



Upinder Singh

Stanford Medicine Professor of Infectious Disease and Professor of Medicine (Infectious Diseases & Geographic Medicine), Emerita
Medicine - Infectious Diseases

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Infectious Diseases
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Chair, Faculty Development, Department of Medicine, (2020-2024)
- Division Chief, Infectious Diseases and Geographic Medicine, (2010-2024)
- Fellowship Co-Director, Division of Infectious Diseases, (2008-2013)

HONORS AND AWARDS

- Member, ASCI (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, Center for Innovation in Global Health, Stanford University (2015 - present)

PROFESSIONAL EDUCATION

- BS, Ohio State University , Biochemistry (1987)
- MD, Ohio State University , Medicine (1992)

COMMUNITY AND INTERNATIONAL WORK

- Investigating *E. histolytica* genetic diversity, Bangladesh and Georgia

LINKS

- Singh lab website: <http://singhlab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr Singh studies the molecular basis of pathogenesis of a medically important parasite, *Entamoeba histolytica*. The work is aimed at understanding the virulence determinants that *E. histolytica* utilizes in causing invasive colonic and hepatic disease. Using a combination of genetic and genomic

approaches we are identifying novel mechanisms that the parasite has developed for invading the human host. Additionally, we study the epidemiological trends of of amebic infection, with the goal of identifying a parasite molecular signature that correlates with invasive potential.

CLINICAL TRIALS

- ACTIV-6: COVID-19 Study of Repurposed Medications, Recruiting
- A Study to Evaluate Efficacy and Safety of Casirivimab+Imdevimab (Monoclonal Antibodies) for Prevention of COVID-19 in Immunocompromised Adolescents and Adults, Not Recruiting
- ACTIV-2: A Study for Outpatients With COVID-19, Not Recruiting
- COVID-19 Outpatient Pragmatic Platform Study (COPPS) - Master Protocol, Not Recruiting
- Oral Camostat Compared With Standard Supportive Care in Mild-Moderate COVID-19 Patients, Not Recruiting
- Oral Favipiravir Compared to Placebo in Subjects With Mild COVID-19, Not Recruiting
- Paxlovid for Treatment of Long Covid, Not Recruiting
- Safety, Tolerability, and Efficacy of Anti-Spike (S) SARS-CoV-2 Monoclonal Antibodies for the Treatment of Ambulatory Adult and Pediatric Patients With COVID-19, Not Recruiting
- Single-Blind Study of a Single Dose of Peginterferon Lambda-1a Compared With Placebo in Outpatients With Mild COVID-19, Not Recruiting
- Understanding the Long-term Impact of COVID-19 in Adults (RECOVER), Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)
- Microbiology and Immunology (Phd Program)

Publications

PUBLICATIONS

- **Metformin on the Presence of COVID-19 Symptoms 6 Months after Infection: The ACTIV-6 Randomized Clinical Trial.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Bramante, C. T., Stewart, T. G., Boulware, D. R., McCarthy, M. W., Gao, Y., Rothman, R. L., Mourad, A., Thicklin, F., Cohen, J. B., Garcia Del Sol, I. T., Shah, N. S., Mehta, M., Quintero Cardona, et al
2026
- **Effect of inhaled interferon- β 1a on SARS-CoV-2 diversity and evolution.** *Microbiology spectrum*
Edelstein, G. E., Sass, T. N., Deo, R., Glover, O. T., Boucau, J., Jaganathan, P., Chew, K. W., Giganti, M. J., Hughes, M. D., Moser, C., Javan, A. C., Fletcher, C. V., McCarthy, et al
2026: e0054126
- **Impact of Sex on Viral Shedding and Symptom Severity During Acute COVID-19.** *Pathogens & immunity*
Kung, E., Deo, R., Choudhary, M. C., Chew, K. W., Evering, T. H., Ignacio, R. B., Jagannathan, P., Flynn, J. P., Regan, J., Moser, C., Giganti, M. J., Hughes, M. D., Ritz, et al
2026; 11 (1): 142-153
- **Viral shedding and symptom severity across populations during acute COVID in the ACTIV-2 study.** *medRxiv : the preprint server for health sciences*
Kung, E., Deo, R., Choudhary, M. C., Chew, K. W., Evering, T. H., Ignacio, R. B., Jagannathan, P., Flynn, J. P., Regan, J., Moser, C., Giganti, M. J., Hughes, M. D., Ritz, et al
2026
- **Long COVID trajectories in the prospectively followed RECOVER-Adult US cohort.** *Nature communications*
Thaweethai, T., Donohue, S. E., Martin, J. N., Hornig, M., Mosier, J. M., Shinnick, D. J., Ashktorab, H., Atieh, O., Blomkalns, A., Brim, H., Chen, Y., Cortez, M. M., Erdmann, et al
2025; 16 (1): 9557

