# UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE Curriculum Vitae

Date: 02/06/2023

## Brendan J. Kelly, MD, MS

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If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have: none (U.S. citizen)

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Hdu	cation:
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2002	AB	Harvard College, Harvard University (History and Science)
2007	MD	College of Physicians and Surgeons, Columbia University
2013	MSCE	Center for Clinical Epidemiology and Biostatistics, University

of Pennsylvania (Genetic Epidemiology)

Postgraduate Training and Fellowship Appointments:

2007-2010	Internal Medicine Residency, New York Presbyterian,
	Columbia University Medical Center
2010-2012	Infectious Diseases Fellowship, University of Pennsylvania
	Perelman School of Medicine
2012-2014	NRSA Post-Doctoral Fellow, Frederic D. Bushman
	Laboratory, Perelman School of Medicine, University of
	Penncylvania

Pennsylvania

Faculty Appointments:

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2014-2017	Instructor A in Medicine, Department of Medicine, University
	of Pennsylvania Perelman School of Medicine
2017-present	Assistant Professor of Epidemiology in Biostatistics and
	Epidemiology, University of Pennsylvania School of Medicine
	(Secondary)
2017-present	Assistant Professor of Medicine at the Hospital of the
	University of Pennsylvania, University of Pennsylvania
	School of Medicine
2022-present	Assistant Professor of Microbiology, University of
-	Pennsylvania School of Medicine (Secondary)

## Hospital and/or Administrative Appointments:

2012-present	Attending Physician, Hospital of the University of
	Pennsylvania
2012-present	Attending Physician, Penn Presbyterian Medical Center
2012-2014	Attending Physician, Pennsylvania Hospital
2013-present	Director Fecal Microbiota Transplantation Program, Hospital
	of the University of Pennsylvania
2014-present	Attending Physician, Good Shepherd Penn Partners

2019-present

	2017 p. 1800 m	Epidemiology Study collaborative (ARES) Scientific Laboratory, University of Pennsylvania
Other Appointm	ents:	
	2016-2017	CCEB Faculty-Fellow, University of Pennsylvania
	2017-present	Senior Scholar, Center for Clinical Epidemiology and Biostatistics
Specialty Certifi	ication:	
<del></del>	2010	American Board of Internal Medicine, Internal Medicine
	2012	American Board of Internal Medicine, Infectious Disease
Licensure:		
	2014-Present	Pennsylvania
Awards, Honors	and Membership in Ho	onorary Societies:
	1998	National Merit Scholar
	1999	Detur Book Prize
	1999	John Harvard Scholarship
	2002	Phi Beta Kappa
	2002	Magna Cum Laude, Harvard University
	2003	Simon Rifkind Fellowship, Columbia University
	2007	Gold Humanism Honor Society, Columbia University
	2007	Izard Award in Cardiology, Columbia University
	2010	Joseph N. Muschel Housestaff Award, Columbia University
	2010	Hospitalist Resident of the Year, Columbia University Medical Center
	2010	Hospitalist Resident of the Year
	2014	Infectious Diseases Fellows Grant, Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)
	2015	National Institutes of Health (NIH) Loan Repayment Program
	2018	Harvey M. Friedman Infectious Diseases Faculty Mentoring Award, Perelman School of Medicine, University of
		Pennsylvania
	2018	Herbert and Faye Moskowitz Prize in Epidemiology (to
	2010	Melanie Weingart, MS4), Perelman School of Medicine, University of Pennsylvania
	2019	Visiting Professorship, University of Michigan, Division of
	2021	Infectious Diseases, Department of Medicine Herbert and Faye Moskowitz Prize in Epidemiology (to Hatem Abdallah, MS4), Perelman School of Medicine, University of Pennsylvania

Director, Antimicrobial Resistance and Healthcare

<u>Memberships in Professional and Scientific Societies and Other Professional Activities:</u>
<u>International:</u>

2019-Present	European Society of Clinica	al Microbiology and Infectious Dis	seases (ESCMID)
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2020-Present International Society for Bayesian Analysis (ISBA)

National:

2010-Present Infectious Diseases Society of America (IDSA) (Member)

