



Monika Priyadarshini

Postdoctoral Scholar, Genetics

Bio

BIO

I obtained my PhD from the Biological and Environmental Science Division at King Abdullah University for Science and Technology (KAUST, Saudi Arabia) in 2021. I had the opportunity to work with Christian Frøkjær-Jensen on a fascinating research project focusing on the epigenetic regulation of germline genes and the transgenerational inheritance of silencing in *C. elegans*.

My passion lies in the field of epigenetics, synthetic and molecular biology, and protein biochemistry. I am deeply intrigued by the intricacies of genome organization and am dedicated to unraveling the "rules" that govern it. Additionally, I'm committed to dissecting the molecular and structural changes that take place within chromatin.

STANFORD ADVISORS

- Serena Sanulli, Postdoctoral Faculty Sponsor

LINKS

- Lab website: <https://sanullilab.stanford.edu/>

Publications

PUBLICATIONS

- **Reprogramming the piRNA pathway for multiplexed and transgenerational gene silencing in *C. elegans*.** *Nature methods*
Priyadarshini, M., Ni, J. Z., Vargas-Velazquez, A. M., Gu, S. G., Frøkjær-Jensen, C.
2022; 19 (2): 187-194
- **Target-dependent suppression of siRNA production modulates the levels of endogenous siRNAs in the *Caenorhabditis elegans* germline.** *Development (Cambridge, England)*
Gajic, Z., Kaur, D., Ni, J., Zhu, Z., Zhebrun, A., Gajic, M., Kim, M., Hong, J., Priyadarshini, M., Frøkjær-Jensen, C., Gu, S.
2022; 149 (16)
- **Acute and inherited piRNA-mediated silencing in a rde-3 ribonucleotidyltransferase mutant.** *microPublication biology*
Priyadarshini, M., AlHarbi, S., Frøkjær-Jensen, C.
2022; 2022
- **Engineering rules that minimize germline silencing of transgenes in simple extrachromosomal arrays in *C. elegans*.** *Nature communications*
Aljohani, M. D., El Mouridi, S., Priyadarshini, M., Vargas-Velazquez, A. M., Frøkjær-Jensen, C.
2020; 11 (1): 6300