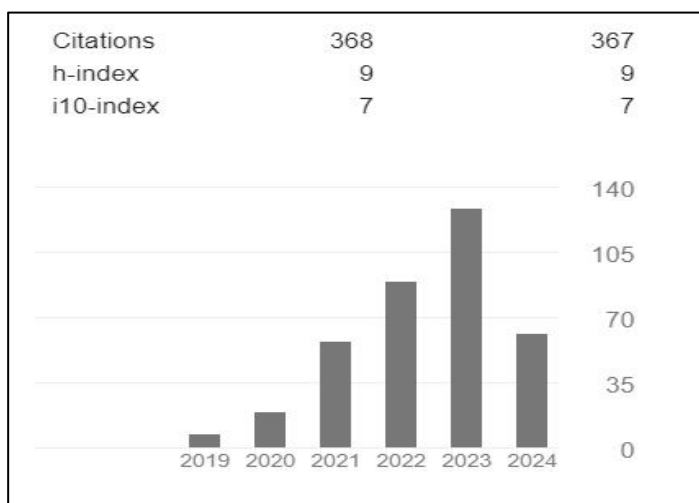


CURRICULUM-VITAE



DURDANA YASIN

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Career Objective

My goal is to advance my career in nanotechnology and its biomedical potential by engaging in innovative translational research, ultimately working towards the development of novel therapeutic strategies. I am committed to continuous learning, collaboration, and making meaningful contributions to scientific advancements in the biomedical field.

Personal Objective

I am ambitious, focused and have a positive attitude towards life with a clear vision of what I would like to be in the future.

Research Experience

- **ICMR-SRF (2021-2022):** Department of Biosciences, Cyanobacterial Biotechnology Lab, Jamia Millia Islamia (Central University), New Delhi.
(Project Title: *Synthesis of mesoporous silica nanoparticle for delivery of siRNA to shut down STAT3 in liver cancer cells*)
- **SRF (2015-2018) & JRF (2013-2015):** Department of Biosciences, Cyanobacterial Biotechnology Lab and Genome biology Lab, Jamia Millia Islamia (Central University), New Delhi.
(Thesis entitled: *Determination of Anticancer Efficacy of Cyanobacterial Extracts*’.)

Other Experience

- Currently working as an Assistant Professor at Integral University, Lucknow
- Have been reviewer for IGI global publishers

Educational Qualifications

- Ph.D Biosciences in Jamia Millia Islamia (March, 2020).
- I have scored 8.9 SGPA in **M.Sc Biosciences** (2013) from Jamia Millia Islamia, New Delhi.
- 84.51% in B.Sc Biosciences (2008-2011) from Jamia Millia Islamia, New Delhi.
- 83.57% in Secondary Certificate Examination (class X) in the academic year 2006.
- 81.00% in Senior School Examination (class XII) in the academic year 2008.

Honors / Awards

- **AETDS**, Young Women Scientist Award-2021
- **IJRULA**, Research Peace Awards 2019, BEST RESEARCHER IN CANCER THERAPEUTICS IN 2019.
- **Received second best poster prize at** National conference On Basic and Applied Researches in Plants and Microbes November 3-5, 2016 at Department of Botany, Punjabi University, Patiala, Punjab, India.
- **Senior Research Fellowship (UGC)**, in the Jamia Millia Islamia (Central University) New Delhi, 2015-2018.
- **Qualified UGC-NET-JRF** in June 2013.
- **Qualified ICMR-JRF** in 2013.
- **Qualified UGC-NET-LS** twice in June 2012 and December 2012
- **Qualified GATE-Life sciences-2012** (97 percentile)
- **Gold medalist M.Sc. (Biosciences) in 2013**
- **Gold medalist B.Sc. (Biosciences) in 2011**

Techniques known

- Cyanobacterial culture maintenance and growth, purification and identification of algal strains.
- Antioxidant assays
- Hemolysis Assay
- Animal Tissue culture
- Protein extraction from animal tissue
- Gel electrophoresis
- MTT Assay.
- DNA and RNA extraction from animal and cyanobacterial cells
- DNA fragmentation assay
- DAPI staining
- Chromatography
- PCR, RT-PCR
- Microbiological techniques
- Western blotting
- Nanoparticle synthesis
- Anti-oxidant enzyme assays

