

Faculty Profile



Dr. Humaira Farooqi

(Assistant Professor)

Email : hfarooqi@jamiahamdard.ac.in

Mob : 9811483436

Affiliation

Department of Biotechnology, School of Chemical & Life Sciences,
Jamia Hamdard, New Delhi-62

Education

Ph.D., M.Sc. (Biochemistry), Jamia Hamdard

Specialization Area

Protein Biochemistry & Stress Biology

Research Interests

- Protein Folding : Protein Stability Determination/Mechanism of Protein Stabilization
- Stress Biology
- Bio efficacy of Natural Products & Role in Cancer Chemoprevention

Current Research Activities

Dr. Humaira Farooqi has contributed progressively in field of protein stress biology and oxidative stress. Her accomplished research works includes investigation of the conformational changes in proteins exposed to different stress conditions *in vitro* and evaluating its mechanism using circular dichroism and *in-silico* studies, establishing protective and ameliorative effects of natural compounds such as GPLC and Genistein against induced oxidative stress. Currently her lab is into the investigation of therapeutic potential of active phytoconstituents from traditional medicinal plants with reference to their anticancer properties

Selected Publications

1. Khadega Khamis Moh Alazoumi, Anwar Ahmed, Salman Fareh Alamery, **Humaira Farooqi et al. (2020)**. Effect of Antioxidants on Heavy Metals Induced Conformational Alteration of Cytochrome C and Myoglobin. *Protein and Peptide Letters*, 28 (1): 31-42.
2. Shehla Adhami, **Humaira Farooqi**, Malik Z Abdin, Ram Prasad, Asrar A Malik. (2020). Chemical Profiling of *Chlorophytum comosum* (Thunb.) Jaques by GCMS/LC-ESI-MS and its Antiproliferative Effects on Human Carcinoma Cell Lines. *Anticancer Agents Med Chem*, 20: 1-14.
3. Sania Bajaj, Syed Imteyaz Alam, Basir Ahmad, **Humaira Farooqi**, Manju Lata Gupta (2020). Combination of podophyllotoxin and rutin modulate radiation-induced alterations of jejunal proteome in mice. *International Journal of Radiation Biology*, 96 (7): 879-893.
4. Ajaz Ahmad Ganai, Ishfaq Ahmad Ganaie, Nishika Verma and **Humaira Farooqi (2016)**. Regression of fibrosis/cirrhosis by Glycine propionyl -l-carnitine treatment in d- Galactosamine induced chronic liver damage. *Chemico-Biological Interactions*, 260:117-128.
5. Ajaz Ahmad Ganai and **Humaira Farooqi (2015)**. Bioactivity of Genistein: A review of *in vitro* and *in vivo* studies. *Biomedicine & pharmacotherapy*, 76: 30-38.
6. Ajaz A. Ganai, Athar A. Khan, Zainul A. Malik and **Humaira Farooqi (2015)**. Genistein modulates the expression of NF- κ B and MAPK (p-38 and ERK1/2), thereby attenuating D-Galactosamine induced fulminant hepatic failure in Wistar rats. *Toxicology and Applied Pharmacology*, 283: 139– 146.
7. Ajaz A Ganai, Sadaf Jahan, Amjid Ahad, MZ Abdin and **Humaira Farooqi (2014)**. Glycine propionyl -l-carnitine attenuates d- Galactosamine induced fulminant hepatic failure in Wistar rats. *Chemico-biological interactions*, 214: 33-40.
8. Shipra Sharma, Adarsh K Mayank, Himani Nailwal, **Humaira Farooqi et al. (2014)**. Influenza. A viral nucleoprotein interacts with cytoskeleton scaffolding protein α -actinin-4 for viral replication. *FEBS J.*, 281(13): 2899-914.
9. Amit Kumar Singh, Nikunj Sharma, **Humaira Farooqi**, M. Z. Abdin, Thomas Mock and Shashi Kumar (2017). Phytoremediation of municipal wastewater by microalgae to produce biofuel. *International Journal of Phytoremediation*. 19 (9):805-812.
10. Manu Saini, Athar Ali Khan, Madhu Bala, M. Z. Abdin and **Humaira Farooqi (2014)**. Development of a validated HPTLC method for quantification of esculin in different fractions of *cichorium intybus* leaf extract. *Int J Pharm, Pharm Sci*, 6: 278-282.

Academic/ Research Details

1. Ph.D. students guided for award of degree:

(a) As Supervisor: 3 (b) As Co-Supervisor: 4

2. Ph.D. students currently guiding:

(a) As Supervisor: 3 (b) As Co-Supervisor: 01

3. Invited lectures delivered/Attended Workshops/Conferences/Symposia in National/International Universities and Institutes:

(a) National: 22 (b) International: 04