


STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Dr.	First Name	Rinu	Last Name	Sharma	
Designation		Assistant Professor				
School /Dept. Name		University School of Biotechnology				
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Web Page (if any)	https://www.researchgate.net/profile/Rinu-Sharma https://scholar.google.com/citations?hl=en&user=McQwB9MAAAAJ					
Subjects Taught	<p>B.Tech. Biotechnology Program</p> <ul style="list-style-type: none"> • Animal Tissue Culture laboratory • Immunology • Food Biotechnology • Biostatistics • Foundation in Biology <p>M.Tech. Biotechnology Program</p> <ul style="list-style-type: none"> • Biotechnology in Healthcare • Clinical immunology and Immunotechnology • Molecular and Cellular Biology of Cancer <p>Ph.D. Biotechnology Program</p> <ul style="list-style-type: none"> • Cancer Biology • Research Methodology 					
Areas of Interest/Specialization	<p>Broad interest of our research group is to understand the molecular mechanism underlying esophageal carcinogenesis and develop strategies for early diagnosis and effective treatment of this disease.</p> <p>Current Research Interest:</p> <ul style="list-style-type: none"> • Understanding mechanism underlying chemoresistance in esophageal cancer cells • Identification of markers for predicting response to neoadjuvant therapy in esophageal cancer • Unravelling the role of MARCH E3 ligases in esophageal carcinogenesis • Role of non-coding RNAs (miRNAs and LncRNAs) in development and progression of esophageal cancer as well as chemoresistance • Identification of non-invasive blood based biomarkers for early diagnosis of esophageal cancer 					
Experience (in years)	Total	17 years				
	Industry	-				

	Teaching	14 .5 Years
	Research	17 Years
Educational Qualifications	UG	BSc. Microbiology, University of Delhi
	PG	M.Biotechnology, All India Institute of Medical Sciences, New Delhi
	Doctorate	All India Institute of Medical Sciences, New Delhi
	Any other	-
Research Publications in Journals (last 5 years)	<ol style="list-style-type: none"> 1. Shubhi Gupta, Aprajita, Rinu Sharma. In-silico Analysis to Identify Differentially Expressed and Methylated Genes in Esophageal Squamous Cell Carcinoma: Search for Potential Biomarkers. ECS Transactions 2022. Volume 106 2. Geetika Suyal, Prerna Pandey, Anoop Saraya and Rinu Sharma. Tumour suppressor role of microRNA-335-5p in esophageal squamous cell carcinoma by targeting TTK (Mps1) Journal of Experimental and Molecular Pathology 2022 Feb;124:104738. 3. Aprajita and Sharma R. Comprehending Fibroblast Growth Factor Receptor Like 1: Oncogene or Tumor suppressor? Cancer Treatment and Research Communications. 2021 Oct 5;29:100472. 4. Singh S, Bano A, Saraya A, Das P, Sharma R. iTRAQ-based analysis for the identification of MARCH8 targets in human esophageal squamous cell carcinoma. J Proteomics. 2021 Mar 30;236:104125 5. Sharma P and Sharma R. miR-144 functions as an oncomiR in KYSE-410 human esophageal carcinoma cell line in vitro and targets PURA. Neoplasma, 2018;65(4):542-551. 6. Sharma P, Saraya A, Sharma R. Serum-based six-miRNA signature as a potential marker for EC diagnosis: Comparison with TCGA miRNAseq dataset and identification of miRNA-mRNA target pairs by integrated analysis of TCGA miRNAseq and RNAseq datasets. Asia Pac J Clin Oncol. 2018 Oct;14(5):e289-e301. 7. Singh S, Saraya A, Das P, Sharma R. Increased expression of MARCH8, an E3 ubiquitin ligase, is associated with growth of esophageal tumor. Cancer Cell Int. 2017 Dec 4;17:116. 8. Sharma P, Saini N, Sharma R. miR-107 functions as a tumor suppressor in human esophageal squamous cell carcinoma and targets Cdc42. Oncol Rep. 2017 May;37(5):3116-3127. 	