- **Evaluation of Interventions for Cognitive Symptoms in Long COVID: A Randomized Clinical Trial.** *JAMA neurology*
Knopman, D. S., Koltai, D., Laskowitz, D., Becker, J., Charvet, L., Wisnivesky, J., Federman, A., Silverstein, A., Lokhnygina, Y., Piloni, G., Haddad, M., Mahncke, H., Van Vleet, et al
2025
- **BRIDGING DIVISIONS: ASSESSING COHORT-BASED PEER MENTORSHIP FOR EARLY-CAREER FACULTY IN ACADEMIC MEDICINE**
Ye, G., Anand, S., Artandi, M., Collins, W., Go, M., Nguyen, L., Wang, P., Weng, W., Ramchandran, K., Singh, U.
SPRINGER.2025: S490
- **Longitudinal Patient-Reported Outcome Trajectories in Long COVID: Findings From the STOP-PASC Clinical Trial.** *Open forum infectious diseases*
Jagannathan, P., Hedlin, H., Liang, J. W., Shaw, B., Maestri, E., Lin, M., Utz, P. J., Singh, U., Geng, L. N., Bonilla, H.
2025; 12 (10): ofaf634
- **Wearable-derived Sleep Measurements are Associated with Long-COVID in the RECOVER Adult Cohort.** *Research square*
Parthasarathy, S., Brosnahan, S., Sieberts, S., Neto, E., Li, Y., Tummalacherla, M., Brown, H., Chow, S., Dunn, J., Haack, M., Islam, S. M., Jacobs-Diggs, M., Jiang, et al
2025
- **Olfactory Dysfunction After SARS-CoV-2 Infection in the RECOVER Adult Cohort.** *JAMA network open*
Horwitz, L. I., Becker, J. H., Huang, W., Akintonwa, T., Hornig-Rohan, M. M., Maranga, G., Adams, D. R., Albers, M. W., Ayache, M., Berry, J., Brim, H., Bryan, T. W., Charney, et al
2025; 8 (9): e2533815
- **Age-Related Changes in the Clinical Picture of Long COVID.** *Journal of the American Geriatrics Society*
Fain, M. J., Horne, B. D., Horwitz, L. I., Thaweethai, T., Greene, M., Hornig, M., Orkaby, A. R., Rosen, C., Ritchie, C. S., Ashktorab, H., Blachman, N., Brim, H., Emerson, et al
2025
- **Single-Cell and Plasma Proteomics Do Not Differentiate Patients With and Without SARS-CoV-2 Antigenemia in Convalescence in a Cohort of 100 Patients.** *Open forum infectious diseases*
