
University of Texas Southwestern Medical Center
Department of Microbiology
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CURRENT POSITION

Professor 9/2017-
University of Texas Southwestern Medical Center, Department of Microbiology, Dallas, Texas

Associate Professor 9/2012-8/2017
University of Texas Southwestern Medical Center, Department of Microbiology, Dallas, Texas

Assistant Professor 2/2006-8/2012
University of Texas Southwestern Medical Center, Department of Microbiology, Dallas, Texas2

EDUCATION and TRAINING

Post-Doctoral Research Fellow 9/2001-12/2005
PI: Professor Karla Kirkegaard, Ph.D.
Stanford University, Department of Microbiology, Stanford, California

Graduate Research Assistant 9/1996-8/2001
Ph.D., 6/14/2001, Microbiology and Immunology, University of Michigan, Ann Arbor, Michigan
PI: Associate Professor Alice Telesnitsky, Ph.D.
Thesis: *Factors that affect template switching during M-MuLV reverse transcription*

Undergraduate Studies 9/1992-5/1996
B.A., Microbiology, *cum laude*, Miami University, Oxford, Ohio

RESEARCH SUPPORT

Ongoing Research Support

Burroughs Wellcome- Investigators in the Pathogenesis of Infectious Diseases 7/2012-6/2021
Title: How gut microbes enhance enteric virus infectivity
Role: PI

NIH R01, NIAID R01AI074668 2/2008-2/2023
Title: Enteric virus-microbiota interactions
Role: PI

Howard Hughes Medical Institute 55108554 11/2016-10/2021
Faculty Scholars Program
Title: Enteric virus-microbiota interactions
Role: PI

NIH T32, NIAID 5T32 AI007520-21 9/1/2019-8/31/2024

Molecular Microbiology Training Grant

This training grant supports a multi-disciplinary Molecular Microbiology Training Program. The program supports 5 pre-doctoral and 2 post-doctoral trainees annually.

Role: PI/Director

Pew Innovation Fund

11/1/2019-10/31/2021

Title: Identification and characterization of innate immune factors in choanoflagellates

Role: PI (co-PI Nicole King, UC Berkeley/HHMI)

Pending support

NIH R01, NIAID (*submitting for 6/5/2020 deadline*)

4/1/2021-3/31/2026

Title: Circadian control of enteric virus infection

Role: PI

Completed support

NIH R21, NIAID AI114927

4/2015-3/2018

Title: Viral co-infection induced by bacteria

Role: PI

American Cancer Society, Research Scholar Grant

1/2011-12/2015

Title: Ribavirin uptake as a determinant of hepatitis C virus treatment response

Role: PI

World Health Organization- Global Poliovirus Eradication Initiative

3/2012-2/2014

Title: Using polysaccharides to enhance poliovirus vaccine efficacy

Role: PI

Pew Scholars Program

8/2007-7/2011

Title: The influence of host barriers on viral quasispecies diversity and pathogenesis

Role: PI

NIH/NCRR 5 UL1 RR024982-02 Packer (PI)

5/2008-4/2009

Title: Ribavirin uptake as a determinant of HCV treatment response

Role: Pilot Award Recipient PI

President's Research Council, UT Southwestern

5/2007-12/2009

Distinguished Young Researcher Award

Harold C. Simmons Comprehensive Cancer Center, American Cancer Society

9/2006-8/2007

New Investigator Award, Institutional Research Grant

Title: Mechanisms and consequences of genetic change in hepatitis C virus

Lizanell and Colbert Coldwell Foundation

11/2006-10/2007

Title: Combating Hepatitis C Treatment Failure

Role: PI

Previous Funding

Damon Runyon Postdoctoral Fellowship, Rebecca Ridley Kry Fellow

10/2002-9/2005

NIH Host-Pathogen Interactions Training Grant Postdoctoral Fellow

2/2002-9/2002

Rackham Graduate School Predoctoral Fellow	9/2000-8/2001
Cancer Biology Training Program/Nancy Newton Loeb Predoctoral Fellow	9/1999-8/2000
NIH Genetics Training Grant Predoctoral Fellow	9/1996-8/1998
Miami University Undergraduate Research Grant	9/1995-5/1996

HONORS and AWARDS

Allan Granoff Lectureship, St. Jude's Children's Research Hospital, 2020 (postponed-COVID19)
 Sidney E. Grossberg Lectureship, Medical College of Wisconsin, 2020 (postponed-COVID19)
 Bernard Fields Keynote Lecturer, FASEB Microbial Pathogenesis Conference, 2019
 O'Donnell Award in Science; TAMEST (\$25,000 cash prize), 2019
 George Khoury Lecturer, NIH Director's Wednesday Afternoon Lecture Series, 2019
 Kern and Marnie Wildenthal President's Research Council Professorship in Medical Science, 2018-2023
 Elected to the American Academy of Microbiology, 2018
 HHMI Faculty Scholar, 2016-2021
 Chair, Viruses and Cells Gordon Research Conference 2019
 Vice Chair, Viruses and Cells Gordon Research Conference 2017
 Burroughs Wellcome Fund, Investigators in the Pathogenesis of Infectious Diseases, 2012-2017
 Kavli Fellow, 2010
 NIH Ruth L. Kirschstein Lecturer, 2010
 Pew Scholar, 2007-2011
 Distinguished Young Researcher Award, President's Research Council, UT Southwestern, 2007
 Damon Runyon Cancer Research Foundation Fellow, Rebecca Ridley Kry Fellow, 2002-2005
 MacNeal Distinguished Thesis Award, Microbiology and Immunology, University of Michigan, 2001
 Departmental Honors in Microbiology, Miami University, 1996