Papers Published in Conference Proceedings (last 5 years)				
Books Authored/Book Volume Chapters				
No. of Conferences	National	Attended		Organized
		Thirteen (13)		
	International	Twenty-four (24)		
Research Guidance	Awarded	PG	M. Phil	Doctorate
		Six (06)		Two (02)
	Undergoing	One (01)		Four (04)
Research Projects	Completed	Ten (10)		
	Undergoing	Four (04) <ul style="list-style-type: none"> • 2019-2022: ICMR sanctioned project entitled “Global miRNA expression profiling to predict response of esophageal carcinomas to neoadjuvanttherapy” • 2019-2022: CSIR sanctioned project entitled “Understanding miRNA mediated regulation of chemoresistance in esophageal cancer” • 2022-2024: DST sanctioned project entitled “Development of point of care device for identification of specific Oral Cancer” • 2021-22: GGSIPU sanctioned project entitled “miRNA Mediated Regulation of FGFR1 in Esophageal Cancer” 		
Awards & Distinctions	<ul style="list-style-type: none"> • RAMNATH HIRALAL JAJU AWARD for the best oral presentation by mid-level scientists. Clinical and functional implications of miRNAs and their targets in esophageal cancer. 35th Annual Convention of Indian Association for Cancer Research (IACR) 2016. 8th-10th April, 2016. Hotel Ashoka, Chanakyapuri, New Delhi. 8th-10th April, 2016. Rinu Sharma. • Sitaram Joglekar Award for best oral presentation during XXIV Annual Convention of Indian Association for Cancer Research (IACR) 2005 • SCHOLAR OF THE YEAR AWARD – “Mata Prasad Award” B.Sc. (Hons.) Microbiology Part III awarded by Ram Lal Anand college 1997. • GOLD MEDAL - B.Sc. (Hons.) Microbiology awarded by University of Delhi 1997. 			

Administrative Assignments Handled	<ul style="list-style-type: none"> • Member Secretary, IEC, GGSIPU • USBT coordinator for NIRF • USBT coordinator for NAAC • Member, NAAC Core Committee • Member, IIQAC, GGSIPU • Nodal officer, AICTE NDF program • Nodal officer (USBT) International Affairs (USS) • Academic Audit coordinator of USBT • Nodal officer EWS scheme for USBT • Member, DST FIST Program Committee USBT • Member Task force for the safety of Women on Campus • Ph.D. Program Coordinator (USBT) • ATC Lab Incharge (USBT) • Examination USBT Coordinator • Time Table Incharge (USBT) (2009-2017) • USBT Coordinator for Faculty Feedback System (2017-18)
Association with Professional Bodies	<ul style="list-style-type: none"> • Active member, American Association of Cancer Research (AACR) • Life member, Indian Association of Cancer Research (IACR) • Member, European Society for Medical Oncology (ESMO)
Any other Achievements	<p>Lectures Delivered:</p> <ol style="list-style-type: none"> 1. Panoramic view of Small Non-Coding RNAs in Esophageal Cancer: Impact on Diagnosis and Therapy. National Webinar “Recent Trends in Cancer Research” organised by Department of Biochemistry, Institute of Home Economics, University of Delhi (Under the aegis of IQAC and DBT Star College Scheme) to mark the International Cancer Day 4th February, 2022 2. SMALL MOLECULES MAKE A BIG IMPACT: A PANORAMIC VIEW OF miRNAs IN ESOPHAGEAL CANCER. National Webinar Series Organised by Sukshmjeev Society, DEPARTMENT OF MICROBIOLOGY, University of Delhi (Under the aegis of IQAC and DBT Star College Scheme) October 01, 2021 3. Resource person in An online certificate course entitled "Science Writing and Research Ethics" Ram Lal Anand College, University of Delhi, South campus, offered under DBT-Star College Scheme granted to Department of Microbiology. 20th July 2020. 4. MicroRNAs and Esophageal Cancer: Tiny Molecules with Big Impact. One day symposium on Role of Non-Coding RNAs (Human & Plant) on 4th September, 2018 in AMITY UNIVERSITY, GURGAON 5. microRNAs and their role in diagnosis of cancer. Seminar held in Department of Microbiology at Ram Lal Anand College, a University of Delhi, South Campus, on Monday, 06th November 2017. 6. miRNAs as Biomarkers in Esophageal Cancer. Workshop on “Basic Molecular Biology Techniques relevant to Cancer Research- Hands on Training” organized at the Institute of Cytology & Preventive Oncology (ICMR), Department of Health Research (Ministry of Health & Family Welfare, Govt. of India) Sector 39, Noida, INDIA from 4th-7th April, 2016. <p><u>Reviewer for the following Journals:</u></p> <ul style="list-style-type: none"> • EJSO - The Journal of Cancer Surgery (Elsevier)

	<ul style="list-style-type: none">• Cancer Biomarkers• Frontiers Oncology• Tumor Biology
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