2012-Present American Society of Microbiology (ASM) (Member)

2016-Present Society for Healthcare Epidemiology of America (SHEA) (Member)

2019-Present Society for Epidemiologic Research (SER)

#### **Editorial Positions:**

2014-Present	Reviewer, Infection Control and Hospital Epidemiology	
2015-Present	Reviewer, American Journal of Transplantation	
2015-Present	Reviewer, Bioinformatics	
2016-Present	Reviewer, Clinical Infectious Diseases	
2017-Present	Reviewer, JAMA	
2018-Present	Reviewer, mBio	
2019-Present	Editorial Advisory Board Member, Clinical Infectious Diseases	
2020-Present	Reviewer, American Journal of Respiratory and Critical Care	
	Medicine	

### Academic and Institutional Committees:

2012-2016	Member, Clinical Committee, Division of Infectious Diseases
2016-Present	Member, Antimicrobial Resistance and Healthcare Epidemiology
	Study Collaborative (ARES)
2017-Present	Member, Research Committee, Division of Infectious Diseases
2017-Present	Member, Undergraduate Medical Education Committee, Center for
	Clinical Epidemiology and Biostatistics
2021-Present	National Review Panel, Infectious Diseases Society of America
	(IDSA) Journal Club
2021-present	FMT National Registry Steering Committee, American
	Gastroenterological Association (AGA)
2022-Present	Antibiotic Resistance Leadership Group (ARLG), Gram Positive
	Research Committee
2022-Present	Microbiome Trials Network (MTN)

# Major Academic and Clinical Teaching Responsibilities: 2014-Present Small Group Leader in Module 2 Infectious Disease Course for

2014-Present	Small Group Leader in Module 2 Infectious Disease Course for
	second year medical students
2014-Present	Deliver annual lecture Infectious Diseases Grand Rounds Series
2014-2016	Bedside teaching on the inpatient Infectious Diseases consultation
	service, Penn Presbyterian Medical Center, 18 weeks annually,

	case-based education of medical students; rotating residents in
	internal medicine, anesthesiology, and podiatry; and fellows in the
2014 2016	infectious diseases training program  Lead evidence-based medicine class in Module 2 Infectious Diseases
2014-2016	Course for second year medical students
2014-Present	Deliver annual research presentations, focused on microbiome
	analysis methods and the relationship between the human
	microbiome and healthcare-associated infections, Microbiology
20117	Department Journal Club Series
2014-Present	Participant, weekly Infectious Diseases Case Management
2014	Conference
2014	Deliver lecture, "Clostridium difficile," Internal Medicine Resident Report
2014-2016	Precept rotating medical students and residents, ID Outpatient
	Specialty Clinic, which focuses on Clostridium difficile infection
	(CDI) and fecal microbiota transplantation (FMT)
2015-2016	Deliver lecture, "Respiratory tract microbiome dynamics and
	infection diagnosis during critical illness" Department of
	Microbiology Prokaryotic Seminar Series
2015-2016	Deliver lecture "Relationship between human microbiome and
	infectious diseases," Module 2 Infectious Diseases Course for
	second year medical students
2015-2016	Mentor to Gretchen Evans, medical student, Drexel University
	College of Medicine, guided research elective
2015	Deliver lecture, "Case for Health Care Associated Pneumonia" first
	year medical students
2015-Present	Clinical Teaching, Department of Medicine Categorical Intern
004 6 D	Outpatient Medicine Rotation
2016-Present	Research Mentor to internal medicine resident, Dr. Risa Fuller,
	submitted abstract National meeting of the American Society for
2017 2010	Microbiology
2016-2018	Deliver annual lecture, "Microbiome Measures and Analysis," EPID
2017	656- Epidemiological Research Methods in Infectious Diseases
2016	Deliver lecture, "Fecal Microbiota Transplantation" Internal
2017	Medicine Resident Report  Political lecture Division of Gostroentersload, University of
2017	Deliver lecture, Division of Gastroenterology, University of Pennsylvania; Fellowship Lecture Series; "Update on Diagnosis and
	Treatment of Clostridium difficile Infection"
2017	Deliver lecture, "Update on Clostridium difficile Diagnosis and
2017	Treatment" Internal Medicine Resident Report, Hospital of the
	University of Pennsylvania
2017-Present	Primary Research Mentor to Jillian Baron, MD, Infectious Diseases
201 / 1 1050Ht	Fellow and Master of Science in Clinical Epidemiology (MSCE)
	student
2017-Present	Research Co-Mentor to Matthew Ziegler, MD, Infectious Diseases
	Fellow and Master of Science in Clinical Epidemiology (MSCE)

