

Stanford



Paul Bollyky

Stanford Medicine Professor of Infectious Disease and Professor of Microbiology and Immunology
Medicine - Infectious Diseases

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Infectious Disease**

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Stanford, CA 94305

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Bio

BIO

Dr. Bollyky is an infectious disease physician and researcher at Stanford Medical Center.

CLINICAL FOCUS

- Infectious Disease
- Wound infections
- Microbial biofilms
- Diabetic wounds
- Chronic skin and lung infections
- Chronic bacterial infections

ACADEMIC APPOINTMENTS

- Professor, Medicine - Infectious Diseases
- Professor, Microbiology and Immunology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Division Chief, Infectious Diseases, (2025- present)

HONORS AND AWARDS

- Elected to membership in the American Association of Physicians, AAP (2026)
- Endowed Professorship in Infectious Diseases, Stanford Medicine (2025)

- Fellow, Infectious Disease Society of America (2019)
- Elected to membership in the American Society of Clinical Investigators, (ASCI) (2018)
- Harrington Scholar Innovator, Harrington Discovery Institute (2017)
- Transformative Research Award, Dr. Ralph and Marian Falk Medical Research Trust (2017)
- Grand Challenges Award, Bill & Melinda Gates Foundation (2016)
- Catalyst Award, Dr. Ralph and Marian Falk Medical Research Trust (2015)
- Outstanding Faculty Mentor Award, Stanford Immunology (2015)
- Career Development Award, Juvenile Diabetes Research Foundation (2012)
- Elected to membership, Western Society of Clinical Investigators (2012)
- Young Investigator Award, University of Washington Diabetes Research Council (2012)
- Excellence in Teaching Award, Harvard Medical School (2004)
- Soma Weiss Prize for Student Research, Harvard Medical School (2001)
- North Senior Scholar, St. John's College, Oxford (1997)
- Marshall Scholar, British Marshall Scholarship Fund (1994)

PROFESSIONAL EDUCATION

- MD, Harvard University , Medicine (2001)
- Board Certification: Infectious Disease, American Board of Internal Medicine (2019)
- Fellowship: University of Washington Infectious Disease Program (2007) WA
- Residency: Brigham and Women's Hospital Internal Medicine Residency (2004) MA
- Medical Education: Harvard Medical School (2001) MA
- PhD, Oxford University (1998)
- B.A., Columbia University , Biology (1994)

LINKS

- <http://bollykylab.com>: <http://bollykylab.com>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Bollyky Lab studies bacteriophages, viruses that infect bacteria, with the goal of developing innovative strategies to improve human health.

Key areas of active research involve: 1. Bacteriophages and bacterial pathogenesis in skin and lung infections, 2. Phage therapy, specifically the development of phages to treat antibiotic-resistant bacterial infections, 3. Synthetic biology, specifically the development of phages as vectors for delivery of genes, peptides, and small molecules to human cells, 4. Bacteriophages in the human body (the phageome) and its contributions to human health and disease.

Looking for a lab? We are actively recruiting bioengineers, molecular biologists, immunologists, and microbiologists for post-doctoral positions in the lab. If interested, please contact Dr. Bollyky at pbollyky@stanford.edu

We are only able to accept PhD applicants through the Stanford Microbiology & Immunology graduate program; we encourage prospective PhD students to apply there: <https://med.stanford.edu/microimmuno.html>

For Stanford Undergraduates interested in joining the lab, we require a minimum commitment of a full year (including full-time work in the lab for at least one summer).

