Gage Rowden, M.S.

Education

Texas Tech University, B.S. in Biology **Texas Tech University**, M.S. in Biotechnology

Sep 2011-May 2016 Sep 2016-May 2018

Experience

Lead Technical R&D Scientist, Priogen Corporation — St. Paul, MN

Jan 2024-present

- Designed and optimized data analysis workflows to efficiently process high-throughput datasets.
- Contributed to multiple projects which lead to the development of intellectual property.
- Architected and implemented a laboratory information management system using Django.
- Established and implemented standard operating procedures to enhance consistency and quality.
- Integrated version control across all projects, ensuring reproducibility and streamlined collaboration.
- Designed and outfitted the diagnostic laboratory, optimizing it for high-performance testing and analysis.

Researcher IV, MNPRO, University of Minnesota — St. Paul, MN

Aug 2022-present

- Co-authored 17 manuscripts, including two first-author publications.
- Developed a custom R package and automation scripts to optimize data analysis and processing.
- Led the expansion of laboratory space, improving research capacity and workflow efficiency.
- Designed and implemented a robust accession system for managing large laboratory inventory.
- Provided expert consultation on RT-QuIC and related diagnostic tests for research collaborators.
- Aided in field collection of prion-infected samples, ensuring proper handling and documentation.

Researcher III, MNPRO, University of Minnesota — St. Paul, MN

Aug 2019-Nov 2021

- Oversaw and consulted on the development of the BSL-2 laboratory, ensuring compliance and functionality.
- Developed and refined RT-QuIC techniques for prion disease diagnostics.
- Contributed to multiple published projects, supporting prion research and diagnostics.
- Advised research labs on RT-QuIC implementation, facilitating technology adoption in external institutions.
- Received advanced NIH training to expand in-house RT-QuIC capabilities.
- Established multiple prion clones, including a proprietary clone for diagnostic applications.

Lab Technician III, Dept. of Cell Bio & Biochem, TTUHSC — Lubbock, TX

Aug 2018-Aug 2019

- Investigated the role of nonsense-mediated RNA decay in male gametes.
- Developed an improved sperm head isolation method for forensic applications in rape kit analysis.
- Managed laboratory operations, including maintenance, purchasing, and project coordination.
- Collaborated with department researchers to support diverse biochemical investigations.

Graduate Research Assistant, Dept. of Chemistry, TTU — Lubbock, TX

Jun 2017-May 2018

- Researched cocaine biosynthetic pathways in coca plants, aiming to elucidate key biochemical mechanisms.
- Collaborated with faculty and graduate researchers to drive multiple research initiatives.
- Developed expertise in molecular biology and biochemical techniques, refining analytical skills.
- Presented research findings at conferences, enhancing scientific communication skills.

Graduate Teaching Assistant, Dept. of Biological Sciences, TTU — Lubbock, TX

Aug 2017-Dec 2017

- Maintained microbial cultures (eukaryotic and prokaryotic) for laboratory experiments.
- Led weekly lectures for 33 students, providing structured instruction and guidance.

- Emphasized the importance and ubiquity of microbes in scientific and medical contexts.
- Designed and implemented microbial isolation and identification techniques.

Graduate Teaching Assistant, Dept. of Chemistry, TTU — Lubbock, TX

Jan 2017-May 2018

2024

- Instructed weekly 3-hour general chemistry lab sessions, reinforcing fundamental concepts.
- Managed and educated approximately 140 students, ensuring comprehension of core chemistry techniques.
- Developed strong teaching and communication skills, explaining abstract concepts effectively.

First Author Publications

quaking-induced conversion (Micro-QuIC)

conversion assay (Cap-QuIC)