		student	
	2017	Small Group Discussion Leader, Infectious Diseases course for	
		Second-Year Medical Students, Perelman School of Medicine,	
		University of Pennsylvania	
	2017-2018	Small Group Discussion Leader, Epidemiology Course for	
		First-Year Medical Students, Perelman School of Medicine,	
		University of Pennsylvania	
	2017-2018	Research Mentor to fourth-year medical student, Dr. Melanie	
		Weingart, submitted abstract national meeting of the Infectious	
	2017 D	Diseases Society of America	
	2017-Present	Develop new course and curriculum content for masters students in	
	2017 Duagant	epidemiology, EPID 674 Measuring the Microbiome	
	2017-Present	Bedside teaching inpatient infectious diseases consultation services	
	2017-Present	at Penn Presbyterian Medical Center (PPMC) Teaching during weekly, one half-day outpatient specialty clinic	
	2017-Present	Research Co-Mentor to Lauren Dutcher, MD, Infectious Diseases	
	2016-1 Teschi	Fellow and Master of Science in Clinical Epidemiology (MSCE)	
		student	
	2018-Present	Co-Director EPID 674: Measuring the Microbiome Course	
	2018	Lecturer, Epidemiology Course for First-Year Medical Students,	
		Perelman School of Medicine	
	2019-Present	K23 (NIAID) Research Co-Mentor, Dr. Matthew Ziegler, MD, MS,	
		Instructor of Medicine, Division of Infectious Diseases	
	2019-Present	NIH Loan Repayment Research Mentor, Dr. Matthew Ziegler, MD,	
		MS, Instructor of Medicine, Division of Infectious Diseases	
	2019-Present	"Clostridioides difficile Clinical Update 2019," ID Update 2019 for	
		Primary Care CME, Division of Infectious Diseases, University of	
		Pennsylvania	
	2021-Present	Primary Research Mentor to Dr. Qin Li, MD, PhD, Master of	
	2021 D	Science in Clinical Epidemiology (MSCE) Student	
	2021-Present	K23 (NIAID) Research Co-Mentor, Dr. Laurel Redding, VMD,	
		PhD, Assistant Professor of Epidemiology	
Lectures by Invitation:			
Lectures by mivit	Jan, 2016	"Respiratory Tract Microbiome Dynamics & Infection Diagnosis	
	Jan, 2010	During Critical Illness," Division of Infectious Diseases, Albert	
		Einstein College of Medicine, Bronx, NY	
	Mar, 2016	"Respiratory Tract Microbiome Dynamics and Infection Diagnosis	
	,	During Critical Illness," Division of Infectious Diseases, Columbia	
		University, New York, NY	
	Apr, 2016	"Respiratory Tract Microbiome Dynamics and Infection Diagnosis	
	_	During Critical Illness," Division of General Internal Medicine,	
		Columbia University, New York, NY	
	Jan, 2017	"The Respiratory Tract Microbiome" Centers for Disease Control	
		and Prevention, Atlanta, GA	
	Jan, 2017	"Fecal Microbiota Transplantation for Severe-Complicated	

