ALISON CRISS

CANDIDATE STATEMENT

I am honored to run for the position of COMS representative on the ASM Board of Directors. My knowledge of COMS stems from serving as At-Large Member the past three years and Community Leader in Host-Microbe Interactions this year. As COMS representative to the Board, I would be excited to share ideas and perspectives raised by COMS with the Board, to help establish new strategies and programs for ASM to implement. I seek to provide clear, effective communication between COMS and the Board that encourages interdisciplinary approaches to microbial sciences, which stems from my leadership experiences in global infectious diseases. I particularly seek to promote ASM support of early career microbiologists, those from historically excluded backgrounds, and those entering microbiology from other fields. I welcome this opportunity to serve as COMS representative on the ASM Board and help ensure ASM remains the cornerstone - and future - of microbial sciences.

ASM-RELATED ACTIVITIES

- Council on Microbial Sciences (COMS) Host-Microbe Biology Community Leader, 2022-2023
- Council on Microbial Sciences, (COMS) At-large Member, 2020-2023
- Editorial Board, *Journal of Bacteriology,* 2021-2023
- Guest Editor, *mBio,* 2018
- Editorial Board, *Infection and Immunity,* 2015-2023
- ASM Virginia Branch Annual Meeting, Co-Chair, 2013

CURRICULUM VITAE

ALISON K. CRISS, PH.D.
Harrison Distinguished Teaching Professor
Department of Microbiology, Immunology, & Cancer Biology
University of Virginia School of Medicine
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Education

2002-2008	Postdoctoral Fellow, Department of Microbiology-Immunology Northwestern University Feinberg School of Medicine
1995-2001	Ph.D., Cell and Developmental Biology, Harvard University
1991-1995	B.A., *summa cum laude* in Biology and Chemistry, Williams College

Academic Appointments, University of Virginia

2021-present	Professor, Dept. of Microbiology, Immunology, and Cancer Biology
2018-2021	Associate Professor, Dept. of Microbiology, Immunology, and Cancer Biology (tenured)
2014-2018	Associate Professor, Dept. of Microbiology, Immunology, and Cancer Biology (with term)
2008-2014	Assistant Professor, Department of Microbiology

Other Professional Appointments

2020-2023 Council on Microbial Sciences, At-Large Member, American Society for Microbiology
- ❖ Community Leader, Host-Microbe Interactions, 2022-23

2019-present	Global Policy Center, Batten School of Leadership and Public Policy, UVA
2018-present	National Security Policy Center, Batten School of Leadership and Public Policy, UVA
2017-present	Director, UVA Global Infectious Diseases Institute, UVA
2016-present	Center for Membrane and Cell Physiology, UVA
2009-present	Beirne C. Carter Center for Immunology Research, UVA

Awards and Honors

2022	Harrison Distinguished Teaching Professorship, UVA
2021	Thought Leader, American Public Health Association
2020	Research Achievement Award, UVA
2017-2020	Pinn Scholar Award, UVA
2014	Academy of Distinguished Educators, UVA
2014	Dean's Excellence in Teaching Award, UVA School of Medicine
2013	Dean's Excellence in Research Award, UVA School of Medicine
2011	ASM/ICAAC Young Investigator Award
2011	UVA Fund for Excellence in Science and Technology Distinguished Young Investigator
2007-2011	NIH K99/R00 TW008042
2003-2006	NIH F32 AI56681
2002-2003	NIH T32 AI07476
1995-1998	National Science Foundation Predoctoral Fellowship
1995	Chemistry Department Award, Williams College
1995	Sigma Xi, Williams College

1995 Benedict Prize in Biology, Williams College
1994 Phi Beta Kappa, Williams College

RESEARCH ACTIVITIES

Research Support

2012-2023 NIH R01 AI097312 (PI: Criss)
Survival of *Neisseria gonorrhoeae* after primary human neutrophil challenge

2017-2027 NIH R01 AI127793 (MPI: Criss and Cornelissen)
Neisseria gonorrhoeae metal transporters that subvert nutritional immunity