Pienkos, S., Swank, Z., Hamlin, R. E., Rao, M., Grant, P., Bonilla, H., Jacobson, K., Jagannathan, P., Singh, U., Walt, D. R., Subramanian, A., Blish, C.
2025; 12 (9): ofaf515
- **Digital Biometric Measures in Long COVID: A Secondary Analysis of the STOP-PASC Randomized Clinical Trial.** *JAMA network open*
Gunturkun, F., Hedlin, H., Botzheim, B., Deng, Y., Bonilla, H., Jagannathan, P., Quach, T. C., Kim, S., Lin, M., O'Riordan, G., Tzeng, H., Adamowicz, L., Demanuele, et al
2025; 8 (8): e2526901
- **Social Determinants of Health and Risk for Long COVID in the U.S. RECOVER-Adult Cohort.** *Annals of internal medicine*
Feldman, C. H., Santacroce, L., Bassett, I. V., Thaweethai, T., Alicic, R., Atchley-Challenner, R., Chung, A., Goldberg, M. P., Horowitz, C. R., Jacobson, K. B., Kelly, J. D., Knight, S., Lutrick, et al
2025
- **Metformin and Time to Sustained Recovery in Adults With COVID-19: The ACTIV-6 Randomized Clinical Trial.** *JAMA internal medicine*
Bramante, C. T., Stewart, T. G., Boulware, D. R., McCarthy, M. W., Gao, Y., Rothman, R. L., Mourad, A., Thicklin, F., Cohen, J. B., Garcia Del Sol, I. T., Ruiz-Unger, J., Shah, N. S., Mehta, et al
2025
- **Efficacy and safety of obeldesivir in low-risk, non-hospitalised patients with COVID-19 (OAKTREE): a phase 3, randomised, double-blind, placebo-controlled study.** *The Lancet. Infectious diseases*
Ogbuagu, O., Goldman, J. D., Gottlieb, R. L., Singh, U., Shinkai, M., Acloque, G., Fusco, D. N., Gonzalez, E., Kumar, P., Luetkemeyer, A., Lichtman, A., Mozaffarian, A., Koullias, et al
2025
- **Exploring virulence and stress response in Entamoeba histolytica: insights from clinical strains.** *Microbiology spectrum*
Yanagawa, Y., Sharma, M., Izumiyama, S., Singh, U.
2025: e0050625
- **Obeldesivir for Treatment of COVID-19 in Adults and Adolescents Without Risk Factors for Progression to Severe Disease: the OAKTREE Study**

