

CURRICULUM VITAE

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School: Yale School of Medicine

Education:

09/1989 - 06/1993 BS, Yale University, Biology, New Haven, CT
09/1993 - 04/1999 PhD, Stanford University School of Medicine, Immunology, Stanford, CA
09/1993 - 06/2001 MD, Stanford University School of Medicine, Medicine, Stanford, CA

Career/Academic Appointments:

06/2004 Resident in Clinical Pathology, Pathology, Brigham and Women's Hospital,
Harvard Medical School, Boston, MA
02/2010 - 04/2012 Postdoctoral Associate, Immunobiology, Yale School of Medicine, New Haven, CT
05/2012 - 04/2015 Postdoctoral Fellow, Laboratory Medicine, Yale School of Medicine, New Haven,
CT
05/2012 - 06/2016 Instructor, Laboratory Medicine, Yale School of Medicine, New Haven, CT
05/2015 - 06/2015 Postdoctoral Associate, Laboratory Medicine, Yale School of Medicine, New
Haven, CT
07/2016 - 07/2022 Assistant Professor, Laboratory Medicine, Yale School of Medicine, New Haven, CT
01/2019 - 07/2022 Assistant Professor, Immunobiology, Yale School of Medicine, New Haven, CT
07/2022 - 06/2027 Associate Professor on Term, Laboratory Medicine, Yale School of Medicine, New
Haven, CT
07/2022 - 06/2027 Associate Professor on Term, Immunobiology, Yale School of Medicine, New
Haven, CT

Board Certification:

2004 AB of Pathology, Clinical Pathology

Professional Honors & Recognition:

International/National/Regional

2017	2017 Prize Recipient, National Antimicrobial Resistance Diagnostic Challenge, Phase I, NIH
2019	2019 Levine Lab Laureate Award, Rosalind Franklin Society
2019	2018 Hartwell Individual Biomedical Research Award, The Hartwell Foundation
2021	2021 ASCI Council Young Physician-Scientist Award, The American Society of Clinical Investigation
2021	2021 Rita Allen Foundation Scholars Award, Rita Allen Foundation

Yale University/Yale School of Medicine/Hospital System

2021	Yale Public Voices Fellow, The OpEd Project
2022	Yale -New Haven Health System Innovation Award, Yale -New Haven Health System Center for Health Care Innovation

Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:

International/National

1. "Dissecting the innate immune response to human rhinovirus". 9th International Student Symposium, Kyoto University, Dissecting the innate immune response to human rhinovirus, Kyoto, Kyoto, Japan, January 2011. (Lecture)
2. "Innate immunity, the common cold, and the respiratory virome". San Diego State University, SDSU Seminar Series, San Diego, CA, January 2012. (Lecture)
3. "Studying host defense to fight (and diagnose) viral respiratory infections". ACLPS National Meeting, Studying host defense to fight (and diagnose) viral respiratory infections, New Haven, CT, January 2017. (Lecture)
4. "Host-response based diagnostics for respiratory infection". Gordon Research Conference on Drug Resistance, Host-response based diagnostics for respiratory infection, Smithfield, RI, January 2018. (Lecture)
5. "Studying innate immunity in the human airway". Stanford University Immunology Program, Stanford Immunology Program, Stanford, CA, January 2018. (Lecture)
6. "Uncovering Natural Defenses in the Fight Against Respiratory Viruses". Rosalind Franklin Society, Wistar Institute, Uncovering Natural Defenses in the Fight Against Respiratory Viruses, Philadelphia, PA, January 2019. (Lecture)
7. "Novel Diagnostic Test to Reduce Antibiotic Overuse". Hartwell Foundation Annual Meeting, Houston, TX, October 2019. (Lecture)
8. "Host response-based detection of respiratory viruses and applications to COVID-19". SPARC Indo-US conference on Immunology, Host response-based detection of respiratory viruses and applications to COVID-19, Indian Institute of Technology [IIT] Ropar, India, January 2020. (Lecture)
9. "Novel Diagnostic Test to Reduce Antibiotic Overuse". Hartwell Foundation Annual Meeting, Online symposium, August 2020. (Lecture)
10. "Viral Interference". Iwasaki Laboratory 20th Reunion Symposium, Viral Interference, Zoom, September 2020. (Lecture)

