




Faculty Detail Performa



Name of Faculty

Name	Radhika Gupta	
Designation	Assistant Professor	
Department	Biochemistry	
Email	radhikagupta@dr.du.ac.in	

Educational Qualification

Degree	Institution	Year
Ph.D	IGIB, New Delhi	2015
M.Sc	Delhi University	2002
B.Sc	Delhi University	2000
Higher Secondary	Air Force Bal Bharti School (CBSE)	1997

Full Time Research Experience

Designation	Institute	Time period	Nature of Appointment
Research specialist	Johns Hopkins University	June 2007-March 2010	Research work in the field of tuberculosis

Full time Teaching Experience

s.n o	Designation	Institution	Time Period	Nature of Appointment
1.	Assistant Professor	Institute of Home Economics	July 2016-December 2016	Teaching undergraduate students of BSc honours Biochemistry and postgraduate students of MSc home science
2.	Assistant Professor	Daulat Ram College	July 2017-present	Teaching undergraduate students of BSc honours Biochemistry and research work and training in Zebrafish

Administrative Assignments

Name of Institute	Designation	Status	Time period	Experience
Daulat Ram College	Assistant Professor	completed	2018, June	Worked in help desk during admissions
Daulat Ram College	Assistant professor	Completed	2018-2020	Member of Eco club
Daulat Ram	Assistant	ongoing	2020-present	Member of students amenities

College	Professor			
Daulat Ram College	Assistant Professor	ongoing	2020-present	Ranking work of college
Daulat Ram college	Assistant Professor	ongoing	2021-present	College website work

Areas of Interest in Teaching:

Hormones biochemistry, Human physiology, Bioinformatics, Nutritional Biochemistry, Infectious diseases, Genetics, Proteins and enzymes, biomolecular techniques

Subjects Taught

S.No	Course	Subject Taught	Semester	Year
1.	BSc Hons biochemistry	Hormones biochemistry, Human physiology, Bioinformatics, tools and techniques	III and IV	2017,2018,2019, 2020,2021,2022
2.	BSc Hons biochemistry	Nutritional Biochemistry, Infectious diseases	V and VI	2017,2018,2019, 2020,2021,2022
3.	BSc Hons biochemistry	Genetics	V	2017,2018
4.	BSc Hons Botany, Zoology	Proteins and Enzymes, Biochemical correlation of diseases, tool and techniques	III	2019,2020,2022

Publications:

Book Chapters/Articles

S.No	Citation	Publisher	Date of publishing(D M M Y Y 0)	Authored/Edited	ISBN No
1.	Genome Engineering via CRISPR-Cas9 Systems 1 st edition	Elsevier	21st February 2020	Chapter 17: Functional understanding of CRISPR interference: its advantages and limitations for gene silencing in bacteria Ajitesh Lunge, Eira Choudhary, Rishabh Sharma, Radhika Gupta and Nisheet Agarwal	Paperback ISBN: 9780 128181409

Research Publications:

International

S.No	Citation	Date of Publishing	Impact Factor	UGC Care List Journal Yes/No	Scopus Indexed Journal Yes/No	ISSN No	citation
1.	Requirement of the mymA operon for appropriate cell wall ultrastructure and persistence of Mycobacterium tuberculosis in the spleens of guinea	June 2005	2.6	yes	yes	1098-553	109