Publications

1. Sami, N., Afzal, B., **Yasin, D.**, & Fatma, T. (2024). Biochemical Characterization of Laccase from *Spirulina* CPCC-695 and Their Role in Estrone Degradation. *The Protein Journal*, 43(1), 115-128.
2. Sami, N., Afzal, B., Rehmanji, M., Naaz, H., **Yasin, D.**, Jutur, P. P., & Fatma, T. (2023). Insight into the mechanism of estrone biodegradation by *Spirulina* CPCC-695. *Environment, Development and Sustainability*, 1-26.
3. **Yasin, D.**, Sami, N., Afzal B., Husain, S., Naaz, H., Ahmad, N., Zaki, A., Moshahid Rizvi, MA., Fatma, T. (2023) Prospects in the use of gold nanoparticles as cancer theranostics and targeted drug delivery agents. Review article. *Applied Nanosciences*, Springer Nature. DOI: [10.1007/s13204-022-02701-5](https://doi.org/10.1007/s13204-022-02701-5)
4. Afzal, B., Naaz, H., Ahmed, S., Zeya, B., Imtiyaz, K., **Yasin, D.**, ... & Fatma, T. (2022). Biosynthesis, characterization and biomedical potential of *Arthrospira indica* SOSA-4 mediated SeNPs. *Bioorganic Chemistry*, 106218.
5. Siddiqui, T., Khan, N. J., Asif, N., Ahamad, I., **Yasin, D.**, & Fatma, T. (2022). Screening, characterisation and bioactivities of green fabricated TiO₂ NP via cyanobacterial extract. *Environmental Science and Pollution Research*, 1-15.
6. Afzal, B., Naaz, H., Sami, N., **Yasin, D.**, Khan, N. J., & Fatma, T. (2022). Mitigative effect of biosynthesized SeNPs on cyanobacteria under paraquat toxicity. *Chemosphere*, 293, 133562.
7. Zaki, A., Aziz, M. N., Ahmad, R., Ahamad, I., Ali, M. S., **Yasin, D.**, ... & Fatma, T. (2022). Synthesis, purification and characterization of *Plectonema* derived AgNPs with elucidation of the role of protein in nanoparticle stabilization. *RSC Advances*, 12(4), 2497-2510.
8. Husain, S., Verma, S.K., Nandi, A., Akram, S. and **Yasin, D.** (2021). Emerging Role of Biosynthesized Silver Nanoparticles for Agricultural Applications. *Nanotechnology in Sustainable Agriculture*. 225-246.
9. Afzal, B., **Yasin, D.**, Naaz, H., Sami, N., Zaki, A., Rizvi, M. A., ... & Fatma, T. (2021). Biomedical potential of *Anabaena variabilis* NCCU-441 based Selenium nanoparticles and their comparison with commercial nanoparticles. *Scientific Reports*, 11(1), 1-15.
10. Sami, N., Afzal, B., Rehmanji, M., Naaz, H., **Yasin, D.**, Jutur, P. P., & Fatma, T. (2023). Insight into the mechanism of estrone biodegradation by *Spirulina* CPCC-695. *Environment, Development and Sustainability*, 1-26.
11. Sami, N., Afzal, B., **Yasin, D.**, & Fatma, T. (2023). Biochemical Characterization of Laccase from *Spirulina* CPCC-695 and Their Role in Estrone Degradation. *The Protein Journal*, 1-14.
12. Ahmad, N., **Yasin, D.**, Bano, F., & Fatma, T. (2022). Ameliorative effects of endogenous and exogenous indole-3-acetic acid on atrazine stressed paddy field cyanobacterial biofertilizer *Cylindrospermum stagnale*. *Scientific Reports*, 12(1), 1-13.
13. Naaz, H., **Yasin, D.**, Afzal, B., Sami, N., Khan, N.J. and Fatma, T. (2021). Exogenous salicylic acid mediated herbicide (Paraquat) resistance in cyanobacterial biofertilizer *Microchaete* sp. NCCU-342. *Environmental Science and Pollution Research*. 1-11.
14. Ansari, S., Sami, N., **Yasin, D.**, Ahmad, N., & Fatma, T. (2021). Biomedical applications of environmental friendly poly-hydroxyalkanoates. *International journal of biological macromolecules*, 183, 549-563
15. Husain, S., Verma, S. K., **Yasin, D.**, Rizvi, M. M. A., & Fatma, T. (2020). Facile green bio-fabricated silver nanoparticles from *Microchaete* infer dose-dependent antioxidant and anti-proliferative activity to mediate cellular apoptosis. *Bioorganic Chemistry*, 104535.
16. Sami, N., Ansari, S., **Yasin, D.**, & Fatma, T. (2020). Estrone degrading enzymes of *Spirulina* CPCC-695 and synthesis of bioplastic precursor as a by-product. *Biotechnology Reports*, 26, e00464.
17. Fakhri, K. U., Alotaibi B S, Kumar S, Kumar U, Onkar S C, Mathur A, Kazim Z, Perwez A, **Yasin D**, Zeya B, Ahmad F. J., Rizvi MMA (2020). Phytopharmaceuticals in Cancer Treatment. Book Chapter In: *Handbook of Research on Advancements in Cancer Therapeutics*. IGI Global.
18. **Yasin, D.**, Zafaryab, M., Fakhri, K. U., Husain, S., Afzal, B., Sami, N., Hemlata, Rizvi, M. M. A., & Fatma, T. (2020). Apoptotic Pathway: A Propitious target for Cancer Treatment. Book Chapter In: *Handbook of Research on Advancements in Cancer Therapeutics*. IGI Global

