Kawaljeet Kaur

Assistant Professor (Dept of Biotechnology) Modern College of arts, science and commerce (Pune university), Ganeshkhind, Pune - 16 Email: <u>Kawaljeet.kaur@moderncollegegk.org</u>



Education

2020	M.Sc. Biotechnology, University of Pune, India. (Distinction – 83 %) Dissertation: Genome-wide identification of characterization and transcriptional profiling of NHX-type (Na ⁺ /H ⁺) antiporters under salinity stress in soybean, under Dr. Vinay Kumar.
2018	Virology, Bioethics and Photography, University of Oxford. Betty and Donald Keating scholarship Award.
2018	B.Sc. Biotechnology, University of Pune, India. (Distinction – 75.7 %)
Experience	
2020(Present)	Assistant Professor (Dept of Biotechnology) Modern College of arts, science and commerce (Pune university), Ganeshkhind, Pune
2019-20	Graduate student researcher Modern College of arts, science and commerce (Pune university), Ganeshkhind, Pune. Projects completed under Dr. Vinay Kumar: - 'Genome-wide in silico identification and characterization of sodium-proton (Na ⁺ /H ⁺) antiporters in Indica rice'. 'Genome-wide identification, characterization and transcriptional profiling of NHX-type (Na ⁺ /H ⁺) antiporters under salinity stress in soybean'.
2016-18	Bachelor student researcher Modern College of arts, science and commerce (Pune University), Shivajinagar, Pune. Projects completed under Dr. Rebecca Thombre: - 'Rapid Milk Quality Detection Test Kit'. 'Inhibitions of Biofilms formed by Multidrug resistance Gram-Negative Bacteria using Biogenic Silver Nanoparticles'. 'Inhibitory Potentials of biologically synthesized Silver Nanoparticles against multidrug resistant bacteria from <i>Lantana camara</i> '.
Internships	
2019	MGM College of Biomedical Sciences, Kamothe, Mumbai. Molecular Biology, Hydroponics and Developmental Studies of Zebra Fish.
2017	Serum Institute of India Pvt Ltd. Training at Bacterial vaccine production and Quality control department.
2016	Workshop on MICROSCOPY under DBT- Star College Scheme, New Delhi

Paper Publications

2021	Khare T, Joshi S, Kaur K , Srivastav A, Shriram V, Srivastava AK, Suprasanna P, Kumar V. (2021) Genome-wide in silico identification and characterization of sodium-proton (Na+/H+) antiporters in Indica rice. <i>Plant</i> <i>Gene</i> 26:100280. <u>https://doi.org/10.1016/j.plgene.2021.100280</u>
2021	Joshi S, Kaur K , Khare T, Srivastava AK, Suprasanna P, Kumar V. (2021) Genome-wide identification, characterization and transcriptional profiling of NHX-type (Na ⁺ /H ⁺) antiporters under salinity stress in soybean. <i>3 Biotech</i> 11(1):16. doi: 10.1007/s13205-020-02555-0
2020	Thombre, R. S., Gomez, F., Parkhe, R., Kaur, K ., Vaishampayan, P., Shivakarthik, E., Bhalamurugan, S., Perumal, R., Mason, N. (2020) Effect of impact shock on extremophilic bacterium <i>Halomonas gomseomensis</i> EP-3 isolated from hypersaline Martian analogue site Laguna de Pena Hueca, Spain. <i>Planetary and space science</i> 192:105041. <u>https://doi.org/10.1016/j.pss.2020.105041</u>

Chapter Publications

2021 **Kaur K**, Thombre R (2021) Nanotechnology: methods, applications and future prospects, *Nanobiotechnology* 1-20. <u>https://doi.org/10.1016/B978-0-12-822878-4.00001-8</u>

Poster presentation

r oster prese		
2020	Kaur, K., Khare, T., Joshi, S., Kumar, V., "Genome-wide identification of Novel Sodium-Proton Exchangers in <i>Soybean</i> ", ANUBHUTI Science Exhibition.	
2018	Kaur, K., Lad, A., "Rapid Milk Quality Detection Kit", Avishkar University Level Research Competition.	
2017	Kaur, K., Badodekar, N., Thombre, R. S., "Inhibition of biofilms and efflux pumps of Multidrug resistant gram-negative bacteria using biogenic silver nanoparticles", The Sajjan Gupta-Konark Memorial Award, V.E.S College, Chembur, Mumbai.	
Awards and Fellowships		
2020	GATE, MHRD.	
2019	Merit Award – MSc academic performance.	
2018	Betty and Donald Keating Scholarships award to study at St. Catherine's College, University of Oxford as registered Vising Student for trinity term.	
2018	University level research project competition "Avishkar", University of Pune.	
2018	Excellent Academic Achievement Award.	

Additional Courses

2020	Astrobiology, Amity centre of Excellence in Astrobiology ACoEA, Amity University, Mumbai.
2020	Good Clinical Practice (GCP), NIDA

2018 Astrobiology, Modern College of Arts, Science and Commerce, Shivajinagar, Pune and Blue marble space institute of science, Seattle, USA.