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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. Kumawat R, Tomar R. S. (2024), Dissecting the role of mitogen-activated protein kinase Hog1 in yeast flocculation. FEBS J. Epub ahead of print. PMID: 38648231.
2. 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).
3. 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.
4. 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).
5. 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.
6. 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.