2020-2023 NIH R21 AI157539 (PI: Criss)
Complement-independent role of C4 binding protein in gonococcal survival from human neutrophils

2021-2023 NIH R21 AI161302 (PI: Criss)
Neisseria gonorrhoeae central metabolism in the context of neutrophilic inflammation

2021-2026 NIH U19AI158930-01 (MPI: Bavoil, Ravel, Gleghorn)
Structure, immunity and microbiome: cervicovaginal models for sexually transmitted infections (SIM-STI)
Role: PI of Project 3: Polymicrobial Context of *Neisseria gonorrhoeae* Infection and Mucosal Immune Response

2019-2024 NIH U19 AI144180 (PI: Jerse)
Gonorrhea Vaccine Cooperative Research Center
Role: Core Director (Core D: Functional Antibody Study Core)

2021-2026 NIH U01 AI162457 (MPI: Duncan and Hobbs)
Efficacy of immunization with 4C-MenB in preventing experimental urethral infection with *Neisseria gonorrhoeae*
Role: Co-Investigator

2020-2027 NIH T32 AI007046 (MPI: Criss and Petri)
Infectious Diseases Training Program

2021-2023 NIH T32 AI055432 (MPI: Criss and Petri)
Global Biothreats Training Program

Publications (# denotes corresponding author, underline: directly supervised by Dr. Criss)

46. Smirnov A, Daily KP, Gray MC, Werner LM, Ragland SA, Johnson MB, Eby JC, Hewlett EL, Taylor RP, **Criss AK#**. Phagocytosis via complement receptor 3 enables microbes to evade killing by neutrophils. *bioRxiv* September 2, 2022. (doi: https://doi.org/10.1101/2022.09.01.506228)

45. Potter AD*, Edwards VL*, D'Mello A*, Gray MC, Shetty AC, Zhao X, Hill KM, Ragland SA, **Criss AK%,** Tettelin H%#. Dual species transcriptomics reveals core metabolic and immunologic processes in

human neutrophil-*Neisseria gonorrhoeae* interactions. *bioRxiv* February 28, 2022. (doi: https://doi.org/10.1101/2022.02.28.482360). (*Co-first authors) (% Co-senior authors)

44. Alcott AM, Werner LM, Baiocco CM, Belcher Dufrisne M, Columbus L, **Criss AK#.** Variable expression of Opa proteins by *Neisseria gonorrhoeae* influences bacterial association and phagocytic killing by human neutrophils. *Journal of Bacteriology* 204(4):e0003522, 2022. (PMCID: 9017356 [available 9/28/22). Link to manuscript * Editor's Pick

43. Ray JC, Smirnov A, Maurakis SA, Harrison SA, Ke E, Chazin WJ, Cornelissen CN, **Criss AK#.** Adherence enables *Neisseria gonorrhoeae* to overcome zinc limitation imposed by nutritional immunity proteins. *Infection and Immunity* 90(3):e00009-22, 2022. (PMCID: PMC8929345 [available 9/17/22]). Link to manuscript

42. **Criss AK,** Genco C, Gray-Owen S, Jerse A, Seifert H#. Challenges and controversies concerning *Neisseria gonorrhoeae*-neutrophil interactions in pathogenesis. *mBio* 12(3):e0072121, 2021. (PMCID: PMC8262874) Link to manuscript

41. Palmer A*, Werner LM*, Smirnov A, Dufrisne M, Columbus L, **Criss AK#.** Imaging flow cytometry analysis of CEACAM binding to Opa-expressing *Neisseria gonorrhoeae*. *Cytometry: Part A*, doi: 10.1002/cyto.a.24037, 2020. (* Co-first authors) (PMCID: PMC8062897) Link to manuscript

40. Ragland SA, Gray MC, Melson EM, Kendall MM, **Criss AK#.** The effect of lipidation on the localization and activity of a lysozyme inhibitor in *Neisseria gonorrhoeae*. *Journal of Bacteriology* 202 (doi: 10.1128/JB.00633-19), 2020. (PMCID: PMC7099142) Link to manuscript