Due to Stanford School of Medicine policies, we are only able to take high school students through the SSRP program. We encourage prospective students to apply there: <https://biosciences.stanford.edu/prospective/diversity/ssrp/>

CLINICAL TRIALS

- A Study of Oral Hymecromone and Hyaluronan Synthesis, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Chloe Kashiwagi

Postdoctoral Faculty Sponsor

Zhiwei Li, Tiffany Luong, Saumel Perez Rodriguez, Muneer Yaqub

Doctoral Dissertation Advisor (AC)

Tejas Dharmaraj

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Infectious Diseases (Fellowship Program)
- Microbiology and Immunology (Phd Program)
- Pediatric Infectious Diseases (Fellowship Program)

Publications

PUBLICATIONS

- **A blueprint for broadly effective bacteriophage-antibiotic cocktails against bacterial infections.** *Nature communications*
Kim, M. K., Chen, Q., Echterhof, A., Pennetzdorfer, N., McBride, R. C., Banaei, N., Burgener, E. B., Milla, C. E., Bollyky, P. L.
2024; 15 (1): 9987
- **Phage diversity in cell-free DNA identifies bacterial pathogens in human sepsis cases.** *Nature microbiology*
Haddock, N. L., Barkal, L. J., Ram-Mohan, N., Kaber, G., Chiu, C. Y., Bhatt, A. S., Yang, S., Bollyky, P. L.
2023
- **Filamentous bacteriophage delays healing of Pseudomonas-infected wounds.** *Cell reports. Medicine*
Bach, M. S., de Vries, C. R., Khosravi, A., Sweere, J. M., Popescu, M. C., Chen, Q., Demirdjian, S., Hargil, A., Van Belleghem, J. D., Kaber, G., Hajfathalian, M., Burgener, E. B., Liu, et al
2022; 3 (6): 100656
- **Filamentous bacteriophages are associated with chronic Pseudomonas lung infections and antibiotic resistance in cystic fibrosis** *SCIENCE TRANSLATIONAL MEDICINE*
Burgener, E. B., Sweere, J. M., Bach, M. S., Secor, P. R., Haddock, N., Jennings, L. K., Marvig, R. L., Johansen, H., Rossi, E., Cao, X., Tian, L., Nedelec, L., Molin, et al
2019; 11 (488)
- **Bacteriophage trigger antiviral immunity and prevent clearance of bacterial infection.** *Science (New York, N.Y.)*

