CURRICULUM VITAE
CHRISTINA L. STALLINGS

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Education

1999-2005	**Ph.D. with Distinction,** Cellular, Molecular and Biophysical Studies, Columbia University College of Physicians and Surgeons, New York, NY
1995-1999	**Bachelor of Science with Honors,** Biology, Mary Washington College, Fredericksburg, VA
1995-1999	**Teaching License in Secondary Education,** Mary Washington College, Fredericksburg, VA

Current Position

2010-Present	**Assistant Professor of Molecular Microbiology** Department of Molecular Microbiology Washington University School of Medicine, St. Louis, MO

Previous Research Positions

2006-2010	**Postdoctoral Research,** Sloan-Kettering Institute, NY, NY. Investigating the regulation of transcription during *Mycobacterium tuberculosis* pathogenesis
2000-2005	**Doctoral Thesis**, Columbia University College of Physicians and Surgeons, New York, NY. Characterization of the Varicella Zoster Virus ORF29p Subcellular Targeting Mechanisms During Lytic and Latent Infection
1998-1999	**Undergraduate Thesis**, Mary Washington College, Fredericksburg, VA. Expression of the p53 Protein and its Correlation with the p21 Gene in DNA Damaged ME180 Cells
1998	**Research Intern,** Medical Sciences Research Institute, Herndon, VA. Investigated problems associated with immunologic response and infection due to biomaterial implants

Teaching Responsibilities

2017	**Lecturer**, Journal Club on Immunology and Infectious Disease, 1 lecture/yr
2015	**Lecturer**, Bio5011, Responsible Conduct in Research Course, 6 lectures/yr
2014-Present	**Lecturer**, Microbes and Pathogenesis 1st year Medical School Course, 1 lecture/yr
2012-Present	**Lecturer**, Bio5392, Graduate Microbiology Course, 3 lectures/yr
2010-Present	**Lecturer**, Bio5217, Special Topics in Microbiology and Microbial Pathogenesis, 1 lecture/yr

Professional Affiliations

2010-Present	**American Society for Microbiology Member,** Officer/Chair of Mycobacteriology Division 2015-2018
2011-Present	**Institute of Clinical and Translational Science Member**

Professional Service

2018-2019	**Co-editor** of the Current Opinion in Immunology Host Pathogens 2019 Volume 60
2018	**Co-organizer** for the Ragon Institute symposium on innate immune responses during HIV/TB co-infection
2018-	**Executive Committee Chair**, the Beckman Legacy Award
2017-	**Member** of the Next Generation Researchers Initiative working group of the NIH Advisory Committee to the Director
2019	**Lead Organizer** for the Keystone Symposium on Tuberculosis: Mechanisms, Pathogenesis, and Treatment
2019-Present	**Faculty Member** in the Bacterial Infections Section of F1000Prime
2016-2019	**Editor** of mBIO Journal by ASM
2016	**Session Chair** for Keystone Symposia on "Cell Biology and Immunology of Persistent Infection"
2015-2018	**Editor** of *mSphere* Journal by ASM
2015-2018	**Elected Officer and Chair** of the Mycobacteriology Division U of the American Society for Microbiology
2014-2016	**Invited Editor** for mBIO Journal
2014	**Session Chair** for Keystone Symposia on "Novel Therapeutic Approaches to Tuberculosis"

University Service

2018	**Search Committee Member,** for the Chair of the Department of Pathology and Immunology, Washington University
2017-Present	**Departmental Liaison,** the Institute of Clinical and Translational Science
2017-2019	**Faculty Advisory Committee Member** for the Office of Technology Management
2017	**Search Committee Member** for Washington University Attending Veterinarian
2017	**Steering Committee Member** for the Animal Management and Protocol System (AMPS) Project, Washington University
2017	**Mentor,** NSF GRFP small group workshops
2012-2014, 2016	**Faculty Search Committee Member,** Department of Molecular Microbiology
2016-Present	**Steering Committee Member** for the Biochemistry and Computational and Molecular Biophysics Graduate Programs
2016-2018	**Internal Advisory Board Member** for the Center for Drug Discovery at Washington University in Saint Louis
2015-Present	**Reviewer and Mentor** for the Washington University New Investigator Awards Committee
2014-Present	**Recruiting Director** for the Molecular Microbiology and Microbial Pathogenesis (MMMP) graduate program
2014-Present	**Steering Committee Member** for the MMMP graduate program
2011-Present	**MMMP QE Committee,** Chair 2015, 2016

