




Paul Bollyky

Professor of Medicine (Infectious Diseases) and of Microbiology and Immunology
Medicine - Infectious Diseases

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Infectious Disease**

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Bio

BIO

Dr. Bollyky is an Immunologist and Infectious Disease specialist 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 & Immunology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- 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

Chronic bacterial infections are a major health care problem. We are interested in the microbial and human immune factors that impact the pathogenesis of chronic infections and in developing novel therapeutic interventions to improve human health.

One area of active research is the human immune response to bacteria and bacteriophages. Current efforts are focused on understanding how bacteria interact with monocytes, macrophages, and other cells of the innate immune system to influence pathogen recognition and bacterial clearance. Much of this work focuses on chronic *Pseudomonas* skin and lung infections.

A second area of research involves investigating the contributions of bacteria and bacteriophages in the human body (the bacterial microbiome and the phageome, respectively) in health and disease. We are developing tools to characterize these populations.

A third area of active research involves bacteriophages and bacterial pathogenesis associated with the major human pathogen *Pseudomonas aeruginosa*. We are studying how lysogenic bacteriophages contribute to the development of anti-microbial resistance and the regulation of bacterial virulence factors.

A fourth area of research are bacterial biofilms. These are communities of polymers and bacteria that colonize infected tissues. We are interested in how biofilms modulate human immunity, prevent diffusion of antibiotics, and contribute to chronic *Pseudomonas* skin and lung infections.

A fifth area of research is phage therapy - the use of lytic bacteriophages to treat chronic infections. Phage therapy has outstanding potential to treat antimicrobial-resistant infections but also other diseases associated with the microbiome, including cancer, allergy, and autoimmunity. We're excited to engineer phages and phage delivery platforms to develop novel therapeutics.

A final area of investigation is the tissue extracellular matrix at sites of injury and infection, particularly the role of hyaluronan in innate immunity.

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

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).

We take high school and undergraduate students through the SSRP program: <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, Katherine Nico, Jason Nideffer

Postdoctoral Faculty Sponsor

Qingquan Chen, Grace Cullen, Zhiwei Li, Saumel Perez Rodriguez

Doctoral Dissertation Advisor (AC)

