

# NOAH SIEGEL

siegelanoah@gmail.com

Phone: +1 760 644 8279

GitHub: <https://github.com/nasiegel88>

LinkedIn: <https://www.linkedin.com/in/noah-siegel>

Website: <https://nasiegel88.github.io/>

## EDUCATION

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University of California, Davis, Davis CA

Sept 18 - present

PhD, Immunology

Expected September, 2023

Advisor: Lisa Miller (PI)

GPA: 3.7

California State University, East Bay CA

Aug 15 - May 18

BS, Biology

June, 2018

GPA: 3.7

## TECHNICAL STRENGTHS

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Computer Languages: R, Bash, Python

Lab bench: Histology, DNA/RNA extraction, PCR, 16S Library prep

Software & Tools: LaTeX, Microsoft Office applications

Operating systems: Windows, Linux

## EXPERIENCE

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UC Davis

Apr 18 - present

- Conducting gut and lung microbiome analysis in the rhesus monkey model
- Characterizing the metabolic profile of the infant rhesus monkey gut microbiome
- Developing workflows for transcriptomic analysis

Tilden Prep

Jun 18 - Sept 18

- Taught introductory Physics to High school students and led them through lab practicals

## MANUSCRIPTS IN REVIEW/PENDING SUBMISSION

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1. NA Siegel, KA Thongphanh, LA Miller. Effects of Environmental Change on Airway Sensitization: Recent Insights and Future Perspectives. *J Asthma and Allergy* 2022
2. NA Siegel, T Westmont, M Rolston, S Dandekar, H Deshmukh, LA Miller Early-life antibiotic treatment results in persistent microbiome alterations in association with sex. *mSphere* 2022
3. NA Siegel, M. Jimenez, CS Rocha, M Rolston, S Dandekar, LA Miller, and J SolnVick Helicobacter pylori Infection is Associated with an Altered Oral and Lung Microbiome in Infant Rhesus Monkeys. *Microbial Pathogenesis* 2022
4. NA Siegel, DT Dugger, V Kohli, H Ji, MD Pena-Ponce, J Ngo, and LA Miller Transcriptome Analysis of Postnatal Airway Epithelium Reveals a Gene Signature of Differentiation and Host Defense that is Distinct from Adult Airway Epithelium (journal TBD)

## HONORS AND AWARDS

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P51 Diversity Fellowship

## RELEVANT COURSES

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### Core Courses

Advanced Immunology

Mucosal Immunology

Host-microbe Interactions

### Other Courses

Bioinformatics

Biostatistics

Genomics

## PRESENTATIONS AT SCIENTIFIC MEETINGS

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1. Noah A. Siegel, Matt Ralston, Taylor Westmont, Alexa Rindy, Hitesh Deshmukh, Lisa A. Miller. *Effect of Neonatal Antibiotic Treatment on the Respiratory Microbiome: Altered Development and Sexual Dimorphism*. Presented at the 2022 American Thoracic Society international conference in San Francisco
2. Noah A. Siegel, Matt Ralston, Taylor Westmont, Alexa Rindy, Hitesh Deshmukh, Lisa A. Miller. *Effect of Neonatal Antibiotic Treatment on the Respiratory Microbiome: Altered Development and Sexual Dimorphism*. Presented at the 2022 Bay Area Microbial Pathogenesis Symposium
3. Noah A. Siegel, Matt Ralston, Taylor Westmont, Alexa Rindy, Hitesh Deshmukh, Lisa A. Miller. *Early Life Antibiotic Treatment Results in Both Transient and Persistent Changes to the Microbiome*. Presented at the 2021 American Thoracic Society international conference (virtual).
4. Noah A. Siegel, Matt Ralston, Taylor Westmont, Alexa Rindy, Hitesh Deshmukh, Lisa A. Miller. *Early Life Microbiome Perturbation Results in Persistent Composition and Functional Changes in Association with Sex*. Presented at the 2021 National Institute of Environmental Health Sciences Microbiome workshop (virtual).
5. Noah A. Siegel, Taylor Westmont, Hong Ji, Lisa A. Miller. *Muc5b Expression in Infant Airway Epithelium is Developmentally Regulated*. Presented at the 2020 University of California, Davis Lung Day conference (virtual).
6. Noah A. Siegel, Taylor Westmont, Daniel Dugger, Hong Ji, Vikram Kohli, and Lisa A. Miller. *Developmental Regulation of the MUC5B Mucin Sheds Light on Infant Susceptibility to Infection and reduced Host-defense During Early Life*. Presented at the 2020 American Thoracic Society international conference (virtual).

## UNIVERSITY SERVICE

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| 1. Positivity And Wellness for Students (PAWS) Committee | Oct 21 - Present |
| 2. Graduate Group in Immunology Executive Committee      | Jun 20 - Jun 21  |
| 3. Graduate Group in Immunology Admissions Committee     | Jun 19 - Jun 21  |

## ADDITIONAL ACTIVITIES

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1. Mentor-mentee coordinator, ESTEME
2. Volunteering experience at Holy Rosary Catholic School
3. Volunteering experience at Holy Rosary Catholic School