- Sweere, J. M., Van Belleghem, J. D., Ishak, H. n., Bach, M. S., Popescu, M. n., Sunkari, V. n., Kaber, G. n., Manasherob, R. n., Suh, G. A., Cao, X. n., de Vries, C. R., Lam, D. N., Marshall, et al
2019; 363 (6434)
- **Interactions between Bacteriophage, Bacteria, and the Mammalian Immune System.** *Viruses*
Van Belleghem, J. D., Dąbrowska, K. n., Vanechoutte, M. n., Barr, J. J., Bollyky, P. L.
2018; 11 (1)
 - **Filamentous bacteriophage organize the *Pseudomonas aeruginosa* biofilm matrix into a liquid crystal.** *Microbial Cell*
Secor, P. R., Michaels, L. A., Sweere, J. M., Singh, P. K., Parks, W. C., Bollyky, P. L.
2016; 3 (1; 49-52)
 - **Filamentous Bacteriophage Promote Biofilm Assembly and Function** *CELL HOST & MICROBE*
Secor, P. R., Sweere, J. M., Michaels, L. A., Malkovskiy, A. V., Lazzareschi, D., Katznelson, E., Rajadas, J., Birnbaum, M. E., Arrigoni, A., Braun, K. R., Evanko, S. P., Stevens, D. A., Kaminsky, et al
2015; 18 (5): 549-559
 - **2025 Conference on Bacteriophages: Biology, Dynamics, and Therapeutics.** *Pathogens & immunity*
Elshazly, A., Russell, D. A., Hatfull, G. F., Schooley, R. T., Bollyky, P. L., Pourtois, J. D., Freeman, K. G.
2026; 11 (1): 69-95
 - **Whole-body distribution of three *Pseudomonas* phages characterized by a translational physiologically based pharmacokinetic model.** *Antimicrobial agents and chemotherapy*
Echterhof, A., Dharmaraj, T., Blankenberg, P., Targ, B., Nguyen, T. D., Bollyky, P. L., Smith, N. M., Blankenberg, F. G.
2025: e0150625
 - **T Cell Autocrine Hyaluronan Forms Complex Structures in CD4 T Cell Cytoplasm and Plays a Critical Role in Formation of the Immune Synapse.** *The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society*
Vernon, R. B., Gooden, M. D., Gebe, J. A., Kang, I., Stefani, C., Workman, G., Lacy-Hulbert, A., Bollyky, P. L., Wight, T. N.
2025: 221554251381874
 - **Circulating Bacteriophage DNA Distinguishes Staphylococcal Infection from Commensal Colonization.** *The Journal of arthroplasty*
Manasherob, R., Furukawa, D., Haddock, N. L., Chang, T. H., Hargil, A., Arora, P., Banaei, N., Maloney, W. J., Bollyky, P. L., Amanatullah, D. F.
2025
 - **Autoimmune origin for immune checkpoint inhibitor-diabetes revealed by deep immune phenotyping of the pancreas.** *Journal for immunotherapy of cancer*
Quandt, Z., Young, A., Barlow, G. L., Smith, J. A., Kusmartseva, I., Dong, S., Shapiro, M. R., Kang, J. H., Felton, J. L., Nguyen, V. Q., Sztot, G., Hassoun, A. A., Perdigo, et al
2025; 13 (8)
 - **Identification of bacteriophage DNA in human umbilical cord blood.** *JCI insight*
Sequoia, J. A., Haddock, N. L., Gay, P. M., Barkal, L. J., Narasimhan, P., Martinez, N., Winn, V. D., Bollyky, P. L.
2025; 10 (13)
 - **Monocytes use protrusive forces to generate migration paths in viscoelastic collagen-based extracellular matrices.** *Proceedings of the National Academy of Sciences of the United States of America*
Adebowale, K., Allan, C., Ha, B., Saraswathibhatla, A., Zhu, J., Indana, D., Popescu, M. C., Demirdjian, S., Martinez, H. A., Esclamado, A., Yang, J., Bassik, M. C., Franck, et al
2025; 122 (25): e2309772122
 - **Randomised, placebo-controlled trial of oral hymecromone in adults with pulmonary hypertension.** *Thorax*
Czepiel, K., Nagy, N., Panjalingam, T., Kalinowski, A., Frymoyer, A. R., Karmouty-Quintana, H., Gu, B., Hedlin, H., Kaber, G., Dobrota Lai, S., Rosser, J. I., Bollyky, P. L., de Jesus Perez, et al
2025
 - **New *Pseudomonas* infections drive Pf phage transmission in CF airways.** *JCI insight*
Pourtois, J. D., Haddock, N. L., Gupta, A., Khosravi, A., Martinez, H. A., Schmidt, A. K., Prakash, P. S., Jain, R., Fleming, P., Chang, T. H., Milla, C., Secor, P. R., De Leo, et al
2025