SERVICE AND SOCIETY MEMBERSHIPS

Co-Organizer, EMBL Conference: Innate Immunity in Host-Pathogen Interactions, 2020 (postponed-COVID19)
 Advisory Editorial Board, *Cell Host & Microbe*, 2020-present
 Chair, Viruses and Cells Gordon Research Conference 2019
 Board of Reviewing Editors, *Science*, 2018-2021
 Section Editor, *PLoS Pathogens*, 2018
 Vice Chair, Viruses and Cells Gordon Research Conference 2017
 Co-Organizer, ASM/ASV Conference on Interplay of Viral and Bacterial Pathogens (2017)
 Editor, *Journal of Virology*, 2016-2021
 Session Moderator: Virus-Host Interactions, Positive Strand RNA Viruses III, ASV Conference, 2016
 NIH Virology B Study Section, Member, 2015-2021
 American Cancer Society, Ad Hoc Grant Reviewer, 2014, 2015
 Founding Member, "Scientists for Science", 2014
 Session Moderator: "Viral Pathogenesis", IUMS Conference, 2014
 Session Moderator: "Picornaviruses I: Biology", ASV Conference, 2014
 Session Moderator: "It takes a villus: Mechanisms of enteric pathogens", ASM Conference, 2014
 Session Moderator: "Mechanisms of Cell Entry", Keystone Conference, 2014
 Associate Editor (Gems Articles), *Journal of Virology* (2013-2016)
 Editorial Advisory Board, *Microbe* (2013-present)
 Guest Editor, *MBio*, 2013
 Founding Editorial Committee Member, *Annual Review of Virology* (2012-present).
 Editorial Board, *Journal of Virology* (2010-present)
 Reviewer: *Nature*, *Science*, *PLoS Pathogens*, *Cell Host and Microbe*, *Nature Communications*, *Journal of Virology*, *Antiviral Research*, *Molecular Biology and Evolution*, *RNA*, *Gastroenterology*, *Journal of Visualized Experiments*, *Virology*, *Hepatology*, *MBio*

Session Moderator, Viruses and Cells Gordon Conference, 2011, 2015
 NIH VIRB Study Section; Ad Hoc Reviewer, 2011, 2014
 NIH CFS-M Study Section; Temporary Member, 2009
 Member: American Society for Virology, American Society for Microbiology, 2007-present
 Session Moderator: "Antivirals and Therapeutic Interventions", American Society for Virology Conference, 2009
 Co-organizer, Pew Scholars Conference, 2009
 Session Moderator: "Microbiology", Pew Scholars Conference, 2009

TEACHING

1. Instructor, Medical Microbiology (UT Southwestern Medical Students)

MS2 Fundamentals; Medical Microbiology

Introduction to Viruses	2007-2015
RNA Viruses I	2007-2015
RNA Viruses II	2007-2015

Organisms and the Host Course (Revised Curriculum)

Introduction to Virology	2015-2019
Viral Pathogenesis and RNA Viruses	2015-2019

Laboratory Courses

Bacterial Morphology, Staining, and Plating	2009, 2010, 2012
The Respiratory System	2011
Gastrointestinal Pathogens	2013, 2014

Medical Microbiology Core Principle Conference

CNS Infections	2011
Gastrointestinal Infections	2014
Outbreak Conference	

2. Instructor, Immunology of Infectious Diseases (UT Southwestern Graduate Students)

HCV pathogenesis: lecture	2008
HCV pathogenesis: journal club	2008

3. Instructor, Molecular Microbiology: Virology (UT Southwestern Graduate Students)

Viral entry	2006-2011
RNA virus replication	2006-2020
Viral genetics	2006-2020

4. Instructor, Principles of Microbiology (UT Southwestern Graduate Students)

Introduction to virology	2007-2013
Viral evolution and emergence	2007-2019
Recombinant DNA and Cloning	2009-2019
How to pass your qualifying exam	2012-2016
How to read papers and give presentations	2013-2019
How to write grants and papers	2013-2019

5. Course Director, Principles of Microbiology (UT Southwestern Graduate Students)	2007, 2011-2014
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6. Course Director, Microbiology Journal Club (UT Southwestern Graduate Students)	2013, 2017
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7. Workshop: How to find a postdoctoral fellowship (UT Southwestern Graduate Students)	2013-2014
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COMMUNITY SERVICE AND CAREER DEVELOPMENT

1. Mentor, to STARS (Science Teacher Access to Resources at UT Southwestern) program 6/2006-8/2006
summer research participant Katarina Solberg
Purpose: Mentor Ms. Solberg during summer research on the effect of ribavirin on poliovirus, to provide her exposure to bench science.
2. Panelist, UT Southwestern Postdoctoral Association Career Development Workshop 9/2006
Topic: How to plan for an academic job
3. Speaker, STARS (Science Teacher Access to Resources at UT Southwestern) Symposium 4/2007
Purpose: Give local high school science teachers an overview of academic science to take back to the classroom.
4. Panelist, UT Southwestern Postdoctoral Association Career Development Workshop 2/2008
Topic: The academic job search
5. Speaker, STARS (Science Teacher Access to Resources at UT Southwestern) Seminar Series 7/7/2010
Purpose: Give local high school science teachers an overview of academic science to take back to the classroom.
6. Speaker, Dallas Independent School District Science Fair 1/22/2011
Purpose: Give local high school science teachers an overview of academic science to take back to the classroom.
7. Speaker, STARS (Science Teacher Access to Resources at UT Southwestern) Seminar Series 6/22/2011
Purpose: Give local high school science teachers an overview of academic science to take back to the classroom.
8. Speaker, Uplift Education Science Fair 1/21/2012
Purpose: Expose science fair participants, parents, and teachers to basic science research
9. Tutorial, Molecular Microbiology Career Development Workshop 3/26/2014
Purpose: Provide tips for how to find a postdoctoral fellowship to microbiology graduate students
10. UTSW DBS Career Development Workshop 8/14/2014
Purpose: Provide tips for how to find a postdoctoral fellowship to graduate students
11. UTSW "Future Faculty Fridays" Workshop on Teaching and Course Design 2/6/2015
Purpose: Provide postdoctoral fellows with information about course design and teaching methods
12. STARS (Science Teacher Access to Resources at UT Southwestern) Lab Visit Host 7/23/2015
Purpose: Expose high school students and teachers to basic science research by hosting a one-hour lab tour/presentation.
13. UTSW SPEaC/PDA "Science After Dark" tutorial for postdoctoral fellows 6/16/2016
Purpose: Share tips on effective science communication to different audiences (field-specific, general scientific, and lay audience)
14. Science communication workshop for Molecular Microbiology Training Grant trainees 7/12/2016
Purpose: Share tips on effective science communication to different audiences (field-specific, general scientific, and lay audience); critique 1 minute and 5 minute talks from trainees