Sang-Hyun Oh. 10.1038/s44328-024-00006-x

First Author Publications	2025
quicR: An R Library for Streamlined Data Handling of Real-Time Quaking Induced Conversion Assays Gage R Rowden, Peter A Larsen. 10.2139/ssrn.5188757	2025
Standardization of data analysis for RT-QuIC-based detection of chronic wasting disease <i>Gage R Rowden</i> , Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany M Wolf, Peter A Larsen. 10.3390/pathogens12020309	2023
Publications	
RT-QuIC Optimization for Prion Detection in Soils Madeline K. Grunklee, Stuart S. Lichtenberg, <i>Gage R Rowden</i> , Diana L. Karwan, E. Anu Li, Marc D. Schwabenlander, Tiffany M. Wolf. 10.1016/j.mex.2025.103380	2025
Chronic Wasting Disease Prions on Deer Feeders and Wildlife Visitation to Deer Feeding Areas Miranda H. J. Huang, Steve Demarais, Marc D. Schwabenlander, Bronson K. Strickland, Kurt C. VerCauteren, William T. McKinley, <i>Gage R Rowden</i> , Corina C. Valencia Tibbitts, Sarah C. Gresch, Stuart S. Lichtenberg, Tiffany M. Wolf, Peter A. Larsen. 10.1002/jwmg.70000	2025
Prion Partitioning and Persistence in Environmental Waters E. Anu Li, Diana L Karwan, Stuart Siegfried Lichtenberg, <i>Gage R Rowden</i> , Marc D Schwabenlander, Peter A Larsen, Tiffany M Wolf. 10.1021/acs.est.4c11497	2025
Chronic wasting disease prions on deer feeders and wildlife visitation to deer feeding areas Miranda HJ Huang, Steve Demarais, Marc D Schwabenlander, Bronson K Strickland, Kurt C VerCauteren, William T McKinley, <i>Gage R Rowden</i> , Corina C Valencia Tibbitts, Sarah C Gresch, Stuart S Lichtenberg, Tiffany M Wolf, Peter A Larsen. 10.1002/jwmg.70000	2025
Inter-laboratory comparison of real-time quaking-induced conversion (RT-QuIC) for the detection of chronic wasting disease prions in white-tailed deer retropharyngeal lymph nodes Joseph R Darish, Alyssa W Kaganer, Brenda J Hanley, Krysten L Schuler, Marc D Schwabenlander, Tiffany M Wolf, Md Sohel Ahmed, <i>Gage R Rowden</i> , Peter A Larsen, Estela Kobashigawa, Deepanker Tewari, Stuart Lichtenberg, Joel A Pedersen, Shuping Zhang, Srinand Sreevatsan. 10.1177/10406387241285165	2025
Prion forensics: a multidisciplinary approach to investigate CWD at an illegal deer carcass disposal	2024
Marc D Schwabenlander, Jason C Bartz, Michelle Carstensen, Alberto Fameli, Linda Glaser, Roxanne J Larsen, Manci Li, Rachel L Shoemaker, <i>Gage R Rowden</i> , Suzanne Stone, W David Walter, Tiffany M Wolf, Peter A Larsen. 10.1080/19336896.2024.2343298	
Detection and decontamination of chronic wasting disease prions during venison processing Marissa Milstein, Sarah C Gresch, Marc D Schwabenlander, Manci Li, Jason C Bartz, Damani N Bryant, Peter R Christenson, Laramie L Lindsey, Nicole Lurndahl, Sang-Hyun Oh, <i>Gage R Rowden</i> , Rachel L Shoemaker, Tiffany M Wolf, Peter A Larsen, Stuart S Lichtenberg. 10.1101/2024.07.23.604851	2024
Rapid on-site amplification and visual detection of misfolded proteins via microfluidic	2024

Dong Jun Lee, Peter R Christenson, Gage R Rowden, Nathan C Lindquist, Peter A Larsen,

Visual detection of misfolded alpha-synuclein and prions via capillary-based quaking-induced