39. Maurakis S, Keller K, Maxwell CN, Pereira K, Chazin WJ, **Criss AK,** Cornelissen CN#. The Novel Interaction Between *Neisseria gonorrhoeae* TdfJ and Human S100A7 Allows Gonococci to Subvert Host Zinc Restriction. *PLOS Pathogens* 15(8):e1007937, 2019. (PMCID: PMC6692053) Link to manuscript

38. **Criss AK#,** Allen LM. Cell intrinsic functions of neutrophils and their manipulation by pathogens. *Current Opinion in Immunology* 60: 124-129, 2019 (Invited Review). (PMCID: PMC6800601) Link to manuscript

37. Kuhn J, Smirnov A, **Criss AK,** Columbus L#. Quantifying CEACAM targeted liposome delivery using imaging flow cytometry. *Molecular Pharmaceutics* 16: 2354-2363, 2019. (PMCID: PMC6740330) Link to manuscript

36. Handing JW, Ragland SA, Bharathan UV, **Criss AK#**. The MtrCDE efflux pump protects *Neisseria gonorrhoeae* against killing by human neutrophils. *Frontiers in Microbiology* 9:2688, 2018. (PMCID: PMC6256084) Link to manuscript

35. Palmer A, **Criss AK#.** Gonococcal defenses against antimicrobial neutrophil activity. *Trends in Microbiology* **26**: 1022-1034, 2018 (Invited Review). (PMCID: PMC6251743) Link to manuscript

34. Stevens JS, Gray MC, Morisseau C, **Criss AK#.** Endocervical and neutrophil lipoxygenases coordinate neutrophil transepithelial migration to *Neisseria gonorrhoeae. The Journal of Infectious Diseases,* **218**: 1663-1674, 2018. (PMCID: PMC6173577) Link to manuscript

33. Ragland SA, Humbert MV, Christodoulides M, and **Criss AK#.** *Neisseria gonorrhoeae* employs two protein inhibitors to evade killing by human lysozyme. *PLOS Pathogens* **14**:e1007080, 2018. (PMCID: PMC6033460) Link to manuscript

32. Stevens JS, **Criss AK#.** Neutrophilic Inflammation Initiated by *Neisseria gonorrhoeae*. *Current Opinion in Hematology* **25**:13-21, 2018 (Invited Review). (PMCID: PMC5753798) Link to manuscript

31. **Criss AK#**, Tang CM. *Neisseria*: recent advances and future challenges (Introduction to Thematic Issue on *Neisseria*). *Pathogens and Disease* **75**: ftx090, 2017. (PMID: 28957453) Link to manuscript

30. Ragland SA, **Criss AK#.** From bacterial killing to immune modulation: recent insights into the functions of lysozyme. *PLOS Pathogens* 13(9):e1006512, 2017. (PMCID: PMC5608400) Link to manuscript

29. Smirnov A#, Solga M, Lannigan J, **Criss AK.** High-throughput particle uptake analysis by imaging flow cytometry. *Current Protocols in Cytometry* **80**, 11.22.1–11.22.17, 2017. (PMCID: PMC5710744). Link to manuscript

28. Ragland S, Schaub R, Hackett KT, Dillard JP, **Criss AK#.** Two lytic transglycosylases in *Neisseria gonorrhoeae* impart resistance to killing by lysozyme and human neutrophils. *Cellular Microbiology* **19** (doi: 10.1111/cmi.12662), 2017. (PMCID: PMC5303151) Link to manuscript

27. Jean S, Juneau RA, **Criss AK,** Cornelissen CN#. *Neisseria gonorrhoeae* Evades Calprotectin-Mediated Nutritional Immunity and Survives Neutrophil Extracellular Traps by Expression of TdfH. *Infection and Immunity* **84**: 2982-2994, 2016. (PMCID: PMC5038063) Link to manuscript

