



Gulshan Yadav

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Research Area

PhD on the proposal entilted 'Studies on assessing the role of CRISPR-Cas system in virulence and resistance in *Acinetobacter baumannii*'.

Area of Interest: Bacterial resistance, Phage therapy, CRISPR-Cas, Next Generation sequence data analysis.

Qualification and Academics

Course	Year	Institution	University/Board	%	Division
Ph.D. Medical Sciences	2018-2024	ICMR-National Institute of Pathology, Safdarjung Hospital Campus, New Delhi	Manipal Academy of Higher Education, Manglore, Karnataka.	--	--
Research Scholar	2017-2018	Department of Zoology	University of Delhi	--	--
M.Sc. Zoology	2015-2017	Shri Venkateshwara College, Dhaula Kuan	Department of Zoology, University of Delhi, Delhi	60.13	1 st
B.Sc. (Hons.) Zoology	2011-2014	Shivaji College, Raja Garden	University of Delhi, Delhi	68.26	1 st
Intermediate (XII)	2010	Sarvodaya Bal Vidyalaya SS School, Vikas Puri, New Delhi	C.B.S.E.	67.80	1 st
High School (X)	2008	Pioneer Kamal Convent Secondary School, Vikas Nagar, New Delhi	C.B.S.E.	64.00	1 st

Awards & Honours

- Awarded Joint CSIR/UGC-JRF, exam conducted on June 2016 in Life sciences (Ref Roll No.: 320117).
- Awarded Joint CSIR/UGC-NET, exam conducted on December 2016 in Life sciences (UGC Ref No.: 2935/(OBC)).

Publications

- **Title:** *In silico* analysis reveals the co-existence of CRISPR-Cas type I-F1 and type I-F2 systems and its association with restricted phage invasion in *Acinetobacter baumannii*
Gulshan Yadav, and Ruchi Singh
Journal: Frontiers in Microbiology, **Impact Factor:** 6.064; **Published On:** 17/08/2022
DOI: <https://doi.org/10.3389/fmicb.2022.909886>
- **Title:** Colistin resistance among multiple ST types of *Klebsiella pneumoniae* associated with diverse resistance mechanisms: a report from India
Mudsser Azam, Rajni Gaiind, **Gulshan Yadav**....., and Ruchi Singh
Journal: Frontiers in Microbiology, **Impact Factor:** 6.064; **Published On:** 22/02/2021
DOI: <https://doi.org/10.3389/fmicb.2021.609840>

Conferences and Seminars Attended

- Presented a poster at World Microbe Forum organized by **American Society for Microbiology (ASM)** from 20-24th June 2021.
- Participated in International Symposium on Antimicrobial Resistance organised by School of Biotechnology, Amrita Vishwa Vidyapeetham (**BIOCREST**) from 24-26th, Feb 2021.
- Attended “Publishing Webinar – Tips from the editor” organized by Indian Council of Medical Research (ICMR) from 30th March 2021.
- Participated in ‘International Symposium on Biological Timing and Health Issues in the 21st Century’ from February 22-24, 2017. Organized By Department Of Zoology, University Of Delhi.
- Attended ‘IndoUS Workshop on Biological Timing and Health Issues in the 21st Workshop/Symposiums Century’ on February 21, 2017. Organized By Department Of Zoology, University Of Delhi.
- Participated in the conference to celebrate world Immunology Day ‘Nurturing Immunobiology.....and Beyond’ jointly organised by Department Of Zoology, University Of Delhi. & Indian Immunological Society. Held at Department Of Zoology, University Of Delhi.
- Participated in one day workshop on, ‘How, What and Where to Publish Research Articles?’ held at Centre for Professional Development in Higher Education (CPDHE), University of Delhi.

Academic & Technical Skills

- Professional in Microsoft Office tools (PPT, Excel, Word etc.)
- Used to with Linux based operating systems, various command line and GUI based bioinformatics software’s.
- Performed genetic manipulation (insertion, deletion, point mutations etc.) experiments using CRISPR-Cas9 technology.
- Performed PCR, RT-qPCR, ultracentrifugation, HPLC, dedicated Amino acid analyzer and handled basic laboratory instruments.
- Served in BSL-4 lab for the routine detection of COVID-19 samples through RT-qPCR.

Training & Certificates

S. No.	Title of the Course	Conducted by	Duration
1	Hands-on workshop on Next Generation Sequencing (NGS) data analysis.	Bioinformatics division, AIIMS, New Delhi.	8 Weeks
2	Health Research Fundamentals	National Institute of Epidemiology, NPTEL, Swayam Portal.	8 Weeks
3	Bacterial Genomes: From DNA to Protein Function Using Bioinformatics	Wellcome Genome Campus Advanced Courses and Scientific Conferences	2 Weeks
4	Bacterial Genomes: Disease Outbreaks and Antimicrobial Resistance.	Wellcome Genome Campus Advanced Courses and Scientific Conferences	3 Weeks
5	Bacterial Genomes: Accessing and Analyzing Microbial Genome Data	Wellcome Genome Campus Advanced Courses and Scientific Conferences	3 Weeks
6	Bacterial Genomes: Comparative Genomics Using Artemis Comparison Tool (ACT)	Wellcome Genome Campus Advanced Courses and Scientific Conferences	3 Weeks
7	Deep Exploration of the Genetic Dependencies of Antibiotic Function	SelectScience Ltd. Company	1 Hr.
8	DOEAC 'O' Level certification	National Institute of Electronics and Information Technology (NIELT)	1 Year

Organizing Skills

Served as a member of **School Management Committee (SMC)** in Govt. Co-Ed. Secondary School, Vikas Nagar, New Delhi.

Achievements and extracurricular activities

- Consolation prize in slogan competition on “Swachh Bharat” theme organized at ICMR- National Institute of Pathology, 2021.
- Participation in Hindi essay competition organized at ICMR- National Institute of Pathology, 2019.
- Third prize in Hindi quiz competition organized at ICMR- National Institute of Pathology, 2019.
- First prize in drawing competition in 5th class held at Pioneer Kamal Convent school, 2003.
- Gold medal in relay race at annual sports day conducted by Pioneer Kamal convent school.
- Zonal level Kho-kho player, Delhi.

Languages

English
Hindi

Hobbies

Poem writing
Playing bamboo flute
Teaching Students
Drawing
Playing Cricket and kabaddi