- **The extra-islet pancreas supports autoimmunity in human type 1 diabetes.** *eLife*
Barlow, G. L., Schürch, C. M., Bhate, S. S., Phillips, D. J., Young, A., Dong, S., Martinez, H. A., Kaber, G., Nagy, N., Ramachandran, S., Meng, J., Korpos, E., Bluestone, et al
2025; 13
- **Bacteriophage therapy for multidrug-resistant infections: current technologies and therapeutic approaches.** *The Journal of clinical investigation*
Kim, M. K., Suh, G. A., Cullen, G. D., Perez Rodriguez, S., Dharmaraj, T., Chang, T. H., Li, Z., Chen, Q., Green, S. I., Lavigne, R., Pirnay, J. P., Bollyky, P. L., Sacher, et al
2025; 135 (5)
- **Prophages are infrequently associated with antibiotic resistance in *Pseudomonas aeruginosa* clinical isolates.** *mSphere*
Chang, T. H., Pourtois, J. D., Haddock, N. L., Furukawa, D., Kelly, K. E., Amanatullah, D. F., Burgener, E., Milla, C., Banaei, N., Bollyky, P. L.
2025: e0090424
- **Pf bacteriophage is associated with decline in lung function in a longitudinal cohort of patients with cystic fibrosis and *Pseudomonas* airway infection.** *Journal of cystic fibrosis : official journal of the European Cystic Fibrosis Society*
Burgener, E. B., Gupta, A., Nakano, K., Gibbs, S. L., Sommers, M. E., Khosravi, A., Bach, M. S., Dunn, C., Spano, J., Secor, P. R., Tian, L., Bollyky, P. L., Milla, et al
2024
- **The contribution of neutrophils to bacteriophage clearance and pharmacokinetics in vivo.** *JCI insight*
Echterhof, A., Dharmaraj, T., Khosravi, A., McBride, R., Miesel, L., Chia, J., Blankenberg, P. M., Lin, K., Shen, C., Lee, Y., Yeh, Y., Liao, W. T., Blankenberg, et al
2024; 9 (20)
- **Hymecromone Promotes Longevity and Insulin Sensitivity in Mice.** *Cells*
Nagy, N., Czepiel, K. S., Kaber, G., Stefanovski, D., Hargil, A., Pennetzdorfer, N., Targ, R., Reghupaty, S. C., Wight, T. N., Vernon, R. B., Hull-Meichle, R. L., Marshall, P., Medina, et al
2024; 13 (20)
- **A Case of Persistent Intra-Abdominal *Stenotrophomonas maltophilia* Infection Despite Bacteriophage Therapy.** *PHAGE (New Rochelle, N.Y.)*
Cullen, G. D., Salazar, K. C., Terwilliger, A. L., Aslam, S., Clark, J. R., Maresso, A. W., Bollyky, P. L., Aronson, J. R.
2024; 5 (3): 120-125
- **The lysogenic filamentous *Pseudomonas* bacteriophage phage Pf slows mucociliary transport.** *PNAS nexus*
Burgener, E. B., Cai, P. C., Kratochvil, M. J., Rojas-Hernandez, L. S., Joo, N. S., Gupta, A., Secor, P. R., Heilshorn, S. C., Spakowitz, A. J., Wine, J. J., Bollyky, P. L., Milla, C. E.
2024; 3 (9): pgae390
- **A Case of Persistent Intra-Abdominal *Stenotrophomonas maltophilia* Infection Despite Bacteriophage Therapy** *PHAGE-THERAPY APPLICATIONS AND RESEARCH*
Cullen, G. D., Salazar, K., Terwilliger, A., Aslam, S., Clark, J. R., Maresso, A. W., Bollyky, P. L., Aronson, J. R.
2024
- **Engineered matrices reveal stiffness-mediated chemoresistance in patient-derived pancreatic cancer organoids.** *Nature materials*
LeSavage, B. L., Zhang, D., Huerta-López, C., Gilchrist, A. E., Krajina, B. A., Karlsson, K., Smith, A. R., Karagoyzova, K., Klett, K. C., Huang, M. S., Long, C., Kaber, G., Madl, et al
2024
- **Pf bacteriophages hinder sputum antibiotic diffusion via electrostatic binding.** *Science advances*
Chen, Q., Cai, P., Chang, T. H., Burgener, E., Kratochvil, M. J., Gupta, A., Hargill, A., Secor, P. R., Nielsen, J. E., Barron, A. E., Milla, C., Heilshorn, S. C., Spakowitz, et al
2024; 10 (22): eadl5576
- **Phage Therapy for Respiratory Infections: Opportunities and Challenges.** *Lung*
Khosravi, A., Chen, Q., Echterhof, A., Koff, J. L., Bollyky, P. L.
2024
- **Targeted deletion of Pf prophages from diverse *Pseudomonas aeruginosa* isolates has differential impacts on quorum sensing and virulence traits.** *Journal of bacteriology*