	Clostridium difficile Infection" Centers for Disease Control and
Oct, 2017	Prevention, Atlanta, GA "Whole-Genome Sequencing to Evaluate Endemic Infections in Healthcare," Infectious Diseases Society of America (IDSA) Annual
Mar, 2018	IDWeek 2017, San Diego, CA "Predicting colonization/infection/shedding of C. difficile and MDROs," Centers for Disease Control and Prevention, Atlanta, GA
Mar, 2018	"Antibiotic effects on microbiome," Centers for Disease Control and Prevention, Atlanta, GA
Jun, 2018	"Translational Microbiology: Learning and Applying Lessons about Pathogens in Patents," American Society for Microbiology (ASM) Microbe 2018 Conference, Atlanta, GA
Jan, 2019	"Healthcare-associated microbiome change: towards a new understanding of diarrhea, pneumonia, and antibiotic effects" Public
May, 2019	Health Research Institute, Rutgers University, Newark, NJ "Staphylococcus aureus, Pseudomonas, and the Microbial Ecology of Ventilator-Associated Infection," Division of Infectious Diseases, Department of Medicine, University of Michigan, Ann Arbor, MI
May, 2019	"Bayesian Sparse Regression for Microbiome Data Analysis," Department of Microbiology, University of Michigan, Ann Arbor, MI
Jun, 2019	"The Microbial Ecology of Respiratory Tract Infection," Beijing Pediatric Research Institute, Beijing Children's Hospital, Capital Medical University, Beijing, China
Apr, 2020	"Detection of respiratory Mycoplasmataceae during prolonged mechanical ventilation", European Congress on Clinical Microbiology and Infectious Diseases (ECCMID) 2020, Paris, France
Jul, 2020	"Fecal Microbiota Transplant for Severe C. difficile Infection and During Critical Illness", American Society for Microbiology (ASM) Anaerobe 2020 Virtual, Seattle, WA
Jul, 2020	"Predicting Ventilator-Associated Pneumonia Using Dynamic Changes in
Nov, 2021	Respiratory Microbiota", American Thoracic Society (ATS) Conference 2020 Virtual, Philadelphia, PA "Respiratory Pathogen Detection and Infection Diagnosis in the Era
	of Deep Sequencing", 50th Annual Symposium of the Eastern Pennsylvania Branch American Society for Microbiology (ASM), Philadelphia, PA
Feb, 2022	"Empty Islands: The Bacterial Ecology of Infection & Antibiotic Failure", Rutgers University, New Brunswick, NJ
Mar, 2022	"Designing Microbiome Trials - Unique Considerations", American Gastroenterological Association (AGA) Gut Microbiota for Health
Mar, 2022	(GMFH) World Summit, Washington, DC, March 12-13, 2022 "Translating Molecular Epidemiology to Live Biotherapeutic Products," Rutgers University, New Brunswick, NJ

Jun, 2022	"The Lung Microbiome Clinical Cases", American Thoracic Society
	Pulmonary Infection Network of Experts (ATS-PINE), online
Dec, 2022	"Parallel Plagues: COVID-19 Genomic Epidemiology and
	Molecular Evolution", Universidad Peruana Cayetano Heredia
	(UPCH), Lima, Peru (online)
Jan, 2023	"After Antibiotics: The Source of MDRO Infections and the
	Opportunity for Microbial Therapeutics", Center for Advanced
	Biotechnology and Medicine, Piscataway, NJ
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#### Organizing Roles in Scientific Meetings:

Oct, 2016	Moderator, Oral Abstracts on Clostridium difficile, Infectious
	Diseases Society of America (IDSA) Annual IDWeek 2016
	New Orleans, LA
2021	Infectious Diseases Society of America (IDSA) Journal Club Gram
	Positive Committee
	online
Oct, 2022	Antibiotic Resistance Leadership Group Gram Positive Research
	Committee
	Washington, DC
Nov, 2022	Moderator, Centers for Disease Control and Prevention Working
	Group: "Metagenomic strain detection with SameStr: microbiota
	establishment, persistence and transfer" by Dr. Daniel Podlesny and
	"Patient microbiota modulation with fecal transplants: ecological
	and clinical drivers of strain engraftment" by Dr. Florian Fricke.
2022	Online
2022	Infectious Diseases Society of America (IDSA) Journal Club Gram
	Positive Committee
2022	online
2022	Centers for Disease Control and Prevention (CDC) Microbiome
	Working Group Leadership Committee
2022	online
2023	Infectious Diseases Society of America (IDSA) Journal Club Gram Positive Committee
	online
2022	
2023	Centers for Disease Control and Prevention (CDC) Microbiome
	Working Group Leadership Committee online
	Online