26. Martin JN, Ball LM, Solomon T, **Criss AK,** Columbus LM#. Neisserial Opa protein – CEACAM interactions: competition for receptors as a means for bacterial survival and pathogenesis. *Biochemistry* **55**: 4286-4294, 2016. (PMCID: PMC4980159) Link to manuscript

25. Smirnov A, Solga MD, Lannigan JA#, **Criss AK.** An improved method for differentiating cell-bound from internalized particles by imaging flow cytometry. *Journal of Immunological Methods* **423:** 60-69, 2015. (PMCID: PMC4522237) Link to manuscript

24. Juneau RA, Stevens JM, Apicella MA, and **Criss AK#.** A thermonuclease of *Neisseria gonorrhoeae* enhances bacterial escape from killing by neutrophil extracellular traps. *Journal of Infectious Diseases* **212:** 316-324, 2015. (PMCID: PMC4490236) Link to manuscript

23. Handing JW, **Criss AK#.** The lipooligosaccharide modifying enzyme LptA enhances gonococcal defense against human neutrophils. *Cellular Microbiology* **17**: 910-921, 2015. Link to manuscript

22. Johnson MB, Ball LM, Daily KP, Martin JN, Columbus L, **Criss AK#.** Opa+ *Neisseria gonorrhoeae* exhibits reduced survival in human neutrophils via src family kinase-mediated bacterial trafficking into mature phagolysosomes. *Cellular Microbiology* **17:** 648-655, 2015. (PMCID: PMC4402142) Link to manuscript

21. **Criss AK#,** Erickson LD. The complement cascade and bacterial complement resistance TBL. MedEdPORTAL, published 6/18/14 (ID #9825). (Removed upon request when manuscripts were made open access since students are currently graded on this TBL.)

20. Smirnov A, Daily KP, **Criss AK#.** Assembly of NADPH oxidase in human neutrophils is modulated by the opacity-associated protein expression state of *Neisseria gonorrhoeae*. *Infection and Immunity* **82:** 1036-1044, 2014. (PMCID: PMC3957997) Link to manuscript

19. Stohl EA, Dale EM, **Criss AK**, and Seifert HS*. *Neisseria gonorrhoeae* metalloprotease NGO1686 is required for full piliation, and piliation is required for resistance to H_2O_2 and neutrophil-mediated killing. *mBio* **4:** e00399-13, 2013. (PMCID: PMC3735123) Link to manuscript

18. Ball LM, **Criss AK#.** Constitutively Opa-expressing and Opa-deficient *Neisseria gonorrhoeae* differentially stimulate and survive exposure to human neutrophils. *Journal of Bacteriology* **195:** 2982-2990, 2013. (PMCID: PMC3697530) Link to manuscript

17. Johnson MB, **Criss AK#.** *Neisseria gonorrhoeae* phagosomes delay fusion with primary granules to enhance bacterial survival inside human neutrophils. *Cellular Microbiology* **15:** 1323-40, 2013. (PMCID: PMC3713093) Link to manuscript * Image selected for cover

16. Johnson MB, **Criss AK#.** Fluorescence microscopy methods for determining the viability of bacteria in association with mammalian cells. *Journal of Visualized Experiments* **79:** e50729, 2013. (PMCID: PMC3814296) Link to manuscript

15. **Criss AK#**, Seifert HS. A bacterial siren song: intimate interactions between *Neisseria* and neutrophils. *Nature Reviews Microbiology* **10:** 178-190, 2012. (PMCID: PMC3569855) Link to manuscript

14. Johnson MB, **Criss AK#.** Resistance of *Neisseria gonorrhoeae* to neutrophils. *Frontiers in Microbiology* **2:** 77, 2011. (PMCID: PMC3128980) Link to manuscript

13. Schook P, Stohl EA, **Criss AK,** Seifert HS#. The DNA binding activity of the *Neisseria gonorrhoeae* LexA ortholog NG1427 is modulated by oxidation. *Molecular Microbiology* **79:** 846-860, 2011. (PMCID: PMC3080098) Link to manuscript