Peter C Christenson, <i>Gage R Rowden</i> , Sang-Hyun Oh, Peter A Larsen, Manci Li ILS Patent 18 286 682	ii review
Methods and materials for detecting misfolded polypeptides Filed: April	
Patents	
Morphometric and genetic variation in 8 breeds of Ethiopian camels (Camelus dromedarius) Yoseph W Legesse, Christopher D Dunn, Matthew R Mauldin, Nicte Ordonez-Garza, <i>Gage R Rowden</i> , Yoseph Mekasha Gebre, Mohammed Y Kurtu, Seid Mohammed Ali, Wondmagegne D Whibesilassie, Michael Ballou, Melaku Tefera, Gad Perry, Robert D Bradley. 10.1093/jas/sky351	2018
RT-QuIC detection of CWD prion seeding activity in white-tailed deer muscle tissues Manci Li, Marc D Schwabenlander, <i>Gage R Rowden</i> , Jeremy M Schefers, Christopher S Jennelle, Michelle Carstensen, Davis Seelig, Peter A Larsen. 10.1038/s41598-021-96127-8	2021
Comparison of chronic wasting disease detection methods and procedures: implications for free-ranging white-tailed deer (Odocoileus virginianus) surveillance and management Marc D Schwabenlander, <i>Gage R Rowden</i> , Manci Li, Kelsie LaSharr, Erik C Hildebrand, Suzanne Stone, Davis M Seelig, Chris S Jennelle, Louis Cornicelli, Tiffany M Wolf, Michelle Carstensen, Peter A Larsen. 10.7589/JWD-D-21-00033	2022
Elucidation of tropane alkaloid biosynthesis in Erythroxylum coca using a microbial pathway discovery platform Benjamin G Chavez, Prashanth Srinivasan, Kayla Glockzin, Neill Kim, Olga Montero Estrada, Jan Jirschitzka, <i>Gage R Rowden</i> , Jonathan Shao, Lyndel Meinhardt, Christina D Smolke, John C D'auria. 10.1073/pnas.221537211	2022
Sensitive detection of chronic wasting disease prions recovered from environmentally relevant surfaces Qi Yuan, Gage R Rowden, Tiffany M Wolf, Marc D Schwabenlander, Peter A Larsen, Shannon L Bartelt-Hunt, Jason C Bartz. 10.1016/j.envint.2022.107347	2022
A field-deployable diagnostic assay for the visual detection of misfolded prions Peter R Christenson, Manci Li, <i>Gage R Rowden</i> , Marc D Schwabenlander, Tiffany M Wolf, Sang-Hyun Oh, Peter A Larsen. 10.1038/s41598-022-16323-y	2022
Assessment of Real-Time Quaking-Induced Conversion (RT-QuIC) Assay, Immunohistochemistry and ELISA for Detection of Chronic Wasting Disease under Field Conditions in White-Tailed Deer: A Bayesian Approach Catalina Picasso-Risso, Marc D Schwabenlander, Gage R Rowden, Michelle Carstensen, Jason C Bartz, Peter A Larsen, Tiffany M Wolf. 10.3390/pathogens11050489	2022
Nanoparticle-enhanced RT-QuIC (nano-QuIC) diagnostic assay for misfolded proteins Peter R Christenson, Manci Li, <i>Gage R Rowden</i> , Peter A Larsen, Sang-Hyun Oh. 10.1021/acs.nanolett.3c01001	2023
Microfluidic Quaking-Induced Conversion (Micro-QuIC) for Rapid On-Site Amplification and Detection of Misfolded Proteins Dong Jun Lee, Peter R Christenson, <i>Gage R Rowden</i> , Nathan C Lindquist, Peter A Larsen, Sang-Hyun Oh. 10.1101/2023.07.17.549283	2023
Peter R Christenson, Hyeonjeong Jeong, Hyerim Ahn, Manci Li, <i>Gage R Rowden</i> , Rachel L Shoemaker, Peter A Larsen, Hye Yoon Park, Sang-Hyun Oh. 10.1038/s44328-024-00003-0	

Software

quicR: An R Library for Streamlined Data Handling of Real-Time Quaking github.com/gage1145/quicR Induced Conversion Assays

- Developed an R package for the extraction, manipulation, and analysis of RT-QuIC data.
- Tools Used: R

