

RGPO Emergency COVID-19 Research Seed Funding Awards Selected List of Publications from Funded Awards

Ayers JW, Leas EC, Johnson DC, et al. [Internet Searches for Acute Anxiety During the Early Stages of the COVID-19 Pandemic](#). *JAMA Intern Med*. Published online August 24, 2020. doi:10.1001/jamainternmed.2020.3305

Buckner, Jack H., Chowell, Gerardo, Springborn, Michael R. [Dynamic prioritization of COVID-19 vaccines when social distancing is limited for essential workers](#). Proceedings of the National Academy of Sciences Apr 2021, 118 (16) e2025786118; doi: 10.1073/pnas.2025786118

Carlile M, Hurt B, Hsiao A, Hogarth M, Longhurst CA, Dameff C. [Deployment of artificial intelligence for radiographic diagnosis of COVID-19 pneumonia in the emergency department](#). *JACEP Open*. 2020;1:1459–1464. doi:10.1002/emp2.12297

Chakladar, J., Shende, N., Li, W.T., Rajasekaran, M., Chang, E.Y., Ongkeko, W.M. [Smoking-Mediated Upregulation of the Androgen Pathway Leads to Increased SARS-CoV-2 Susceptibility](#). *Int. J. Mol. Sci*. 2020, 21, 3627. doi: 10.3390/ijms21103627

Chambers C, Krogstad P, Bertrand K, et al. [Evaluation for SARS-CoV-2 in Breast Milk From 18 Infected Women](#). *JAMA*. Published online August 19, 2020. doi:10.1001/jama.2020.15580

Daniels, Lori B.; Sitapati, Amy M.; Zhang, Jing; Zou, Jingjing; Bui, Quan M.; Ren, Junting; Longhurst, Christopher A.; Criqui, Michael H.; Messer, Karen. [Relation of Statin Use Prior to Admission to Severity and Recovery Among COVID-19 Inpatients](#). *The American Journal of Cardiology* 136, 149–155. <https://doi.org/10.1016/j.amjcard.2020.09.012>.

Fernandes, J.D., Hinrichs, A.S., Clawson, H. et al. [The UCSC SARS-CoV-2 Genome Browser](#). *Nat Genet* 52, 991–998 (2020). <https://doi.org/10.1038/s41588-020-0700-8>

Flower, T., Buffalo, C., Hooy, R., Allaire, M., Ren, X., Hurley, J.. [Structure of SARS-CoV-2 ORF8, a rapidly evolving immune evasion protein](#). Proceedings of the National Academy of Sciences Jan 2021, 118 (2) e2021785118; doi: 10.1073/pnas.2021785118

Lee, A.C., Chakladar, J., Li, W.T., Chen, C., Chang, E.Y., Wang-Rodriguez, J., Ongkeko, W.M. [Tobacco, but Not Nicotine and Flavor-Less Electronic Cigarettes, Induces ACE2 and Immune Dysregulation](#). *Int. J. Mol. Sci*. 2020, 21, 5513. doi: 10.3390/ijms21155513

Purkayastha, A., Sen, C., Garcia Jr., G., Langerman, J., Shia, D.W., Meneses, L.K., Vijayaraj, P., Durra, A., Koloff, C.R., Freund, D.R., Chi, J., Rickabaugh, T.M., Mulay, A., Konda, B., Sim, M.S., Stripp, B.R., Plath, K., Arumugaswami, V., Gomperts, B.N., [Direct exposure to SARS-CoV-2 and cigarette smoke increases infection severity and alters the stem cell-derived airway repair response](#), *Stem Cell* (2020), doi: <https://doi.org/10.1016/j.stem.2020.11.010>

Shah SH, Garg AK, Patel S, Yim W, Jokerst JV, Chao DL. [Assessment of Respiratory Droplet Transmission During the Ophthalmic Slit-Lamp Exam: A Particle Tracking Analysis](#). *Am J Ophthalmol*. 2020 Sep 25;222:76-81. doi: 10.1016/j.ajo.2020.08.046. Epub ahead of print.

Shiv H Patel, Wonjun Yim, Anupam K Garg, Sahil H Shah, Jesse V Jokerst, Daniel L Chao; *J Clin Med*. 2020 Sep 17;9(9):3002. [Assessing the Physiological Relevance of Cough Simulators for Respiratory Droplet Dispersion](#); doi: 10.3390/jcm9093002

Telwatte S, Kumar N, Vallejo-Gracia A, et al. [Novel RT-ddPCR assays for simultaneous quantification of multiple noncoding and coding regions of SARS-CoV-2 RNA](#). *J Virol Methods*. 2021;292:114115. doi:10.1016/j.jviromet.2021.114115

Telwatte, S, Martin, H.A., Marczak, R., Fozouni, P., Vallejo-Gracia, A., Kumar, G.R., Murray, V., Lee, S., Ott, M., Wong, J.K., Yukl, S.A. [Novel RT-ddPCR assays for measuring the levels of subgenomic and genomic SARS-CoV-2 transcripts](#), *Methods* (2021), doi:10.1016/j.ymeth.2021.04.011

Torrente-Rodriguez RM, Lukas H, Tu J, Min J, Yang Y, Xu C, Rossiter HB, Gao W. [SARS-CoV-2 RapidPlex: A Graphene-based Multiplexed Telemedicine Platform for Rapid and Low-Cost COVID-19 Diagnosis and Monitoring](#). *Matter* (2020). doi: 10.1016/j.matt.2020.09.027

Weill JA., Stigler M., Deschenes O., Springborn MR. [Social distancing responses to COVID-19 emergency declarations strongly differentiated by income](#) [published online ahead of print, 2020 Jul 29]. *Proc Natl Acad Sci USA*. 2020; 202009412. doi:10.1073/pnas.2009412117

Wonjun Yim, Diyi Cheng, Shiv H Patel, Rui Kou, Ying Shirley Meng, Jesse V Jokerst. *ACS Appl Mater Interfaces*. 2020 Dec 9;12(49):54473-54480. [KN95 and N95 Respirators Retain Filtration Efficiency despite a Loss of Dipole Charge during Decontamination](#); doi: 10.1021/acsami.0c17333