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EDUCATION AND POSTGRADUATE TRAINING

- July 2016 – **Pediatric Infectious Diseases Fellowship**
June 2020 Boston Children's Hospital
- June 2014 – **Pediatrics Internship and Residency (Accelerated Research Pathway)**
June 2016 Boston Combined Residency Program
Boston Children's Hospital and Boston Medical Center
- May 2014 **Doctor of Medicine**
Medical Scientist Training Program, Vanderbilt University, Nashville, TN
- Aug. 2012 **Doctor of Philosophy in Pathology, Microbiology and Immunology**
Medical Scientist Training Program, Vanderbilt University, Nashville, TN
Mentor: Dr. Eric P. Skaar
Thesis title: Antibiotic resistance and pathogenesis in *Acinetobacter baumannii*
- May 2006 **Bachelor of Science with Honors in Biology**
Houghton College, Houghton, NY
Mentor: Dr. Matthew K. Pelletier
Thesis title: Positional cloning of the Transparent Testa 9 locus in *Arabidopsis thaliana*
Graduated *summa cum laude*

CERTIFICATION AND LICENSURE

Board certified in General Pediatrics, American Board of Pediatrics, 2018
Board eligible in Pediatric Infectious Diseases
Massachusetts State Medical License, 2020

CURRENT POSITION

July 2020 – Attending Physician in Infectious Diseases, Boston Children's Hospital
present Instructor in Pediatrics, Harvard Medical School

RESEARCH TRAINING AND COURSEWORK

- July 2017 – **Postdoctoral Fellowship** (Mentor: Seth Rakoff-Nahoum, MD, PhD)
present Division of Infectious Diseases, Department of Pediatrics, Boston Children's Hospital
Project title: Computational and experimental models of the genital tract microbiome
- July-Aug. 2018 **Strategies and Techniques for Analyzing Microbial Population Structures**
Marine Biological Laboratories, Woods Hole, MA
- Nov. 2011 **Training in Inductively Coupled Plasma Mass Spectrometry**
Department of Analytical Chemistry, Forschungszentrum Jülich, Germany

RESEARCH PUBLICATIONS

Hood-Pishchany, M.I., Pham, L., Wijers, C., Burns, W., Boyd, K., Palmer, L., Skaar, E., and Noto, M. (2020) Broad-spectrum suppression of bacterial pneumonia by aminoglycoside-propagated *Acinetobacter baumannii*. *PLoS Pathog.* 16(3):e1008374. PMID: [32168364](#)

Hood, M.I., Winkel, B., and Pelletier, M. (2014) Fine scale genetic mapping of the TT9 locus of *Arabidopsis thaliana*. *J Plant Biochem Phys.* 2:128.

Hood, M.I., Uzhachenko, R., Skaar, E., and Ivanova, A. (2013) Loss of mitochondrial FUS1 protects against *Acinetobacter baumannii* pulmonary infection. *Infect. Immun.* 81(12):4461-9. PMID: [PMC3837987](#)

Hammer, N., Reniere, M., Cassat, J., Zhang, Y., Hirsch, A., **Hood, M.I.**, and Skaar, E. (2013) Two heme-dependent terminal oxidases power organ specific colonization of *Staphylococcus aureus*. *MBio.* 4(4): e00241-13. PMID: [PMC3735196](#)

Kehl-Fie, T., Zhang, Y., Moore, J., Farrand, A., **Hood, M.I.**, Rathi, S., Chazin, W., Caprioli, R., and Skaar, E. (2013) MntABC and MntH contribute to systemic *Staphylococcus aureus* infection by competing with calprotectin for nutrient manganese. *Infect. Immun.* 81(9):3395-405. PMID: [PMC3754211](#)

Hood, M.I., Roux, C., Dunman, P., and Skaar, E. (2013) Genetic determinants of intrinsic colistin tolerance in *Acinetobacter baumannii*. *Infect. Immun.* 81(2):542-51. PMID: [PMC3553813](#)

