



Arianna Celis Luna

Postdoctoral Research Fellow, Infectious Diseases

 Curriculum Vitae available Online

Bio

BIO

Arianna I. Celis Luna is a postdoctoral fellow in the lab of Dr. David Relman. Her research will investigate the role of the GI microbiome on iron absorption during pregnancy. She aims to elucidate a functional role for the microbiome during this critical time period by combining metatranscriptomic and metabolomic data from in vivo samples with biochemical data from in vitro samples. She hopes to shed light on how iron-deficiency anemia, still affecting ~50% of pregnant women in developed countries, can be more efficiently treated or prevented.

Arianna received her Ph.D. in Biochemistry from Montana State University in 2018. She worked in the lab of Dr. Jennifer DuBois where her research focused on how, at the molecular level, bacteria build iron into the versatile molecule known as heme and break it apart again. Her work examined how these reactions are critical for both pathogenic species, such as *Staphylococcus aureus*, and the resident bacteria of the digestive tract.

Arianna's work encompasses 6 published papers in journals like the *Journal of the American Chemical Society*, the *Journal of Biological Chemistry*, and *ACS Biochemistry*. She has presented her work in several conferences, including Gordon Research Conferences and the ASBMB Annual Meeting, and at Montana State University as part of the Kopriva Science Seminar Series after receiving the Kopriva Graduate Student Fellowship.

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Montana State University (2018)
- Master of Science, University of California Los Angeles (2013)
- Bachelor of Science, California State Univ, Bakersfield (2011)
- Associate of Arts, Riverside City College (2009)

STANFORD ADVISORS

- David Relman, Postdoctoral Faculty Sponsor
- David Relman, Postdoctoral Research Mentor