



## Aakriti Gangwal

Postdoctoral Scholar, Infectious Diseases

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### Bio

#### HONORS AND AWARDS

- Drug Discovery Postdoctoral Fellowship, PhRMA (2025)
- School of Medicine- Dean's Fellowship, Stanford (2024)

#### STANFORD ADVISORS

- Shirit Einav, Postdoctoral Faculty Sponsor
- Shirit Einav, Postdoctoral Research Mentor

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### Publications

#### PUBLICATIONS

- **Synthesis, structure-activity relationships, and SARS-CoV-2 antiviral activity of 3,5-disubstituted isothiazolo[4,3-b]pyridines as PIKfyve inhibitors.** *Frontiers in chemistry*  
Gao, L. J., Kalebic, D., Lo, C. W., Gangwal, A., Tran, D. H., Rozenski, J., Schols, D., Froeyen, M., Dehaen, W., Einav, S., De Jonghe, S.  
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- **Role of Post-Translational Modifications in Virulence of Bacillus anthracis: A narrative review.** *Research in microbiology*  
Baweja, R., Rajput, H., Bhardwaj, P., Gangwal, A., Balaji, B. S., Singh, Y.  
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- **A novel AAA+ ATPase required for sporulation and stress response in Bacillus anthracis.** *bioRxiv: the preprint server for biology*  
Sangwan, N., Bothra, A., Pomerantsev, A. P., Gangwal, A., Fattah, R., Moayeri, M., Ma, Q., Ganesan, S., Keshavam, C. C., Baweja, R., Dhawan, U., Leppla, S. H., Singh, et al  
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- **Anthrax: Transmission, Pathogenesis, Prevention and Treatment.** *Toxins*  
Sangwan, N., Gangwal, A., Jain, P., Langtso, C., Srivastava, S., Dhawan, U., Baweja, R., Singh, Y.  
2025; 17 (2)
- **The heparin-binding hemagglutinin protein of Mycobacterium tuberculosis is a nucleoid-associated protein.** *The Journal of biological chemistry*  
Keshavam, C. C., Naz, S., Gupta, A., Sanyal, P., Kochar, M., Gangwal, A., Sangwan, N., Kumar, N., Tyagi, E., Goel, S., Singh, N. K., Sowpati, D. T., Khare, et al  
2023; 299 (12): 105364
- **Giving a signal: how protein phosphorylation helps Bacillus navigate through different life stages.** *FEMS microbiology reviews*  
Gangwal, A., Kumar, N., Sangwan, N., Dhasmana, N., Dhawan, U., Sajid, A., Arora, G., Singh, Y.  
2023; 47 (4)
- **Role of serine/threonine protein phosphatase PrpN in the life cycle of Bacillus anthracis.** *PLoS pathogens*

Gangwal, A., Sangwan, N., Dhasmana, N., Kumar, N., Keshavam, C. C., Singh, L. K., Bothra, A., Goel, A. K., Pomerantsev, A. P., Leppla, S. H., Singh, Y.

2022; 18 (8): e1010729

- **Bacillus anthracis chain length, a virulence determinant, is regulated by membrane localized serine/threonine protein kinase PrkC.** *Journal of bacteriology*

Dhasmana, N., Kumar, N., Gangwal, A., Keshavam, C. C., Singh, L. K., Sangwan, N., Nashier, P., Biswas, S., Pomerantsev, A. P., Leppla, S. H., Singh, Y., Gupta, M.

2021; 203 (11)

- **ClpC-Mediated Sporulation Regulation at Engulfment Stage in Bacillus anthracis.** *Indian journal of microbiology*

Kumar, N., Gangwal, A., Sangwan, N., Dhasmana, N., Keshavam, C. C., Tyagi, E., Singh, Y.

2021; 61 (2): 170-179

- **Bacterial Virulence Factors: Secreted for Survival.** *Indian journal of microbiology*

Sharma, A. K., Dhasmana, N., Dubey, N., Kumar, N., Gangwal, A., Gupta, M., Singh, Y.

2017; 57 (1): 1-10

- **Serine/Threonine Protein Phosphatase PstP of Mycobacterium tuberculosis Is Necessary for Accurate Cell Division and Survival of Pathogen.** *The Journal of biological chemistry*

Sharma, A. K., Arora, D., Singh, L. K., Gangwal, A., Sajid, A., Molle, V., Singh, Y., Nandicoori, V. K.

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