

## **Ramesh Kumawat, Ph. D**

Postdoc Research Associate

### Education

August 2015 to October 2022: Department of Biological Sciences, Indian Institute of Science Education and Research Bhopal, Madhya Pradesh, India.

Awarded the degree of Ph. D for a thesis entitled “Dissecting the activator role of a general repressor complex, Tup1-Cyc8 in the cellular homeostasis maintenance under environmental stress conditions and the MAPK Hog1 mediated regulation of yeast flocculation.” Work supervised by Dr. Raghuvir Sing Tomar.

### Publications

1. Bajpai, A., Bharathi, V., Kumawat, R., Tomar, R.S. and Patel, B.K., (2024), Activation of the yeast MAP kinase, Slt2, protects against TDP-43 and TDP-25 toxicity in the *Saccharomyces cerevisiae* proteinopathy model. *Biochemical and Biophysical Research Communications*, 741, p.151062.
2. Kumawat R, Tomar R. S. (2024), Dissecting the role of mitogen-activated protein kinase Hog1 in yeast flocculation. *FEBS Journal*, 3080-3103.
3. Sariki, S. K.; Kumawat, R.; Singh, R.; Tomar, R. S. (2023), Molecular and Mechanistic Insights of Yeast Flocculation. *Recent Advances in Pharmaceutical Innovation and Research*. Singapore: Springer Nature Singapore. 633-651. (\* Authors credited as equally contributed first authors).
4. Kumawat, R.; Tomar, R. (2022), Heavy metal exposure induces Yap1 and Hac1 mediated derepression of GSH1 and KAR2 by Tup1-Cyc8 complex. *Journal of Hazardous Materials*, 429, 128367-128367.
5. Sariki, S. K.; Kumawat, R.; Singh, V.; Tomar, R. S. (2019), Flocculation of *Saccharomyces cerevisiae* is dependent on activation of Slt2 and Rlm1 regulated by the cell wall integrity pathway. *Molecular microbiology*, 112 (4), 1350-1369. (\*Authors credited as equally contributed first authors).
6. Babele, P. K.; Thakre, P. K.; Kumawat, R.; Tomar, R. S. (2018), Zinc oxide nanoparticles induce toxicity by affecting cell wall integrity pathway, mitochondrial function and lipid homeostasis in *Saccharomyces cerevisiae*. *Chemosphere*, 213, 65-75.
7. Azad, G. K.; Swagatika, S.; Kumawat, M.; Kumawat, R.; Tomar, R. S. (2018), Modifying chromatin by histone tail clipping. *Journal of molecular biology*, 430 (18), 3051-3067.