- Schmidt, A. K., Schwartzkopf, C. M., Pourtois, J. D., Burgener, E. B., Faith, D. R., Joyce, A., Lamma, T., Kumar, G., Bollyky, P. L., Secor, P. R.
2024: e0040223
- **A review of recent advances in the use of complex metal nanostructures for biomedical applications from diagnosis to treatment.** *Wiley interdisciplinary reviews. Nanomedicine and nanobiotechnology*
Hajfathalian, M., Mossburg, K. J., Radaic, A., Woo, K. E., Jonnalagadda, P., Kapila, Y., Bollyky, P. L., Cormode, D. P.
2024; 16 (3): e1959
 - **Regulatory T cells use heparanase to access IL-2 bound to extracellular matrix in inflamed tissue.** *Nature communications*
Martinez, H. A., Koliesnik, I., Kaber, G., Reid, J. K., Nagy, N., Barlow, G., Falk, B. A., Medina, C. O., Hargil, A., Zihlsler, S., Vlodavsky, I., Li, J. P., Pérez-Cruz, et al
2024; 15 (1): 1564
 - **Optimized preparation pipeline for emergency phage therapy against *Pseudomonas aeruginosa* at Yale University.** *Scientific reports*
Würstle, S., Lee, A., Kortright, K. E., Winzig, F., An, W., Stanley, G. L., Rajagopalan, G., Harris, Z., Sun, Y., Hu, B., Blazanin, M., Hajfathalian, M., Bollyky, et al
2024; 14 (1): 2657
 - **The Inovirus Pf4 Triggers Antiviral Responses and Disrupts the Proliferation of Airway Basal Epithelial Cells.** *Viruses*
Popescu, M. C., Haddock, N. L., Burgener, E. B., Rojas-Hernandez, L. S., Kaber, G., Hargil, A., Bollyky, P. L., Milla, C. E.
2024; 16 (1)
 - **Rapid assessment of changes in phage bioactivity using dynamic light scattering.** *PNAS nexus*
Dharmaraj, T., Kratochvil, M. J., Pourtois, J. D., Chen, Q., Hajfathalian, M., Hargil, A., Lin, Y. H., Evans, Z., Oromí-Bosch, A., Berry, J. D., McBride, R., Haddock, N. L., Holman, et al
2023; 2 (12): pgad406
 - **Bacterial outer membrane vesicles bound to bacteriophages modulate neutrophil responses to bacterial infection.** *Frontiers in cellular and infection microbiology*
Pennetzdorfer, N., Popescu, M. C., Haddock, N. L., Dupuy, F., Kaber, G., Hargil, A., Johansson, P. K., Enejder, A., Bollyky, P. L.
2023; 13: 1250339
 - **Inhibition of hyaluronan synthesis prevents β -cell loss in obesity-associated type 2 diabetes.** *Matrix biology : journal of the International Society for Matrix Biology*
Nagy, N., Kaber, G., Sunkari, V. G., Marshall, P. L., Hargil, A., Kuipers, H. F., Ishak, H. D., Bogdani, M., Hull, R. L., Grandoch, M., Fischer, J. W., McLaughlin, T. L., Wight, et al
2023
 - **Theranostic gold-in-gold cage nanoparticles enable photothermal ablation and photoacoustic imaging in biofilm-associated infection models.** *The Journal of clinical investigation*
Hajfathalian, M., de Vries, C. R., Hsu, J. C., Amirshaghghi, A., Dong, Y. C., Ren, Z., Liu, Y., Huang, Y., Li, Y., Knight, S. A., Jonnalagadda, P., Zlitni, A., Grice, et al
2023
 - **Bacteriophage populations mirror those of bacterial pathogens at sites of infection.** *mSystems*
Haddock, N. L., Barkal, L. J., Bollyky, P. L.
2023: e0049723
 - **Bacteriophage DNA in blood provides species-level insight into bacterial infections** *Nature Microbiology*
Haddock, N. L., Bollyky, P. L.
2023
 - **Hyaluronan in the Pathogenesis of Acute and Post-Acute COVID-19 Infection.** *Matrix biology : journal of the International Society for Matrix Biology*
Barnes, H. W., Demirdjian, S., Haddock, N. L., Kaber, G., Martinez, H. A., Nagy, N., Karmouty-Quintana, H., Bollyky, P. L.
2023
 - **Endogenous Interleukin-10 Contributes to Wound Healing and Regulates Tissue Repair.** *The Journal of surgical research*
Short, W. D., Rae, M., Lu, T., Padon, B., Prajapati, T. J., Faruk, F., Olutoye, O. O., Yu, L., Bollyky, P., Keswani, S. G., Balaji, S.
2023; 285: 26-34