15. STARS (Science Teacher Access to Resources at UT Southwestern) Lab Visit Host 7/19/2016
Purpose: Expose high school students and teachers to basic science research by hosting a one-hour lab tour/presentation.
16. SACNAS workshop on "How to find a postdoctoral fellowship" 4/6/2017
Purpose: Provide tips for how to find a postdoctoral fellowship for students in our local SACNAS chapter.
17. UTSW "Future Faculty Fridays" Workshop on Teaching and Course Design 2/2/2018
Purpose: Provide postdoctoral fellows with information about course design and teaching methods
18. UTSW CoNNECT (Cultivating Narrative for Effective Communication) Program 6/5/2018
Purpose: Science communication workshop for UTSW trainees: "How to give a [scientific] talk to a diverse and broad audience."
19. STARS (Science Teacher Access to Resources at UT Southwestern) Seminar 7/3/2019
Purpose: Expose high school students and teachers to basic science research by giving a one-hour presentation.
20. SURF (Summer Undergraduate Research Fellowship, UTSW) Seminar 8/1/2019
Purpose: Present our work to summer undergraduates in our fellowship program.
21. Attended formal mentor training at HHMI (part of Hanna Gray Fellows program) 10/2/2019
Purpose: Learn effective mentoring strategies, with a focus on needs of URM trainees
22. Writing workshop for early career faculty in UTSW Microbiology and Immunology 11/15/2019
Purpose: Present a tutorial on grant and paper writing.

DISSERTATION STUDENTS

1. Kristie Ibarra, Molecular Microbiology Graduate Program, UT Southwestern 3/2006-4/2011
Thesis: Ribavirin uptake as a determinant of HCV treatment response
Current position: Research Scientist at 23andMe
2. Sharon Kuss, Molecular Microbiology Graduate Program, UT Southwestern 3/2007-10/2011
Thesis: Bottleneck-mediated quasispecies restriction during poliovirus spread
Current position: Research Scientist/Instructor at UC Denver
3. Karen Lancaster, Microbiology Graduate Program, UT Southwestern 3/2008-7/2012
Thesis: Mechanisms controlling virulence thresholds of mixed viral populations and identification of host barriers during viral trafficking in the CNS
Current position: Teacher at The Baldwin School
4. Lauren Grenzicki Luethy, Microbiology Graduate Program, UT Southwestern 3/2011-9/25/2015
Thesis: Neuronal dissemination patterns of three distinct viruses and mechanisms regulating viral retrograde axonal transport
Current position: AAAS Fellow, Pentagon
5. Yao Wang, Microbiology Graduate Program, UT Southwestern 1/2012-4/2017
Thesis: Unexpected factors that control coxsackievirus replication
Current position: PA School
6. Elizabeth Aguilera, Microbiology Graduate Program, UT Southwestern 10/2013-10/2018
Thesis: Enteric virus-microbiota interactions
Current position: Postdoctoral Fellow at UC Denver
7. Mikal Woods Acevedo, Microbiology Graduate Program, UT Southwestern 1/2017-present
Thesis: Effects of antibiotics on enteric virus infections
8. Matthew Lanahan, Microbiology Graduate Program, UT Southwestern 2/2017-present
Thesis: Genetics of bacteria-mediated viral co-infection

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| 9. Melissa Budicini, Microbiology Graduate Program, UT Southwestern
Thesis: Mechanisms of virion stabilization by bacterial glycans | 1/2019-present |
| 10. Robert Maples, Immunology Graduate Program, UT Southwestern
Thesis: Circadian control of viral infection | 2/2020-present |

POSTDOCTORAL FELLOWS

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| 1. Andrea Erickson, Ph.D.
Current position: Research Scientist | 9/2008-8/2014 |
| 2. Chris Robinson, Ph.D.
Current position: Assistant Professor of Microbiology and Immunology at the
Indiana University School of Medicine | 7/2011-6/2017 |
| 3. Broc McCune, Ph.D.
Current position: Postdoctoral Fellow with Mike Diamond at Washington University | 11/2016-12/2019 |
| 4. Arielle Woznica, Ph.D.
HHMI Hanna Gray Fellow | 8/2017-present |
| 5. Katherine Mann, Ph.D.
Current position: Fellow at the Food and Drug Administration | 8/2017-5/2018 |
| 6. Hua Lu, Ph.D.
Current position: Research Scientist in industry (China) | 9/2018-4/2020 |

OTHER STUDENTS

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| 1. Katarina Solberg, STARS Program, summer research | 6/2006-8/2006 |
| 2. Corinne Bruce, Rotation | 8/2006-10/2006 |
| 3. Matt Jamison, Rotation | 10/2007-12/2007 |
| 4. Bruce Doxey, Medical Student Summer Research | 6/2008-8/2008 |
| 5. TJ Calder, Rotation | 8/2009-10/2009 |
| 6. Sarah Gonzales, Rotation | 10/2009-12/2009 |
| 7. Qiongqiong (Christina) Yang, Summer Undergraduate Research Fellow | 6/2010-8/2010 |
| 8. Steven Gore, Rotation | 8/2010-10/2010 |
| 9. Paul Luethy, Rotation | 10/2010-12/2010 |
| 10. Cara Spanel-Weber, Rotation | 10/2011-12/2011 |
| 11. Pamela de la Cruz Rivera, MSTP rotation | 7/2012-8/2012 |
| 12. Jorge Mantilla-Aguas, Rotation | 9/2013-10/2013 |
| 13. Minghao Li, Rotation | 9/2015-10/2015 |
| 14. Ricardo Irizarry-Caro, Rotation | 10/2015-12/2015 |
| 15. Garrett Overcast, Rotation | 9/2016-10/2016 |
| 16. Robert Africa, Summer Undergraduate Research Fellow | 6/2018-8/2018 |
| 17. Sam Erickson, Summer Medical Student Fellow | 6/2019-8/2019 |

THESIS COMMITTEES

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|---------------------------------|-----------------|
| 1. Brian Keller (M. Gale) | 8/2006-5/2007 |
| 2. Andrea Erickson (M. Gale) | 2/2006-8/2008 |
| 3. Amanda Leone (D. Sodora) | 8/2006-10/2009 |
| 4. Hilario Ramos (D. Farrar) | 9/2006-4/2009 |
| 5. Chris Ayers (N. Karandikar) | 10/2006-11/2008 |
| 6. David Owen (M. Gale) | 2/2007-6/2009 |
| 7. Kiran Mir (D. Sodora) | 7/2007-11/2010 |
| 8. Hua Huang (M. Brown) | 11/2007-12/2008 |
| 9. Kristie Ibarra (J. Pfeiffer) | 1/2008-12/2010 |