11. "Innate immune defenses against respiratory viruses". UCSF Gladstone Institute of Virology Seminar Series, Gladstone Institute Infectious Disease and Human Health Seminar Series, UCSF, December 2020. (Lecture)
12. "Kinetics of host antiviral response determine SARS-CoV-2 replication early in infection". ASCI Young Physician Scientist Awardee Poster Session, ASCI Council, January 2021. (Poster Presentation)
13. "Dynamic Innate Immune Responses in Defense Against SARS-CoV-2". Brown University, Molecular Microbiology and Immunology Seminar, Dynamic Innate Immunity in SARS-CoV-2 Infection, Providence, RI, January 2021. (Lecture)
14. "Uncovering Natural Defenses in the Fight Against Respiratory Viruses". UCSD Department of Pathology Grand Rounds, Uncovering Natural Defenses in the Fight Against Respiratory Viruses, UCSD, January 2021. (Lecture)
15. "Innate Immune Defense Against Respiratory Viruses". University of Washington, Pathology Grand Rounds, Innate Immune Defense Against Respiratory Viruses, University of Washington, January 2021. (Lecture)
16. "A Novel Diagnostic Test to Reduce Antibiotic Overuse". The Hartwell Foundation Annual Meeting, A Novel Diagnostic Test to Reduce Antibiotic Overuse, Zoom, January 2021. (Lecture)
17. "Uncovering natural defenses in the fight against respiratory viruses". University of Washington Laboratory Medicine Grand Rounds, Online seminar, January 2021. (Lecture)
18. "Uncovering Natural Defenses in the Fight Against Respiratory Viruses". UC San Diego Pathology Research Lecture Series, Online seminar, February 2021. (Lecture)
19. "Dynamic innate immune responses in defense against SARS-CoV-2". Brown University Microbiology and Immunology Seminar, Providence, RI, October 2021. (Lecture)
20. "Dynamic innate immune responses in defense against SARS-CoV-2". American Society of Clinical Investigation Online Poster Session, Online session, November 2021. (Oral Presentation)
21. "Innate Immune Functions of the Airway Epithelium". FASEB Lung Conference, Innate Immune Functions of the Airway Epithelium, Montpelier, VT, January 2022. (Lecture)
22. "Innate Defense against Respiratory Viruses". Society of Mucosal Immunology pre-meeting workshop, Seattle, WA, July 2022. (Lecture)
23. "Dynamic antiviral defense in the airway epithelium". International Congress of Mucosal Immunology, Seattle, WA, July 2022. (Lecture)
24. "Dynamic antiviral defense in the airway epithelium". FASEB Meeting: Respiratory Epithelium in Health and Disease, Montpelier, VT, August 2022. (Lecture)
25. "Drivers and consequences of dynamic innate immunity in the respiratory tract". ABCAM Immunology Sessions, Online symposium, February 2023. (Lecture)
26. "'The only constant is change': Understanding host-virus dynamics in the human respiratory tract". University of Pennsylvania, UPENN Microbiology Seminar, Philadelphia, PA, March 2023. (Lecture)
27. "Host response-based screening for unexpected or emerging respiratory viruses". COVID Information Commons, Online symposium, April 2023. (Lecture)
28. "Dynamic mucosal immunity and susceptibility to respiratory viruses: the case of young children". Society of Mucosal Immunology, Federation of Clinical Immunology Societies (FOCIS), Boston, MA, June 2023. (Lecture)

29. "Understanding the roles of common respiratory viruses in health and disease". Litwack Keynote Lecture, North Carolina State Research Day, Raleigh, NC, August 2023. (Lecture)
30. "Advances in Host Response-Based Diagnostics and Applications to Respiratory Infections". ACLPS, American Society of Clinical Pathology Annual Meeting, Los Angeles, CA, October 2023. (Lecture)
31. "Dynamic innate immunity and host-virus interactions in the human respiratory tract". Edwin Schulz Memorial Lecture, Stanford Microbiology and Immunology Seminar Series, Stanford, CA, November 2023. (Lecture)

