Stanford

Tejas Dharmaraj

- MD Student, expected graduation Spring 2026
- Ph.D. Student in Immunology, admitted Autumn 2020
- MSTP Student

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Tejas Dharmaraj is an MD/PhD candidate at Stanford University. He completed his PhD in Immunology, where he developed tools to engineer bacteriophage therapies for multidrug-resistant Pseudomonas wound infections. Tejas earned his bachelor's degree in Molecular and Cellular Biology from Johns Hopkins University. His research background spans antimicrobial resistance, drug delivery systems, and host-pathogen interactions.

HONORS AND AWARDS

- Stanford Interdisciplinary Graduate Fellow, Sarafan ChEM-H (2022)

Publications

PUBLICATIONS

- **Bacteriophage therapy for multidrug-resistant infections: current technologies and therapeutic approaches.** *The Journal of clinical investigation*
  Kim, M. K., Suh, G. A., Cullen, G. D., Perez Rodriguez, S., Dharmaraj, T., Chang, T. H., Li, Z., Chen, Q., Green, S. I., Lavigne, R., Pirnay, J. P., Bollyky, P. L., Sacher, et al
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- **Whole-body Bacteriophage Distribution Characterized by a Physiologically based Pharmacokinetic Model.** *bioRxiv : the preprint server for biology*
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- **The contribution of neutrophils to bacteriophage clearance and pharmacokinetics in vivo.** *JCI insight*
  Echterhof, A., Dharmaraj, T., Khosravi, A., McBride, R., Miesel, L., Chia, J., Blankenberg, P. M., Lin, K., Shen, C., Lee, Y., Yeh, Y., Liao, W. T., Blankenberg, et al
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- **Hydrogels for Local and Sustained Delivery of Bacteriophages to Treat Multidrug-Resistant Wound Infections.** *bioRxiv : the preprint server for biology*
  Lin, Y. H., Dharmaraj, T., Chen, Q., Echterhof, A., Manasherob, R., Zheng, L. J., de Leeuw, C., Peterson, N. A., Stannard, W., Li, Z., Hajfathalian, M., Hargil, A., Martinez, et al
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- **Rapid assessment of changes in phage bioactivity using dynamic light scattering.** *PNAS nexus*
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- **Native lamin A/C proteomes and novel partners from heart and skeletal muscle in a mouse chronic inflammation model of human frailty** *FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY*
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- **Bacteriophage and Bacterial Susceptibility, Resistance, and Tolerance to Antibiotics.** *Pharmaceutics*
  Chen, Q., Dharmaraj, T., Cai, P. C., Burgener, E. B., Haddock, N. L., Spakowitz, A. J., Bollyky, P. L.
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- **Filamentous bacteriophage delays healing of Pseudomonas-infected wounds.** *Cell reports. Medicine*
  Bach, M. S., de Vries, C. R., Khosravi, A., Sweere, J. M., Popescu, M. C., Chen, Q., Demirdjian, S., Hargil, A., Van Belleghem, J. D., Kaber, G., Hajfathalian, M., Burgener, E. B., Liu, et al
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- **Filamentous Bacteriophage Delay Healing Of Pseudomonas-Infected Wounds**
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- **Rare BANF1 Alleles and Relatively Frequent EMD Alleles Including 'Healthy Lipid' Emerin p.D149H in the ExAC Cohort** *FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY*
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- **LMNA Sequences of 60,706 Unrelated Individuals Reveal 132 Novel Missense Variants in A-Type Lamins and Suggest a Link between Variant p.G602S and Type 2 Diabetes.** *Frontiers in genetics*
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