Hood, M.I., Mortensen, B., Moore, J., Zhang, Y., Kehl-Fie, T., Sugitani, N., Chazin, W., Caprioli, R., and Skaar, E. (2012) Identification of an *Acinetobacter baumannii* zinc acquisition system that facilitates resistance to calprotectin-mediated zinc sequestration. *PLoS Path.* 8(12): e1003068. PMID: [PMC3516566](#)

Hood, M.I., and Skaar, E. (2012) Nutritional immunity: transition metals at the pathogen-host interface. *Nat. Rev. Microbiol.* 10: 525-37. PMID: [PMC3875331](#)

Kehl-Fie, T., Chitayat, S., **Hood, M.I.**, Damo, S., Restrepo, N., Garcia, C., Munro, K., Chazin, W., and Skaar, E. (2011) Nutrient metal sequestration by calprotectin inhibits bacterial superoxide defense, enhancing neutrophil killing of *Staphylococcus aureus*. *Cell Host Microbe.* 10: 158-64. PMID: [PMC3157011](#)

Jacobs, A., **Hood, M.I.**, Boyd, K., Olson, P., Morrison, J., Carson, S., Sayood, K., Iwen, P., Skaar, E., and Dunman, P. (2010) Inactivation of Phospholipase D diminishes *Acinetobacter baumannii* pathogenesis. *Infect. Immun.* 78: 1952-1962. PMID: [PMC2863507](#)

Torres, V., Attia, A., Mason, W., **Hood, M.I.**, Corbin, B., Beasley, F., Anderson, K., Stauff, D., McDonald, W., Zimmerman, L., Friedman, D., Heinrichs, D., Dunman, P., and Skaar, E. (2010) *Staphylococcus aureus* Fur regulates the expression of virulence factors that contribute to the pathogenesis of pneumonia. *Infect. Immun.* 78: 1618-1628. PMID: [PMC2849423](#)

Hood, M.I., Jacobs, A., Sayood, K., Dunman, P., and Skaar E. (2010) *Acinetobacter baumannii* increases tolerance to antibiotics in response to monovalent cations. *Antimicrob. Agents Chemother.* 54: 1029-1041. PMID: [PMC2825970](#)

CASE REPORTS

El Assaad, I.* , **Hood-Pishchany, M.I.***, Kheir, J., Mistry, K., Dixit, A., Halyabar, O., Mah, D., Meyer-Macaulay, C., and Cheng, H. Complete Heart Block, Severe Ventricular Dysfunction and Myocardial Inflammation in a Child with COVID-19 Infection. *J Am Coll Cardiol Case Rep.* 2020 Jul 15;2(9):1351-1355. PMID: [PMC7237189](https://pubmed.ncbi.nlm.nih.gov/3237189/)

*These authors contributed equally

CURRENT FUNDING SUPPORT

- Dec. 2019- **Ecological networks driving composition and function in the vaginal microbiome**
Nov. 2021 Child Health Research Career Development Award Program
Prime award: National Institutes of Health, K12 HD052896-13
Role: K12 scholar
- Sept. 2019- **Ecology-driven vaginal microbiome interventions for reproductive health**
Aug. 2021 Physician Scientist Fellowship
Doris Duke Charitable Foundation
Role: Principle Investigator

PAST FUNDING SUPPORT

- July 2019 – **Compositional and functional analysis of the mouse reproductive tract microbiome**
June 2020 Career Development Award
Boston Children’s Hospital (under the oversight of the Pediatric Scientist Development Program)
Role: Fellow
- July 2017 – **Development of an *ex vivo* vaginal ecosystem for the study of dysbiosis and preterm birth**
June 2019 Pediatric Scientist Development Program
Prime award: National Institutes of Health, K12 HD000850-33
Role: Fellow
- September 2011 – **Immune-enhancing therapeutics for the treatment of *Acinetobacter baumannii* pneumonia**
June 2012 International Student Research Fellowship, Howard Hughes Medical Institute
Role: Scholar