2016, 2018	**Mock Study Section Participant** for the Office of Training Grants and the Clinical Research Training Center, Washington University in St. Louis
2016, 2018	**PMB QE committee**
2015	**Member,** X-ray Irradiator Project Committee, Washington University
2015	**Junior Investigator Panel Participant** for DBBS review
2015	**Junior Investigator Panel Participant** for LCME Site Visit
2015	**Junior Investigator Panel Participant** at NIH CMB Training Grant site visit
2015	**Host** for St. Louis Children's Hospital's Youth Council lab tour
2014	**Presenter** at the Children's Discovery Institute Annual Investors Symposium
2014	**Presenter** at the NIH NIGMS Mass Spectrometry Resource Renewal Site Visit
2014	**Junior Investigator Panel participant** for NIH MSTP Program Review site visit
2013-2015	**Member,** the Liaison Committee on Medical Education Self-Study Task Force for Washington University School of Medicine
2013-2015	**MMMP Retreat Faculty Coordinator**
2011-2014	**Member,** MMMP Graduate Admissions Committee
2013	**Biophysics QE Committee**
2012	**MGG QE Committee**
2011-2015	**Young Scientist Program Sponsor**

Professional Service- Ad Hoc Reviewer for the Following Journals

Nucleic Acids Research, *Journal of Clinical Microbiology, European Journal of Immunology, Applied and Environmental Microbiology, Trends in Molecular Medicine, Molecular Systems Biology, Journal of Bacteriology, Molecular Microbiology, Current Pharmaceutical Biotechnology, PNAS, Future Medicine, Future Microbiology, Environmental Microbiology*, *mBio, Journal of Biological Chemistry, Infection and Immunity, PLOS Pathogens, Nature Communications, Scientific Reports, Nature, Cell Host and Microbe, Cell Chemical Biology, Nature Microbiology, Journal of Experimental Medicine*

Professional Service- Other Reviewer Responsibilities

2018	**Reviewer** for NIH PCMB study section
2017	**Overseas Reviewer** for PhD thesis in Dr. Marc Pelligrini's lab at the University of Melbourne
2017, 2018	**Reviewer** for NIH R21 and R01 Mycobacterial induced immunity in HIV-infected and uninfected individuals, RFA-PAR-15-360 and PAR-16-254
2017	**Reviewer** for the Wellcome Trust Sir Henry Wellcome Postdoctoral Fellowship
2016	**Reviewer** for Beckman Foundation postdoctoral researcher grants
2016	**Reviewer** for NIH R01, International Research in Infectious Diseases, RFA PAR-14-080
2016, 2017	**Reviewer** for NIH P01, Special Emphasis Panel
2015	**Reviewer** for NIH R15 AREA awards
2015	**Reviewer** for NIH R21 and R01, Basic Research in HIV-Related Heart, Lung and Blood Diseases, RFA-HL-14-029 and RFA-HL-14-024
2015	**Reviewer** for The German Israeli Foundation for Scientific Research and Development research proposals

2014	**Reviewer** for NIH R21 and R01, US-South Africa Program for Collaborative Biomedical Research, RFA-AI-14-009 and RFA-AI-14-010
2014	**Reviewer** for NIH U01 and U19 ICIDR grants, RFA-AI-14-001 and RFA-AI-14-002
2014	**Reviewer** for NIH R01/R21 special emphasis panel on infectious disease
2014	**Reviewer** for Graduate Women in Science Fellowships