#### Bibliography:

#### Research Publications, peer reviewed (print or other media):

1. Yu M, Kumar TRS, Nkrumah LJ, Coppi A, Retzlaff S, Li Celeste D, Kelly BJ, Moura PA, Lakshmanan V, Freundlich JS, Valderramos J-C, Vilcheze C, Siedner M, Tsai JH-C, Falkard B, Sidhu ABS, Purcell LA, Gratraud P, Kremer L, Waters AP, Schiehser G, Jacobus DP, Janse CJ, Ager A, Jacobs WR, Sacchettini JC, Heussler V, Sinnis P, Fidock DA: The fatty acid biosynthesis enzyme FabI plays a key role in the development of liver-stage malarial parasites. Cell Host & Microbe 4(6):

- 567-78, Dec 2008. PMCID: PMC2646117
- 2. Khiabanian H, Holmes AB, Kelly BJ, Gururaj M, Hripcsak G, Rabadan R: Signs of the 2009 influenza pandemic in the New York-Presbyterian Hospital electronic health records. <u>PLoS One</u> 5(9): pii: e12658, Sep 2010. PMCID: PMC2936568
- 3. Brady T, Kelly BJ, Male F, Roth S, Bailey A, Malani N, Gijsbers R, O'Doherty U, Bushman FD: Quantitation of HIV DNA integration: effects of differential integration site distributions on Alu-PCR assays. <u>J Virol Methods</u> 189(1): 53-7, Apr 2013. PMCID: PMC3608829
- 4. Kelly BJ, Gross R, Bittinger K, Sherrill-Mix S, Lewis JD, Collman RG, Bushman FD, Li H: Power and sample-size estimation for microbiome studies using pairwise distances and PERMANOVA. <u>Bioinformatics</u> 31(15): 2461-2468, Aug 2015. PMCID: PMC4514928
- 5. Kelly BJ, Imai I, Bittinger K, Laughlin A, Fuchs BD, Bushman FD, Collman RG: Composition and dynamics of the respiratory tract microbiome in intubated patients. Microbiome 4: 7, Feb 2016. PMCID: PMC4750361
- 6. Kelly BJ, Lautenbach E, Nachamkin I, Coffin SE, Gerber JS, Fuchs BD, Garrigan C, Han X, Bilker WB, Wise J, Tolomeo P, Han JH, Centers for Disease Control and Prevention (CDC) Prevention Epicenters Program: Combined biomarkers discriminate a low likelihood of bacterial infection among surgical intensive care unit patients with suspected sepsis. <u>Diag Microbiol Infect Dis</u> 85(1): 109-115, May 2016. PMCID: PMC4841711
- 7. Agarwal R, Bartsch SM, Kelly BJ, Prewitt M, Liu Y, Chen Y, Umscheid CA: Newer glycopeptide antibiotics for treatment of complicated skin and soft tissue infections: a systematic review, network meta-analysis and cost analysis. <u>Clin</u> Microbiol Infect 24(4): 361-368, Apr 2018.
- 8. Kelly BJ, Lautenbach E, Nachamkin I, Coffin SE, Gerber JS, Fuchs BD, Garrigan C, Han X, Bilker WB, Wise J, Tolomeo P, Han JH: Combined Biomarkers Predict Acute Mortality Among Critically Ill Patients With Suspected Sepsis. Crit Care Med 46(7): 1106-1113, Jul 2018. PMCID: PMC6010038
- 9. Knecht VR, McGinniss JE, Shankar HM, Clarke EL, Kelly BJ, Imai I, Fitzgerald AS, Bittinger K, Bushman FD, Collman RG: Molecular analysis of bacterial contamination on stethoscopes in an intensive care unit. <u>Infect Control Hosp Epidemiol</u> Page: 1-7, Dec 2018. PMCID: PMC6581638
- 10. Kelly BJ, Lautenbach E, Han JH: The authors reply. <u>Crit Care Med</u> 47(3): e275-e276, Mar 2019.
- 11. Ziegler M, Han JH, Landsburg D, Pegues D, Reesey E, Gilmar C, Gorman T, Bink K,