AWARDS AND HONORS

- November 2019 **Maxwell Finland Award for Research Excellence in Fellowship**
Massachusetts Infectious Diseases Society
- August 2019 **Trainee Travel Scholarship**
Infectious Diseases Society for Obstetrics and Gynecology
- June 2018 **Boston Children’s Hospital Alumni Travel Award for Excellence**
Boston Children’s Hospital
- May 2014 **Richard B. Johnston, Jr. Award** for excellence in academic scholarship
Vanderbilt University

- October 2010 **Student Presidential Award**
Society for Leukocyte Biology
- April 2010 **Stanley J. Korsmeyer Young Investigator Award** for best poster
American Society for Clinical Investigation/Association of American Physicians
- October 2008 **Kass Award**
Interscience Committee on Antimicrobial Agents and Chemotherapy/ Infectious Diseases Society of America
- 2006-2008, 2012-2014 **Canby Robinson Scholar**
Vanderbilt University
- 2002-2006 **President's List**
Houghton College
- Spring 2003 **London First Year Honors Program**
Houghton College

INVITED SEMINARS

- January 2021 **Interspecies competition for glycans in the vaginal microbiota**
Keystone Symposium on The Microbiome: Mother to Child, Keystone, CO
- September 2020 **Re-examining the role for glycogen in the vaginal microbiome**
Pediatric Infectious Diseases Rounds, British Columbia Children's Hospital
- March 2020 **Nutrient availability drives community dynamics in the vaginal microbiota**
Annual meeting of the Pediatric Scientist Development Program and the Association of Medical School Pediatric Department Chairs
- March 2019 **Mechanistic evaluation of the fight for glycans in reproductive tract microbial ecology**
Pediatric Infectious Diseases Research Conference (Selected abstract), Memphis, TN
- January 2019 **Competition and cooperation in the female reproductive tract microbiome**
Division of Pediatric Infectious Diseases, Vanderbilt University Medical Center, Nashville, TN
- December 2011 **Investigating the role for calprotectin in *Acinetobacter baumannii* pneumonia**
Division of Analytical Chemistry, Forschungszentrum Jülich, Jülich, Germany
- October 2011 **Beyond antibiotics: Harnessing host defenses for the treatment of acute bacterial infections**
Math and Science Colloquium, Houghton College, Houghton, NY
- October 2010 **An innate immune-enhancing whole cell therapeutic for the treatment of *Acinetobacter baumannii* pneumonia**
Society for Leukocyte Biology (Selected abstract), Vancouver, BC
- October 2008 **Sodium chloride exposure induces expression of antibiotic resistance determinants in *Acinetobacter baumannii***
Infectious Diseases Society of America (Selected abstract), Washington, DC

SUPERVISORY EXPERIENCE

- Nov. 2019-present Kayla Young – Research Assistant
Boston Children's Hospital

Summer 2019 Erica Klaiber – High School Student
Boston Children’s Hospital

Summer 2011 T. Scott Blackwell – High School Student
Vanderbilt Research Internship Program, Vanderbilt University

June 2009 – June 2010 Keith Adams – Post-baccalaureate student
Vanderbilt University

TEACHING EXPERIENCE

Medical Microbiology and Immunology Vanderbilt University, Nashville, TN

2010 - Teaching Assistant
2008-2009 - Tutorial Coordinator
2008-2009 - Individual tutor

PROFESSIONAL SERVICE

Ad hoc reviewer for Pediatric Infectious Disease Journal and Pediatric Research

Telemedicine Working Group – Pediatric Infectious Diseases Society

INSTITUTIONAL SERVICE

Neonatal COVID-19 Working Group

Boston Children’s Hospital, Brigham and Women’s Hospital, Beth Israel Deaconess Medical Center, Massachusetts General Hospital, Boston Medical Center and Newton Wellesley Hospital