




Title	Dr.	First Name	Deepshikha	Last Name		Photograph
Designation	Assistant Professor (Ad-hoc)					
Address	Department of Biomedical Science, Acharya narendra Dev College, University of Delhi, Govindpuri, Kalkaji, Delhi-110019					
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Educational Qualifications						
Degree	Institution				Year	
Ph.D. (Biotechnology)	School of Biotechnology, Jawaharlal Nehru University, Delhi				2017	
M.Sc. (Biomedical Science)	Dr. B. R. Ambedkar Center for Biomedical Research (ACBR), University of Delhi				2010	
B.Sc. (Life Sciences)	Daulat Ram College, University of Delhi				2008	
Career Profile						
TEACHING:						
January 2021-till date:	Assistant Professor (Ad hoc)	Department of Biomedical Science, Acharya Narendra Dev College, University of Delhi				
January 2019-May 2019	Assistant Professor (Ad hoc)	Department of Biochemistry, Institute of Home Economics, University of Delhi				
August 2018-November 2018	Guest Lecturer	Department of Biochemistry, Institute of Home Economics, University of Delhi				
August 2017-November 2017 January 2018-April 2018	Guest Lecturer	Department of Biomedical Science, Acharya Narendra Dev College, University of Delhi				
RESEARCH:						
August 2019-December 2020	CSIR-Research Associate	Department of Biochemistry, All India Institute of Medical Sciences (AIIMS),				

			Delhi
July 2017-December 2018	Post Doctoral Fellow		Department of Biochemistry, All India Institute of Medical Sciences (AIIMS), Delhi
Ph.D	August 2012-July 2015	CSIR-Senior Research Fellow	School of Biotechnology, Jawaharlal Nehru University, Delhi
	August 2010-July 2012	CSIR-Junior Research Fellow	School of Biotechnology, Jawaharlal Nehru University, Delhi

Administrative Assignments

- Co-convenor of the syllabus drafting committee for the papers - 'SEC-Science Communication' and 'VAC-Skills of Science Communication'- constituted by ACBR, University of Delhi as per UGCF 2022 based on NEP 2020 guidelines for B.Sc. (H) Biomedical Science
- Member of the question papers setting team for various subjects of B.Sc.(H) Biomedical Science
- Evaluator of answer sheets for the papers taught to B.Sc. (H) Biomedical Science students
- Member of Placement Committee of the college (2022-till date)
- Member of 'Paritantra'-Eco Club of the college (2022-till date)
- Member of Social Outreach Programme Committee (National Service Scheme (NSS@ANDC) and Unnat Bharat Abhiyan (UBA)) of the college (2022-till date)
- Member of Academic Events Management Committee of the college (2022-till date)
- Member of the Garden Committee of the College (2021-2022)
- Member of the Sports Committee of the College (2021-2022)

Areas of Interest / Specialization

Molecular Virology, Viral Pathogenesis, Infection Biology, Proteomics, Genomics, Immunology

Subjects Taught

B.Sc. (H) Biomedical Science

- Theory+Practical: Bioorganic Chemistry; Biological Chemistry; Human Pathology; Human Physiology and Anatomy I and II; Medicinal Chemistry; Epidemiological Data Analysis; Cell and Radiation Biology; Concepts in Biotechnology; Toxic Substances and Human Health
- Theory: Human Genetics
- Practical: Pharmacology; Computational Biology and Drug Design; Public Speaking in English Language and Leadership

B.Sc. (H) Biochemistry

- Theory+Practical: Advanced Cell Biology; Gene organization, replication and repair
- Theory: Biochemistry of Cell; Biochemical correlation in diseases
- Practical: Intermediary metabolism; Enzymes; Genetic engineering and biotechnology