12. LeCuyer BE, **Criss AK,** Seifert HS#. Genetic characterization of the nucleotide excision repair system of *Neisseria gonorrhoeae. Journal of Bacteriology* **192:** 665-673, 2010. (PMCID: PMC2812444) Link to manuscript

11. **Criss AK,** Bonney KM, Chang RA, Duffin PM, LeCuyer, BE, Seifert HS#. Mismatch correction modulates mutation frequency and pilus phase and antigenic variation in *Neisseria gonorrhoeae. Journal of Bacteriology* **192:** 316-325, 2010. (PMCID: PMC2798252) Link to manuscript

10. **Criss AK#**, Katz BZ, Seifert HS. Resistance of *Neisseria gonorrhoeae* to non-oxidative killing by human polymorphonuclear leukocytes. *Cellular Microbiology* **11**: 1074-1087, 2009. (PMCID: PMC2771623) Link to manuscript

9. **Criss AK#**, Seifert HS. *Neisseria gonorrhoeae* suppresses the oxidative burst of human polymorphonuclear leukocytes. *Cellular Microbiology* **10**: 2257-2270, 2008. (PMCID: PMC2692872) Link to manuscript

8. Kline KA*, **Criss AK*,** Wallace A, Seifert HS#. Transposon mutagenesis identifies sites upstream of the *Neisseria gonorrhoeae pilE* gene that modulate pilin antigenic variation. *Journal of Bacteriology* **189:** 3462-3470, 2007. (* Co-first authors) (PMCID: PMC1855897) Link to manuscript

7. **Criss AK**, Seifert HS#. Gonococci exit apically and basally from polarized epithelial cells and exhibit dynamic changes in type IV pili. *Cellular Microbiology* **8:** 1430-1443, 2006. (PMCID: PMC2290004) Link to manuscript

6. Stohl EA, **Criss AK**, Seifert HS#. The transcriptome response of *Neisseria gonorrhoeae* to hydrogen peroxide reveals genes with previously uncharacterized roles in oxidative damage protection. *Molecular Microbiology* **58:** 520-532, 2005. (PMCID: PMC2612779) Link to manuscript

5. **Criss AK**, Kline KA, Seifert HS#. The frequency and rate of pilin antigenic variation in *Neisseria gonorrhoeae. Molecular Microbiology* **58:** 510-519, 2005. (PMCID: PMC2657081) Link to manuscript

4. **Criss AK**, Casanova JE#. Coordinate regulation of *Salmonella enterica* serovar *typhimurium* invasion of epithelial cells by the Arp2/3 complex and Rho GTPases. *Infection and Immunity* **71:** 2885-2891, 2003. (PMCID: PMC153244) Link to manuscript

3. **Criss AK**, Silva M, Casanova JE#, McCormick BA. Regulation of *Salmonella*-induced neutrophil transmigration by epithelial ADP-ribosylation factor 6. *Journal of Biological Chemistry* **276:** 48431-48439, 2001. Link to manuscript

2. **Criss AK**, Ahlgren DM, Jou TS, McCormick BA, Casanova JE#. The GTPase Rac1 selectively regulates *Salmonella* invasion at the apical plasma membrane of polarized epithelial cells. *Journal of Cell Science* **114:** 1331-1341, 2001. Link to manuscript

1. Lynch DV#, **Criss AK**, Lehoczky JL, Bui VT. Ceramide glucosylation in bean hypocotyl microsomes: evidence that steryl glucoside serves as glucose donor. *Archives of Biochemistry and Biophysics* **340:** 311-316, 1997. Link to manuscript

Book Chapters

2020 Smirnov A#, Solga M, Lannigan J, **Criss AK.** Using Imaging Flow Cytometry to Quantify Neutrophil Phagocytosis. Neutrophil Methods and Protocols, series Methods in Molecular Biology, volume 2087, ed. Mark T. Quinn and Frank DeLeo, SpringerNature. (PMCID: PMC7003993.

