



## Katherine Shaohua Xue

Postdoctoral Scholar, Biology

 Curriculum Vitae available Online

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### Bio

#### STANFORD ADVISORS

- David Relman, Postdoctoral Research Mentor
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#### LINKS

- Personal website: [katherinesxue.com](http://katherinesxue.com)

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### Publications

#### PUBLICATIONS

- **Linking influenza virus evolution within and between human hosts.** *Virus evolution*  
Xue, K. S., Bloom, J. D.  
2020; 6 (1): veaa010
- **Parallel evolution of influenza across multiple spatiotemporal scales** *ELIFE*  
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- **Construction and characterization of a genome-scale ordered mutant collection of *Bacteroides thetaiotaomicron*.** *BMC biology*  
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- **Optimization of the 16S rRNA sequencing analysis pipeline for studying invitro communities of gut commensals.** *iScience*  
Celis, A. I., Aranda-Diaz, A., Culver, R., Xue, K., Relman, D., Shi, H., Huang, K. C.  
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- **Reconciling disparate estimates of viral genetic diversity during human influenza infections** *NATURE GENETICS*  
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2019; 51 (9): 1298–1301
- **Sera from Individuals with Narrowly Focused Influenza Virus Antibodies Rapidly Select Viral Escape Mutations In Ovo** *JOURNAL OF VIROLOGY*  
Davis, A. F., McCormick, K., Gumina, M. E., Petrie, J. G., Martin, E. T., Xue, K. S., Bloom, J. D., Monto, A. S., Bushman, F. D., Hensley, S. E.  
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- **Within-Host Evolution of Human Influenza Virus** *TRENDS IN MICROBIOLOGY*

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● **Cooperating H3N2 Influenza Virus Variants A in Primary Clinical Samples** *MSPHERE*

Xue, K. S., Greninger, A. L., Perez-Osorio, A., Bloom, J. D.

2018; 3 (1)

● **Looking Deep inside Influenza Infections** *CELL SYSTEMS*

Xue, K. S., Bloom, J. D.

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● **Selection on Meiosis Genes in Diploid and Tetraploid *Arabidopsis arenosa*** *MOLECULAR BIOLOGY AND EVOLUTION*

Wright, K. M., Arnold, B., Xue, K., Surinova, M., O'Connell, J., Bomblies, K.

2015; 32 (4): 944–55

● **Laboratory divergence of *Methylobacterium extorquens* AM1 through unintended domestication and past selection for antibiotic resistance** *BMC MICROBIOLOGY*

Carroll, S., Xue, K. S., Marx, C. J.

2014; 14: 2

● **Genetic Adaptation Associated with Genome-Doubling in Autotetraploid *Arabidopsis arenosa*** *PLOS GENETICS*

Hollister, J. D., Arnold, B. J., Svedin, E., Xue, K. S., Dilkes, B. P., Bomblies, K.

2012; 8 (12): e1003093