19. **Yasin, D.**, Ahmad, N., Rizvi, M.A., & Fatma, T. (2020). Cyanobacteria as a Promising Source of Therapeutic Agents against Various Human Diseases. Book Chapter In: Phycobiotechnology-Biodiversity and Biotechnology of Algae and Algal Products for Food, Feed, and Fuel. CRC-Press, Taylor and Francis (In Print).
20. Afzal, B., **Yasin, D.**, Husain, S., Zaki, A., Srivastava, P., Kumar, R., & Fatma, T. (2019). Screening of cyanobacterial strains for the selenium nanoparticles synthesis and their anti-oxidant activity. *Biocatalysis and Agricultural Biotechnology*, 21, 101307.
21. Husain, S., Afreen, S., **Yasin, D.**, Afzal, B., & Fatma, T. Cyanobacteria as a bioreactor for synthesis of silver nanoparticles-an effect of different reaction conditions on the size of nanoparticles and their dye decolorization ability. *J. Microbiol methods*. 2019, 162, 77-82.
22. **Yasin D**, Zafaryab M, Ansari S, Ahmad N, Khan NF, Zaki A, Rizvi MM, Fatma T. Evaluation of antioxidant and anti-proliferative efficacy of *Nostoc muscorum* NCCU-442. *Biocatalysis and Agricultural Biotechnology*. 2019 Jan 1;17:284-93.
23. **Yasin D**, Fatma T, Zafaryab M, Ahmad N, Aziz N, Rizvi MM. Exploring the bio-efficacies of methanolic extracts of *Nostoc muscorum* and *Calothrix brevisissima* with their characterization using GC-MS. *Nat. Prod. J.* 8, 1. *Nat. Prod. J.* 2018; 8:1.
24. **Yasin D**, Fatma T, Rizvi MM. Cyanobacteria: A cure for cancer. Book chapter in: *Bioprospecting of algae*, Editors: M.N. Noor, S.K. Bhatnagar, Shashi K. Sinha. Publisher: society for plant research. 2018.
25. Ansari S, **Yasin D**, Fatma T. Key insights of natural bioplastic polyhydroxybutyrate (PHB) synthesis in cyanobacteria. *Am J PharmTech Res.* 2016. 6;4:110-27.

Links of Professional Profiles

- Google scholar Profile
<https://scholar.google.com/citations?user=r2VvWuQAAAAJ&hl=en&oi=ao>
- Research gate Profile
<https://www.researchgate.net/profile/Durdana-Yasin>