2019 Ragland SA, **Criss AK#.** Protocols to interrogate the interactions between *Neisseria gonorrhoeae* and primary human neutrophils. *Neisseria gonorrhoeae*: Methods and Protocols, series Methods in Molecular Biology, volume 1997, ed. Myron Christodoulides, SpringerNature. (PMCID: PMC6731993).

2014 **Criss AK.** Interactions of pathogenic *Neisseria* with immune cells. Pathogenic *Neisseria*: Genomics, Molecular Biology and Disease Intervention, ed. John Davies and Charlene Kahler, Horizon Press.

Recent Invited and Selected Oral Conference Presentations

2022 International Pathogenic *Neisseria* Conference, plenary talk
Gordon Research Conference on Phagocytes
2021 Neutrophil 2021: International Symposium on the Neutrophil (virtual)
2020 *Neisseria gonorrhoeae* Research Society Conference (virtual)
Annual Meeting of Sexually Transmitted Infections Cooperative Research Centers, NIH (virtual)
2019 Society for Leukocyte Biology Annual Meeting
34th Congress of the International Society for Advancement of Cytometry
2018 International Pathogenic *Neisseria* Conference
Annual Meeting of Sexually Transmitted Infection Cooperative Research Centers, NIH
2017 Cold Spring Harbor Meeting on Microbial Pathogenesis and Host Response
Gordon Research Conference on Phagocytes
2016 Gordon Research Conference on Microbial Toxins and Pathogenicity

TEACHING ACTIVITIES

BIMS 6000	Core Course in Integrative Biosciences (Fall) (1 session / 7 hours)
BIMS 7100	Research Ethics (Spring) (1 session / 2 hours)
MICR 8400	Molecular Principles of Bacteriology and Virology (Spring) (3 sessions / 5 hours)
MICR 8401	Microbial Pathogenesis (Fall) (2 sessions / 4 hours) (Course Director)
MICR 8200	Building Blocks of the Immune System (Spring) (1 session / 1.5 hours)
MICR 8202	Integration and Diversification of the Immune System (Spring) (1 session / 1.5 hours)
MED 90-901	Microbes and the Immune System (Fall) (1 session / 2 hours)

Graduate Students

2022-present Amy Forehand, Microbiology

2021-present Evan Lamb, Microbiology / Medical Scientist Training Program

2020-present Ian Liyayi, Microbiology
- ❖ NIH F31AI167563-01, 2022-2025

2018-present Lacie Werner, Microbiology
- ❖ Robert R. Wagner Fellow, 2021-2022

2018-present Amaris Cardenas, Microbiology
- ❖ R01 AI097312-S1 Diversity Supplement, 2019-2021
- ❖ NIH F31 AI157528-01A1, 2021-2023

2017-2022 Allison Alcott, PhD (nee Palmer), Microbiology
Current Position: Field Service Specialist, Microscopy, Thermo Fisher Scientific

2017-2022 Jocelyn Ray, PhD, Microbiology / Medical Scientist Training Program
Current Position: 3rd year Medical Student, University of Virginia

2014-2018 Jacqueline Stevens, PhD, Microbiology / Medical Scientist Training Program
- ❖ Robert R. Wagner Fellow, 2016-2017

Current Position: Combined Residency/Fellowship Program in Dermatology, Harvard

2013-2018 Stephanie Ragland, PhD, Microbiology
- ❖ Microbiology Outstanding Student Awardee, 2019
- ❖ Robert R. Wagner Fellow, 2016-2017

Current Position: Jane Coffin Childs Postdoctoral Fellow, Kagan Lab, Harvard

2015-2016 Rebecca Dunning, MS, Biological and Physical Sciences
Current position: Senior Research Associate, Batelle National Biodefense Institute

2011-2016 Jonathan Handing, PhD, Microbiology
Current position: Scientist, DNA Technical Development, Moderna Therapeutics

2009-2014 (Morgan) Brittany Johnson, PhD, Microbiology
- ❖ Wagner Prize for Outstanding Research in Microbiology, 2014