10. Sharon Kuss (J. Pfeiffer)	7/2008-6/2011
11. Karen Lancaster (J. Pfeiffer)	7/2009-10/2011
12. Bray Denard (J. Ye)	7/2009-4/2012
13. John Krisko (J.V. Garcia-Martinez)	8/2009-10/2009
14. Qiuyue Chen (J. Ye)	3/2010-7/2013
15. Angela Desmond (E. Vitetta)	7/2010-7/2013
16. Sarah Hulseley (N. Conrad)	10/2011-9/2013
17. Ellen Lee (J. Ye)	8/2012-9/2015
18. Leonardo Estrada (D. Farrar)	10/2012-5/2017
19. Lauren Luethy (J. Pfeiffer)	10/2013-9/2015
20. Yao Wang (J. Pfeiffer)	5/2014-5/2017
21. Blake Richardson (J. Schoggins)	8/2014-3/2019
22. Pamela de la Cruz Rivera (J. Schoggins)	1/2015-3/2018
23. Yajing Gao (C. Pasare)	1/2015-12/2019
24. Chukwuemika Aroh (N. Yan/E. Wakeland)	4/2015-4/2017
25. Elizabeth Aguilera (J. Pfeiffer)	9/2015-10/2018
26. Nick Rinkenberger (J. Schoggins)	9/2015-5/2019
27. Elizabeth Luper (S. Winter)	7/2016-present
28. Jiawei Zhao (R. Wang)	11/2017-4/2020
29. Kyle Goodman (D. Hendrixson)	11/2017-5/2020
30. Rachael Chanin (S. Winter)	9/2018-present
31. Mikal Woods Acevedo (J. Pfeiffer)	9/2018-present
32. Matt Lanahan (J. Pfeiffer)	9/2018-present
33. Dahee Seo (D. Gammon)	8/2019-present
34. Kennady Abbott (N. Yan)	3/2020-present

ADVISORY COMMITTEES

1. Rhea Sumpter, M.D. (laboratory of Dr. Beth Levine, ID Fellow)	2013-2017
2. Natasha Hanners, M.D. (laboratory of Dr. John Schoggins, Pediatric ID Fellow)	2014-present

QUALIFYING EXAM COMMITTEES

1. David Owen	2006
2. Amanda Leone	2006
3. Kiran Mir	Chair, 2007
4. Sarah Hulseley	Chair, 2010
5. Jamaal Benjamin	2011
6. Andra Robinson	2011
7. Ryan McNamara	Chair, 2012
8. Chelsea Stamm	Chair, 2013
9. Shreya Endapally	Chair, 2014
10. Nick Rinkenberger	2015
11. Nora-Guadalupe Ramirez	Chair, 2016
12. Rachael Chanin	2018
13. Dahee Seo	2019
14. Brittany Stewart	Chair, 2020

OTHER COMMITTEES

Provost's Initiative for Diverse Emerging Scholars (PROVIDES) Selection Committee	2/2020-present
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Chair, UTSW DBS First Year Graduate Student Advisory Committee	6/2017-present
Inaugural Faculty Member of UTSW Chapter of SACNAS	4/2015-present
UTSW Medical School Curriculum Scholarly Activity Initiative Committee	3/2015-3/2016
Co-Director, Molecular Microbiology Training Grant	9/2014-6/2018
UTSW High Impact/High Risk Grant Selection Committee	9/2013-present
UTSW Pew Nomination Selection Committee	8/2012-present
UTSW DBS First Year Graduate Student Advisory Committee	8/2009-present
UTSW Research Continuity Committee	2009
UTSW DBS Graduate Student Admissions Committee	11/2007-5/2014
UTSW DBS International Admissions Committee	11/2007-4/2008
Coordinator, Infectious Diseases Virology Seminar Series	2007-2009
Microbiology Faculty Search Committee, Virology	2006-2016
Chair of Microbiology Faculty Search Committee, Virology	2011-2016

INTERNAL PRESENTATIONS

1. Infectious Diseases Virology Seminar Series Mechanisms and consequences of viral variation in poliovirus and hepatitis C virus	4/2006
2. Viral Hepatitis Interest Group (VHIG) Mechanisms and consequences of viral variation in hepatitis C virus	4/2006
3. MSTP works in progress seminar Viral and host factors that influence RNA virus diversity	6/2006
4. New Faculty Research Forum RNA virus evolution and drug resistance	10/2006
5. DBS works in progress seminar Viral and host factors that influence poliovirus diversity	3/2007
6. STARS Program: Viruses Viral and host factors that influence poliovirus diversity	4/2007
7. Infectious Diseases Virology Seminar Series Ribavirin uptake as a determinant of HCV treatment response	4/2007
8. RNA club RNA virus diversity and limitations on quasispecies spread	9/9/2008
9. MSTP works in progress seminar Identification of host barriers that limit poliovirus spread	11/18/2008
10. Infectious Diseases Virology Seminar Series Multiple host barriers limit poliovirus trafficking in mice	2/11/2009
11. RNA club Multiple host barriers restrict poliovirus trafficking in mice	3/9/2010
12. Neuroscience Seminar Series Neurovirology of poliovirus: An accidental tourist in the central nervous system	3/16/2010
13. Rheumatology Seminar Series Neurovirology of poliovirus: An accidental tourist in the central nervous system	5/3/2010

