Dr. Gohar Taj

DESIGNATION:	Professor
QUALIFICATION:	Ph.D.
SPECIALISATION:	Protein Protein Interaction, Signal Transduction Plants Signaling Pathways Transgenics
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Research Areas/ Areas of Interest

- NGS data analysis
- Transcriptome/Genome data analysis
- Database development
- Molecular Drug Designing

Research Projects

- Project Investigator in a DBT funded project entitled “North Western Himalayan Bioinformatics Grid” (Conversion of bio-resources of Uttarakhand into value-added products for nutrition and healthcare)

Publications

1. Arya, Mamta; Rathore, Keena Singh; Tiwari, Apoorv; chauhan, Vishwa Jeet Singh and **Gohar, Taj(2022)** Molecular docking studies of COX-2 protein with 8-deoxylactucin of Cichorium intybusL. Involved in anti inflammation activity Annals of Phytomedicine 11(1):371-375
2. Pathak, Abhishek; Arora, Sunita; Tiwari, Apoorv; Dev Krishna, Kurma; Singh, SP and **Gohar, Taj(2022)** In- silico Approach for Evaluation of Antimalarial Potential of costunolide Synthase Enzyme and Sesquiterpene Lactones from Cichorium intybus letters in Organic chemistry XX:1570-1586

3. Modak, annayasa; Singh, BR; Dubey, Ashutosh; Tewari, AK and **Gohar Taj(2022)** comparative expression analysis of defense –related genes in both transgenic Brassica juncea(var.) Varuna harbouring overexpressed MAPK3 gene in response to infection by Albugo candida Journal of Crop Science and Biotechnology 25:63-72
4. Nishant Prakash; Vishunavat, Karuna;Khan, **Gohar Taj** and Pramod Prasad (2021)Sa, ABA and Pseudomonas fluorescens elicit defense responses in tomato against Alternaria blight journal of Plant biochemistry and Biotechnology30(1):13-25
5. Srivastava, Snigdha;Chanyal, Sheetal; Dubey, Ashutosh; tewari, AK and **Gohar Taj(2019)** patterns of codon usage Bias in WRKY Genes of Brassica rapa and Arabdopsis thaliana Journal of Agriculture Science 11(4):76-80
6. **Taj, G.,** Tiwari, A., Kumar, R., Singh, B.R., Dubey, A., Samantaray, S.D. and Gaur, A.K., (2018). A journey towards systems biology: Biocomputing of hi-throughput omics data: A national training workshop report-2018. IJCS, 6(6), pp.2751-2756
7. Pathak, R. K., Baunthiyal, M., Shukla, R., Pandey, D., **Taj, G.,** & Kumar, A. (2017). In Silico Identification of Mimicking Molecules as Defense Inducers Triggering Jasmonic Acid Mediated Immunity against Alternaria Blight Disease in Brassica Species. Frontiers in plant science, 8, 609. doi:10.3389/fpls.2017.00609.
8. Singh U.M., Metwal M., Singh M., **Taj G.,** and Kumar A., (2015). Identification and characterization of calcium transporter gene family in finger millet in relation to grain calcium content. Gene, 566:1, 37-46
9. Singh, M., Lakhera, P.C., Singh, B., **Taj, G.**and Kumar, A., (2013). Identification and localisation of glycosyl moieties of surface glycoproteins of teliospore wall of Karnal bunt (Tilletia indica) of wheat. Food and agricultural immunology, 24(2), pp.203-216.
10. **Taj, G.,** Agarwal, P. and Kumar, A., (2011). In-silico approaches for studying cross-talk of different kinases associated in diverse biological processes with their interacting kinases. Proteomics Bioinformatics, 4, pp.91-97.