

NOAH SIEGEL

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EDUCATION

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

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

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

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

P51 Diversity Fellowship

RELEVANT COURSES

Core Courses

Advanced Immunology

Mucosal Immunology

Host-microbe Interactions

Other Courses

Bioinformatics

Biostatistics

Genomics

PRESENTATIONS AT SCIENTIFIC MEETINGS

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

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