

Stanford



Joy McKenna

Postdoctoral Scholar, Microbiology and Immunology

CONTACT INFORMATION

- **Administrative Contact**

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Bio

HONORS AND AWARDS

- Stanford Postdoc JEDI Champion, Stanford (2024)
- Research Supplement to Promote Diversity in Health-Related Research, NIH NIAID (2022 - 2025)
- Microbiology and Immunology Departmental T32 Fellowship, Stanford University (2021)
- Women's Council Recognition Award, UNLV (2019)
- Outstanding Graduate Student Teacher Award, UNLV (2019)
- Summer Doctoral Research Fellowship, UNLV (2018 - 2020)
- Space Grant Consortium Graduate Research Fellowship, NASA (2016)
- IDeA Network of Biomedical Research Excellence Scholarship, NV INBRE (2012)

STANFORD ADVISORS

- Denise Monack, Postdoctoral Faculty Sponsor

LINKS

- LinkedIn: <https://www.linkedin.com/in/joymckenna>
- Google Scholar: <https://scholar.google.com/citations?user=niqIFOkAAAAJ&hl=en>

Publications

PUBLICATIONS

- **Profiling Salmonella transcriptional dynamics during macrophage infection using a comprehensive reporter library.** *Nature microbiology* Nguyen, T. H., Wang, B. X., Diaz, O. R., Rajendram, M., McKenna, J. A., Butler, D. S., Hokamp, K., Hinton, J. C., Monack, D. M., Huang, K. C. 2025; 10 (4): 1006-1023
- **Transcriptional profiling links unique human macrophage phenotypes to the growth of intracellular Salmonella enterica serovar Typhi.** *Scientific reports* Schade, R., Butler, D. S., McKenna, J. A., Di Luccia, B., Shokoohi, V., Hamblin, M., Pham, T. H., Monack, D. M. 2024; 14 (1): 12811
- **Localized modulation of DNA supercoiling, triggered by the Shigella anti-silencer VirB, is sufficient to relieve H-NS-mediated silencing** *Nucleic Acids Research* Picker, M. P., Karney, M. M., Gerson, T. M., Karabachev, A. D., Duhart, J. C., McKenna, J. A., Wing, H. J.

2023

- **The AraC/XylS Protein MxiE and Its Coregulator IpgC Control a Negative Feedback Loop in the Transcriptional Cascade That Regulates Type III Secretion in *Shigella flexneri*.** *Journal of bacteriology*
McKenna, J. A., Karney, M. M., Chan, D. K., Weatherspoon-Griffin, N., Becerra Larios, B., Pilonieta, M. C., Munson, G. P., Wing, H. J.
2022: e0013722
- **The Antiactivator of Type III Secretion, OspD1, Is Transcriptionally Regulated by VirB and H-NS from Remote Sequences in *Shigella flexneri*** *JOURNAL OF BACTERIOLOGY*
McKenna, J. A., Wing, H. J.
2020; 202 (10)
- **Investigating the DNA-Binding Site for VirB, a Key Transcriptional Regulator of *Shigella* Virulence Genes, Using an In Vivo Binding Tool** *GENES*
Karney, M. M. A., McKenna, J. A., Weatherspoon-Griffin, N., Karabachev, A. D., Millar, M. E., Potocek, E. A., Wing, H. J.
2019; 10 (2)
- **Insights into transcriptional silencing and anti-silencing in *Shigella flexneri*: a detailed molecular analysis of the icsP virulence locus** *MOLECULAR MICROBIOLOGY*
Weatherspoon-Griffin, N., Picker, M. A., Pew, K. L., Park, H. S., Ginete, D. R., Karney, M. M. A., Usufzy, P., Castellanos, M. I., Duhart, J., Harrison, D. J., Socea, J. N., Karabachev, A. D., Hensley, et al
2018; 108 (5): 505–18
- **Characterization of the ospZ Promoter in *Shigella flexneri* and Its Regulation by VirB and H-NS** *JOURNAL OF BACTERIOLOGY*
Basta, D. W., Pew, K. L., Immak, J. A., Park, H. S., Picker, M. A., Wigley, A. F., Hensley, C. T., Pearson, J. S., Hartland, E. L., Wing, H. J.
2013; 195 (11): 2562–72