University Service- Other Reviewer Responsibilities

2014-2016	**Reviewer** for ICTS Pilot Awards
2012-2013	**Reviewer** for URSA proposals
2012-2013	**Reviewer** for Spector Award
2011-2013	**Reviewer** for MRCE Developmental Projects
2011-2013, 2018	**Reviewer** for BioSURF proposals
2013-2017	**Poster Judge** for Global Health and Infectious Disease Conference
2011-2015, 2018	**Poster Judge** for Postdoctoral Research Symposium

Honors and Awards

2017	**Burroughs Wellcome Fund Investigator in the Pathogenesis of Infectious Disease**
2016	**Invited Presenter** for the Washington University Board of Trustees
2013	**Arnold and Mabel Beckman Foundation Young Investigator Award Recipient**
2011-2013	**American Lung Association Biomedical Research Grant recipient,** Designated as TB Scholar
2007-2010	**NIH Ruth L. Kirschstein National Research Service Award,** Individual Postdoctoral Fellowship
2010	**MSKCC Postdoctoral Researcher Award**
2010	**New York Academy of Sciences Blavatnik Postdoc Award nominee**
2009	**Sloan-Kettering Institute and Cornell University Immunology Department Achievement Award**
2009	**Keystone Symposia Travel Scholarship** for Tuberculosis: Biology, Pathology and Therapy meeting
2008	**1st Place Poster Prize**, MSKCC Postdoctoral Research Symposium
2003	**International Herpesvirus Workshop Travel Honorarium**
1998-1999	**National Science Foundation Scholarship**
1995-1999	**Mary Washington College Alumni Scholarship**
1999	**Magna Cum Laude Graduate**
1998	**Member of Phi Beta Kappa,** Golden Key National Honor Society
1998-1999	**Member and Officer of Chi Beta Phi,** National Science and Math Honor Society
1998-1999	**Member and Officer of Alpha Phi Sigma,** National Honor Society
1998-1999	**Member of Kappa Delta Pi,** International Education Honor Society

Publications

1. Huynh, J.P., Lin, C., Kimmey, J.M., Jarjour, N.N., Schwarzkopf, E.A., Bradstreet, T.R., Shchukina, I., Shpynov, O., Weaver, C.T., Taneja, R., Artyomov, M.N., Edelson, B.T., and Stallings, C.L.. 2018. Bhlhe40 is an essential repressor of IL-10 during Mycobacterium tuberculosis infection. *The Journal of Experimental Medicine*. *In Press.*

2. Prusa, J., Jensen, D., Santiago-Collazo, G., Pope, S.S., Garner, A.L., Miller, J.J., Ruiz Manzano, A., Galburt, E.A., and Stallings, C.L.. 2018. Domains within RbpA serve specific functional roles that regulate distinct mycobacterial gene subsets. *Journal of Bacteriology*. *In Press*.

3. Yokoyama, C., Baldridge, M., Leung, D., Zhao, G., Desai, C., Liu, T., Diaz-Ochoa, V., Huynh, J., Kimmey, J., Sennott, E., Hole, C., Idol, R., Park, S., Storek, K., Wang, C., Hwang, S., Milam, A., Chen, E., Kerrinnes, T., Starnbach, M., Handley, S., Mysorekar, I., Allen, P., Monack, D., Dinauer, M., Doering, T., Tsolis, R., Dworkin, J., Stallings, C.L., Amarasinghe, G., Micchelli, C., and Virgin, H.. 2018. LysMD3 is a type II membrane protein without an in vivo role in the response to a range of pathogens. *Journal of Biological Chemistry*. *In press.*

4. Nair, S., Huynh, J.P., Lampropoulou, V., Loginicheva, E., Esaulova, E., Gounder, A.P., Boon, A.C.M., Schwarzkopf, E.A., Bradstreet, T.R,. Edelson, B.T., Artyomov, M.N., Stallings, C.L.*, and Diamond, M.S.*. 2018. *Irg1* expression in myeloid cells prevents immunopathology during *Mycobacterium tuberculosis* infection. *The Journal of Experimental Medicine*. *In Press*. (*Co-corresponding authors)

5. Potter, R., Wallace, M., McMullen, A., Prusa, J., Stallings, C.L., Burnham, C., Dantas, G.. 2018. blaIMP-27 on transferable plasmids in *Proteus mirabilis* and *Providencia rettgeri*. *Clinical Microbiology and Infection*. *In Press*.