Regional

1. "What's next in respiratory virus detection?". Yale School of Public Health, Epidemiology of Microbial Diseases Seminar Series, New Haven, CT, December 2018. (Lecture)
2. "Understanding innate defense against respiratory viruses". Pediatrics Grand Rounds (YNHH), New Haven, CT, January 2019. (Lecture)
3. "Tradeoffs in host defense during rhinovirus infection". Cystic Fibrosis Interest Group Seminar, New Haven, CT, January 2019. (Lecture)
4. "Innate immune defenses in the fight against respiratory viruses". Pediatrics Grand Rounds (Bridgeport Hospital), Bridgeport, CT, March 2019. (Lecture)
5. "Impact of environment on defense against respiratory viruses". Environmental and Occupational Health Seminar, New Haven, CT, April 2019. (Lecture)
6. "Temperature, immunity, and viruses". Yale Cooperative Center for Excellence in Hematology Summer Program, New Haven, CT, August 2019. (Lecture)
7. "Host-virus interactions in the human airway". Yale Microbiology Retreat, New Haven, CT, September 2019. (Lecture)
8. "A Novel Coronavirus from Patients with Pneumonia in China, 2019". Yale School of Public Health, Yale 2019-nCoV Colloquium, New Haven, CT, January 2020. (Oral Presentation)
9. "COVID-19 Diagnostics". Yale School of Medicine Dean's Workshop on COVID-19, Online symposium, March 2020. (Lecture)
10. "Dynamic mucosal defense against SARS-CoV-2". Human Translational Immunology Seminar, New Haven, CT, March 2021. (Lecture)
11. "Viruses and other stressors: Crosstalk between defensive signaling pathways in the airway epithelium". Yale Cancer Center, CSN Interest Group, Online meeting, June 2021. (Lecture)
12. "COVID-19 Diagnostics". Yale Cooperative Center for Excellence in Hematology Summer Program, YCCEH summer program student presentation - online, July 2021. (Oral Presentation)
13. "Virus-host-virus interactions during the COVID-19 pandemic". Yale COVID-19 Interest Group, Online meeting, February 2022. (Lecture)
14. "VirusCheck: Low-cost screening for viral respiratory infection". YNHHS PitchFest, Online event, June 2022. (Other)
15. "Dynamic mucosal defense against respiratory viruses". Yale Immunobiology Retreat, New Haven, CT, September 2022. (Lecture)
16. "What are we missing? Leveraging innate immunity to find undiagnosed and emerging infections". Yale Center for Infection and Immunity Inaugural Symposium, New Haven, CT, August 2023. (Lecture)
17. "Understanding natural variation in susceptibility to respiratory viruses". Human Translational Immunology Seminar, New Haven, CT, December 2023. (Lecture)

Peer-Reviewed Presentations Given at Meetings Not Affiliated With Yale:

International/National

1. Temperature-dependent airway innate immune defense against the common cold virus. American Society of Microbiology General Meeting, Temperature-dependent airway innate immune defense against the common cold virus, Denver, CO, January 2013. (Oral Presentation)
2. Temperature-dependent innate immune defense against the common cold virus. Academy of Clinical Laboratory Physicians and Scientists National Meeting, Temperature-dependent innate immune defense against the common cold virus, Atlanta, GA, January 2013. (Oral Presentation)
3. Regional differences in airway epithelial cells reveal tradeoff between defense against oxidative stress and defense against rhinovirus. Gordon Conference on Acute Respiratory Infections, Regional differences in airway epithelial cells reveal tradeoff between defense against oxidative stress and defense against rhinovirus, Ventura, CA, January 2018. (Lecture)
4. **Foxman EF.** Regional differences in airway epithelial cells reveal tradeoff between defense against oxidative stress and defense against rhinovirus. Gordon Conference on Acute Respiratory Infections, Ventura, CA, October 2018. (Lecture)
5. **Foxman EF.** Leveraging Airway Innate Immune Responses for Detection of Unexpected or Emerging Viruses. Keystone Meeting : Respiratory Viruses, Keystone, CO, July 2022. (Oral Presentation)

Professional Service:

Peer Review Groups/Grant Study Sections

2017	External Reviewer, Medical Research Council, U.K. Clinician-Scientist Fellowships, Reviewer for Clinician-Scientist FEC Fellowship
2019 - 2021	Reviewer, Association of Clinical Pathology Physicians and Scientists (ACLPS) Early Career Grants, ACLPS Young Investigator Grants
2019 - 2024	Abstract Reviewer, ACLPS
2020	Ad-hoc reviewer, NIH U54 Emergency Awards Study Section
2020	Ad-hoc reviewer, NIH, U54 Serological Sciences Emergency Awards Study Section
2021	External Reviewer, Swiss National Science Foundation
2022	Ad-hoc reviewer, NIH Innate Immunity and Inflammation Study Section
2023	Ad-hoc reviewer, NIH Interspecies Microbial Interactions and Infections Study Section
2024	Ad-hoc reviewer, NIH Innate Immunity and Inflammation Study Section

Journal Services

Reviewer

2015 - Present	Reviewer, Nature, Cell, Cell Host Microbe, Cell Stem Cell, Nature Microbiology, Thorax, Trends in Microbiology, Science Immunology, Science Advances, PLoS Biology, PLoS Pathogens, Virology, European Respiratory Journal, Journal of Infectious Diseases, Clinical Infectious Diseases, Journal of Immunology, Lancet Microbe
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Professional Organizations

Association of Clinical Pathology Physicians and Scientists (ACLPS), Education Committee

2017 - 2020 Committee Member, Association of Clinical Pathology Physicians and Scientists (ACLPS), Education Committee

Society of Mucosal Immunology ICMI committee

2020 - 2022 Co-Organizer, Society of Mucosal Immunology ICMI committee

Society of Mucosal Immunology session at FOCIS meeting

2023 Chair, Society of Mucosal Immunology session at FOCIS meeting, Convener, Society of Mucosal Immunology Session, FOCIS meeting (Boston, MA)

Yale University / Hospital System

University

2016 - 2017 Mentor, Women in Science at Yale (WISAY) Mentoring Group

2021 - 2022 Mentor, Yale Post-Doctoral Association Mentoring Group

Medical School

2017 - 2020 Member, Yale Medical Scientist Training Program (MD PhD) Recruitment Committee

2018 - 2019 Chair, New PI Leadership Cohort Monthly Meetings, Convener of new PI leadership cohort monthly meetings from Yale HFP leadership course

2020 - 2021 Board Member, IMPACT Biorepository Board of Governors

2020 Chair, COVID-19 Lab Working Group, Convener of COVID-19 Yale Lab Working group, met three times per week for two months (March-April 2020)

2024 - Present Representative, Society for Women in Medicine

Department

2017 Member, Laboratory Medicine Research Retreat Planning Committee

2017 - Present Member, Search Committee, Physician-Scientist Faculty

2018 - 2019 Member, Search Committee, Clinical Chemistry Faculty

2019 - Present Co-Chair, Department of Laboratory Medicine Grand Rounds

2019 Member, IBIO Diversity and Climate Committee

2020 - Present Co-Chair, Human Translational Immunology Seminar Series

2020 - 2023 Mentor, IBIO First Year Student Mentoring Committee

2020 - Present Member, Human Translational Immunology Steering Committee

2021 Co-Chair, Laboratory Medicine Faculty Retreat Planning Committee

2021 - 2022 Member, IBIO Diversity and Inclusion Working Group

2022 - 2023 Committee Member, Department of Microbial Pathogenesis, Graduate Admissions

2023 - 2024 Committee Member, Department of Immunobiology Graduate Admissions

Public Service / Media Presence

Public Service

2019 Lecturer, Science Talks@ Tilde Cafe, a community scientific education initiative

Media Presence

2015 - Present Participant, Interviews on scientific topics for international media organizations including BBC NewsHour, Der Spiegel, Arirang TV S Korea

2015 - Present Participant, Interviews on scientific topics for national media organizations including NPR, Huffington Post Video, NOVA/PBS, Washington Post, Boston Globe, Good Morning America, Scientific American, PBS NewsHour, Reddit "Ask me anything", See links in Yale Profile

2021 Author, The Hill: "We can live with viruses — COVID isn't the first, or last, threat" (OpEd), Op Ed in National news media

2021 Author, KevinMD: "How to end the misinformation pandemic" (OpEd)

2022 Author, U.S. News and World Report: "Strategic Masking Is the New Health Trend We Need" (OpEd)

Patents:

Pending

1. **Foxman F Ellen**, Landry Marie-Louise. 2017. Methods for Detecting Respiratory Virus Infection. United States WO2018/071498, filed October 11, 2017. Patent Pending.
2. **Foxman F Ellen**. 2018. Test to distinguish viral-only from bacterial infection or viral/bacterial co-infection from a respiratory swab. United States WO2019/217296, filed May 07, 2018. Patent Pending.
3. **Foxman F Ellen**. 2022. METHODS OF DETECTING VIRAL OR BACTERIAL INFECTIONS. United States WO2023122775, filed December 02, 2022. Patent Pending.