Other Subjects

- Environmental Science

Research Guidance
<ol style="list-style-type: none"> 1. ELITE Project (2023): To assess the impact of thalassemia through awareness and screening among college youth and assess the role of genetic counseling Mentors: Dr. Sunita Jetly, Dr. Ritu Khosla, Dr. Deepshikha Student: Srishti, B.Sc. (H) Biomedical Science, II year
Publications Profile
<ol style="list-style-type: none"> 1. Mishra S, Goyal P, Kumar D, Chaudhari R, Rajala MS. Experimental validation of influenza A virus matrix protein (M1) interaction with host cellular alpha enolase and pyruvate kinase. <i>Virology</i>. 2020 Oct 1;549:59-67. 2. Mishra N, Makhdoomi MA, Sharma S, Kumar S, Dobhal A, Kumar D, Chawla H, Singh R, Kanga U, Das BK, Lodha R. Viral characteristics associated with maintenance of elite neutralizing activity in chronically HIV-1 clade C-infected monozygotic pediatric twins. <i>Journal of Virology</i>. 2019 Sep 1;93(17):e00654-19. 3. Kumar D, Tiwari K, Rajala MS. Analysis of A549 cell proteome alteration in response to recombinant influenza A virus nucleoprotein and its interaction with cellular proteins, a preliminary study. <i>Acta virologica</i>. 2017 Jan 1;61(1):56-65. 4. Kumar D, Broor S, Rajala MS. Interaction of host nucleolin with influenza A virus nucleoprotein in the early phase of infection limits the late viral gene expression. <i>PLoS One</i>. 2016 Oct 6;11(10):e0164146.
Conference / Presentations /Workshops
<p>International Conferences</p> <ol style="list-style-type: none"> 1. International Vaccine Conference, November 27–29, 2017 held at International Centre for Genetic Engineering and Biotechnology (ICGEB), Delhi 2. International Conference on Medical Virology (ICMV 2014), November 5–7, 2014 held at Bangkok, Thailand. <p>National Conferences</p> <ol style="list-style-type: none"> 1. 11th TCS Annual Meeting and Workshop on ‘Flow Cytometry: Multi-Dimensional and Multi-faceted’, October 29–November 1, 2018 held at All India Institute of Medical Sciences (AIIMS), Ansari Nagar, New Delhi, India. 2. 5th Molecular Virology Meeting, February 11–12, 2017 held at Translational Health Science and Technology Institute (THSTI), NCR Biotech Science Cluster, Faridabad, Haryana, India. 3. National Conference on Recent Trends in Molecular Virology 2014, November 17–19, 2014 held at Jamia Millia Islamia, New Delhi, India. 4. Asia Pacific Congress of Virology, December 17–20, 2013 held at Amity Institute of Virology and Immunology, Amity University, Uttar Pradesh, India. 5. Participated in BIOEPOCH– 2010 to 2016, annual science fest at School of Biotechnology, JNU, New Delhi, India.

Oral Presentation & Webinars

1. Webinar given on the topic “Advanced techniques in the era of single cell biology” at Department of Biochemistry, Institute of Home Economics, University of Delhi on 01st May 2020. (Google Meet meeting ID: 76741900448)
2. Webinar given on the topic “Basics of flow cytometry” at Department of Biochemistry, Institute of Home Economics, University of Delhi on 27th April 2020. (Google Meet meeting ID: 78388885178)
3. “Proteomic analysis of cells expressing recombinant Influenza A viral nucleoprotein of 2009 H1N1 pandemic strain” presented at International conference on Medical Virology (ICMV 2014), November 5–7, 2014 held at Bangkok, Thailand.

Poster Presentations

1. “Interaction of host cellular factors with Influenza A virus nucleoprotein” (Deepshikha and Maitreyi S Rajala) presented at 5th Molecular Virology Meeting, February 11–12, 2017, held at THSTI, NCR Biotech Science Cluster, Faridabad, Haryana.
2. “Host cellular nucleolin: Does it limit Influenza A virus replication through its interaction with viral Nucleoprotein?” (Maitreyi S Rajala and Deepshikha Kumar) presented at 8th Australasian Virology Society (AVS) meeting, December 6–9, 2015, held at Hunter Valley, NSW, Australia and the same poster was awarded second prize for best poster presentation at BIOEPOCH-2016, JNU.
3. “Host cellular protein interactions with Influenza A viral proteins (Nucleoprotein (NP) and Matrix protein (M1) and their role in the regulation of viral replication” (Deepshikha, Abhishek Pandey and Maitreyi S Rajala) presented on National Science Day, February 28, 2015 held at JNU.
4. “Differential regulation of antioxidant enzymes in response to Influenza A viral recombinant M1 protein of H1N1 2009 pandemic strain” (Abhishek Pandey, Deepshikha, Rajan Chaudhari, Anita Loha, Maitreyi S. Rajala) presented at “National Conference on Recent trends in Molecular Virology 2014”, November 17–19, 2014 held at Jamia Millia Islamia, New Delhi.
5. “Identification of host cellular factors interacting with Influenza A viral Nucleoprotein” (Deepshikha and Maitreyi S. Rajala) presented at Asia Pacific Congress of Virology, December 17–20, 2013 held at Amity Institute of Virology and Immunology, Amity University, UP.
6. “Interaction of Influenza A viral Nucleoprotein (NP) with host cellular factors” (Deepshikha Kumar and Maitreyi S. Rajala) presented on National Science Day, February 28, 2013 held at JNU.

