



# CENTRE FOR VOCATIONAL STUDIES

SCHOOL OF HEALTH SCIENCES

ISLAMIC UNIVERSITY OF SCIENCE AND TECHNOLOGY, KASHMIR

## Selected Publications:

1. A Raina, D Sahu, K Parmeshwar, RA Laskar, N Rajora, R Soa, S Khan **Ganai R A**. Mechanisms of genome maintenance in plants: playing it safe with breaks and bumps. *Frontiers in Genetics*, 2021 12, 861
2. U Mehraj, **RA Ganai**, MA Macha, A Hamid, MA Zargar, AA Bhat, NA Wani. The tumor microenvironment as driver of stemness and therapeutic resistance in breast cancer: New challenges and therapeutic opportunities. (2021) *Cellular Oncology*, 1-21
3. LeRoy G, Oksuz O, Descostes N, Aoi Y, **Ganai RA**, Kara HO, Yu JR, Lee CH, Stafford J, Shilatifard A, Reinberg D. LEDGF and HDGF2 relieve the nucleosome-induced barrier to transcription in differentiated cells. *Science Advances*. 2019 Oct 2;5(10):eaay3068.
4. Lee CH, Holder M, Grau D, Saldaña-Meyer R, Yu JR, **Ganai RA**, Zhang J, Wang M, LeRoy G, Dobenecker MW, Reinberg D. Distinct stimulatory mechanisms regulate the catalytic activity of polycomb repressive complex 2. *Molecular cell*. 2018 May 3;70(3):435-48.
5. **Ganai RA**, Zhang XP, Heyer WD, Johansson E. Strand displacement synthesis by yeast DNA polymerase  $\epsilon$ . *Nucleic acids research*. 2016 Sep 30;44(17):8229-40.
6. **Ganai RA**, Johansson E. DNA replication—a matter of fidelity. *Molecular cell*. 2016 Jun 2;62(5):745-55.
7. **Ganai RA**, Bylund GO, Johansson E. Switching between polymerase and exonuclease sites in DNA polymerase  $\epsilon$ . *Nucleic acids research*. 2015 Jan 30;43(2):932-42.
8. **Ganai RA**, Osterman P, Johansson E. Yeast DNA polymerase  $\epsilon$  catalytic core and holoenzyme have comparable catalytic rates. *Journal of Biological Chemistry*. 2015 Feb 6;290 (6):3825-35.
9. Hogg M, Osterman P, Bylund GO, **Ganai RA**, Lundström EB, Sauer-Eriksson AE, Johansson E. Structural basis for processive DNA synthesis by yeast DNA polymerase  $\epsilon$ . *Nature structural & molecular biology*. 2014 Jan;21(1):49-55.
10. Ullah MF, Ahmad A, **Bhat SH**, Abuduhier FM, Mustafa SK, Usmani S. Diet-derived small molecules (nutraceuticals) inhibit cellular proliferation by interfering with key oncogenic pathways: an overview of experimental evidence in cancer chemoprevention. *Biologia Futura*. 2022 Jan 17:1-5.

11. **Bhat SH**, Ullah MF, Abu-Duhier FM. Anti-hemolytic Activity and Antioxidant Studies of *Caralluma quadrangula*: Potential for Nutraceutical Development in Cancers and Blood Disorders. *International Journal of Pharmaceutical Research & Allied Sciences*, Dec 2019, 8(4):121-12.
12. **Bhat SH**, Ullah MF, Abu-Duhier FM. Bioactive extract of *Artemisia judaica* causes in vitro inhibition of dipeptidyl peptidase IV and pancreatic/intestinal enzymes of the carbohydrate absorption cascade. *Orient Pharm Exp Med* 19, 71–80 (2019).
13. Ullah MF, Ahmad A, **Bhat SH**, Abu-Duhier FM, Barreto GE, Ashraf GM. Impact of sex differences and gender specificity on behavioral characteristics and pathophysiology of neurodegenerative disorders. *Neuroscience & Biobehavioral Reviews*. 2019 Jul 1;102:95-105.
14. Fatima F, **Bhat SH**, Ullah MF, Abu-Duhier F, Husain E. In-Vitro Antimicrobial Activity of Herbal Extracts From Tabuk Region (Kingdom of Saudi Arabia) Against Nosocomial Pathogens: A Preliminary Study. *Global Journal of Health Science*. 2018;10(3):1-83.
15. Ullah MF, **Bhat SH**, Abuduhier FM. Antidiabetic Potential of Hydro-Alcoholic Extract of *Moringa peregrina* Leaves: Implication as Functional Food for Prophylactic Intervention in Prediabetic Stage. *Journal of Food Biochemistry*. 2015 Aug;39(4):360-7.
16. Ullah MF, **Bhat SH**, Husain E, Abu-Duhier F, Hadi SM, Sarkar FH, Ahmad A. Cancer chemopreventive pharmacology of phytochemicals derived from plants of dietary and non-dietary origin: implication for alternative and complementary approaches. *Phytochemistry Reviews*. 2014 Dec 1;13(4):811-33.
17. Ullah MF, **Bhat SH**, Husain E, Abu-Duhier F, Hadi SM, Sarkar FH, Ahmad A. Pharmacological intervention through dietary nutraceuticals in gastrointestinal neoplasia. *Critical reviews in food science and nutrition*. 2016 Jul 3;56(9):1501-18.
18. Ullah MF, **Bhat SH**, Hussain E, Abu-Duhier F, Ahmad A, Hadi SM. Ascorbic Acid in Cancer Chemoprevention: Translational Perspectives and Efficacy. *Current Drug Targets*, 2012, 13, 1757-1771.
19. **Bhat SH**, Azmi AS, Hadi SM. Prooxidant DNA breakage induced by caffeic acid in human peripheral lymphocytes: involvement of endogenous copper and a putative mechanism for anticancer properties. *Toxicology and applied pharmacology*. 2007 Feb 1;218(3):249-55.
20. **Bhat, S.H.**, Azmi, A.S., Hanif, S. and Hadi, S.M., Bhat, Ascorbic acid mobilizes endogenous copper in human peripheral lymphocytes leading to oxidative DNA breakage: a putative mechanism for anticancer properties." *The international journal of biochemistry & cell biology* 38.12 (2006): 2074-2081.