Nana Ansuah Peterson

Postdoctoral Research Mentor

Layla Barkal, Qingquan Chen

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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
- **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
- **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., D#browska, K. n., Vaneechoutte, 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
- **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)
- **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 (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
- **A Case of Persistent Intra-Abdominal <i>Stenotrophomonas maltophilia</i> 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., Karagyozyova, 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): ead15576
- **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., Vlodayvsky, 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
- **The Heparan Sulfate Mimetic PG545 Modulates T Cell Responses and Prevents Delayed-Type Hypersensitivity.** *Frontiers in immunology*
Koliesnik, I. O., Kuipers, H. F., Medina, C. O., Zihlsler, S. n., Liu, D. n., Van Belleghem, J. D., Bollyky, P. L.
2020; 11: 132
- **The Rationale for Using Bacteriophage to Treat and Prevent Periprosthetic Joint Infections.** *Frontiers in microbiology*
Van Belleghem, J. D., Manasherob, R., Mi#dzybrodzki, R., Rogoz, P., Gorski, A., Suh, G. A., Bollyky, P. L., Amanatullah, D. F.
2020; 11: 591021
- **Phages in vaccine design and immunity; mechanisms and mysteries.** *Current opinion in biotechnology*
de Vries, C. R., Chen, Q. n., Demirdjian, S. n., Kaber, G. n., Khosravi, A. n., Liu, D. n., Van Belleghem, J. D., Bollyky, P. L.
2020; 68: 160-65
- **Hyaluronan synthesis inhibition impairs antigen presentation and delays transplantation rejection.** *Matrix biology : journal of the International Society for Matrix Biology*
Marshall, P. L., Nagy, N. n., Kaber, G. n., Barlow, G. L., Ramesh, A. n., Xie, B. J., Linde, M. H., Haddock, N. L., Lester, C. A., Tran, Q. L., de Vries, C. n., Hargil, A. n., Malkovskiy, et al
2020
- **Weekly injection of IL-2 using an injectable hydrogel reduces autoimmune diabetes incidence in NOD mice.** *Diabetologia*
Nagy, N. n., Kaber, G. n., Kratochvil, M. J., Kuipers, H. F., Ruppert, S. M., Yadava, K. n., Yang, J. n., Heilshorn, S. C., Long, S. A., Pugliese, A. n., Bollyky, P. L.
2020
- **The Role of an IL-10/Hyaluronan Axis in Dermal Wound Healing.** *Frontiers in cell and developmental biology*
Singampalli, K. L., Balaji, S. n., Wang, X. n., Parikh, U. M., Kaul, A. n., Gilley, J. n., Birla, R. K., Bollyky, P. L., Keswani, S. G.
2020; 8: 636
- **A novel mouse model of chronic suppurative otitis media and its use in preclinical antibiotic evaluation.** *Science advances*
Khomtchouk, K. M., Kouhi, A. n., Xia, A. n., Bekale, L. A., Massa, S. M., Sweere, J. M., Pletzer, D. n., Hancock, R. E., Bollyky, P. L., Santa Maria, P. L.
2020; 6 (33): eabc1828
- **Methods for Extraction and Detection of Pf Bacteriophage DNA from the Sputum of Patients with Cystic Fibrosis.** *PHAGE (New Rochelle, N.Y.)*
Burgener, E. B., Secor, P. R., Tracy, M. C., Sweere, J. M., Bik, E. M., Milla, C. E., Bollyky, P. L.
2020; 1 (2): 100-108
- **High molecular weight hyaluronan attenuates tubulointerstitial scarring in kidney injury.** *JCI insight*

- Wang, X. n., Balaji, S. n., Steen, E. H., Blum, A. J., Li, H. n., Chan, C. K., Manson, S. R., Lu, T. C., Rae, M. M., Austin, P. F., Wight, T. N., Bollyky, P. L., Cheng, 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
2020; 11: 244
 - **T Lymphocytes Attenuate Dermal Scarring by Regulating Inflammation, Neovascularization, and Extracellular Matrix Remodeling.** *Advances in wound care*
Wang, X., Balaji, S., Steen, E. H., Li, H., Rae, M. M., Blum, A. J., Miao, Q., Butte, M. J., Bollyky, P. L., Keswani, S. G.
2019; 8 (11): 527-537
 - **Quantitative assessment of bacterial growth phase utilizing flow cytometry.** *Journal of microbiological methods*
Khomtchouk, K. M., Weglarz, M., Bekale, L. A., Kolesnik, I., Bollyky, P. L., Santa Maria, P. L.
2019: 105760
 - **Hydrogel-based delivery of Il-10 improves treatment of bleomycin-induced lung fibrosis in mice** *BIOMATERIALS*
Shamskhov, E. A., Kratochvil, M. J., Orcholski, M. E., Nagy, N., Kaber, G., Steen, E., Balaji, S., Yuan, K., Keswani, S., Danielson, B., Gao, M., Medina, C., Nathan, et al
2019; 203: 52–62
 - **4-Methylumbelliferyl glucuronide contributes to hyaluronan synthesis inhibition.** *The Journal of biological chemistry*
Nagy, N., Gurevich, I., Kuipers, H. F., Ruppert, S. M., Marshall, P. L., Xie, B. J., Sun, W., Malkovskiy, A. V., Rajadas, J., Grandoch, M., Fischer, J. W., Frymoyer, A. R., Kaber, et al
2019
 - **Perspectives of Phage Therapy in Non-bacterial Infections** *FRONTIERS IN MICROBIOLOGY*
Gorski, A., Bollyky, P. L., Przybylski, M., Borysowski, J., Miedzybrodzki, R., Jonczyk-Matysiak, E., Weber-Dabrowska, B.
2019; 9
 - **The Innate Sense of Bacteriophages.** *Cell host & microbe*
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