	pigs. Singh A, Gupta R, Vishwakarma RA, Narayanan PR, Paramasivan CN, Ramanathan VD, Tyagi AK. J Bacteriol. 2005 Jun; 187 (12) :4173-86.2 Journal of Bacteriology						
2.	Disruption of mptpB impairs the ability of Mycobacterium tuberculosis to survive in guinea pigs. Singh R, Rao V, Shakila H, Gupta R, Khera A, Dhar N, Singh A, Koul A, Singh Y, Naseema M, Narayanan PR, Paramasivan CN, Ramanathan VD, Tyagi AK. Mol Microbiol. 2003 Nov50(3)751	November2003	5.06	yes	yes	1365-295	177
3.	Alahari A, Alibaud L, Trivelli X, Gupta R, Lamichchane G, Reynolds RC, Bishai WR, Guerardel Y and Kremer L. (2009) Mycolic acidmethyltransferase, MmaA4, is necessary for antitubercular activity of thiacetazone in Mycobacterium tuberculosis. Molecular Microbiology 71(5)1263-772	2009	5.06	yes	yes	1365- 295	38
4.	Arora P, Goyal A, Natarajan VT, Rajakumara E, Verma P, Gupta R, Yousuf M, Trivedi OA, Mohanty D, Tyagi A, Sankaranarayanan R and Gokhale RS. (2009) Mechanistic and functional insights into fatty acid activation in Mycobacterium tuberculosis. Nature Chemical Biology 5(3)1662	2009	12.7	yes	yes	1552- 445	121
5.	Agarwal N, Lamichchane G, Gupta R , Nolan S and Bishai WR. (2009) Cyclic AMP intoxication of macrophages by a <i>Mycobacterium tuberculosis</i> adenylate cyclase. <i>Nature</i> 460(7251):98-102	2009	38	yes	yes	1552- 445	222
6.	Khare G, Gupta V, Gupta R, Gupta R , Bhat R and Tyagi AK. (2009) Dissecting the role of critical residues and substrate preference of a fatty acyl-CoA synthetase (FadD13) of <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> ;4(12):e8387.	2009	3.2	yes	yes	1932-6208	20
7.	Gupta R, Lavollay M, Mainardi JL, Arthur M, Bishai WR and Lamichchane G. (2010) The Mycobacterium tuberculosis gene, ldtMt2, encodes a non-classical transpeptidase required for virulence and resistance to amoxicillin. Nature Medicine (4):466-9. 30.6	2010	30.6	yes	yes	1078- 895	264
8.	Converse PJ, Eisenach KD, Theus SA, Nuermberger EL, Tyagi S, Ly LH, Geiman DE, Guo H, Nolan ST, Akar NC, Klinkenberg LG, Gupta R, Lun S, Karakousis PC, Lamichchane G, McMurray DN, Grosset JH and Bishai WR. (2010) The impact of mouse passaging of Mycobacterium tuberculosis strains prior to virulence testing in the mouse and guinea pig aerosol models. PLoS One 5(4):e10289.	2010	3.23	yes	yes	1932-6208	15
9.	Maiga M, Agarwal N, Ammerman NC, Gupta R, Guo H, Maiga MC, Lun S and Bishai WR. (2012) Successful shortening of tuberculosis treatment using adjuvant host-directed therapy with FDA-approved phosphodiesterase inhibitors. PLoS One 2012;7(2):e30749.	2012	3.23	yes	yes	1932-6208	66
10.	Gupta R*, Erdemli SB*, Lamichchane G, Bishai WR, Amzel LM and Bianchet MA. (2012) Targeting the cell wall of Mycobacterium tuberculosis: structure and mechanism of L,D-transpeptidase 2. Structure 5;20(12):2103-15	2012	5	yes	yes	0969-2126	98
11.	Shukla J, Gupta R, Thakur KG, Gokhale R and Gopal B. (2014) Structural basis for the redox sensitivity of the Mycobacterium tuberculosis SigK-RskA σ -anti- σ complex. Acta Crystallogr D Biol Crystallogr. 70(Pt 4):1026-36. 2.5	2014	2.6	yes	yes	2059-7983	46
12.	Srivastava S, Chaudhary S, Thukral L, Shi C, Gupta RD, Gupta R, Priyadarshan K, Vats A, Haque AS, Sankaranarayanan R, Natarajan VT, Sharma R, Aldrich CC and Gokhale RS. (2015) Unsaturated lipid assimilation by mycobacteria requires auxiliary cis-trans enoyl CoA isomerase. Chem Biol. 17;22(12):1577-87.	2015	5.3	yes	yes	2049-482	24

13.	The unfoldase ClpC1 of Mycobacterium tuberculosis regulates the expression of a distinct subset of proteins having intrinsically disordered termini. Lunge A, Gupta R, Choudhary E, Agarwal N. J Biol Chem. 2020 Jul 10;295(28):9455-9473	2020	4.01	yes	yes	0021-9258	7
14	History, evolution and classification of CRISPR-Cas associated systems. Agarwal N, Gupta R. Prog Mol Biol Transl Sci. 2021;179:11-76. doi: 10.1016/bs.pmbts.2020.12.012. Epub 2021 Feb 9. PMID: 33785174	2021	4.07	yes	yes	1878-0814	2
15	Zebrafish: A Versatile Learning Tool Padmshree Mudgal, Chitra Basin, Adita Joshi, Radhika Gupta General Article Volume 26 Issue 11 November pp 1499-1521	2021	1	yes	yes		