- **IL-10 promotes endothelial progenitor cell infiltration and wound healing via STAT3.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
Short, W. D., Steen, E., Kaul, A., Wang, X., Olutoye, O. O., Vangapandu, H. V., Templeman, N., Blum, A. J., Moles, C. M., Narmoneva, D. A., Crombleholme, T. M., Butte, M. J., Bollyky, et al
2022; 36 (7): e22298
- **Biochemical, biophysical, and immunological characterization of respiratory secretions in severe SARS-CoV-2 infections.** *JCI insight*
Kratochvil, M. J., Kaber, G., Demirdjian, S., Cai, P. C., Burgener, E. B., Nagy, N., Barlow, G. L., Popescu, M., Nicolls, M. R., Ozawa, M. G., Regula, D. P., Pacheco-Navarro, A. E., Yang, et al
2022; 7 (12)
- **Oral hycromone decreases hyaluronan in human study participants.** *The Journal of clinical investigation*
Rosser, J. I., Nagy, N., Goel, R., Kaber, G., Demirdjian, S., Saxena, J., Bollyky, J. B., Frymoyer, A. R., Pacheco-Navarro, A. E., Burgener, E. B., Rajadas, J., Wang, Z., Arbach, et al
2022; 132 (9)
- **A Filamentous Bacteriophage Protein Inhibits Type IV Pili To Prevent Superinfection of Pseudomonas aeruginosa.** *mBio*
Schmidt, A. K., Fitzpatrick, A. D., Schwartzkopf, C. M., Faith, D. R., Jennings, L. K., Coluccio, A., Hunt, D. J., Michaels, L. A., Hargil, A., Chen, Q., Bollyky, P. L., Dorward, D. W., Wachter, et al
1800: e0244121
- **Interleukin-10 Producing T Lymphocytes Attenuate Dermal Scarring.** *Annals of surgery*
Short, W. D., Wang, X., Li, H., Yu, L., Kaul, A., Calderon, G. A., Gilley, J., Bollyky, P. L., Balaji, S., Keswani, S. G.
2021; 274 (4): 627-636
- **Congenital Heart Disease: An Immunological Perspective.** *Frontiers in cardiovascular medicine*
Singampalli, K. L., Jui, E., Shani, K., Ning, Y., Connell, J. P., Birla, R. K., Bollyky, P. L., Caldarone, C. A., Keswani, S. G., Grande-Allen, K. J.
2021; 8: 701375
- **The Immune and Inflammatory Basis of Acquired Pediatric Cardiac Disease** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
Jui, E., Singampalli, K. L., Shani, K., Ning, Y., Connell, J. P., Birla, R. K., Bollyky, P. L., Caldarone, C. A., Keswani, S. G., Grande-Allen, K.
2021; 8: 701224
- **Treatment with a neutrophil elastase inhibitor and ofloxacin reduces P. aeruginosa burden in a mouse model of chronic suppurative otitis media.** *NPJ biofilms and microbiomes*
Khomtchouk, K. M., Joseph, L. I., Khomtchouk, B. B., Kouhi, A., Massa, S., Xia, A., Koliesnik, I., Pletzer, D., Bollyky, P. L., Santa Maria, P. L.
2021; 7 (1): 31
- **Dynamic light scattering microrheology for soft and living materials.** *Soft matter*
Cai, P. C., Krajina, B. A., Kratochvil, M. J., Zou, L., Zhu, A., Burgener, E. B., Bollyky, P. L., Milla, C. E., Webber, M. J., Spakowitz, A. J., Heilshorn, S. C.
2021
- **Skin-specific knockdown of hyaluronan in mice by an optimized topical 4-methylumbelliferone formulation.** *Drug delivery*
Steen, E. H., Short, W. D., Li, H. n., Parikh, U. M., Blum, A. n., Templeman, N. n., Nagy, N. n., Bollyky, P. L., Keswani, S. G., Balaji, S. n.
2021; 28 (1): 422-32
- **Filamentous Bacteriophages and the Competitive Interaction between Pseudomonas aeruginosa Strains under Antibiotic Treatment: a Modeling Study.** *mSystems*
Pourtois, J. D., Kratochvil, M. J., Chen, Q., Haddock, N. L., Burgener, E. B., De Leo, G. A., Bollyky, P. L.
2021: e0019321
- **Bacteriophages and the Immune System.** *Annual review of virology*
Popescu, M. n., Van Belleghem, J. D., Khosravi, A. n., Bollyky, P. L.
2021
- **Calibration of cell-intrinsic interleukin-2 response thresholds guides design of a regulatory T cell biased agonist.** *eLife*
Glassman, C. R., Su, L. n., Majri-Morrison, S. S., Winkelmann, H. n., Mo, F. n., Li, P. n., Pérez-Cruz, M. n., Ho, P. P., Koliesnik, I. n., Nagy, N. n., Hnizdilova, T. n., Picton, L. K., Kovar, et al
2021; 10