Bibliography:

Peer-Reviewed Original Research

1. **Flescher EG**, Madden K, Snyder M. Components required for cytokinesis are important for bud site selection in yeast. The Journal Of Cell Biology 1993, 122: 373-86. [PMID: 8320260](#), [PMCID: PMC2119637](#), [DOI: 10.1083/jcb.122.2.373](#).
2. Campbell J, **Foxman E**, Butcher E. Chemoattractant receptor cross talk as a regulatory mechanism in leukocyte adhesion and migration. European Journal Of Immunology 1997, 27: 2571-2578. [PMID: 9368612](#), [DOI: 10.1002/eji.1830271016](#).
3. **Foxman E**, Campbell J, Butcher E. Multistep Navigation and the Combinatorial Control of Leukocyte Chemotaxis. Journal Of Cell Biology 1997, 139: 1349-1360. [PMID: 9382879](#), [PMCID: PMC2140208](#), [DOI: 10.1083/jcb.139.5.1349](#).
4. Zigmond S, **Foxman E**, Segall J. Chemotaxis Assays for Eukaryotic Cells. Current Protocols In Cell Biology 1998, 00: 12.1.1-12.1.29. [PMID: 18228315](#), [DOI: 10.1002/0471143030.cb1201s00](#).

5. **Foxman E**, Kunkel E, Butcher E. Integrating Conflicting Chemotactic Signals. *Journal Of Cell Biology* 1999, 147: 577-588. [PMID: 10545501](#), [PMCID: PMC2151176](#), [DOI: 10.1083/jcb.147.3.577](#).
6. **Foxman EF**, Zhang M, Hurst SD, Muchamuel T, Shen D, Wawrousek EF, Chan CC, Gery I. Inflammatory Mediators in Uveitis: Differential Induction of Cytokines and Chemokines in Th1- Versus Th2-Mediated Ocular Inflammation. *The Journal Of Immunology* 2002, 168: 2483-2492. [PMID: 11859142](#), [DOI: 10.4049/jimmunol.168.5.2483](#).
7. Foxman EF. Cover Illustration: Histoplasma capsulatum, July 2004-June 2005. *Journal of clinical microbiology*. 2004; 42.
8. **Foxman EF**, Jarolim P. Use of the Fetal Fibronectin Test in Decisions to Admit to Hospital for Preterm Labor. *Clinical Chemistry* 2004, 50: 663-665. [PMID: 14981040](#), [DOI: 10.1373/clinchem.2003.028720](#).
9. **Foxman EF**, Iwasaki A. Genome–virome interactions: examining the role of common viral infections in complex disease. *Nature Reviews Microbiology* 2011, 9: 254-264. [PMID: 21407242](#), [PMCID: PMC3678363](#), [DOI: 10.1038/nrmicro2541](#).
10. **Foxman EF**, Storer JA, Fitzgerald ME, Wasik BR, Hou L, Zhao H, Turner PE, Pyle AM, Iwasaki A. Temperature-dependent innate defense against the common cold virus limits viral replication at warm temperature in mouse airway cells. *Proceedings Of The National Academy Of Sciences Of The United States Of America* 2015, 112: 827-832. [PMID: 25561542](#), [PMCID: PMC4311828](#), [DOI: 10.1073/pnas.1411030112](#).