Workshop and courses

1. Completed an online course in untargeted metabolomics using high-resolution mass spectrometry conducted by Centre for Cellular and Molecular Platforms (C-CAMP) from June 25-26, 2020.
2. Completed an online NGS and Bioinformatics Training-cum-workshop conducted by Bengaluru Genomics Centre (BGC) from May 18-26, 2020.
3. Participated in ‘Workshop on High-Dimensional Cell and Data Analysis’, organized from April 23-24, 2019 at All India Institute of Medical Sciences (AIIMS), Ansari Nagar, New Delhi, India.
4. Participated in 11th TCS Annual Meeting and Workshop on ‘Flow Cytometry: MultiDimensional and Multi-faceted’, organized from October 29-November 1, 2018 at All India Institute of Medical Sciences (AIIMS), Ansari Nagar, New Delhi, India.

5. Participated in “An Overview of Cellular and Molecular Immunology” course organized from February 1-4, 2018 at Translational Health Science and Technology Institute (THSTI), NCR Biotech Science Cluster, Faridabad, Haryana, India.
6. Participated in ‘Live Cell Imaging’ workshop held on April 28, 2015 at Advanced Instrumentation Research Facility (AIRF), JNU, New Delhi, India.
7. Completed a short-term course in Green Chemistry from Hindu College, University of Delhi, North Campus, Delhi, India. August 2007 – December 2007.

Organizing Committee Member for

1. CATHEXIS’23- the annual fest of the Department of Biomedical Science, Acharya Narendra Dev College held on April 13, 2023
2. One day Hands-on Workshop on Forensic Science held on April 12, 2023 at Acharya Narendra Dev College, Govindpuri, Kalkaji, Delhi.
3. ‘Panel Discussion with Alumni’ held on April 11, 2023 under ANDC career counseling series at Acharya Narendra Dev College, Govindpuri, Kalkaji, Delhi.
4. Outreach Workshop on “Cell and Molecular Biology Techniques” held from October 12-13, 2022 at Acharya Narendra Dev College, Govindpuri, Kalkaji, Delhi.
5. National Workshop on “Career and Skill Enhancement of Non-teaching Staff” held on September 17, 2022 at Acharya Narendra Dev College, Govindpuri, Kalkaji, Delhi.
6. A seminar on “Studying in Europe-Interaction with seniors” under the ANDC career counseling series held on August 29, 2022 at Acharya Narendra Dev College, Govindpuri, Kalkaji, Delhi.
7. National Workshop (Virtual) on Flow Cytometry and qPCR Based Blood Analyses held from October 20-24, 2021 held online on Zoom.
8. A webinar on “Introduction to Digital Forensics and Electronic Evidences” held on April 3, 2021 on Google Meet (<https://meet.google.com/btj-itvu-jqw>)
9. A webinar on “Career in Forensic Science” under the ANDC career counseling series held on March 20, 2021 on Google Meet (<https://meet.google.com/ujx-wony-bjg>)
10. A webinar on “Studying in Europe-Interaction with seniors” under the ANDC career counseling series held on March 14, 2021 on Google Meet (<https://meet.google.com/yys-uzoy-ume>)
11. A webinar on “Career after MBA- exploring the unexplored” under the ANDC career counseling series held on March 7, 2021 on Google Meet (<https://meet.google.com/hrs-cmbd-uyd>)
12. CATHEXIS’21- the annual fest of the Department of Biomedical Science, Acharya Narendra Dev College held on January 21, 2021.
13. Workshop entitled “ELISA and PCR techniques in Immunology and Molecular Biology” held on February 7, 2019 at Institute of Home Economics, Hauz Khas, Delhi..
14. 4th Technical workshop on “Introduction to Clinical Biochemistry” held from January 24-25, 2019 at Institute of Home Economics, Hauz Khas, Delhi.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

- Research Associateship (2019-20) from Council of Scientific and industrial research (CSIR), Govt. of India
- Senior Research Fellowship (2012 – 2015) from Council of Scientific and industrial research (CSIR), Govt. of India
- Junior Research Fellowship (2010 – 2012) from Council of Scientific and industrial research (CSIR), Govt. of India

- Won second prize for poster presentation at BIOEPOCH-2016, the annual science fest, School of Biotechnology, JNU.
- Qualified CSIR-UGC NET (JRF+LS) held in June, 2009 and December, 2009
- Qualified GATE-2010

Association With Professional Bodies

Other Activities