

# CALEB ROTHER

## Curriculum Vitae

9222 Monticello Drive,  
Granbury, TX 76049  
[rotherc@lopers.unk.edu](mailto:rotherc@lopers.unk.edu)  
Ph: (719)-342-5964



## EDUCATION

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

## PROFESSIONAL POSITIONS

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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 Biostatistics using R</i>	

## CURRENT RESEARCH

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- Determining the effects of the Type Seven Secretion System in *Staphylococcal* virulence
- Characterization of core-shell polymer micelles physically loaded with a chlorambucil prodrug

## PUBLICATIONS

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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

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

Oral: 5 Poster: 4

**Rother CV**, Dittmer K, Garcia Escobar M, Nuxoll AS. Determining the effects of the Type Seven Secretion System in Staphylococcal innate immune interactions. Poster presentation at: American Association of Immunologist; 2025 May 3-7; 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: Nebraska Academy of Science; 2025 April 25; 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: Student Research Day; 2025 April 17; 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

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Basic microbiology techniques

Cell culture

Biofilm culture

-Including polymicrobial biofilms

*R*

-Including web development, data visualization, and statistical analysis

*D. melanogaster* maintenance and infection models

Video editing with DaVinci Resolve

## PROFESSIONAL ASSOCIATIONS AND SCHOLARSHIPS

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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

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Chancellor's Ambassador 2025-26

Kenneth W. Nikels Award

## CREATIVE PRODUCTIONS

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

## ORGANIZATIONS

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Delta Tau Delta Fraternity

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

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*References available upon request*