Current position: Assistant Professor, UNC-Charlotte

Postdoctoral Research Associates and Research Scientists

2019-present Aimee Potter, PhD, Postdoctoral Research Associate
- ❖ Trainee Board Member, *Neisseria gonorrhoeae* Research Society

2011-2016 Richard Juneau, PhD, Postdoctoral Research Associate
- ❖ Diversity Supplement on R01 AI097312 2014-2016

Current position: Associate Professor of Biology, Virginia Western Community College

2012-2020 Asya Smirnov, PhD, Research Scientist
Current position: Instructor, Washington University in St. Louis

Current Laboratory Specialists

2021-present Keena Thomas, Laboratory Specialist 4

2017-present Mary Gray, Laboratory Manager

Undergraduate Students

2021	Chiamaka Okonkwo, Columbia University, NSURP Fellow
2019-2021	Christopher Baiocco, UVA
2019	Brian Parsa, Biology, UVA
2019	Princess Bush, Bennett College, NSF LSAMP Summer Research Fellow
2018	Nana Twumasi-Ankrah, Virginia Commonwealth University, NSF LSAMP Summer Research Fellow
2017-2018	Rhea Kapania, UVA
2016-2018	Katie Hill, Biology, UVA
2015-2018	Urmila Bharathan, Biology, UVA
2015	Yonathan Michael, Nanomedicine, UVA
2014	Sanchita Gupta, Human Biology, UVA
2013	Anh-Dao Cheng, Physics and Nanomedicine, UVA
2013	Sebastien Ortiz, Chemistry, UVA
2012-2015	Kylene Daily, Chemistry, UVA
2010-2011	Tin Nguyen, Biology, UVA
2009-2010	Erin Dale, Engineering Sciences and Biology, UVA

UVA Graduate Rotation Students Supervised: 28

UVA Current PhD Thesis Committees: Current: 13 (chair of 3), Past: 47 (chair/first reader of 14)

Formal Study to Enhance Mentorship Training

2022	An Introduction into Building an Inclusive Microbiology Community, ASM (virtual)
2021	Enhancing Diversity, Equity, and Inclusion in Biomedical Research, UVA (virtual)
2021	CIMER Entering Mentoring Workshop (virtual, hosted by UVA)
2021	CIMER Entering Mentoring Facilitator Training (virtual, hosted by CIMER/U. Wisconsin)
2020	NIH Train the Trainers Workshop (virtual)

SERVICE ACTIVITIES

National and International Service

Society

2020-2023	At-Large Member, Committee on Microbial Sciences, American Society for Microbiology
2019-2023	Treasurer and Board Member, *Neisseria gonorrhoeae* Research Society

Editorships

2021-2023	Editorial Board, Journal of Bacteriology
2019	Guest Editor, mBio
2018	Guest Editor, PLOS Pathogens
2016-2017	Guest Editor, Pathogens and Disease Thematic Issue on *Neisseria*
2016-present	Review Editor, Frontiers in Medicine, Microbiology and Public Health
2016-present	Review Editor, Frontiers in Cellular and Infection Microbiology
2015-2023	Editorial Board, Infection and Immunity

Conferences

2023	Vice-Chair, Gordon Research Conference on Phagocytes (Chair, 2025)
2019	Discussion Leader, Gordon Research Conference on Phagocytes

2017, 2019 Co-Organizer, "Power Hour" for Women in Science, Gordon Research Conference on Phagocytes
2018 Discussion Leader, Future of Gonorrhea Research Workshop
2016 Scientific Organizing Committee, 20th International Pathogenic *Neisseria* Conference
2015 Symposium Convener, 115th General Meeting of ASM
2015 Scientific Program Committee, 8th Mid-Atlantic Microbial Pathogenesis Meeting
2014 Oral Plenary Session Moderator, 19th International Pathogenic *Neisseria* Conference
2014 Scientific Organizing Committee, 19th International Pathogenic *Neisseria* Conference
2010 Program Review Committee, 17th International Pathogenic *Neisseria* Conference
2010 Session Chair, 17th International Pathogenic *Neisseria* Conference