6. Kinsella, R.L., Nehls, E.M., and Stallings, C.L.. 2018. Roles for autophagy proteins in immunity and host defense. *Veterinary Pathology, In Press*.

7. Mann, K.M., Huang, D.L., Hooppaw A.J., Logsdon, M.M., Richardson, K., Lee, H.J., Kimmey, J.M., Aldridge, B.B., and Stallings, C.L.. 2017. Rv0004 is a new essential member of the mycobacterial DNA replication machinery. *PLOS Genetics*. 13(11):e1007115. PMID: 29176877.

8. C.L. Stallings. 2017. Host response: Inflammation promotes TB growth. *Nature Microbiology.* 27(2):17102. PMID: 28653684.

9. Syal, K., Flentie, K., Bhardwaj, N., Maiti, K., Jayaraman, N., Stallings, C.L., and Chatterji, D.. 2017. Synthetic (p)ppGpp analogue: Potential inhibitor of stringent response in mycobacteria. *Journal of Antimicrobial Agents and Chemotherapy.* 61(6):e00443-17. PMCID: PMC5444170.

10. Kimmey, J.M., Campbell, J.A., Weiss, L.A., Monte, K.J., Lenschow, D.J., and Stallings, C.L.. 2017. The impact of ISGylation during *Mycobacterium tuberculosis* infection in mice. *Microbes and Infection*. 19(4-5):249-258. PMCID: PMC5403610.

    Selected as a highlighted open access article.

11. Garner, A.L., Rammohan, J., Huynh, J.P., Onder, L.M., Chen, J., Bae, B., Jensen, D., Weiss, L.A., Ruiz Manzano, A., Darst, S.A., Campbell, E.A., Nickels, B.E., Galburt, E.A., and Stallings, C.L.. 2017. Effects of Increasing the Affinity of CarD for RNA Polymerase on *Mycobacterium tuberculosis* Growth, rRNA Transcription, and Virulence. *JBac*. 199(4). pii: e00698-16. PMCID: PMC5287406.

    Selected as for a *Journal of Bacteriology* Spotlight, a distinction given to the best articles in each issue.

12. Kimmey, J.M. and Stallings, C.L.. 2016. Bacterial pathogens versus autophagy: Implications for therapeutic intervention. *Trends in Molecular Medicine*. 22(12):1160-1076. PMCID: PMC5215815.

13. Mann, K.M., Pride, A., Flentie, K., Kimmey, J.M., Weiss, L.A., Stallings, C.L.. 2016. Analysis of the contribution of MTP and the predicted Flp pilus genes to *Mycobacterium tuberculosis* pathogenesis. *Microbiology*. 162(10):1784-1796. PMID: 27586540.

14. Rammohan, J., Ruiz-Manzano, A., Prusa, J., Garner, A.L., Stallings, C.L., and Galburt, E.A.. 2016. Cooperative stabilization of *Mycobacterium tuberculosis rrnA*P3 promoter open complexes by RbpA and CarD. *Nucleic Acids Res*. 44(15):7304-13. PMCID: PMC5009747.

15. Flentie, K., Garner, A.G., and Stallings, C.L.. 2016. The *Mycobacterium tuberculosis* transcription machinery: ready to respond to host attacks. *JBac*. 198(9):1360-73. PMCID: PMC4836228.

16. Kimmey, J.M., Huynh, J.P., Weiss, L.A., Park, S., Kambal, A., Debnath, J., Virgin, H.W., and Stallings, C.L.. 2015. Unique role for ATG5 in neutrophil-mediated immunopathology during *M. tuberculosis* infection. *Nature*. 528(7583):565-9. PMCID: PMC4842313.
    Commentaries in:
    Behar, S.M. and Baehrecke, E.H.. 2015. *Nature*. 528(7583):482-3.
    Shaffer, L.. 2016. *Nature Medicine*. 22:334-335.