14. STARS (Science Teacher Access to Resources at UT Southwestern) Seminar Series A party in your gut: Bacteria, viruses, and you	7/7/2010
15. Cell Biology Seminar Series Complex interactions in the gut: enteric viruses, bacteria, mucosa, and immunity	6/7/2011
16. Pediatric Infectious Diseases Seminar Series Complex interactions in the gut: enteric viruses, bacteria, mucosa, and immunity	6/8/2011
17. STARS (Science Teacher Access to Resources at UT Southwestern) Seminar Series A party in your gut: Bacteria, viruses, and you	6/22/2011
18. STARS (Science Teacher Access to Resources at UT Southwestern) Seminar Series A party in your gut: Bacteria, viruses, and you	6/27/2012
19. MSTP Works in Progress Seminar How gut microbes enhance enteric virus infectivity	7/9/2013
20. Pharmacology Seminar How gut bacteria enhance enteric virus infectivity	1/9/2014
21. President's Research Council Enteric viruses: More than indigestion	1/14/2014
22. Immunology Seminar Series How gut bacteria enhance enteric virus infectivity	11/12/2014
23. Microbiology Seminar Series How gut bacteria enhance enteric virus infectivity	1/20/2015
24. Pediatric Infectious Disease Fellows Seminar How gut bacteria enhance enteric virus infectivity	2/5/2015
25. MSTP Works in Progress Seminar How gut bacteria enhance enteric virus infection	5/23/2017
26. Infectious Diseases Seminar Series How gut bacteria enhance enteric virus infection	4/10/2019
27. UTSW STARS Seminar Series How gut bacteria enhance enteric virus infection	7/3/2019
28. UTSW SURF Seminar Series How gut bacteria enhance enteric virus infection	8/1/2019
29. MSTP Works in Progress Seminar How gut bacteria enhance enteric virus infection	11/19/2019
30. University Lecture Series Getting by with a little help from their friends: How bacteria enhance viral infection	1/15/2020
31. President's Lecture Series (postponed-COVID19, 4/30/2020)	

PRESENTATIONS

1. **Cold Spring Harbor Retroviruses Meeting, Poster.** 1999. CSH, NY.
2. **Cold Spring Harbor Retroviruses Meeting, Short Talk.** 2000. CSH, NY.
3. **Cold Spring Harbor Retroviruses Meeting, Poster.** 2001 CSH, NY.
4. **Gordon Research Conference on Viruses and Cells, Poster.** 2001. Tilton School, NH.
5. **Europic Conference, Poster.** 2002 Cape Cod, MA.
6. **Gordon Research Conference on Viruses and Cells, Poster.** 2003. Tuscany, Italy.
7. **University of Michigan MacNeal Thesis Award Presentation, Microbiology.** 2003. Ann Arbor, MI.
8. **HCV conference.** 2003. Short talk. Kyoto Japan.
9. **Positive Strand RNA Virus Meeting.** 2004. Short talk. San Francisco, CA.
10. **HCV conference.** 2004. Short talk. Heidelberg, Germany.
11. **Virus Evolution Workshop.** 2006. Samuel Roberts Noble Foundation, Ardmore, OK.
12. **American Association for the Study of Liver Diseases.** 2007. Chicago, IL.
13. **American Society for Virology.** 6/2007. Workshop talk. Corvallis, OR.
14. **Indiana University.** 2/2008. Microbiology Seminar Series.
15. **Pew Scholars Conference.** 3/2008. Aruba.
16. **Virus Evolution Workshop.** 2008. Samuel Roberts Noble Foundation, Ardmore, OK.
17. **Pew Scholars Conference, Poster.** 3/2009. Puerto Rico.
18. **Gordon Conference on Viruses and Cells.** 5/2009. Tuscany, Italy.
19. **American Society for Virology.** 6/2009. Workshop Talk. Vancouver, BC, Canada.
20. **University of Pennsylvania.** 11/2009. Department of Microbiology.
21. **Baylor College of Medicine.** 11/2009. Department of Molecular Virology and Microbiology.
22. **Keystone Conference: Cell biology of virus entry, replication, and pathogenesis.** 2/2010. Taos, MN.
23. **Pew Scholars Conference, Poster.** 3/2010. Costa Rica.
24. **NIH.** 5/17/2010. A Tribute to Dr. Ruth L. Kirschstein: Inspiring the Best in Others. Bethesda, MD.
25. **International Symposium on Positive-Strand RNA Viruses.** 5/2010. Atlanta, GA.
26. **American Society for Virology Conference.** 7/2010. Bozeman, MT.
27. **University of California- Berkeley.** 9/2010. Molecular and Cell Biology, Plant and Microbial Biology.
28. **Fox Chase Cancer Center.** 10/2010. Philadelphia, PA.
29. **ASM Conference on Beneficial Microbes.** 10/2010. Miami, FL.
30. **Kavli Frontiers of Science, Poster.** 11/2010. Irvine, CA.
31. **Vanderbilt University.** 11/2010. Department of Pediatric Infectious Diseases.
32. **Northwestern University.** 12/2010. Department of Microbiology and Immunology.
33. **Washington University.** 1/2011. Molecular Microbiology and Microbial Pathogenesis Seminar Series.
34. **University of California-Irvine.** 3/2011. Center for Virus Research Seminar Series.
35. **Pew Scholars Conference.** 3/2011. Cozumel, Mexico.
36. **NIAID Fellows Retreat.** 3/2011. Washington, D.C.
37. **Rockefeller University.** 5/2011. Center for the Study of Hepatitis C Virus.
38. **HCV Conference.** 9/2011. Seattle, WA.
39. **Pasteur Institute.** 10/2011. Paris, France.
40. **Tufts University.** 11/2011. Joint Seminar Series: Genetics, Immunology, and Molecular Microbiology.
41. **University of Maryland.** 12/2011. Institute for Genome Sciences.
42. **University of Illinois.** 12/2011. Department of Microbiology.
43. **University of Texas Medical Branch.** 1/2012. Infectious Diseases & Immunity Colloquium Series.
44. **University of Texas at Austin.** 3/2012. Cell and Molecular Biology Seminar Series.
45. **St. Louis University.** 5/2012. Molecular Microbiology and Immunology.
46. **European Academy of Microbiology.** 6/2012. Conf. on Microbial Coinfections. Halle, Germany.
47. **Swedish Society for Virology.** 8/2012. Smogen, Sweden.
48. **University of Michigan.** 10/2012. Rackham Centennial- Heritage Lecture.
49. **Naito Conference: Infection, immunity and their control for health.** 10/2012. Sapporo, Japan.
50. **Mt. Sinai School of Medicine.** 11/2012. Department of Microbiology Seminar Series.
51. **University of Florida.** 1/28/2013. Department of Molecular Genetics and Microbiology.
52. **Harvard University.** 2/14/2013. Virology Program.
53. **INSERM.** 2/23/2013. MD/Ph.D. program retreat invited speaker. Paris, France.