- Moore A, Kelly BJ: Impact of Levofloxacin for the Prophylaxis of Bloodstream Infection on the Gut Microbiome in Patients With Hematologic Malignancy. Open Forum Infect Dis 6(7): ofz252, Jul 2019. PMCID: PMC6602896
- 12. Berry ASF, Kelly BJ, Barnhart D, Kelly DJ, Beiting DP, Baldassano RN, Redding LE: Gut microbiota features associated with Clostridioides difficile colonization in puppies. <u>PloS One</u> 14(8): e0215497, Aug 2019. PMCID: PMC6716646
- 13. Redding LE, Kelly BJ, Stefanovski D, Lautenbach JK, Tolomeo P, Cressman L, Gruber E, Meily P, Lautenbach E: Pet Ownership Protects Against Recurrence of Clostridioides difficile Infection. <u>Open Forum Infect Dis</u> 7: ofz541, Jan 2020 Notes: http://dx.doi.org/10.1093/ofid/ofz541. PMCID: PMC6969483
- 14. Abdallah HO, Weingart MF, Fuller R, Pegues D, Fitzpatrick R, Kelly BJ.: Subglottic suction frequency and adverse ventilator-associated events during critical illness. <u>Infection Control and Hospital Epidemiology</u> January 2021.
- 15. Rhee RL, Lu J, Bittinger K, Lee JJ, Mattei LM, Sreih AG, Chou S, Miner JJ, Cohen NA, Kelly BJ, Lee H, Grayson PC, Collman RG, Merkel PA.: Dynamic Changes in the Nasal Microbiome Associated with Disease Activity in Patients with Granulomatosis with Polyangiitis. <a href="https://example.com/Arthritis-Arthritis-Arthritis-Rheumatol">Arthritis-Rheumatol</a> March 2021.
- 16. Richard-Greenblatt M, Ziegler MJ, Bromberg V, Huang E, Abdallah H, Tolomeo P, Lautenbach E, Glaser L, Kelly BJ.: Quantifying the Impact of Nasopharyngeal Specimen Quality on Severe Acute Respiratory Syndrome Coronavirus 2 Test Performance. <u>Open Forum Infect Dis</u> 8: ofab235, May 2021. PMCID: PMC8136075
- 17. Harrigan JJ, Abdallah H, Clarke EL, Oganisian A, Roy JA, Lautenbach E, Reesey E, Wernovsky M, Tolomeo P, Morawski Z, Jacob J, Grippi MA, Kelly BJ.: Respiratory microbiome disruption and risk for ventilator-associated lower respiratory tract infection. <u>Clin Infect Dis</u> Aug 2021.
- 18. Kelly BJ, Bekele S, Loughrey S, Huang E, Tolomeo P, David MZ, Lautenbach E, Han JH, Ziegler MJ; CDC Prevention Epicenters Program.: Healthcare microenvironments define multidrug-resistant organism persistence. <a href="Infect\_Infect\_Loughter-Infect\_I
- 19. Zhang HL, Kelly BJ, David MZ, Lautenbach E, Huang E, Bekele S, Tolomeo P, Reesey E, Loughrey S, Pegues D, Ziegler MJ; CDC Prevention Epicenters Program.: Severe acute respiratory coronavirus virus 2 (SARS-CoV-2) surface contamination in staff common areas and impact on healthcare worker infection: Prospective surveillance during the coronavirus disease 2019 (COVID-19) pandemic. Infect Control Hosp Epidemiol Nov 2021. PMCID: PMC8649357
- 20. Ziegler MJ, Huang E, Bekele S, Reesey E, Tolomeo P, Loughrey S, David MZ,