17. Flentie, K.N., Stallings, C.L., Turk, J., Minnaard, A.J., Hsu, F.F.. 2016. Characterization of phthiocerol and phthiodiolone dimycocerosate esters of *M. tuberculosis* by multiple-stage linear ion-trap MS. *J Lipid Res*. 57(1):142-55. PMCID: PMC4689332.

18. Watson, R.O., Bell, S.L., MacDuff, D.A., Kimmey, J.M., Diner, E.J., Olivas, J., Vance, R.E., Stallings, C.L., Virgin, H.W., and Cox, J.S.. 2015. cGAS detects Mycobacterium tuberculosis DNA to activate both type I interferon and autophagy. *Cell Host & Microbe.* 17(6):811-9. PMCID: PMC4466081.

19. Rammohan, J., Ruiz-Manzano, A., Garner, A.L., Stallings, C.L., and Galburt, E.A.. 2015. CarD stabilizes mycobacterial open complexes via a two-tiered kinetic mechanism. *Nucleic Acids Res.* 43(6):3272-85. PMCID: PMC4381055.
    Selected as a Breakthrough Article

20. MacDuff, D.A., Reese, T.A., Kimmey, J.M., Weiss, L.A., Song, C., Zhang, X., Kambal, A., Duan, E., Carrero, J.A., Boisson, B., Laplantine, E., Israel, A., Picard, C., Colonna, M., Edelson, B.T., Sibley, L.D., Stallings, C.L., Casanova, J.L., Iwai, K., and Virgin, H.W.. 2015. Phenotypic complementation of genetic immunodeficiency by chronic herpesvirus infection. *Elife*. 4:e04494. PMCID: PMC4298697.

21. Imlay, L.S., Armstrong, C.M., Masters, M.C., Lic, T., Price, K.E., Edwards, R.L., Mann, K.M., Li, L.X., Stallings, C.L., Berry, N.G., O'Neill, P.M., and Odom, A.R.. 2015. Plasmodium IspD (2-C-methyl-D-erythritol 4-phosphate cytidyltransferase), an essential and druggable antimalarial target. *ACS Infectious Diseases.* 1(4):157-167. PMCID: PMC4714788.

22. Landick, R., Krek, A., Glickman, M.S., Socci, N.D., and Stallings, C.L.. 2014. Genome-Wide Mapping of the Distribution of CarD, RNAP s^A, and RNAP b on the *Mycobacterium smegmatis* Chromosome using Chromatin Immunoprecipitation Sequencing. *Genomics Data*. *2:*110-113. PMCID: PMC4115788.

23. Garner, A.L., Weiss, L.A., Ruiz Manzano, A., Galburt, E.A., and Stallings, C.L.. 2014. CarD integrates three functional modules to promote efficient transcription, antibiotic tolerance, and pathogenesis in mycobacteria. *Molecular Microbiology*. 93(4):682-97. PMCID: PMC4127138.

24. Gopal, R., Monin, L., Slight, S., Uche, U., Blanchard, E., Fallert Junecko, B.A., Stallings, C.L., Reinhart, T.A., Kolls, J., Nagarajan, U., Rangel-Moreno, J., and Khader, S.A.. 2014. IL-17 is required for protection against *Mycobacterium tuberculosis* "hypervirulent" HN878 infection. *PLOS Pathogens.* 10(5):e1004099. PMCID: PMC4022785.

25. Weiss, L.A. and Stallings, C.L.. 2013. Essential Roles for *Mycobacterium tuberculosis* Rel_{Mtb} beyond the production of (p)ppGpp. *JBac*. 195(24):5629-5638. PMCID: PMC3889611.

26. Srivastava, D. B., Leon, K, Osmundson, J, Garner, A., Weiss, L. A., Westblade, L., Glickman, M. S., Landick, R., Darst, S. A., and *Stallings, C. L., and *Campbell, E.A.. 2013. Structure and function of CarD, an essential Mycobacterial transcription factor. *PNAS*. 110(31):12619-24. PMCID: PMC3732983. (*Co-corresponding authors).

