



## Kousik Sundararajan

### Bio

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#### INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

### Publications

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#### PUBLICATIONS

- **EstG is a novel esterase required for cell envelope integrity in *Caulobacter*.** *Current biology : CB*  
Daitch, A. K., Orsburn, B. C., Chen, Z., Alvarez, L., Eberhard, C. D., Sundararajan, K., Zeinert, R., Kreitler, D. F., Jakoncic, J., Chien, P., Cava, F., Gabelli, S. B., Goley, et al  
2022
- **DiMeLo-seq: a long-read, single-molecule method for mapping protein-DNA interactions genome wide.** *Nature methods*  
Altemose, N., Maslan, A., Smith, O. K., Sundararajan, K., Brown, R. R., Mishra, R., Detweiler, A. M., Neff, N., Miga, K. H., Straight, A. F., Streets, A.  
2022
- **CENP-N promotes the compaction of centromeric chromatin.** *Nature structural & molecular biology*  
Zhou, K., Gebala, M., Woods, D., Sundararajan, K., Edwards, G., Krzizike, D., Wereszczynski, J., Straight, A. F., Luger, K.  
2022; 29 (4): 403-413
- **Centromere Identity and the Regulation of Chromosome Segregation.** *Frontiers in cell and developmental biology*  
Sundararajan, K., Straight, A. F.  
2022; 10: 914249
- **Identification and characterization of centromeric sequences in *Xenopus laevis*.** *Genome research*  
Smith, O. K., Limouse, C., Fryer, K. A., Teran, N. A., Sundararajan, K., Heald, R., Straight, A. F.  
2021
- **FtsA regulates Z-ring morphology and cell wall metabolism in an FtsZ C-terminal linker dependent manner in *C. crescentus*.** *Journal of bacteriology*  
Barrows, J. M., Sundararajan, K., Bhargava, A., Goley, E. D.  
2020
- **Agrobacterium tumefaciens divisome proteins regulate the transition from polar growth to cell division.** *Molecular microbiology*  
Howell, M., Aliashkevich, A., Sundararajan, K., Daniel, J. J., Lariviere, P. J., Goley, E. D., Cava, F., Brown, P. J.  
2019
- **Species- and C-terminal linker-dependent variations in the dynamic behavior of FtsZ on membranes in vitro.** *Molecular microbiology*  
Sundararajan, K. n., Vecchiarelli, A. n., Mizuuchi, K. n., Goley, E. D.  
2018
- **The intrinsically disordered C-terminal linker of FtsZ regulates protofilament dynamics and superstructure in vitro** *JOURNAL OF BIOLOGICAL CHEMISTRY*

Sundararajan, K., Goley, E. D.  
2017; 292 (50): 20509–27

- **Cytoskeletal Proteins in *Caulobacter crescentus*: Spatial Orchestrators of Cell Cycle Progression, Development, and Cell Shape** *PROKARYOTIC CYTOSKELETONS: FILAMENTOUS PROTEIN POLYMERS ACTIVE IN THE CYTOPLASM OF BACTERIAL AND ARCHAEAL CELLS*

Sundararajan, K., Goley, E. D.  
edited by Lowe, J., Amos, L. A.  
2017; 84: 103–37

- **The bacterial tubulin FtsZ requires its intrinsically disordered linker to direct robust cell wall construction.** *Nature communications*

Sundararajan, K., Miguel, A., Desmarais, S. M., Meier, E. L., Casey Huang, K., Goley, E. D.  
2015; 6: 7281-?