- Ogbuagu, O., Goldman, J. D., Gottlieb, R. L., Singh, U., Shinkai, M., Acloque, G., Fusco, D., Gonzalez, E., Kumar, P. N., Luetkemeyer, A., Lichtman, A., Mozaffarian, A., Koullias, et al
OXFORD UNIV PRESS INC.2025: S1210
- **Role of tRNA-Derived Fragments in Protozoan Parasite Biology.** *Cells*
Sharma, M., Singh, U.
2025; 14 (2)
 - **Sex Differences in Long COVID.** *JAMA network open*
Shah, D. P., Thaweethai, T., Karlson, E. W., Bonilla, H., Horne, B. D., Mullington, J. M., Wisnivesky, J. P., Hornig, M., Shinnick, D. J., Klein, J. D., Erdmann, N. B., Brosnahan, S. B., Lee-Iannotti, et al
2025; 8 (1): e2455430
 - **2024 Update of the RECOVER-Adult Long COVID Research Index.** *JAMA*
Geng, L. N., Erlandson, K. M., Hornig, M., Letts, R., Selvaggi, C., Ashktorab, H., Atieh, O., Bartram, L., Brim, H., Brosnahan, S. B., Brown, J., Castro, M., Charney, et al
2024
 - **2024 Update of the RECOVER-Adult Long COVID Research Index** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Geng, L. N., Erlandson, K. M., Hornig, M., Letts, R., Selvaggi, C., Ashktorab, H., Atieh, O., Bartram, L., Brim, H., Brosnahan, S. B., Brown, J., Castro, M., Charney, et al
2024
 - **Identification of two transcription factors that work coordinately to regulate early development inEntamoeba.** *mBio*
Lozano-Amado, D., Singh, U.
2024: e0225024
 - **Sex differences and immune correlates of Long Covid development, symptom persistence, and resolution.** *Science translational medicine*
Hamlin, R. E., Pienkos, S. M., Chan, L., Stabile, M. A., Pinedo, K., Rao, M., Grant, P., Bonilla, H., Holubar, M., Singh, U., Jacobson, K. B., Jagannathan, P., Maldonado, et al
2024; 16 (773): eadr1032
 - **Engaging communities in therapeutics clinical research during pandemics: Experiences and lessons from the ACTIV COVID-19 therapeutics research initiative** *JOURNAL OF CLINICAL AND TRANSLATIONAL SCIENCE*
Wohl, D. A., Adam, S. J., Gibbs, K. W., Moskowitz, A. L., Ortel, T. L., Singh, U., Jilg, N., Evering, T. H., Fischer, W. A., Taiwo, B. O., Daar, E. S., Lindsell, C. J., Naggie, et al
2024; 8 (1)
 - **Engaging communities in therapeutics clinical research during pandemics: Experiences and lessons from the ACTIV COVID-19 therapeutics research initiative.** *Journal of clinical and translational science*
Wohl, D. A., Adam, S. J., Gibbs, K. W., Moskowitz, A. L., Ortel, T. L., Singh, U., Jilg, N., Evering, T. H., Fischer, W. A., Taiwo, B. O., Daar, E. S., Lindsell, C. J., Naggie, et al
2024; 8 (1): e156
 - **Time to Sustained Recovery Among Outpatients With COVID-19 Receiving Montelukast vs Placebo: The ACTIV-6 Randomized Clinical Trial.** *JAMA network open*
Rothman, R. L., Stewart, T. G., Mourad, A., Boulware, D. R., McCarthy, M. W., Thicklin, F., Garcia Del Sol, I. T., Garcia, J. L., Bramante, C. T., Shah, N. S., Singh, U., Williamson, J. C., Rebolledo, et al
2024; 7 (10): e2439332
 - **Differentiation of Prior SARS-CoV-2 Infection and Postacute Sequelae by Standard Clinical Laboratory Measurements in the RECOVER Cohort.** *Annals of internal medicine*
Erlandson, K. M., Geng, L. N., Selvaggi, C. A., Thaweethai, T., Chen, P., Erdmann, N. B., Goldman, J. D., Henrich, T. J., Hornig, M., Karlson, E. W., Katz, S. D., Kim, C., Cribbs, et al
2024
 - **Sex differences and immune correlates of Long COVID development, persistence, and resolution.** *bioRxiv : the preprint server for biology*
Hamlin, R. E., Pienkos, S. M., Chan, L., Stabile, M. A., Pinedo, K., Rao, M., Grant, P., Bonilla, H., Holubar, M., Singh, U., Jacobson, K. B., Jagannathan, P., Maldonado, et al
2024

