



**Bhaskaracharya College of Applied Sciences
(University of Delhi)
Sector II, Phase I, Dwarka, New Delhi – 110075**

FACULTY PROFILE

Title	Dr	First Name	UMA	Last Name	CHAUDHRY	Photograph
Designation	ASSISTANT PROFESSOR					
Department	BIOMEDICAL SCIENCE					
Address (Campus)	Department of Biomedical Science					
Contact Details	9811746265, 011-27315753					
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Email Id	uma.chaudhry@bcas.du.ac.in					
Educational Qualification	Subject	Institution				
Ph. D. (2001)	Biomedical Science	Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi				
M. Sc. (1994-96)	Biotechnology	Madurai Kamaraj University, MADURAI				
B. Sc. (1991-94)	Biochemistry	Daulat Ram College, University of Delhi				
Research Interests/ Specialization						
<p>My research studies are based on molecular diagnostics and understanding drug resistance at the molecular level. Primarily students are working towards their Ph. D. thesis on Pathogen detection using molecular tools and developing kits which are highly sensitive, specific and cost-effective. Antimicrobial surveillance studies are also being carried out on <i>Neisseria gonorrhoeae</i> and pathogenic <i>Escherichia coli</i>.</p>						

Teaching Interest			
My teaching interest includes Biochemistry, Molecular Biology, Medical Biotechnology, Genome Organization and Function, Microbiology and Pathology.			
Achievements/Research / Patents			
<p>Research Guidance:</p> <p>Mr. Mahaveer Chand Golechha has successfully defended his Ph. D. work under joint supervision of myself and Dr. D. S. Arya from Department of Pharmacology, AIIMS, New Delhi in March 2012. Topic of his thesis is ‘Pharmacological and molecular approaches to investigate neuroprotective effect of naringin in preclinical models of Alzheimer’s disease, epilepsy and stroke.’ Date of Registration : 3rd November, 2008.</p> <p>Mr. Prashant Kumar Mishra has successfully defended his Ph. D. work under the joint supervision of myself and Prof. Daman Saluja from Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi in March 2015. Topic of his thesis is ‘Mining Genome of <i>Chlamydia trachomatis</i> to identify vaccine candidates’. Date of Registration : 22nd October, 2010.</p> <p>Ms. Alka Pawar registered towards her Ph. D. programme. Title of her thesis is “Identification and Characterization of hidden drug targets present during the latent stages of infection caused by <i>Mycobacteria tuberculosis</i>’. Date of Registration : 4th June 2015</p> <p>Mr. Rajnish Kumar registered towards his Ph. D. programme. Title of his thesis is “High-throughput screening of Food Pathogens using PCR technique and biosensors. Date of Registration : 5th September 2016</p>			
Publications (Last Five Years)			
Year of Publication	Title	Journal	Co-author/s
2016	<i>In-silico</i> Hierarchical Approach for the Identification of Potential Universal Vaccine Candidates (PUVCs) from <i>Neisseria gonorrhoeae</i> .	J Theor Biol. 7;410:36-43. doi: 10.1016/j.jtbi.2016.09.004, Impact Factor 2.156	Jain R, Sonkar SC, Chaudhry U, Bala M, Saluja D.
2014	Naringin ameliorates pentylenetetrazol-induced seizures and associated oxidative stress, inflammation, and cognitive impairment in rats: possible mechanisms of neuroprotection.	Epilepsy Behav; 41:98-102. Do: 10.1016/j.yebeh.2014.09.05 PMID: 25461197 Impact Factor 2.225	Golechha M, Sarangal V, Bhatia J, Chaudhry U, Saluja D, Arya DS.
2014	Sero-prevalence of antibodies against Pkn1, a novel potential immunogen, in <i>Chlamydia trachomatis</i> -infected <i>Macaca nemestrina</i> and human patients.	Biomed Res Int. VOL 2014 Article ID 245483. doi: 10.1155/2014/245483. PMID: 25032212. Impact Factor 1.579	Patel AL, Mishra PK, Sachdev D, Chaudhry U, Patton DL, Saluja D.

Project (Minor/Major)			
<p>(1) "Use of Foldscope for the speed identification of microbial load on fresh produce: An inexpensive and point-of-care solution for screening of microbes." Principal Investigator : Dr. Uma Chaudhry Funding Agency: DBT sponsored project Sanctioned Amount Rs 8 lakhs Period of two years (2018-2019)</p> <p>(2) "Safeguarding Immunity and Health versus Indiscriminate use of Antibiotics: Building Medical Awareness and capacity for informed choice through multi level orientation, exhibitions and demonstrations for students, paramedics, drug marketing systems and community". Principal Investigator : Dr. Uma Chaudhry and Co-Investigator: Dr. Balaram Pani Funding Agency: DST sponsored project Sanctioned Amount Rs 22,72,000/- Period of two years (2017-2019)</p> <p>(3) "Detection, Identification and Analysis of the quality of fruits and vegetables". Principal Investigator : Dr. Uma Chaudhry Funding Agency: UGC sponsored project (UGC Research Award Category) Sanctioned Amount Rs 3,00,000/- Period of two years (2016-2018)</p>			
Any other information			
<p>Certificate of Appreciation awarded for instrumental role as <i>SPOC for the NPTEL</i> Local Chapter in the college in the year 2017</p> <p>UGC Research Award 2016-18 for a period of two years for undertaking Research in an independent manner.</p> <p>Awarded with two-months of Fellowship along with my Salary under Summer Research Fellowship Program of Indian National Science Academy (INSA)</p>			