National

s.no	Citation	Date of Publishing	Impact Factor	UGC Care List Journal Yes/No	Scopus Indexed Journal Yes/No	ISSN No
1.	POLLUTION CONTROLLING ABILITY OF PLANT SPECIES GROWING ON COLLEGE CAMPUS IN DELHI, INDIA BABBAR SIMRAN, MANISHA GUPTA, NEERAJ DOHARE, ANITA GOEL, RADHIKA GUPTA AND SARITA NANDA, Vol 38, November Suppl Issue; Page No.(23-29)	November 2019	0.4	yes	yes	0257-8050
2.	POLLUTION CONTROLLING ABILITY OF INDIGENOUS PLANT SPECIES GROWING AROUND DRAIN IN DELHI MANISHA GUPTA, BABBAR, SIMRAN, GOEL ANITA, GUPTA RADHIKA, DOHARE NEERAJ AND NANDA SARITA Vol 38, November Suppl Issue; Page No.(29-35)	November 2019	0.4	yes	yes	0257-8050
3.	Gupta R, Ranjan S, Yadav A, Verma B, Malhotra K, Madan M, Chopra O, Jain S, Gupta S, Joshi A, Bhasin C, Mudgal P. Toxic Effects of Food Colorants Erythrosine and Tartrazine on Zebrafish Embryo Development. Curr Res Nutr Food Sci 2019; 7(3)	December 2019	0.5	yes	yes	2347-467X

Conference Attended and Paper presentation

s.no	Type of Event	Name of Event	Venue of conference	Date of conference (Start date – End Date)	Attended	poster presented	No of papers presented
1.	conference	National science day	INSA, Delhi	28 th February 2018	yes	yes	1
2.	conference	International Conference on "Frontiers in Biochemistry and	Shivaji college, Delhi	12 th February	yes	yes	3

		Biotechnology: Strategies to Combat Human Diseases”		2020			
3.	conference	Global bioIndia submit	Aerocity, Delhi	21 st November 2019	yes	no	no
4.	conference	International Summit on Women in STEM "Visualizing the Future: New Skylines"	India Habitat center, New Delhi	23 rd January	yes	no	no
5	conference	International conference on recent trends in drug discovery and development organized by Maitryi college, DU, on.	Online platform	October 8 th and 9 th 2021	yes	yes	1
6	seminar	National Seminar on Vishva Guru Bharat, organized by Rajguru college	Patel chest institute, Delhi University	2022	yes	no	
7	conference	Recent Advancements in Chemical Sciences: Health, Environment and Society" organized by the Department of Chemistry, Deshbandhu College	Online platform	April 4 and 5 th 8 th and 9 th April 2022	yes	Yes	1

Resource Person (Conference/seminar/ workshop/training programme/ educational trips)

S.No	Type of Event	Name of Event	Venue	Date of Event (Start Date- End Date)	State your role: Convener/Member organizing committee/ Speaker/ Coordinator	Duration of Activity	No of participant in the programme
1.	National	Inspire camp	Daulat Ram college	17 th to 21 st December 2018	Organising team	5 days	150 students (class XIth)
2.	National	understanding Zebrafish for undergraduate students of BSc (biochemistry)	Daulat Ram College	June 2018	Resource person	30 days	15 undergraduate students
3	national	A Six -day online training workshop on animal models on 'Learn and explore with Animal Models,	Zebrafish Lab Facility, Daulat Ram College, University of Delhi under the aegis of IQAC,	3rd -8th January, 2022	Resource person	6 days	100

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Awards Won

S.No	Name of Award	Awarding Agency	Government/ NGO/ International/Private	Recognition area	Date of award (DDMMYY)	Type of Honor received
1.	CSIRJRF and SRF	CSIR	Government	Life sciences	June 2004	

Membership of Professional Bodies

S.No	Type of Membership	Organisation	Year of Membership(Start Date)
1.	Life time	SBC	December,2004