- **Plasma Microbial Cell-free DNA Next Generation Sequencing in the Diagnosis and Management of Febrile Neutropenia.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Benamu, E. n., Gajurel, K. n., Anderson, J. N., Lieb, T. n., Gomez, C. A., Seng, H. n., Aquino, R. n., Hollemon, D. n., Hong, D. K., Blauwkamp, T. A., Kertesz, M. n., Blair, L. n., Bollyky, et al
2021
- **Tolerant Small-colony Variants Form Prior to Resistance Within a Staphylococcus aureus Biofilm Based on Antibiotic Selective Pressure.** *Clinical orthopaedics and related research*
Manasherob, R. n., Mooney, J. A., Lowenberg, D. W., Bollyky, P. L., Amanatullah, D. F.
2021
- **The Role of the Anti-Inflammatory Cytokine Interleukin-10 in Tissue Fibrosis.** *Advances in wound care*
Steen, E. H., Wang, X., Balaji, S., Butte, M. J., Bollyky, P. L., Keswani, S. G.
2020; 9 (4): 184-198
- **The Immune Response to Chronic Pseudomonas aeruginosa Wound Infection in Immunocompetent Mice.** *Advances in wound care*
Sweere, J. M., Ishak, H., Sunkari, V., Bach, M. S., Manasherob, R., Yadava, K., Ruppert, S. M., Sen, C. K., Balaji, S., Keswani, S. G., Secor, P. R., Bollyky, P. L.
2020; 9 (2): 35-47
- **Phage Therapy for Limb-threatening Prosthetic Knee Klebsiella pneumoniae Infection: Case Report and In Vitro Characterization of Anti-biofilm Activity.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Cano, E. J., Caflich, K. M., Bollyky, P. L., Van Belleghem, J. D., Patel, R. n., Fackler, J. n., Brownstein, M. J., Horne, B. n., Biswas, B. n., Henry, M. n., Malagon, F. n., Lewallen, D. G., Suh, et al
2020
- **A Delayed Inoculation Model of Chronic Pseudomonas aeruginosa Wound Infection.** *Journal of visualized experiments : JoVE*
de Vries, C. R., Sweere, J. M., Ishak, H. n., Sunkari, V. n., Bach, M. S., Liu, D. n., Manasherob, R. n., Bollyky, P. L.
2020
- **Pf Bacteriophage and Their Impact on Pseudomonas Virulence, Mammalian Immunity, and Chronic Infections.** *Frontiers in immunology*
Secor, P. R., Burgener, E. B., Kinnersley, M. n., Jennings, L. K., Roman-Cruz, V. n., Popescu, M. n., Van Belleghem, J. D., Haddock, N. n., Copeland, C. n., Michaels, L. A., de Vries, C. R., Chen, Q. n., Pourtois, et al
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