- **Nirmatrelvir-Ritonavir and Symptoms in Adults With Postacute Sequelae of SARS-CoV-2 Infection: The STOP-PASC Randomized Clinical Trial.** *JAMA internal medicine*
Geng, L. N., Bonilla, H., Hedlin, H., Jacobson, K. B., Tian, L., Jagannathan, P., Yang, P. C., Subramanian, A. K., Liang, J. W., Shen, S., Deng, Y., Shaw, B. J., Botzheim, et al
2024
- **Development of a Definition of Postacute Sequelae of SARS-CoV-2 Infection (vol 329, pg 1934, 2023)** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Thaweethai, T., Jolley, S. E., Karlson, E. W., Levitan, E. B., Levy, B., McComsey, G. A., McCorkell, L., Nadkarni, G. N., Parthasarathy, S., Singh, U., Walker, T. A., Selvaggi, C. A., Shinnick, et al
2024
- **2023: Looking Back and Looking Ahead** *JOURNAL OF INFECTIOUS DISEASES*
Li, J. Z., Clancy, C. J., Singh, U., Sears, C. L.
2024: 619-620
- **Extracellular Vesicles Derived From *Entamoeba histolytica* Have an Immunomodulatory Effect on THP-1 Macrophages.** *Journal of parasitology research*
Chowdhury, D., Sharma, M., Jahng, J. W., Singh, U.
2024; 2024: 7325606
- **Higher-Dose Fluvoxamine and Time to Sustained Recovery in Outpatients With COVID-19: The ACTIV-6 Randomized Clinical Trial.** *JAMA*
Stewart, T. G., Rebolledo, P. A., Mourad, A., Lindsell, C. J., Boulware, D. R., McCarthy, M. W., Thicklin, F., Garcia Del Sol, I. T., Bramante, C. T., Lenert, L. A., Lim, S., Williamson, J. C., Cardona, et al
2023
- **Safety and efficacy of inhaled interferon- β 1a (SNG001) in adults with mild-to-moderate COVID-19: a randomized, controlled, phase II trial.** *EClinicalMedicine*
Jagannathan, P., Chew, K. W., Giganti, M. J., Hughes, M. D., Moser, C., Main, M. J., Monk, P. D., Javan, A. C., Li, J. Z., Fletcher, C. V., McCarthy, C., Wohl, D. A., Daar, et al
2023; 65: 102250
- **Extracellular Vesicles and Their Impact on the Biology of Protozoan Parasites.** *Tropical medicine and infectious disease*
Sharma, M., Lozano-Amado, D., Chowdhury, D., Singh, U.
2023; 8 (9)
- **The Tomato Brown Rugose Fruit Virus Movement Protein Gene Is a Novel Microbial Source Tracking Marker.** *Applied and environmental microbiology*
Natarajan, A., Fremin, B. J., Schmidtke, D. T., Wolfe, M. K., Zlitni, S., Graham, K. E., Brooks, E. F., Severyn, C. J., Sakamoto, K. M., Lacayo, N. J., Kuersten, S., Koble, J., Caves, et al
2023: e0058323
- **Researching COVID to Enhance Recovery (RECOVER) adult study protocol: Rationale, objectives, and design.** *PloS one*
Horwitz, L. I., Thaweethai, T., Brosnahan, S. B., Cicek, M. S., Fitzgerald, M. L., Goldman, J. D., Hess, R., Hodder, S. L., Jacoby, V. L., Jordan, M. R., Krishnan, J. A., Laiyemo, A. O., Metz, et al
2023; 18 (6): e0286297
- **Transparent Reporting at the Journal of Infectious Diseases.** *The Journal of infectious diseases*
Clancy, C. J., Li, J. Z., Singh, U., Sears, C. L.
2023
- **Diversity and Plasticity of Virulent Characteristics of *Entamoeba histolytica*.** *Tropical medicine and infectious disease*
Yanagawa, Y., Singh, U.
2023; 8 (5)
- **Stress Response in *Entamoeba histolytica* Is Associated with Robust Processing of tRNA to tRNA Halves.** *mBio*
Sharma, M., Zhang, H., Ehrenkauf, G., Singh, U.
2023: e0345022
- **Autoantibodies are highly prevalent in non-SARS-CoV-2 respiratory infections and critical illness.** *JCI insight*