- Lautenbach E, Kelly BJ; CDC Prevention Epicenters Program.: Spatial and temporal effects on SARS-CoV-2 contamination of the healthcare environment. Infect Control Hosp Epidemiol Dec 2021. PMCID: PMC8755533
- 21. Zhang HL, Kelly BJ, David MZ, Lautenbach E, Huang E, Bekele S, Tolomeo P, Reesey E, Loughrey S, Pegues D, Ziegler MJ; CDC Prevention Epicenters Program.: SARS-CoV-2 RNA persists on surfaces following terminal disinfection of COVID-19 hospital isolation rooms. <u>Am J Infect Control</u> Jan 2022. PMCID: PMC8801058
- 22. Lenz OC, Marques AD, Kelly BJ, Rodino KG, Cole SD, Perera RAPM, Weiss SR, Bushman FD, Lennon EM.: SARS-CoV-2 Delta Variant (AY.3) in the Feces of a Domestic Cat. <u>Viruses</u> 14: 421, Feb 2022. PMCID: PMC8877841
- 23. Marques AD, Sherrill-Mix S, Everett JK, Reddy S, Hokama P, Roche AM, Hwang Y, Glascock A, Whiteside SA, Graham-Wooten J, Khatib LA, Fitzgerald AS, Moustafa AM, Bianco C, Rajagopal S, Helton J, Deming R, Denu L, Ahmed A, Kitt E, Coffin SE, Newbern C, Mell JC, Planet PJ, Badjatia N, Richards B, Wang ZX, Cannuscio CC, Strelau KM, Jaskowiak-Barr A, Cressman L, Loughrey S, Ganguly A, Feldman MD, Collman RG, Rodino KG, Kelly BJ, Bushman FD.: SARS-CoV-2 Variants Associated with Vaccine Breakthrough in the Delaware Valley through Summer 2021. mBio 13: e0378821, Feb 2022. PMCID: PMC8942461
- 24. Ziegler MJ, Babcock HH, Welbel SF, Warren DK, Trick WE, Tolomeo P, Omorogbe J, Garcia D, Habrock-Bach T, Donceras O, Gaynes S, Cressman L, Burnham JP, Bilker W, Reddy SC, Pegues D, Lautenbach E, Kelly BJ, Fuchs B, Martin ND, Han JH; CDC Prevention Epicenters Program.: Stopping Hospital Infections with Environmental Services (SHINE): A Cluster-Randomized Trial of Intensive Monitoring Methods for Terminal Room Cleaning on Rates of Multidrug-Resistant Organisms in the Intensive Care Unit. Clin Infect Dis Feb 2022.
- 25. Rodino KG, Peaper DR, Kelly BJ, Bushman F, Marques A, Adhikari H, Tu ZJ, Marrero Rolon R, Westblade LF, Green DA, Berry GJ, Wu F, Annavajhala MK, Uhlemann AC, Parikh BA, McMillen T, Jani K, Babady NE, Hahn AM, Koch RT, Grubaugh ND; Yale SARS-CoV-2 Genomic Surveillance Initiative, Rhoads DD.: Partial ORF1ab Gene Target Failure with Omicron BA.2.12.1. J Clin Microbiol 60: e0060022, Jun 2022. PMCID: PMC9199403
- 26. Marques AD, Sherrill-Mix S, Everett JK, Adhikari H, Reddy S, Ellis JC, Zeliff H, Greening SS, Cannuscio CC, Strelau KM, Collman RG, Kelly BJ, Rodino KG, Bushman FD, Gagne RB, Anis E.: Multiple Introductions of SARS-CoV-2 Alpha and Delta Variants into White-Tailed Deer in Pennsylvania. <u>mBio</u> 13: e0210122, Aug 2022. PMCID: PMC9600874

27. Smith AB, Jenior ML, Keenan O, Hart JL, Specker J, Abbas A, Rangel PC, Di C, Green J, Bustin KA, Gaddy JA, Nicholson MR, Laut C, Kelly BJ, Matthews ML, Evans DR, Van Tyne D, Furth EE, Papin JA, Bushman FD, Erlichman J, Baldassano RN, Silverman MA, Dunny GM, Prentice BM, Skaar EP, Zackular JP.: Enterococci enhance Clostridioides difficile pathogenesis. Nature 2022. PMCID: PMC9691601

#### Research Publications, peer-reviewed reviews:

1. Kelly BJ, Tebas P: Clinical practice and infrastructure review of fecal microbiota transplantation for Clostridium difficile infection. <u>Chest</u> 153(1): 266-277, Jan 2018. PMCID: PMC5812771