Presentations

 Recombinant DNA technology DNA cloning DNA sequencing PCR techniques Protein expression/purification Protein characterization Western blotting Liquid chromatography Gas chromatography Mass spectrometry RT-QuIC Prion research Cell line maintenance Biosafety Level 2 Biosafety Level 3 	Introduction to R				
Gage R Rowden. MNPRO Lab Forum, Saint Paul, MN Introduction to Git & Github Gage R Rowden. MNPRO Lab Forum, Saint Paul, MN Increased Sensitivity of RT-QuIC Using Micro-filtration Gage R Rowden, Manci Li, Marc D Schwabenlander, Peter A Larsen. Chronic Wasting Disease Conference, Denver, CO Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Prion, Göttingen, Germany Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Gatalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI RT-QuIC as a Diagnostic Tool Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse P package development P python P DIA visualization P Diata visualization P Diata visualization P Diagno P DIA cloning P DNA cloning P DNA sequencing P DNA cloning P DNA sequencing P CR techniques P CR techniques P Mass spectrometry P Mass pectrometry Protein characterization P Protein characterization P Protein characterization P Protein characterization P Prion research		Forum, Saint Paul, Min		2025	
Introduction to Git & Github Gage R Rowden. MMPRO Lab Forum, Saint Paul, MN Increased Sensitivity of RT-QuIC Using Micro-filtration Gage R Rowden. Manci Li, Marc D Schwabenlander, Peter A Larsen. Chronic Wasting Disease Conference, Denver, CO Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Prion, Göttingen, Germany Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI RT-QuIC as a Diagnostic Tool Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Biotechnology Research Sympsium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse R package development Dhat visualization Dijango Cittlub Actions Dijango Di	-	Forum, Saint Paul, MN		2023	
Gage R Rowden. MNPRO Lab Forum, Saint Paul, MN 2023 Gage R Rowden, Manci Li, Marc D Schwabenlander, Peter A Larsen. Chronic Wasting Disease Conference, Denver, CO Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Prion, Göttingen, Germany Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Larsen. Prion, Göttingen, Germany Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, United Price of Topase & Granatane Biosynthesis Gage R Rowden. Saint Paul, MN Standard Price of Topase & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Standard Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Standard Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Standard Biosynthesis Gage R Rowden, Biotechnology Research Symposium, Lubbock, TX Standard Biosynthesis Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Standard Biosynthesis Bioinformatics Standard Biosynthesis Bi	_			2024	
Gage R Rowden, Manci Li, Marc D Schwabenlander, Peter A Larsen. Chronic Wasting Disease Conference, Denver, CO Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Prion, Göttingen, Germany Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI RT-QuIC as a Diagnostic Tool Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse Phython Quarto Python Quarto Python Quarto Python Diago Cill MS Bioinformatics Western blotting Western blotting Cas chromatography Recombinant DNA technology DNA cloning Uliquid chromatography Recombinant DNA technology DNA sequencing Protein expression/purification Protein expression/purification Protein characterization Prion research Additional Skills Scientific writing & publishing Research ethics FT-QuIC Prion research		Forum, Saint Paul, MN		-	
Conference, Denver, CO Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Prion, Göttingen, Germany Standardization of Data Analysis for RT-QuIC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI RT-QuIC as a Diagnostic Tool Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills • R & Tidyverse • Shiny • Python • Data visualization • Diang • UlmS • Shiny • ETEX • Richtlub • Bioinformatics Molecular Biology & Biochemistry • Recombinant DNA technology • DNA cloning • LilmS • Mass spectrometry • Mass spectrometry • Mass spectrometry • Mass spectrometry • Biosafety Level 2 • Biosafety Level 3 • Protein expression/purification • Protein characterization Additional Skills • Scientific writing & publishing • Research ethics • Teaching	increased Sensitivity of RT-QuIC Using Micro-filtration				
Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Prion, Göttingen, Germany Standardization of Data Analysis for RT-QulC-based Detection of Chronic Wasting Disease Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI RT-QulC as a Diagnostic Tool Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse R package development Data visualizatio Data visualizatio LIMS Bioinformatics Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning Unarto Case chromatography Recombinant DNA technology DNA sequencing Gas chromatography Recombinant DNA sequencing RT-QulC Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Research ethics Research ethics Research ethics Packing Disease 2022 Caratina D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wolf, Marci D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wolf, Marci D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wolf, Marci D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wolf, Marci D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wolf, Wolf,	•	c D Schwabenlander, Peter A Larser	n. Chronic Wasting Disease		
Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI RT-QuIC as a Diagnostic Tool Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse R package development Data visualization Quarto Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA sequencing DNA sequencing DNA sequencing Title Western blotting Recombinant DNA technology Mass spectrometry Recombinant DNA technology PCR techniques RT-QuIC Mass spectrometry RT-QuIC Protein characterization Recombining & publishing Research ethics Reacrantane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2017 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2017 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2017 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2017 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2018 Carnatane Biosynthesis 2017 Carnatane Biosynthesis 2017 Carnatane B	Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A				
Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse Python Data visualization Diango UlmS Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis 2017 2016 2016 2016 2018 Computational Skills Shiny Sh	 Gage R Rowden, Catalina Picasso-Risso, Manci Li, Marc D Schwabenlander, Tiffany Wolf, Peter A Larsen. Wildlife Disease Association Conference, Madison, WI RT-QuIC as a Diagnostic Tool Gage R Rowden. Saint Paul, MN Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Thesis Defense, Lubbock, TX Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis 				
Finding the Oxidases Involved in the First Ring Closure of Tropane & Granatane Biosynthesis Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse R package development Data visualization Quarto Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA sequencing DNA sequencing PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Research ethics PResearch ethics Presearch Symposium, Lubbock, TX 2015 2016 Protein Rowden, John C D'Auria. Biotechnology Research Symposium, Lubbock, TX Skills 2016 Protein Rowden. Biotechnology Pessearch Symposium, Lubbock, TX 2015 Protein Rowden. Biotechnology Pessearch Symposium, Lubbock, TX 2016 Protein Protein Rowden. Biotechnology Pessearch Properties Protein Rowden. Biotechnology Pessearch Protein Rowden. Biotechnology Pessearch Protein Rowden. Biotechnology Person Rowden. Biotechnology Pessearch Person Rowden					
Gage R Rowden, John C D'Auria. Biotechnology Research Sympsium, Lubbock, TX Red/Green Colorblindness 2016 Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization 2015 Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills • R & Tidyverse • Shiny • LaTEX • R package development • Python • Git & GitHub • Data visualization • Django • GitHub Actions • Quarto • LIMS • Bioinformatics Molecular Biology & Biochemistry • Recombinant DNA technology • Western blotting • Cell line maintenance • DNA sequencing • Liquid chromatography • Biosafety Level 2 • PCR techniques • Mass spectrometry • Biosafety Level 3 • Protein expression/purification • RT-QuIC • Biosafety Level 3 • Protein characterization • Research ethics • Teaching					
Gage R Rowden. Biotechnology Research Symposium, Lubbock, TX Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse R package development Data visualization Quarto Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA sequencing PCR techniques PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Research Symposium, Lubbock, TX 2015 2015 2016 2016 2017 2017 2016 Alger R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX 2015 2015 2016 2017 2016 Alger R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX 2015 2015 2016 2017 2016 PTEX Git & GitHub Git & GitHub Git & GitHub Actions Git & GitHub Actions Bioinformatics P Git & GitHub Actions Bioinformatics P Gail Ine maintenance Biosafety Level 2 Biosafety Level 2 Biosafety Level 3 Protein expression/purification Prion research Additional Skills Scientific writing & publishing Research ethics Teaching					
Functional Amyloids: A Link Between Yeast Reproduction and Mammalian Fertilization Gage R Rowden, Gail A Cornwall. Texas Tech Association of Biologists Symposium, Lubbock, TX Skills Computational Skills R & Tidyverse R package development Data visualization Quarto Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA sequencing PCR techniques PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Research ethics Passociation and Mammalian Fertilization Association and Mammalian Fertilization Python Disologists Symposium, Lubbock, TX PTEX City City City City City City City City	Red/Green Colorblindness				
Computational Skills R & Tidyverse Python Data visualization Quarto Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA sequencing DNA sequencing DNA sequencing PCR techniques PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Shiny Python Django Django Django District Diatrict Diatri	Functional Amyloids: A Link Betwee Gage R Rowden, Gail A Cornwa	n Yeast Reproduction and Mamr	nalian Fertilization	2015	
 R & Tidyverse R package development Data visualization Django Quarto LIMS Bioinformatics Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning Liquid chromatography Bacterial culturing Biosafety Level 2 Biosafety Level 3 Additional Skills Scientific writing & publishing Research ethics Teaching Free Marks Pinon research Teaching Presching Preaching Teaching Teaching Teaching 					
 R package development Data visualization Quarto Django Git & GitHub Git Hub Actions GitHub Actions Bioinformatics Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA sequencing PCR techniques PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Research ethics Git & GitHub GitHub Actions Bioinformatics Bacterial culturing Biosafety Level 2 Biosafety Level 3 		. Chi	- IAT-V		
 Data visualization Quarto Django ElMS Bioinformatics Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA cloning DNA sequencing PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Django Django Bioinformatics Cell line maintenance Bacterial culturing Biosafety Level 2 Biosafety Level 3 RT-QuIC Prion research Additional Skills Scientific writing & publishing Research ethics Teaching 		3	_		
 Quarto LIMS Bioinformatics Molecular Biology & Biochemistry Recombinant DNA technology DNA cloning DNA sequencing PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Research ethics Bioinformatics Cell line maintenance Bacterial culturing Biosafety Level 2 Biosafety Level 3 Teaching 		3			
 Recombinant DNA technology DNA cloning DNA sequencing PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Western blotting Liquid chromatography Bacterial culturing Biosafety Level 2 Biosafety Level 3 Prion research Teaching 	• Quarto		 Bioinformatics 		
 DNA cloning DNA sequencing PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Liquid chromatography Biosafety Level 2 Biosafety Level 3 Protein characterization Prion research Research ethics Teaching 	Molecular Biology & Biochemistry				
 DNA sequencing PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Gas chromatography Biosafety Level 2 Biosafety Level 3 Prior research 	 Recombinant DNA technology 	 Western blotting 	 Cell line maintenance 		
 PCR techniques Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing Mass spectrometry RT-QuIC Prion research Research ethics Teaching 			_		
 Protein expression/purification Protein characterization Additional Skills Scientific writing & publishing RT-QuIC Prion research Research ethics Teaching 	· •				
 Protein characterization Prion research Additional Skills Scientific writing & publishing Research ethics Teaching 	·	•	 Biosafety Level 3 		
Additional Skills • Scientific writing & publishing • Research ethics • Teaching	, , ,				
• Scientific writing & publishing • Research ethics • Teaching		Prion research			
	Additional Skills				
			• leaching		