54. **University of North Carolina at Chapel Hill.** 3/5/2013. Department of Microbiology and Immunology.
55. **Viral Evolution Conference.** 3/8/2013. State College, PA.
56. **University of Chicago.** 3/17/2013. Department of Microbiology.
57. **Gordon Conference on Viruses and Cells.** 5/8/2013. Tuscany, Italy.
58. **University of California at Davis.** 5/24/2013. Medical Microbiology and Immunology.
59. **Li Ka Shing Institute of Virology Symposium.** 5/31/2013. Edmonton, Canada
60. **New York University.** 6/20/2013. Department of Microbiology.
61. **Burroughs Wellcome Fund Summer Awardee Meeting.** 8/7/2013. Calgary, Canada.
62. **European Congress of Virology.** 9/13/2013. Lyon, France.
63. **Albert Einstein College of Medicine.** 9/25/2013. Department of Cell Biology.
64. **University of Toledo.** 10/9/2013. Department of Medical Microbiology and Immunology.
65. **Scripps Research Institute.** 11/22/2013. Pathogenesis Affinity Group.
66. **University of Arkansas for Medical Sciences.** 3/6/2014. Department of Microbiology & Immunology.
67. **Keystone Conference: The Ins and Outs of Viral Infection.** 4/3/2014. Breckenridge, CO.
68. **Titisee Conference: Microbiome-host mutualism.** 4/12/2014. Titisee, Germany.
69. **Brown University.** 5/1/2014. Pathobiology Graduate Students.
70. **American Society for Microbiology Conference.** 5/19/2014. Boston, MA.
71. **McGill University.** 5/28/2014. Complex Traits Group.
72. **American Society for Virology Conference.** 6/23/14. Workshop Session. Ft. Collins, CO.
73. **International Union of Microbiological Societies Conference.** 7/31/2014. Montreal, Canada.
74. **Montana State University.** 9/16/2014. Immunology and Infectious Diseases.
75. **NIH.** 9/23/14. Translational and Regulatory Science of Polio Vaccines and Antivirals. Bethesda, MD.
76. **University of Tokyo.** 10/21/14. Ito Symposium on Mucosal Immunity and Vaccine Development.
77. **Emory University.** 12/8/2014. Microbiology and Immunology.
78. **Vanderbilt University.** 2/27/2015. Pediatric Infectious Diseases.
79. **Duke University.** 4/9/2015. Duke Minisymposium on Pathogenic Human Viruses.
80. **University of Arizona.** 4/24/2015. Department of Immunobiology.
81. **Wake Forest University.** 5/28/2015. Department of Microbiology and Immunology.
82. **University of Minnesota.** 6/10/2015. Institute for Molecular Virology Graduate Students.
83. **FASEB Conference on Molecular Pathogenesis.** 6/14/2015. Keystone, CO.
84. **NIAID workshop: The Role of the Microbiota in Infectious Diseases.** 9/1/2015. Rockville, MD.
85. **University of Wisconsin-Madison.** 9/25/15. Department of Medical Microbiology & Immunology.
86. **Pew Scholars Reunion.** 10/4/2015. Grand Cayman.
87. **Oregon State University.** 1/6/2016. Center for Genome Research & Biocomputing,
88. **Viruses: At the forefront of virus-host interactions.** 1/26/2016. Basel, Switzerland.
89. **Yale University.** 3/3/2016. Microbiology Graduate Program Seminar Series.
90. **University of Southern California.** 3/18/2016. Molecular Microbiology and Immunology Seminar.
91. **University of Pittsburgh.** 4/15/2016. Molecular Virology & Microbiology Program Retreat.
92. **Keystone Conference on Positive Strand RNA Viruses.** 5/2/2016. Austin, TX.
93. **Penn State University: Living with our Viromes, Keynote talk.** 5/24/2016. State College, PA.
94. **American Society for Virology Plenary Talk.** 6/19/2016. Blacksburg, VA.
95. **University of California-San Francisco/Gladstone Inst.** 6/30/2016. Student/Postdoc-invited speaker.
96. **University of Heidelberg/DKFZ.** 7/5/2016. Heidelberg, Germany.
97. **University of California- Berkeley.** 9/21/2016. MCB seminar series. Berkeley, CA.
98. **Louisiana State University Health.** 9/28/2016. Microbiology and Immunology. Shreveport, LA.
99. **Texas Women's University.** 12/2/2016. Biology Department. Denton, TX.
100. **LS2 Swiss Life Sciences Meeting.** 2/2/2017. Zurich, Switzerland.
101. **Washington University.** 3/7/2017. Microbiology Seminar. St. Louis, MO.
102. **University of California- San Diego.** 3/13/2017. Immunology Seminar. La Jolla, CA.
103. **Genentech.** 4/17/2017. Department of Infectious Diseases Seminar. South San Francisco, CA.
104. **University of California-San Francisco.** 3/18/2017. Microbial Pathog. Seminar. San Francisco, CA.
105. **ASM/ASV Conference on Interplay of Viral and Bacterial Pathogens.** 5/3/2017. Bethesda, MD.
106. **University of Washington/Fred Hutchinson CRC.** 6/19/17. Viral Pathogenesis Retreat. Seattle, WA.
107. **University of Pennsylvania.** 9/20/17. Microbiology Seminar. Philadelphia, PA.
108. **University of California- Irvine.** 10/11/17. Microbiology and Molecular Genetics Seminar. Irvine, CA.