27. Tussiwand, R., Lee, W., Murphy, Y.L., Mashayekhi, M., Albring, J.C., Satpathy, A.T., Wumesh KC, Rotondo, J.A., Edelson, B.T., Kretzer, N.M., Wu, X., Behnke, M., Weiss, L.A., Lam, S.S.K., Aurthur, C.T., Stallings, C.L., Sibley, L.D., Schreiber, R.D., and Murphy, K.M.. 2012. Compensatory dendritic cell development mediated by BATF-IRF interactions. *Nature*. 490(7421):502-7. PMCID: PMC3482832.

28. Weiss, L.A., Harrison, P.G., Nickels, B.E., Glickman, M.S., Campbell, E.A., Darst, S.A., and Stallings, C.L. 2012. The interaction of CarD with RNAP mediates *Mycobacterium tuberculosis* viability, rifampicin resistance, and persistence. *JBac*. 194(20):5621-31. PMCID: PMC3458692.
    Selected for the Journal Highlights Section of *Microbe*

29. Stallings, C.L., Chu, L., Li, L.X., and Glickman, M.S.. 2011. Catalytic and non-catalytic roles for the mono-ADP-ribosyltransferase Arr in the mycobacterial DNA damage response. *PLoS One*. 6(7):e21807. PMCID: PMC3138739.

30. *Stallings, C.L. and Glickman, M.S. 2011. CarD: A new RNA polymerase modulator in mycobacteria. *Transcription.* 2(1):15-18. PMCID: PMC3023641. (*Corresponding Author)

31. Barkan, D., Stallings, C.L., and Glickman, M.S. 2011. An improved counterselectable marker system for mycobacterial recombination using *galK* and 2-Deoxy-Galactose. *Gene*. 470(1-2):31-6. PMCID: PMC3008429.

32. Stallings, C.L. and Glickman, M.S. 2010. Is *Mycobacterium tuberculosis* stressed out? A critical assessment of the genetic evidence. *Microbes and Infection*. 12(14-15):1091-101. PMCID: PMC3587153.

33. Stallings, C.L., Stephanou, N.C., Chu, L., Hochschild, A., Nickels, B.E., and Glickman, M.S.. 2009. CarD is an essential regulator of rRNA transcription required for *Mycobacterium tuberculosis* persistence. *Cell*. 138(1):146-59. PMCID: PMC2756155.
    Comments in:
    Connolly, L.E. and Cox, J.S.. 2009. *Cell Host Microbe*. 6(1):1-2.
    Molloy, S.. 2009. *Nature Reviews Microbiology*. 7:618.

34. Stallings, C.L. and Silverstein, S.J.. 2006. Posttranslational modification and cell-type specific degradation of varicella-zoster virus ORF29p. *J Virol*. 80:10836-46. PMCID: PMC1641786.

35. Stallings, C.L., Duigou, G.J., Gershon, A.A., Gershon, M.D., and Silverstein, S.J.. 2006. The cellular localization pattern of varicella-zoster virus ORF29p is influenced by proteasome- mediated degradation. *J Viro*l. 80:1497-1512. PMCID: PMC1346923.

36. Stallings, C.L. and Silverstein, S.J.. 2005. Dissection of a novel nuclear localization signal in open reading frame 29 of varicella-zoster virus. *J Virol*. 79:13070-81. PMCID: PMC1235848.

Book Chapters

1. Walters, M.S., Kyratsous, C.A., Stallings, C.L., Lungu, O. and Silverstein, S.J.. 2010. “What Doesn't Belong and Why; a Saga of Latency Associated Proteins Elaborated by Varicella Zoster Virus” In: *From the Hallowed Halls of Herpesvirology: Review Series Commemorating the 80th Birthday of Bernard Roizman, Sc.D.*, J.A. Blaho and J.D. Baines editors, World Scientific Publishing company, Hackensack, NJ, USA.