Peer Review/Study Section

2022-present External Review Committee, University of Alabama-Birmingham T32 Training Program in Infectious Diseases
2021-present External Review Committee, University of Maryland-College Park T32 Training Program in Microbial Pathogenesis
2018-2022 Member, NIH Host Interactions with Bacterial Pathogens (HIBP) Study Section
2015 Grant Peer Reviewer, Medical Research Council (UK)
2015 Peer Reviewer, NIH Special Emphasis Panel 2016/01 ZRG1 IDM-V (02)
2015 Peer Reviewer, NIH Special Emphasis Panel 2015/10 ZRG1 IDM-B (80)
2014 Peer Reviewer, NIH F13 2014/03 ZRG1 F13-C (20)
2013 Peer Reviewer, Sparks Charity (UK) Project Grant
2013 Peer Reviewer, NIH Special Emphasis Panel 2013/05 ZRG1 IDM-V (02)

State/Regional Service

2023 Scientific Program Committee, 12th Mid-Atlantic Microbial Pathogenesis Meeting
2022 Scientific Program Committee, 11th Mid-Atlantic Microbial Pathogenesis Meeting
2019 Conference Chair, 10th Mid-Atlantic Microbial Pathogenesis Meeting
2017 Scientific Program Committee, 9th Mid-Atlantic Microbial Pathogenesis Meeting
2015 Session Convener, 8th Mid-Atlantic Microbial Pathogenesis Meeting
2013 Co-Meeting Chair, ASM Virginia Branch Annual Meeting
2011 Session Chair, American Society for Microbiology Virginia Branch Annual Meeting

Selected University of Virginia Service

2022 Co-Facilitator, "Optimizing Your Mentoring Practices Workshop"
2022 Member, Search Committee for Chair, Department of Biomedical Engineering, UVA
2021-present Co-PI, NIH T32 Global Biothreats Training Grant (with William Petri, MD PhD)
2020-present Co-PI, NIH T32 Infectious Diseases Training Grant (with William Petri, MD PhD)
2017-present Director, UVA Global Infectious Diseases Institute
2016-2020 Advisory Committee, Biomedical Data Sciences NIH T32 Training Grant
2014-2019 Executive Committee, Infectious Diseases NIH T32 Training Grant
2016-2017 Internal Proposal Review Committee, Office of the Vice-President for Research
2014-2017 MSTP Advisory Committee

Selected UVA School of Medicine Service

2019-present Flow Cytometry Core Advisory Committee
2018 Selection Committee, Robert J. Kadner Award for Outstanding Graduate Teaching
2015-2016 Academy of Distinguished Educators Evaluation Task Force

2013-2018	"Writing a Successful NIH 'K' Career Proposal," UVA Office of Sponsored Programs (presented five times)
2011	Chair, John F. Anderson Symposium
2010-present	Faculty Advisor, Graduate Biosciences Society

Selected Departmental Service

2022-present	Promotion Advisory Committees
2013-present	Academic Advisory Committee
2013-present	Kadner Symposium Organizing Committee
2015-present	Outstanding Student Selection Committee
2013-2015	Co-Chair, Bacteriology Faculty Search Committee
2013-2016	Immunology Search Committee (with Carter Immunology Center)
2011-2012	Bacteriology Faculty Search Committee
2009-present	Microbiology Graduate Admissions Committee

Science-Related Community Service

2021	Panelist, "Applying to Graduate School," National Summer Undergraduate Research Program
2019	Introduction to Scratch Programming, TechGirls (for middle school girls) (Charlottesville, VA)
2019	Outreach, "M is for Microbe," Bright Beginnings Preschool (Crozet, VA)
2012	Keynote speaker, "Lab Coat Ceremony," North Branch School (Afton, VA)
2010	Instructor, "Mini-Med School," UVA
2009	Instructor, "Mini-Med School," UVA