#### Research Publications, non-peer reviewed:

- Richard-Greenblatt M, Ziegler MJ, Bromberg V, Huang E, Abdallah H, Tolomeo P, Lautenbach E, Glaser L, Kelly BJ.: Impact of Nasopharyngeal Specimen Quality on SARS-CoV-2 Test Sensitivity. <u>medRxiv</u> December 2020. PMCID: PMC7743104
- 2. Marques AD, Sherrill-Mix S, Everett J, Reddy S, Hokama P, Roche AM, Hwang Y, Glascock A, Whiteside SA, Graham-Wooten J, Khatib LA, Fitzgerald AS, Moustafa AM, Bianco C, Rajagopal S, Helton J, Deming R, Denu L, Ahmed A, Kitt E, Coffin SE, Newbern C, Mell JC, Planet PJ, Badjatia N, Richards B, Wang ZX, Cannuscio CC, Strelau KM, Jaskowiak-Barr A, Cressman L, Loughrey S, Ganguly A, Feldman MD, Collman RG, Rodino KG, Kelly BJ, Bushman FD.: SARS-CoV-2 variants associated with vaccine breakthrough in the Delaware Valley through summer 2021. medRxiv Oct 2021. PMCID: PMC8547530

#### Abstracts:

- Kelly BJ, Lautenbach E, Nachamkin I, Coffin SE, Gerber JS, Fuchs Garrigan C, Han X, Bilker WB, Wise J, Tolomeo P, Han JH, for the Centers for Disease Control and Prevention (CDC) Prevention Epicenters Program: Combined Biomarkers Discriminate Mortality Risk Among Critically Ill Patients with Suspected Sepsis.
   Infectious Diseases Society of America (IDSA) Annual ID Week 2016 Oct 2016
   Notes: Poster presentation.
- 2. Fuller RV, Fitzpatrick R, Lautenbach E, Pegues DA, Kelly BJ: Increasing Frequency of Subglottic Suctioning During Mechanical Ventilation Anticipates Adverse Ventilator-Associated Events. <u>American Society for Microbiology (ASM)</u>
  Microbe 2017 Jun 2017 Notes: Poster presentation.
- 3. Kelly BJ, Lewis JD, Wu GD, Bushman FD: Longitudinal Metagenomic Analysis of Stool Bacterial Community Composition Detects Incident Extended-Spectrum Beta-Lactamases Associated with Antibiotic Treatment. <u>American Society for Microbiology</u> (ASM) Microbe 2017 Jun 2017 Notes: Poster presentation.
- 4. Kelly BJ, Bushman FD, Collman RG, Lautenbach E: Nasal Microbiome Features of

- Staphylococcus aureus Colonization and Infection During Critical Illness. <u>NIH Human Microbiome Project Workshop 2017</u> Aug 2017 Notes: Poster presentation.
- 5. Kelly BJ, Rivera J, Pirofski LA: Oropharyngeal Bacterial Community Composition Correlates with Baseline and Post-Vaccination Pneumococcal Polysaccharide Antibody Levels in HIV-Infected Subjects. <u>Infectious Diseases Society of</u> <u>America (IDSA) Annual ID Week 2017</u> Oct 2017 Notes: Poster presentation.
- 6. Clarke E, Reesey E, Lautenbach E, Wernovsky E, Kelly BJ: Modeling changes in gastrointestinal and respiratory tract bacterial community diversity attributable to common antibiotic exposures during long-term acute care. <u>Infectious Diseases Society of America (IDSA) Annual ID Week 2018</u> Oct 2018.
- 7. Weingart MF, Vecker RF, Fitzpatrick R, Lautenbach E, Pegues DA, Kelly BJ: Electronic records of daily subglottic suctioning predict infectious and non-infectious adverse ventilator-associated events during critical care. <u>Infectious Diseases Society of America (IDSA) Annual ID Week 2018</u> Oct 2018.
- 8. Ziegler M, Han JH, Landsburg D, Pegues D, Reesey E, Gilmar C, Gorman T, Bink K, Moore A, Kelly BJ: Impact of levofloxacin for the prophylaxis of bloodstream infection on the gut microbiome in patients with hematologic malignancy. Infectious Diseases Society of America (IDSA) Annual ID Week 2018 Oct 2018.
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