

Devaki Bhaya

Professor (by Courtesy)

Biology

Bio

ACADEMIC APPOINTMENTS

- Professor (by Courtesy), Biology

Publications

PUBLICATIONS

- **Deciphering proteolysis pathways for the error-prone DNA polymerase in Cyanobacteria.** *Environmental microbiology*
Jin, H., Kim, R., Bhaya, D.
2020
- **Building an Inducible T7 RNA Polymerase/T7 Promoter Circuit in Synechocystis sp. PCC6803.** *ACS synthetic biology*
Jin, H., Lindblad, P., Bhaya, D.
2019
- **Construction of a Shuttle Vector Using an Endogenous Plasmid From the Cyanobacterium Synechocystis sp PCC6803** *FRONTIERS IN MICROBIOLOGY*
Jin, H., Wang, Y., Idoine, A., Bhaya, D.
2018; 9
- **Construction of a Shuttle Vector Using an Endogenous Plasmid From the Cyanobacterium Synechocystis sp. PCC6803.** *Frontiers in microbiology*
Jin, H., Wang, Y., Idoine, A., Bhaya, D.
2018; 9: 1662
- **Probing the ecological and evolutionary history of a thermophilic cyanobacterial population via statistical properties of its microdiversity.** *PLoS one*
Rosen, M. J., Davison, M., Fisher, D. S., Bhaya, D.
2018; 13 (11): e0205396
- **Emergent Phototactic Responses of Cyanobacteria under Complex Light Regimes** *MBIO*
Chau, R. M., Bhaya, D., Huang, K. C.
2017; 8 (2)
- **Long-term microfluidic tracking of coccoid cyanobacterial cells reveals robust control of division timing** *BMC BIOLOGY*
Yu, F. B., Willis, L., Chau, R. M., Zambon, A., Horowitz, M., Bhaya, D., Huang, K. C., Quake, S. R.
2017; 15
- **On the Origin of Reverse Transcriptase-Using CRISPR-Cas Systems and Their Hyperdiverse, Enigmatic Spacer Repertoires.** *mBio*
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- **Diversity in a Polymicrobial Community Revealed by Analysis of Viromes, Endolysins and CRISPR Spacers** *PLOS ONE*
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2016; 11 (9)
- **Direct CRISPR spacer acquisition from RNA by a natural reverse transcriptase-Cas1 fusion protein** *SCIENCE*

- Silas, S., Mohr, G., Sidote, D. J., Markham, L. M., Sanchez-Amat, A., Bhaya, D., Lambowitz, A. M., Fire, A. Z.
2016; 351 (6276): 932-?
- **Challenges of metagenomics and single-cell genomics approaches for exploring cyanobacterial diversity.** *Photosynthesis research*
Davison, M., Hall, E., Zare, R., Bhaya, D.
2015; 126 (1): 135-146
 - **Fine-scale diversity and extensive recombination in a quasisexual bacterial population occupying a broad niche** *SCIENCE*
Rosen, M. J., Davison, M., Bhaya, D., Fisher, D. S.
2015; 348 (6238): 1019-1023
 - **Microbial diversity. Fine-scale diversity and extensive recombination in a quasisexual bacterial population occupying a broad niche.** *Science*
Rosen, M. J., Davison, M., Bhaya, D., Fisher, D. S.
2015; 348 (6238): 1019-1023
 - **Maintenance of Motility Bias during Cyanobacterial Phototaxis** *BIOPHYSICAL JOURNAL*
Chau, R. M., Ursell, T., Wang, S., Huang, K. C., Bhaya, D.
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 - **Creation and Analysis of a Virome: Using CRISPR Spacers.** *Methods in molecular biology (Clifton, N.J.)*
Davison, M., Bhaya, D.
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 - **Role of Polyphosphate in Thermophilic Synechococcus sp from Microbial Mats** *JOURNAL OF BACTERIOLOGY*
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 - **Community ecology of hot spring cyanobacterial mats: predominant populations and their functional potential** *ISME JOURNAL*
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- **CRISPR-Cas Systems in Bacteria and Archaea: Versatile Small RNAs for Adaptive Defense and Regulation** *ANNUAL REVIEW GENETICS, VOL 45*
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- **Germ Warfare in a Microbial Mat Community: CRISPRs Provide Insights into the Co-Evolution of Host and Viral Genomes** *PLOS ONE*
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