, and other heavy machinery</i>		
2021-2022	Keefe Memorial Hospital	Cheyenne Wells, CO
<i>Phlebotomy, operation of basic analytical machines, and janitorial duties</i>		
2022-2023	Weskan Schools	Weskan, KS
<i>Designed, built, and maintained school website</i>		
2025-	University of Nebraska at Kearney	Kearney, NE
<i>Teacher's assistant for Biostats using R</i>		

CURRENT RESEARCH

- Determining the effects of the *essC* gene in *Staphylococcal* virulence
- Characterization of core-shell polymer micelles physically loaded with a chlorambucil prodrug

PUBLICATIONS

Cruikshank MJ, Pitzer JM, Ameri K, **Rother CV**, Cooper K, Nuxoll AS. Characterization of *Staphylococcus lugdunensis* biofilms through ethyl methanesulfonate mutagenesis. *AIMS Microbiol.* 2024;10(4):880-893. Published 2024 Oct 17. doi:10.3934/microbiol.2024038

PROFESSIONAL PRESENTATIONS

College: 2 State-level: 3 Regional: 2 National: 1

Oral: 3 Poster: 5

Rother CV, Dittmer K, Garcia Escobar M, Nuxoll AS. Determining the effects of the Type Seven Secretion System in Staphylococcal innate immune interactions. Oral presentation at: *American Society for Microbiology Missouri Valley Branch; 2025 when 20-20; Honolulu, HI*

Rother CV, Dittmer K, Garcia Escobar M, Nuxoll AS. Determining the effects of the Type Seven Secretion System in Staphylococcal innate immune interactions. Oral presentation at: *American Society for Microbiology Missouri Valley Branch; 2025 when 20-20; Lincoln, NE*

Rother CV, Dittmer K, Garcia Escobar M, Nuxoll AS. Determining the effects of the Type Seven Secretion System in Staphylococcal innate immune interactions. Oral presentation at: *American Society for Microbiology Missouri Valley Branch; 2025 when 20-20; Kearney, NE*

Rother CV, Dittmer K, Garcia Escobar M, Nuxoll AS. Determining the effects of the Type Seven Secretion System in Staphylococcal innate immune interactions. Oral presentation at: American Society for Microbiology Missouri Valley Branch; 2025 March 21-22; Stillwater, OK

Rother CV, Pitzer AJ, Nuxoll AS. Identification of *Staphylococcus lugdunensis* proteases through ethyl methanesulfonate mutagenesis. Poster presented at: Nebraska Association Of Teachers Of Science; 2024 October 18; Kearney, NE

Rother CV, Sandall C, Vetro J, Curran S. Preliminary characterization of peripherally cross-linked core-shell polymer micelles physically loaded with chlorambucil prodrug. Oral presentation at: Annual INBRE Conference; 2024 August 5-7; Nebraska City, NE

Rother CV, Dittmer K, Nuxoll AS. Determining the effects of the *essC* gene in *Staphylococcus lugdunensis* virulence. Oral presentation at: Nebraska Academy of Science; 2024 April 19; Lincoln, NE

Rother CV, Pitzer AJ, Nuxoll AS. Identification of *Staphylococcus lugdunensis* proteases through ethyl methanesulfonate mutagenesis. Poster presented at: Student Research Day; 2024 April 18; Kearney, NE

Rother CV, Pitzer AJ, Nuxoll AS. Identification of *Staphylococcus lugdunensis* proteases through ethyl methanesulfonate mutagenesis. Poster presented at: American Society for Microbiology Missouri Valley Branch; 2024 March 8-9; Omaha, NE

LABORATORY AND PROFESSIONAL SKILLS

Basic microbiology techniques

Cell culture

Biofilm culture

-Including polymicrobial biofilms

D. melanogaster maintenance and infection models

R

-Including web development, data visualization, and statistical analysis

Video editing with DaVinci Resolve

PROFESSIONAL ASSOCIATIONS AND SCHOLARSHIPS

IDEA Network of Biomedical Research Excellence (INBRE)

Undergraduate Research Fellowship (URF)

American Society of Microbiology

Sigma Xi Research Honor Society associate member

Mortar Board Honor Society Xi Phi Chapter

AWARDS AND HONORS

Chancellor's Ambassador 2025-26

CREATIVE PRODUCTIONS

Boom by Peter Sinn Nachtrieb | Directed by Darin Himmerich | Role: Jules Verne

ORGANIZATIONS

Honors Activities Organization

-Vice President 2024-25

Chess Club

-President 2024-25

Loper Programming and Activities Council

-Voting member 2023-24

UNK Esports

-Team Captain 2023-24
Lopers for Sustainability
Locke and Key

References available upon request