

Name: Dr. Shatavari Kulshrestha

Designation: Assistant Professor

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Area of specialization: Application of nanoparticles in medical microbiology

Academic Qualifications

- **Ph. D. Biotechnology (2015)**
Interdisciplinary Biotechnology Unit, A.M.U, Aligarh, U.P.
Thesis Title: *Nanoparticle induced suppression of microbial biofilm*
- **M.Sc. Biotechnology (2011)**
Department of biotechnology, H.P.U, Summer hill, Shimla, H.P.
Project Title: *Optimization of process parameters for fruit juice clarification using silica immobilized xylanase from Pseudomonas sp.XPB-6*
- **B.Sc. Biotechnology (2009)**
Banasthali vidyapeeth, Banasthali, Rajasthan

Awards and Achievements

- ✓ Awarded **UGC- BSR (SRF)** fellowship in **February 2015**
- ✓ Qualified **CSIR- UGC NET (JRF)** examination in **March 2013**
- ✓ Awarded **UGC-BSR (JRF)** fellowship in **February 2013**
- ✓ Qualified **CSIR- UGC NET (LS)** examination in **December 2012**
- ✓ Qualified **GATE (Biotechnology)** examination in **February 2011 and February 2010**
- ✓ Qualified **Biotechnology combined entrance test** after graduation and awarded **DBT post graduate fellowship in M.Sc.**

Publications

1. **Shatavari Kulshrestha**, Shakir Khan, Sadaf Hasan, Ehtisham Khan, Lama Misba and Asad U. Khan. Calcium fluoride nanoparticles induced suppression of *Streptococcus mutans* biofilm: An in vitro and in vivo approach. *Applied Microbiology and Biotechnology*, 2016; 100 (4): 1901-1914. (**Impact factor: 3.376, Citation: 5**)
2. **Shatavari Kulshrestha**, Shakir Khan, Ramovatar Meena, Braj R Singh, Asad U Khan: A graphene/zinc oxide nanocomposite film protects dental implant surfaces against cariogenic *Streptococcus mutans*. *Biofouling: The Journal of Bioadhesion and Biofilm Research*, 2014; 30(10): 1281-1292. (**Impact Factor: 3, Citation: 12**)
3. Lama Misba, **Shatavari Kulshrestha** and Asad U. Khan. Antibiofilm action of toluidine blue O-Silver nanoparticle conjugate on *Streptococcus mutans*: A mechanism of type I photodynamic therapy. *Biofouling: The Journal of Bioadhesion and Biofilm Research*, 2016; 32:3, 313-328. (**Impact Factor: 3, Citation: 3**)
4. Pawan Kumar Sharma, **Shatavari Kulshrestha**, Duni Chand. Optimization of process parameters for fruit juice clarification using silica immobilized xylanase from *Pseudomonas Sp.* *Pure and Applied Biology*, 2012; 1(2): 52-55. (**Citation :3**)
5. ***Shatavari Kulshrestha**, Shariq Qayyum and Asad U. Khan. Facile green synthesis of graphene oxide-silver nanocomposite using *Lagerstroemia speciosa* floral extract: A study of its antibiofilm mechanism on *Streptococcus mutans* and *Enterobacter cloacae* (**Communicated*).
6. ***Shatavari Kulshrestha**, Asad U. Khan. Nanomedicine: application of nanoparticle as therapeutic (review article) (**Communicated*).

Workshops/Conferences Attended:

- Attended “International symposium on Emerging discoveries in microbiology” , School of Life Sciences, Jawaharlal Nehru University, New Delhi, India, **7-10 December, 2015**.
- Attended “Science Communication Workshop” Aligarh Muslim University, Aligarh, India, **26 March, 2015**.
- Attended international conference on nanoscience and nanotechnology “Aligarh Nano IV International 2014” organised by Department of Applied Physics, Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh, India, **8-10 March**,

2014.

- Presented poster (**First prize**) at National Symposium on “New facets of Biotechnology from Genes to Proteins” sponsored by UGC, DST and DBT, Govt. of India, New Delhi, organized by Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, India, **15-17 January, 2014.**
- Presented a poster (**First prize**) at “3th Annual meeting of the Indian Academy of Biomedical Sciences & Symposium on Modern Trends in Human Diseases” organized by Department of Biochemistry, JNMC, Aligarh Muslim University, Aligarh, India, **14 -15 December, 2013.**