109. **Stanford University.** 10/27/17. Keynote, Microbiology and Immunology Retreat. Santa Cruz, CA.
110. **Western University.** 11/9/17. Microbiology and Immunology Seminar. London, Ontario, Canada.
111. **Australasian Virology Society Meeting.** 12/7/17. Keynote speaker. Glenelg, South Australia.
112. **Mt. Sinai/NYU Symposium on Virus-Host Interactions.** 2/8/18. Keynote speaker. New York, NY.
113. **Princeton University.** 3/28/18. Molecular Biology Seminar. Princeton, NJ.
114. **Johns Hopkins University.** 4/5/18. Molecular Microbiology and Immunology Seminar. Baltimore, MD.
115. **New York University.** 4/16/18. College of Global Public Health Seminar. New York, NY.
116. **Symposium on Glycovirolgy.** 5/4/18. Plenary Speaker. Schontal, Germany.
117. **Herrenhausen Symposium on the Microbiome, Nature Medicine.** 5/7/18. Hannover, Germany.
118. **NIH.** 5/17/18. Cell Biology and Physiology Center Seminar Series. Bethesda, MD.
119. **Int Soc of Developmental and Comparative Immunology.** 6/19/18. Keynote speaker. Santa Fe, NM.
120. **EMBO/EMBL Symposium on Innate Immunity.** 6/26/18. Invited speaker. Heidelberg, Germany.
121. **ASV Satellite Symposium on Virus-Microbiota Interactions.** 7/14/18. College Park, MD.
122. **MBL Symposium, Maynard and Suzanne Goldman Endowed Lecturer.** 8/4/18. Woods Hole, MA.
123. **International dsRNA Virus Symposium Keynote Speaker.** 9/24/18. Houffalize, Belgium.
124. **Ohio State Infectious Diseases Institute.** 10/2/18. Keynote speaker. Columbus, OH.
125. **University of Illinois- Chicago.** 3/11/19. Dept. of Microbiology. Chicago, IL.
126. **Loyola University.** 4/18/19. Microbiology and Immunology. Chicago, IL.
127. **Cornell University.** 4/30/19. Biomedical & Biological Sciences Signature Seminars. Ithaca, NY.
128. **NIH.** 5/8/19. WALs, George Khoury Memorial Lecture. Bethesda, MD.
129. **Keystone Positive Strand RNA Virus Conference.** 6/10/19. Killarney, Ireland.
130. **FASEB Conference on Microbial Pathogenesis.** Bernard Fields Lecturer. 7/21/19. Snowmass, CO.
131. **University of Michigan.** 9/12/19. Virology Symposium. Ann Arbor, MI.
132. **University of North Carolina- Chapel Hill.** 10/29/19. Microbiology & Immunology. Chapel Hill, NC.
133. **Columbia University.** 12/11/19. Microbiology & Immunology. New York, NY.
134. **UCLA.** 1/23/20. Molecular Biology Institute (MBI) Interdepartmental Seminar Series. Los Angeles, CA.
135. **U Maryland School of Medicine.** 3/18/20. Microbiology & Immunology. Baltimore, MD. (postponed)
136. **Michigan State University.** 3/25/20. Microbiology. East Lansing, MI. (postponed)
137. **University of Washington.** 4/7/20. Microbiology Postdocs. Seattle, WA. (postponed)
138. **St. Jude's Children's Research Hosp.** 4/17/20. Allan Granoff Lectureship. Memphis, TN. (postponed)
139. **Medical Col of Wisconsin.** 5/15/20. Sidney E. Grossberg Lectureship. Milwaukee, WI. (postponed)

PUBLICATIONS

1. **Pfeiffer, J.K.**, Topping, R.S., Shin, N.-H., and A. Telesnitsky. 1999. Altering the intracellular environment increases the frequency of tandem repeat deletion during Moloney murine leukemia virus reverse transcription. **J. Virol.** 73:8441-8447.
2. Shin, N.-H., Hartigan-O'Connor, D., **Pfeiffer, J.K.**, and A. Telesnitsky. 1999. Replication of lengthened Moloney murine leukemia virus genomes is impaired at multiple stages. **J. Virol.** 74:2694-2702
3. **Pfeiffer, J.K.**, M. M. Georgiadis, and A. Telesnitsky. 2000. Structure-based Moloney murine leukemia virus reverse transcriptase mutants with altered intracellular direct repeat deletion frequencies. **J. Virol.** 74:9629-9636.
4. **Pfeiffer, J.K.** and A. Telesnitsky. 2001. Effects of limiting homology at the site of intermolecular recombinogenic template switching during Moloney murine leukemia virus replication. **J. Virol.** 75:11263-11274.
5. Brincat, J.L., **Pfeiffer, J.K.**, and A. Telesnitsky. 2002. Ribonuclease H activity is required for high frequency repeat deletion during Moloney murine leukemia virus replication. **J. Virol.** 76: 88-95.

6. **Pfeiffer, J.K.** and K. Kirkegaard. 2003. A single mutation in poliovirus RNA-dependent RNA polymerase confers resistance to mutagenic nucleotide analogs via increased fidelity. **Proc. Natl. Acad. Sci. USA.** 100(12):7289-94.
7. **Pfeiffer, J.K.** and K. Kirkegaard. 2005. Ribavirin resistance in hepatitis C virus replicon-containing cell lines conferred by changes in the cell line or mutations in the replicon RNA. **J. Virol.** 79(4):2346-55.
8. **Pfeiffer J.K.**, and K. Kirkegaard. 2005. Increased Fidelity Reduces Poliovirus Fitness and Virulence under Selective Pressure in Mice. **PLoS Pathogens** 1(2): e11
9. **Pfeiffer, J.K.** and K. Kirkegaard. 2006. Bottleneck-mediated quasispecies restriction during spread of an RNA virus from inoculation site to brain. **Proc. Natl. Acad. Sci. USA.** 103(14):5520-25.
10. Kuss, S.K., Etheredge, C.A., and **Pfeiffer, J.K.** 2008. Multiple Host Barriers Restrict Poliovirus Trafficking in Mice. **PLoS Pathogens.** 4(6):e1000082.
11. Ibarra, K.D. and **Pfeiffer, J.K.** 2009. Reduced ribavirin antiviral efficacy via nucleoside transporter-mediated drug resistance. **J. Virol.** 83(9):4538-47.
12. Lancaster, K.Z. and **Pfeiffer, J.K.** 2010. Limited Trafficking of a Neurotropic Virus Through Inefficient Retrograde Axonal Transport and the Type I Interferon Response. **PLoS Pathogens.** 6(3):e1000791.
13. Feld JJ, Lutchman GA, Heller T, Hara K, **Pfeiffer JK**, Leff RD, Meek C, Rivera M, Ko M, Koh C, Rotman Y, Ghany MG, Haynes-Williams V, Neumann AU, Liang TJ, Hoofnagle JH. 2010. Ribavirin improves early responses to peginterferon through enhanced interferon signaling. **Gastroenterology.** 139(1):154-62.e4.
14. **Pfeiffer, J.K.** 2010. Innate host barriers to viral spread and quasispecies diversity: Lessons learned from poliovirus. **Advances in Virus Research.** 77:85-118. Review.
15. Ibarra, K.D., Jain, M.K., and **Pfeiffer, J.K.** 2011. Host-based ribavirin resistance influences hepatitis C virus treatment response. **J. Virol.** 85(14):7273-83.
16. **Pfeiffer JK** and Sonnenburg JL. 2011. The intestinal microbiota and viral susceptibility. **Frontiers in Microbiology.** 2:92. doi: 10.3389/fmicb.2011.00092. Perspective.
17. Lancaster, K.Z. and **Pfeiffer, J.K.** 2011. Mechanisms controlling virulence thresholds of mixed viral populations. **J. Virol.** 85(19):9778-88.
18. Kuss, S.K., Etheredge, C.A., Best, G.T., Pruijssers, A.J., Frierson, J.M., Hooper, L.V., Dermody, T.S., **Pfeiffer, J.K.** 2011. Intestinal microbiota promote enteric virus replication and systemic pathogenesis. **Science.** 334(6053):249-252.
19. Luethy, L.N., **Pfeiffer, J.K.** 2012. Viral infection brings mitochondrial traffic to a standstill. **Cell Host & Microbe.** 11(5):420-421. Preview.
20. Lancaster, K.Z., **Pfeiffer, J.K.** 2012. Viral Population Dynamics and Virulence Thresholds. **Current Opinion in Microbiology.** 15(4):525-30. Review.
21. Erickson, A.K., **Pfeiffer, J.K.** 2013. Dynamic viral dissemination in mice infected with yellow fever virus 17D. **J. Virol.** 87(22):12392-7.
22. Robinson, C.M., Jesudhasan, P.R., **Pfeiffer, J.K.** 2014. Bacterial lipopolysaccharide binding enhances virion stability and promotes environmental fitness of an enteric virus. **Cell Host & Microbe.** 15(1):36-46.