21. **Shoeiba Tasneem** & Rafath Yasmeen. (2021). Biochemical alterations in total proteins and related enzymes in tissues of *Cyprinus carpio* (L.) during sublethal exposure to karanjin based biopesticide Derisom. *Indian Journal of Experimental Biology*, 59, 125-131.
22. Shaista Yousuf, Sheikh Marifatul Haq, Akhtar Rasool, Mohammad Zulfajri, Marlia Mohd Hanafiah, Huda Nafees, **Shoeiba Tasneem**, Mohammed Mahboob. (2020). Evaluation of antidepressant activity of methanolic and hydroalcoholic extracts of *Acorus calamus* L, rhizome through tail suspension test and forced swimming test of mice. *Journal of Traditional Chinese Medical Sciences*, 7, 301 – 307.
23. **Tasneem S.** & Yasmeen R. (2020). Biochemical changes in carbohydrate metabolism of the fish – *Cyprinus carpio* during sub-lethal exposure to biopesticide – Derisom. *Iranian Journal of Fisheries Sciences*, 19(2) 961-973.
24. **Tasneem S.** & Yasmeen R. (2019). Histopathological changes in selected tissues of the fish *Cyprinus carpio* during sub-lethal exposure to Karanjin based biopesticide – Derisom. *Journal of Advanced Scientific Research*, 10 (4) Suppl 2: 345- 355.
25. **Tasneem S.** & Yasmeen R. (2019). Acute toxicity, behaviour studies and histopathological studies in fish – *Cyprinus carpio* following exposure to karanjin based biopesticides – Derisom. *Journal of Advanced Zoology*, 40(2) : 155-167.
26. **Tasneem, S.** & Yasmeen, R. (2018). Evaluation of genotoxicity by comet assay (single-cell gel electrophoresis) in tissues of the fish *Cyprinus carpio* during sub-lethal exposure to Karanjin. *The Journal of Basic and Applied Zoology*, 79 (19): 1 – 13.
27. **Tasneem, S.** & Yasmeen, R. (2018). Genotoxicity assessment using chromosomal aberration test in fish *Cyprinus carpio* following sub-lethal exposure to karanjin. *Trends in Fisheries Research*, 7(2): 2319 – 4758
28. **Tasneem, S.** & Yasmeen, R. (2018). Induction of Micronuclei and Erythrocytic nuclear abnormalities in peripheral blood of fish *Cyprinus carpio* on exposure to Karanjin. *Iranian Journal of Toxicology*, 12(2): 37-43.
29. **Tasneem, S.**, Kauser, S. H., & Yasmeen, R. (2016). Toxic Effects of *Datura metel* Aqueous Leaf Extract on Common Carp - *Cyprinus carpio*, Based on the Histology of Gills and Intestine. *Iranian Journal of Toxicology*, 10(3): 41-46.
30. **Shoeiba Tasneem**, Syeda Hina Kauser, Rafath Yasmeen. (2014). Toxicity of two biopesticidal plants aqueous leaf extracts to *Oreochromis mossambicus* –histopathology of gill, liver and intestine. *Journal of Biopesticides*. 7 (2): 124-131.