

# Stanford

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## Nikhil Ram Mohan

Basic Life Research Scientist, Emergency Medicine

### Bio

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#### EDUCATION AND CERTIFICATIONS

- Doctor of Philosophy, University of Connecticut , Genetics (2016)
- Bachelor of Technology, Dr. M.G.R Educational and Research Institute , Industrial Biotechnology (2007)

#### Publications

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##### PUBLICATIONS

- **Re-visiting humoral constitutive antibacterial heterogeneity in bloodstream infections.** *The Lancet. Infectious diseases*  
Abe, R., Ram-Mohan, N., Yang, S.  
2023
- **Neutrophil Extracellular Traps have DNAzyme activity that drives bactericidal potential.** *bioRxiv : the preprint server for biology*  
Ku, T., Ram-Mohan, N., Zudock, E. J., Abe, R., Yang, S.  
2023
- **Phage diversity in cell-free DNA identifies bacterial pathogens in human sepsis cases.** *Nature microbiology*  
Haddock, N. L., Barkal, L. J., Ram-Mohan, N., Kaber, G., Chiu, C. Y., Bhatt, A. S., Yang, S., Ballyky, P. L.  
2023
- **Rapid Molecular Phenotypic Antimicrobial Susceptibility Test for Neisseria gonorrhoeae Based on Propidium Monoazide Viability PCR.** *ACS infectious diseases*  
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- **Rapid molecular phenotypic antimicrobial susceptibility test for Neisseria gonorrhoeae based on propidium monoazide viability PCR.** *bioRxiv : the preprint server for biology*  
Tjandra, K. C., Ram-Mohan, N., Abe, R., Wang, T., Yang, S.  
2023
- **Using a 29-mRNA Host Response Classifier To Detect Bacterial Coinfections and Predict Outcomes in COVID-19 Patients Presenting to the Emergency Department.** *Microbiology spectrum*  
Ram-Mohan, N., Rogers, A. J., Blish, C. A., Nadeau, K. C., Zudock, E. J., Kim, D., Quinn, J. V., Sun, L., Liesenfeld, O., Yang, S.  
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- **Disease diagnostics using machine learning of immune receptors.** *bioRxiv : the preprint server for biology*  
Zaslavsky, M. E., Ram-Mohan, N., Guthridge, J. M., Merrill, J. T., Goldman, J. D., Lee, J., Roskin, K. M., Cunningham-Rundles, C., Moody, M. A., Haynes, B. F., Pinsky, B. A., Heath, J. R., James, et al  
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- **Diagnosis of Bloodstream Infections: An Evolution of Technologies towards Accurate and Rapid Identification and Antibiotic Susceptibility Testing.** *Antibiotics (Basel, Switzerland)*

Tjandra, K. C., Ram-Mohan, N., Abe, R., Hashemi, M. M., Lee, J., Chin, S. M., Roshardt, M. A., Liao, J. C., Wong, P. K., Yang, S. 2022; 11 (4)

- **Detection of bacterial co-infections and prediction of fatal outcomes in COVID-19 patients presenting to the emergency department using a 29 mRNA host response classifier.** *medRxiv : the preprint server for health sciences*

Ram-Mohan, N., Rogers, A. J., Blish, C. A., Nadeau, K. C., Zudock, E. J., Kim, D., Quinn, J. V., Sun, L., Liesenfeld, O., Stanford COVID-19 Biobank Study Group, Yang, S.

2022

- **Association Between SARS-CoV-2 RNAemia and Postacute Sequelae of COVID-19.** *Open forum infectious diseases*

Ram-Mohan, N., Kim, D., Rogers, A. J., Blish, C. A., Nadeau, K. C., Blomkalns, A. L., Yang, S.

2022; 9 (2): ofab646

- **A Novel Platform Using RNA Signatures To Accelerate Antimicrobial Susceptibility Testing in *Neisseria gonorrhoeae* (vol 58, e01152-20, 2020) JOURNAL OF CLINICAL MICROBIOLOGY**

Hashemi, M. M., Ram-Mohan, N., Yang, X., Andini, N., Gessner, N. R., Carroll, K. C., Wang, T., Yang, S.

2021; 59 (3)

- **Erratum for Hashemi et al., "A Novel Platform Using RNA Signatures To Accelerate Antimicrobial Susceptibility Testing in *Neisseria gonorrhoeae*". Journal of clinical microbiology**

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- **SARS-CoV-2 RNAemia predicts clinical deterioration and extrapulmonary complications from COVID-19.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*

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- **Profiling chromatin accessibility responses in human neutrophils with sensitive pathogen detection.** *Life science alliance*

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- **Insights into gene expression changes under conditions that facilitate horizontal gene transfer (mating) of a model archaeon.** *Scientific reports*

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- **Comparative Metatranscriptomics of Periodontitis Supports a Common Polymicrobial Shift in Metabolic Function and Identifies Novel Putative Disease-Associated ncRNAs.** *Frontiers in microbiology*

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- **Regulatory context drives conservation of glycine riboswitch aptamers.** *PLoS computational biology*

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- **The Transcriptional landscape of *Streptococcus pneumoniae* TIGR4 reveals a complex operon architecture and abundant riboregulation critical for growth and virulence** *PLOS PATHOGENS*

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- **Analysis of the bacteriorhodopsin-producing haloarchaea reveals a core community that is stable over time in the salt crystallizers of Eilat, Israel EXTREMOPHILES**

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- **Horizontal gene transfer, dispersal and haloarchaeal speciation.** *Life (Basel, Switzerland)*

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- **Evidence from phylogenetic and genorne fingerprinting analyses suggests rapidly changing variation in *Halorubrum* and *Haloarcula* populations** *FRONTIERS IN MICROBIOLOGY*

Mohan, N., Fullmer, M. S., Makkay, A. M., Wheeler, R., Ventosa, A., Naor, A., Gogarten, J., Papke, R.  
2014; 5: 143

- **Cell sorting analysis of geographically separated hypersaline environments *EXTREMOPHILES***  
Zhaxybayeva, O., Stepanauskas, R., Mohan, N., Papke, R.  
2013; 17 (2): 265–75