- Feng, A., Yang, E. Y., Moore, A. R., Dhingra, S., Chang, S. E., Yin, X., Pi, R., Mack, E. K., Völkel, S., Geßner, R., Gündisch, M., Neubauer, A., Renz, et al
2023; 8 (3)
- **Challenges in Harnessing Shared Within-Host Severe Acute Respiratory Syndrome Coronavirus 2 Variation for Transmission Inference.** *Open forum infectious diseases*
Walter, K. S., Kim, E., Verma, R., Altamirano, J., Leary, S., Carrington, Y. J., Jagannathan, P., Singh, U., Holubar, M., Subramanian, A., Khosla, C., Maldonado, Y., Andrews, et al
2023; 10 (2): ofad001
 - **Effect of Fluvoxamine vs Placebo on Time to Sustained Recovery in Outpatients With Mild to Moderate COVID-19: A Randomized Clinical Trial.** *JAMA*
McCarthy, M. W., Naggie, S., Boulware, D. R., Lindsell, C. J., Stewart, T. G., Felker, G. M., Jayaweera, D., Sulkowski, M., Gentile, N., Bramante, C., Singh, U., Dolor, R. J., Ruiz-Unger, et al
2023
 - **Development of a Definition of Postacute Sequelae of SARS-CoV-2 Infection.** *JAMA*
Thaweethai, T., Jolley, S. E., Karlson, E. W., Levitan, E. B., Levy, B., McComsey, G. A., McCorkell, L., Nadkarni, G. N., Parthasarathy, S., Singh, U., Walker, T. A., Selvaggi, C. A., Shinnick, et al
2023
 - **Turning the page: a welcome from the new leadership of the Journal of Infectious Diseases.** *The Journal of infectious diseases*
Sears, C. L., Li, J. Z., Singh, U.
2022; 227 (1): 1-3
 - **Early immune markers of clinical, virological, and immunological outcomes in patients with COVID-19: a multi-omics study.** *eLife*
Hu, Z., van der Ploeg, K., Chakraborty, S., Arunachalam, P. S., Mori, D. A., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Holubar, M., Subramanian, A., Khosla, C., Maldonado, et al
2022; 11
 - **Successful recruitment of monolingual Spanish speaking Latinos to university phase II and III outpatient COVID-19 clinical treatment trials in Northern California.** *Contemporary clinical trials*
Levy, V., Bengoa, R. Y., Romero, P. P., Bollyky, J., Singh, U.
2022: 106891
 - **TNF-alpha+ CD4+ T cells dominate the SARS-CoV-2 specific T cell response in COVID-19 outpatients and are associated with durable antibodies.** *Cell reports. Medicine*
van der Ploeg, K., Kiro Singh, A. S., Mori, D. A., Chakraborty, S., Hu, Z., Sievers, B. L., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Press, K. D., Ty, M. C., Ruiz-Betancourt, et al
2022: 100640
 - **Favipiravir for treatment of outpatients with asymptomatic or uncomplicated COVID-19: a double-blind randomized, placebo-controlled, phase 2 trial.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Holubar, M., Subramanian, A., Purington, N., Hedlin, H., Bunning, B., Walter, K. S., Bonilla, H., Boumis, A., Chen, M., Clinton, K., Dewhurst, L., Epstein, C., Jagannathan, et al
2022
 - **Gastrointestinal symptoms and fecal shedding of SARS-CoV-2 RNA suggest prolonged gastrointestinal infection.** *Med (New York, N.Y.)*
Natarajan, A., Zlitni, S., Brooks, E. F., Vance, S. E., Dahlen, A., Hedlin, H., Park, R. M., Han, A., Schmidtke, D. T., Verma, R., Jacobson, K. B., Parsonnet, J., Bonilla, et al
2022
 - **Early immune responses have long-term associations with clinical, virologic, and immunologic outcomes in patients with COVID-19.** *Research square*
Hu, Z., van der Ploeg, K., Chakraborty, S., Arunachalam, P., Mori, D., Jacobson, K., Bonilla, H., Parsonnet, J., Andrews, J., Hedlin, H., de la Parte, L., Dantzier, K., Ty, et al
2022
 - **SARS-CoV-2 Neutralizing Monoclonal Antibodies for the Treatment of COVID-19 in Kidney Transplant Recipients.** *Kidney360*
Wang, A. X., Busque, S., Kuo, J., Singh, U., Roeltgen, K., Pinsky, B. A., Chertow, G. M., Scandling, J. D., Lenihan, C. R.
2022; 3 (1): 133-143