11. **Foxman EF**, Storer JA, Vanaja K, Levchenko A, Iwasaki A. Two interferon-independent double-stranded RNA-induced host defense strategies suppress the common cold virus at warm temperature. *Proceedings Of The National Academy Of Sciences Of The United States Of America* 2016, 113: 8496-8501. [PMID: 27402752](#), [PMCID: PMC4968739](#), [DOI: 10.1073/pnas.1601942113](#).
12. Iwasaki A, **Foxman EF**, Molony RD. Early local immune defences in the respiratory tract. *Nature Reviews Immunology* 2016, 17: 7-20. [PMID: 27890913](#), [PMCID: PMC5480291](#), [DOI: 10.1038/nri.2016.117](#).
13. Landry ML, **Foxman EF**. Antiviral Response in the Nasopharynx Identifies Patients With Respiratory Virus Infection. *The Journal Of Infectious Diseases* 2017, 217: 897-905. [PMID: 29281100](#), [PMCID: PMC5853594](#), [DOI: 10.1093/infdis/jix648](#).
14. Mihaylova VT, Kong Y, Fedorova O, Sharma L, Dela Cruz CS, Pyle AM, Iwasaki A, **Foxman EF**. Regional Differences in Airway Epithelial Cells Reveal Tradeoff between Defense against Oxidative Stress and Defense against Rhinovirus. *Cell Reports* 2018, 24: 3000-3007.e3. [PMID: 30208323](#), [PMCID: PMC6190718](#), [DOI: 10.1016/j.celrep.2018.08.033](#).
15. Fauver JR, Petrone ME, Hodcroft EB, Shioda K, Ehrlich HY, Watts AG, Vogels CBF, Brito AF, Alpert T, Muyombwe A, Razeq J, Downing R, Cheemarla NR, Wyllie AL, Kalinich CC, Ott IM, Quick J, Loman NJ, Neugebauer KM, Greninger AL, Jerome KR, Roychoudhury P, Xie H, Shrestha L, Huang ML, Pitzer VE, Iwasaki A, Omer SB, Khan K, Bogoch II, Martinello RA, **Foxman EF**, Landry ML, Neher RA, Ko AI, Grubaugh ND. Coast-to-Coast Spread of SARS-CoV-2 during the Early Epidemic in the United States. *Cell* 2020, 181: 990-996.e5. [PMID: 32386545](#), [PMCID: PMC7204677](#), [DOI: 10.1016/j.cell.2020.04.021](#).
16. Escamilla-Rivera V, Liu J, Gibb DR, Santhanakrishnan M, Liu D, Forsmo JE, Eisenbarth S, **Foxman EF**, Stowell SR, Luckey CJ, Zimring JC, Hudson KE, Hendrickson J. Poly(I:C) causes failure of immunoprophylaxis to red blood cells expressing the KEL glycoprotein in mice. *Blood* 2020, 135: 1983-1993. [PMID: 32266378](#), [PMCID: PMC7256361](#), [DOI: 10.1182/blood.2020005018](#).