23. Robinson, C.M., **Pfeiffer, J.K.** 2014. Viruses and the microbiota. **Annual Review of Virology**. 1:55-69. Review.
24. Robinson, C.M., **Pfeiffer, J.K.** 2014. Leaping the norovirus hurdle. **Science**. 346(6210):700-1. Perspective article.
25. Wang, Y., **Pfeiffer, J.K.** 2014. Microbiology: A backup for bacteria. **Nature**. 516(7529): 42-3. News and Views article.
26. **Pfeiffer, J.K.** 2015. Is the Debate and “Pause” on Experiments That Alter Pathogens with Pandemic Potential Influencing Future Plans of Graduate Students and Postdoctoral Fellows? **mBio**. 6(1):e02525-14. Letter to the Editor.
27. Erickson, A.K., **Pfeiffer, J.K.** 2015. Spectrum of disease outcomes in mice infected with YFV-17D. **Journal of General Virology**. 96(Pt 6):1328-39.
28. Luethy, L.N., Erickson, A.K., Jesudhasan, P.R., Ikizler, M., Dermody, T.S., and **Pfeiffer, J.K.** 2015. Comparison of three neurotropic viruses reveals differences in viral dissemination to the central nervous system. **Virology**. 487:1-10.
29. Dermody, T.S. and **Pfeiffer, J.K.** 2015. Genetics in Virology Research. **Annual Review of Virology**. Volume 2. 16:33. Editorial.
30. **Pfeiffer, J.K.** and Virgin, H.W. 2016. Transkingdom control of viral infection and immunity in the mammalian intestine. **Science** 351, aad5872. Invited Review.
31. **Pfeiffer, J.K.** 2016. Host response: Microbiota prime antiviral response. **Nature Microbiology**. Volume 1. 15029. News and Views.
32. Wang, Y. and **Pfeiffer, J.K.** 2016. Emergence of a large-plaque variant in mice infected with coxsackievirus B3. **mBio**. 7(2): e00119-16.
33. Robinson, C.M., Wang, Y., and **Pfeiffer, J.K.** 2017. Sex-dependent intestinal replication of an enteric virus. **J. Virol.** 91(7): e02101-16.
34. Aguilera, E.R., Erickson, A.K., Jesudhasan, P.R., Robinson, C.M., **Pfeiffer, J.K.** 2017. Plaques formed by mutagenized viral populations have elevated co-infection frequencies. **mBio**. 8(2): e02020-16
35. **Pfeiffer, J.K.** 2017. The importance of model systems: Why we study a virus on the brink of global eradication. **PLoS Pathog**. 2017. 13(4):e1006330. Research Matters Article.
36. Erickson, A.K., Jesudhasan, P.R., Mayer, M.J., Narbad, A., Winter, S.E., **Pfeiffer, J.K.** 2018. Bacteria facilitate enteric virus co-infection of mammalian cells and promote genetic recombination. **Cell Host & Microbe**. 23(1): 77-88.
37. Nguyen, Y., Jesudhasan, P.R., Aguilera, E.R., and **Pfeiffer, J.K.** 2019. Characterization of a thermal stable poliovirus mutant reveals distinct mechanisms of virion stabilization. **Journal of Virology**. 93(6): e01510-18
38. Woods Acevedo, M.A., Erickson, Andrea K., and **Pfeiffer, J.K.** 2019. The Antibiotic Neomycin Enhances Coxsackievirus Plaque Formation. **mSphere**. 4(1): e00632-18.
39. Aguilera, E.R. and **Pfeiffer, J.K.** 2019. Strength in Numbers: Mechanisms of Viral Co-infection. **Virus Res.** 2019. 265:43-46. Invited Review.

40. Aguilera, E.R., Nguyen, Y., Sasaki, J. and **Pfeiffer, J.K.** 2019. Bacterial stabilization of a panel of picornaviruses. **mSphere**. 2019. 4(2): e00183-19.
41. Robinson, C.M., Woods Acevedo, M.A., McCune, B.T., and **Pfeiffer, J.K.** 2019. Related enteric viruses have different requirements for host microbiota in mice. **Journal of Virology**. 93(23): e01339-19.
42. McCune, B.T., Lanahan, M.R., tenOever, B.R., and **Pfeiffer, J.K.** 2020. Rapid dissemination and monopolization of viral populations in mice revealed using a panel of barcoded viruses. **Journal of Virology**. 94(2): e01590-19.
43. Lu H., Lehrman M.A., **Pfeiffer J.K.** 2020. Use of a glycan library reveals a new model for enteric virus oligosaccharide binding and virion stabilization. **Journal of Virology**. 94(6): e01894-19.
44. Woods Acevedo, M.A., **Pfeiffer, J.K.** 2020. Microbiota-Independent Antiviral Effects of Antibiotics on Enteric Viruses. **Virology**. *In press*.