GRACE GUSTAFSON

ⓑ linkedin.com/in/grace-gustafson-casteris/ **❷** grace**e**gustafson@gmail.com **⑤** (608) 556-9055

EDUCATION

Aug 2022-present • University of Colorado Anschutz Medical Campus, Aurora, Colorado

♦ PhD Student, Molecular Biology

May 2022 • Arizona State University, Tempe, Arizona

♦ BS, Biological Sciences, Honors: summa cum laude

EXPERIENCE

2017 – 2022 UNIVERSITY OF WISCONSIN-MADISON DEPARTMENT OF MEDICINE

Undergraduate Research Assistant, Laboratory of Dr. Rozalyn Anderson Madison, Wisconsin

- Contribute to lab work including biological wet laboratory techniques, culturing cells, troubleshooting, data analysis, and scientific communication for research projects on aging and caloric restriction
- · Capture histological images, extracted and analyzed data in ImageJ
- Wrote and revised sections of 4 manuscripts, visualized data for publication

2016 – 2018 RENSSELAER POLYTECHNIC INSTITUTE

Undergraduate Student

Troy, New York

- Completed 66 credits towards a BS in Bioinformatics & Molecular Biology
- Member of AlChe Society for Biological Engineering (current member)
- Relevant courses: Molecular Biology, Biostatistics, Organic Chemistry, Calculus, Computer Science I

2016 – 2018 RENSSELAER POLYTECHNIC INSTITUTE DEPARTMENT OF BIOLOGY

Undergraduate Research Assistant, Laboratory of Dr. Blanca Barquera Troy, New York

- Assisted a graduate researcher studying redox biochemistry and bioenergetics of B. fragilis and V. cholerae using NMR, spectroscopy, HPLC, and bioinformatics tools including MSAs and Geneious for protein modeling
- Executed general lab tasks including autoclaving, cleaning glassware, and making solutions

2015 – 2016 UNIVERSITY OF WISCONSIN-MADISON DEPARTMENT OF HORTICULTURE

Biotechnology Youth Apprentice, Laboratory of Dr. Phillipp Simon Madison, Wisconsin

 Performed general lab cleaning duties as well as tissue sampling, DNA and sugar extractions, HPLC sample preparation, imaging, and fieldwork

SKILLS & CERTIFICATIONS

- Biological lab techniques: good laboratory practice, DNA/RNA/protein (electrophoresis, Western blotting, extractions, PCR), sterile microbiology technique, cell culture, viral production, cloning, histological cryosectioning & staining, and image analysis
- Knowledge of Microsoft Office, Adobe Illustrator, Adobe Photoshop, ImageJ, R for data science
- Biosafety and HIPAA techniques and training

GRACE GUSTAFSON

- 517 N Midvale Blvd, Madison, WI
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 - Received Wisconsin Department of Workforce Development Certificate of Occupational Proficiency in Biotechnology, 2016

PUBLICATIONS

ORCID: 0000-0001-8343-4493

Published

Timothy W. Rhoads, Josef P. Clark, **Grace E. Gustafson**, et al. "Molecular and Functional Networks Linked to Sarcopenia Prevention by Caloric Restriction in Rhesus Monkeys." Cell Systems, Volume 10, Issue 2, 2020

Priya Balasubramanian, Anne E. Schaar, **Grace E. Gustafson**, et al. "Adiponectin receptor agonist AdipoRon improves skeletal muscle function in aged mice." Elife, Volume 11, e71282, 2022

Alex B. Smith, Jonah P. Schill, Ruth Gordillo, **Grace E. Gustafson**, et al. "Ceramides are early responders in metabolic syndrome development in rhesus monkeys." Scientific Reports, Volume 12, Article 9960, 2022

In revision

Samantha Wright, **Grace E. Gustafson**, et al. "Caloric restriction in primates affects glucoregulation and insulin signaling in the brain."

POSTER PRESENTATIONS

- Lauren A. Gandy, Grace E. Gustafson, et al. "Implications of different quinone redox carriers for anaerobic and novel aerobic respiration of the gastrointestinal microbe Bacteroides fragilis." Poster presented at Rensselaer Polytechnic Institute Chemistry and Chemical Biology Graduate Research Symposium & Poster Session, Troy, NY. 14 Nov. 2018
- Grace E. Gustafson, Alina Lee. "The Dog Genome: A New Look at How the Genome Expresses Temperament Across Different Dog Breeds." Poster presented at Arizona State University Functional Genomics BIO 440 Poster Session, Online. 22 Nov. 2021