- **Autoantibodies targeting cytokines and connective tissue disease autoantigens are common in acute non-SARS-CoV-2 infections.** *Research square*
Feng, A., Yang, E., Moore, A., Dhingra, S., Chang, S., Yin, X., Pi, R., Mack, E., Völkel, S., Geßner, R., Gundisch, M., Neubauer, A., Renz, et al
2022
- **Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.** *Science translational medicine*
Chakraborty, S., Gonzalez, J. C., Sievers, B. L., Mallajosyula, V., Chakraborty, S., Dubey, M., Ashraf, U., Cheng, B. Y., Kathale, N., Tran, K. Q., Scallan, C., Sinnott, A., Cassidy, et al
1800: eabm7853
- **Antibodies elicited by SARS-CoV-2 infection or mRNA vaccines have reduced neutralizing activity against Beta and Omicron pseudoviruses.** *Science translational medicine*
Sievers, B. L., Chakraborty, S., Xue, Y., Gelbart, T., Gonzalez, J. C., Cassidy, A. G., Golan, Y., Prah, M., Gaw, S. L., Arunachalam, P. S., Blish, C. A., Boyd, S. D., Davis, et al
1800: eabn7842
- **Long Term Accuracy of SARS-CoV-2 Interferon-γ Release Assay and its Application in Household Investigation.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Murugesan, K., Jagannathan, P., Altamirano, J., Maldonado, Y. A., Bonilla, H. F., Jacobson, K. B., Parsonnet, J., Andrews, J. R., Shi, R. Z., Boyd, S., Pinsky, B. A., Singh, U., Banaei, et al
2022
- **Variation in Severe Acute Respiratory Syndrome Coronavirus 2 Bioaerosol Production in Exhaled Breath.** *Open forum infectious diseases*
Verma, R., Kim, E., Degner, N., Walter, K. S., Singh, U., Andrews, J. R.
2022; 9 (1): ofab600
- **Ponatinib, Lestaurtinib and mTOR/PI3K inhibitors are promising repurposing candidates against Entamoeba histolytica.** *Antimicrobial agents and chemotherapy*
Kangussu-Marcolino, M. M., Singh, U.
2021: AAC0120721
- **New-onset IgG autoantibodies in hospitalized patients with COVID-19.** *Nature communications*
Chang, S. E., Feng, A., Meng, W., Apostolidis, S. A., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al
2021; 12 (1): 5417
- **RISC in Entamoeba histolytica: Identification of a Protein-Protein Interaction Network for the RNA Interference Pathway in a Deep-Branching Eukaryote.** *mBio*
Zhang, H., Veira, J., Bauer, S. T., Yip, C., Singh, U.
2021: e0154021
- **New-Onset IgG Autoantibodies in Hospitalized Patients with COVID-19**
Chang, S., Feng, A., Meng, W., Apostolidis, S., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al
WILEY.2021: 3202-3205
- **The COVID-19 Outpatient Pragmatic Platform Study (COPPS): Study design of a multi-center pragmatic platform trial.** *Contemporary clinical trials*
Bunning, B., Hedlin, H., Purington, N., Sundaram, V., Kapphahn, K., Weng, Y., Cunanan, K., Maldonado, Y., Singh, U., Khosla, C., O'Hara, R., Nicolls, M., Springman, et al
2021: 106509
- **Standardized and optimized preservation, extraction and quantification techniques for detection of fecal SARS-CoV-2 RNA.** *medRxiv : the preprint server for health sciences*
Natarajan, A., Han, A., Zlitni, S., Brooks, E. F., Vance, S. E., Wolfe, M., Singh, U., Jagannathan, P., Pinsky, B. A., Boehm, A., Bhatt, A. S.
2021
- **Patients with uncomplicated COVID-19 have long-term persistent symptoms and functional impairment similar to patients with severe COVID-19: a cautionary tale during a global pandemic.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Jacobson, K. B., Rao, M., Bonilla, H., Subramanian, A., Hack, I., Madrigal, M., Singh, U., Jagannathan, P., Grant, P.

2021

- **Peginterferon Lambda-1a for treatment of outpatients with uncomplicated COVID-19: a randomized placebo-controlled trial.** *Nature communications*
Jagannathan, P. n., Andrews, J. R., Bonilla, H. n., Hedlin, H. n., Jacobson, K. B., Balasubramanian, V. n., Purington, N. n., Kamble, S. n., de Vries, C. R., Quintero, O. n., Feng, K. n., Ley, C. n., Winslow, et al
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