

# Stanford

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## James Robert Zengel

Postdoctoral Scholar, Microbiology and Immunology

### Bio

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#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Georgia (2017)

### Publications

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#### PUBLICATIONS

- **Genome-wide bidirectional CRISPR screens identify mucins as host factors modulating SARS-CoV-2 infection.** *Nature genetics*  
Biering, S. B., Sarnik, S. A., Wang, E., Zengel, J. R., Leist, S. R., Schafer, A., Sathyan, V., Hawkins, P., Okuda, K., Tau, C., Jangid, A. R., Duffy, C. V., Wei, et al  
2022
- **Immunogenicity of Mumps Virus Genotype G Vaccine Candidates in Jeryl Lynn-Immunized Mice** *JOURNAL OF VIROLOGY*  
Briggs, K., Kirby, C., Beavis, A. C., Zengel, J., Patil, P., Sauder, C., He, B.  
2022: e0198321
- **GENOME-WIDE, BIDIRECTIONAL CRISPR SCREENS IDENTIFY MUCINS AS CRITICAL MODULATORS OF SARS-COV-2 INFECTION**  
Biering, S. B., Sarnik, S., Wang, E., Sathyan, V., Nguyenla, X., Zengel, J., Van Dis, E., Yamashiro, L., Kim, J., Fox, D., Carette, J., Stanley, S., Konermann, et al  
AMER SOC TROP MED & HYGIENE.2021: 151
- **Cracking the cell access code for a deadly virus** *NATURE*  
Zengel, J., Carette, J. E.  
2020; 588 (7837): 223–24
- **Regulation of Mumps Virus Replication and Transcription by Kinase RPS6KB1** *JOURNAL OF VIROLOGY*  
Briggs, K., Wang, L., Nagashima, K., Zengel, J., Tripp, R. A., He, B.  
2020; 94 (12)
- **Hardwiring Tissue-Specific AAV Transduction in Mice Through Engineered AAVR Expression**  
Zengel, J., Puschnik, A. S., Pillay, S., Nagamine, C. M., Carette, J. E.  
CELL PRESS.2020: 253
- **Cracking the cell access code for the deadly virus VEEV.** *Nature*  
Zengel, J. n., Carette, J. E.  
2020; 588 (7837): 223–24
- **Structural and cellular biology of adeno-associated virus attachment and entry.** *Advances in virus research*  
Zengel, J. n., Carette, J. E.  
2020; 106: 39–84
- **Genetic Screens Identify Host Factors for SARS-CoV-2 and Common Cold Coronaviruses.** *Cell*  
Wang, R. n., Simoneau, C. R., Kulsuptrakul, J. n., Bouhaddou, M. n., Travisano, K. A., Hayashi, J. M., Carlson-Stevermer, J. n., Zengel, J. R., Richards, C. M., Fozzouni, P. n., Oki, J. n., Rodriguez, L. n., Joehnk, et al  
2020
- **Capsid engineering overcomes barriers toward Adeno-associated viral (AAV) vector-mediated transduction of endothelial cells.** *Human gene therapy*  
Zhang, L., Rossi, A., Lange, L., Meumann, N., Koitzsch, U., Christie, K., Nesbit, A., Moore, T., Hacker, U., Morgan, M. A., Hoffmann, D., Zengel, J. R., Carette, et al

2019

- **Genome-Wide CRISPR/Cas9 Screening Identifies GPR108 as a Highly Conserved AAV Entry Factor**

Dudek, A. M., Zinn, E., Pillay, S., Zengel, J., Carette, J. E., Vandenberghe, L. H.

CELL PRESS.2019: 313–14

- **GPR108 Is a Highly Conserved AAV Entry Factor.** *Molecular therapy : the journal of the American Society of Gene Therapy*

Dudek, A. M., Zabaleta, N. n., Zinn, E. n., Pillay, S. n., Zengel, J. n., Porter, C. n., Franceschini, J. S., Estelien, R. n., Carette, J. E., Zhou, G. L., Vandenberghe, L. H.

2019

- **Enterovirus pathogenesis requires the host methyltransferase SETD3.** *Nature microbiology*

Diep, J. n., Ooi, Y. S., Wilkinson, A. W., Peters, C. E., Foy, E. n., Johnson, J. R., Zengel, J. n., Ding, S. n., Weng, K. F., Laufman, O. n., Jang, G. n., Xu, J. n., Young, et al

2019