17. Wasik B, Wasik B, **Foxman E**, Iwasaki A, Turner P. Experimental Evolution of Human Rhinovirus Strains Adapting to Mouse Cells. 2020, 145-157. [DOI: 10.1007/978-3-030-39831-6_12](#).
18. Vogels CBF, Brito AF, Wyllie AL, Fauver JR, Ott IM, Kalinich CC, Petrone ME, Casanovas-Massana A, Catherine Muenker M, Moore AJ, Klein J, Lu P, Lu-Culligan A, Jiang X, Kim DJ, Kudo E, Mao T, Moriyama M, Oh JE, Park A, Silva J, Song E, Takahashi T, Taura M, Tokuyama M, Venkataraman A, Weizman OE, Wong P, Yang Y, Cheemarla NR, White EB, Lapidus S, Earnest R, Geng B, Vijayakumar P, Odio C, Fournier J, Bermejo S, Farhadian S, Dela Cruz CS, Iwasaki A, Ko AI, Landry ML, **Foxman EF**, Grubaugh ND. Analytical sensitivity and efficiency comparisons of SARS-CoV-2 RT-qPCR primer-probe sets. *Nature Microbiology* 2020, 5: 1299-1305. [PMID: 32651556](#), [PMCID: PMC9241364](#), [DOI: 10.1038/s41564-020-0761-6](#).
19. Wu A, Mihaylova VT, Landry ML, **Foxman EF**. Interference between rhinovirus and influenza A virus: a clinical data analysis and experimental infection study. *The Lancet Microbe* 2020, 1: e254-e262. [PMID: 33103132](#), [PMCID: PMC7580833](#), [DOI: 10.1016/s2666-5247\(20\)30114-2](#).
20. Wu A, Mihaylova VT, Landry ML, **Foxman EF**. Viral interference cannot be concluded from datasets containing only symptomatic patients – Authors' reply. *The Lancet Microbe* 2021, 2: e10. [PMID: 35544223](#), [DOI: 10.1016/s2666-5247\(20\)30218-4](#).
21. Ravindra NG, Alfajaro MM, Gasque V, Huston NC, Wan H, Szigeti-Buck K, Yasumoto Y, Greaney AM, Habet V, Chow RD, Chen JS, Wei J, Filler RB, Wang B, Wang G, Niklason LE, Montgomery RR, Eisenbarth SC, Chen S, Williams A, Iwasaki A, Horvath TL, **Foxman EF**, Pierce RW, Pyle AM, van Dijk D, Wilen CB. Single-cell longitudinal analysis of SARS-CoV-2 infection in human airway epithelium identifies target cells, alterations in gene expression, and cell state changes. *PLOS Biology* 2021, 19: e3001143. [PMID: 33730024](#), [PMCID: PMC8007021](#), [DOI: 10.1371/journal.pbio.3001143](#).
22. Cheemarla NR, Watkins TA, Mihaylova VT, Wang B, Zhao D, Wang G, Landry ML, **Foxman EF**. Dynamic innate immune response determines susceptibility to SARS-CoV-2 infection and early replication kinetics. *Journal Of Experimental Medicine* 2021, 218: e20210583. [PMID: 34128960](#), [PMCID: PMC8210587](#), [DOI: 10.1084/jem.20210583](#).
23. Escamilla-Rivera V, Santhanakrishnan M, Liu J, Gibb DR, Forsmo JE, **Foxman EF**, Eisenbarth SC, Luckey CJ, Zimring JC, Hudson KE, Stowell SR, Hendrickson JE. Complement Plays a Critical Role in Inflammation-Induced Immunoprophylaxis Failure in Mice. *Frontiers In Immunology* 2021, 12: 704072. [PMID: 34249009](#), [PMCID: PMC8270673](#), [DOI: 10.3389/fimmu.2021.704072](#).
24. *The Lancet Microbe* 4(1), E380E46, Jan 2023
25. Cheemarla N, Hanron A, Fauver J, Bishai J, Watkins T, Brito A, Zhao D, Alpert T, Vogels C, Ko A, Schulz W, Landry M, Grubaugh N, van Dijk D, **Foxman E**. Nasal host response-based screening for undiagnosed respiratory viruses: a pathogen surveillance and detection study. *The Lancet Microbe* 2023, 4: e38-e46. [PMID: 36586415](#), [PMCID: PMC9835789](#), [DOI: 10.1016/s2666-5247\(22\)00296-8](#).
26. Xu D, Jiang W, Wu L, Gaudet R, Park E, Su M, Cheppali S, Cheemarla N, Kumar P, Uchil P, Grover J, **Foxman E**, Brown C, Stansfeld P, Bewersdorf J, Mothes W, Karatekin E, Wilen C, MacMicking J. PLSCR1 is a cell-autonomous defence factor against SARS-CoV-2 infection. *Nature* 2023, 619: 819-827. [PMID: 37438530](#), [PMCID: PMC10371867](#), [DOI: 10.1038/s41586-023-06322-y](#).
27. Cheemarla N, Watkins T, Mihaylova V, **Foxman E**. Viral Interference During Influenza A–SARS-CoV-2 Coinfection of the Human Airway Epithelium and Reversal by Oseltamivir. *The Journal Of Infectious Diseases* 2023, jiad402. [PMID: 37722683](#), [DOI: 10.1093/infdis/jiad402](#).
28. Dong M, Wang B, Wei J, de O. Fonseca A, Perry C, Frey A, Ouerghi F, **Foxman E**, Ishizuka J, Dhodapkar R, van Dijk D. Causal identification of single-cell experimental perturbation effects with

CINEMA-OT. Nature Methods 2023, 20: 1769-1779. [PMID: 37919419](#), [PMCID: PMC10630139](#), [DOI: 10.1038/s41592-023-02040-5](#).

29. **Foxman E.** Double-take: SARS-CoV-2 has evolved to evade human innate immunity, twice. Trends In Immunology 2023, 45: 1-3. [PMID: 38143224](#), [DOI: 10.1016/j.it.2023.12.001](#).