

Faculty Name

- Designation: RAHUL SHARMA
- Area of specialization: PLANT GENOMICS
- College: G.C.W. Gandhi nagar, Jammu
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Summary

- Ph.D. Degree in Biotechnology
- Currently working at G.C.W Gandhinagar
- Head of Department (Department of Biotechnology)
- Nodal Officer : NIRF
- Assistant Coordinator: IGNOU
- Counsellor Environmental Science IGNOU
- Convenor, Admission Committee, GCW Gandhinagar
- Co Convenor , Yuva Tourism Club , GCW Gandhinagar
- Convenor, Work load verification committee, GCW Gandhinagar
- Member , Purchase Committee, GCW Gandhinagar
- Member, College Development Committee, GCW Gandhinagar
- Member , Edusat Hub, GCW Gandhinagar
- Life member of Biotech research society of India
- Expertise in Molecular Biology, Plant biotechnology, Microbiology, Cell biology, Fermentation biotechnology, Enzymology, Immunology, Biochemistry and Genetic engineering.
- Member of College Discipline Committee, Scholarship committee, Co-curricular activity committee
- Teacher In-charge college wrestling team
- Member Gandhian Study centre and Centre for Information, Career Counseling and Placement, GGM Science College

Awards and Achievements

- DGP's Special Commendation Certificate and award for securing highest percentage of marks among wards of police personnel of rank NGO's of J&K State in Matric in year 2000
- DGP's Special Commendation Certificate and award for securing highest percentage of marks among wards of police personnel of rank NGO's of J&K State in HSPII in year 2002
- DGP's Special Commendation Certificate and award for securing highest percentage of marks among wards of police personnel of rank NGO's of J&K State in B.Sc final in year 2005
- CSIR-JNET-JRF

- DBT-JRF
- GATE
- ARS-NET
- SLET

Workshops, Seminars, Symposia and Conferences attended

- 3rd J&K State Science Congress (26-28 Feb, 2008) (Oral Presentation); Abstract: Retrotransposon based characterization of Keratinophilic fungi using PCR approaches.
- 5th J&K State Science Congress (8-10 Feb, 2008) (Oral Presentation); Abstract: A study of epigenetic modifications in crops in response to abiotic stress.
- Participated in four days workshop on Bioinformatics: Converting Data to Knowledgebase organized by SBT, SMVDU and SBT, JU(Sep 6-9, 2010)
- 7th J&K State Science Congress (13-15, Oct, 2011); Abstract: A study of Transposon methylation display in *Brassica juncea* in response to abiotic stress.
- Participated in National symposium on Bioinformatics: Challenges in the post Genomic era sponsored by DBT GOI by SBT, JU on 2nd Feb, 2012 Worked as Member of organizing committee of Science Awareness Mela (31 Jan-2 Feb, 2012)
- National Symposium on Interdisciplinary Sciences Organized by GGM Science College (Mar 2-3, 2012);(Poster presentation) on topic Fungal characterization: does sequencing always matter.
- Worked as Member of organizing committee of UGC sponsored National symposium on Interdisciplinary Sciences (2-3 March, 2012)
- Participated in DBT- Short term Training course on Bioprocess engineering (Dec 10-24, 2014) held in School of biotechnology, University of Jammu.
- 2nd National Symposium on Interdisciplinary Sciences Organized by GGM Science College (Feb 27-28, 2015);(Poster presentation) on topic A study of PTM of Histone H3 in *Brassica juncea* in response to drought stress.
- Participated in the 10th J&K Science congress held at JU(Mar 14-16, 2015)
- Participated in 101st Indian Science congress held at University of Jammu (Feb 3-7, 2014)
- Participated in One day workshop on Biotechnology at GDC, Udampur (Jan 18, 2014)
- Worked as Member of organizing committee for One day Inter-colligate Symposium on 15th March 2016
- Worked as Member of organizing committee for Provincial level declamation contest organized by GGM science College held on Aug 31, 2016
- Worked as Member of organizing committee for One day inter-colligate symposium on the theme "Truth & Non-violence" Organized by Gandhian study centre, GGM science college on Feb 28, 2017
- Worked as Member to organizing One day seminar on theme "Science & Technology for specially abled persons" at GGM Science College on Feb 28th 2017
- National seminar on Recent trends in Genomics & Metabolomics organized by SBT, JU (17-18 Mar, 2017) Presented Poster.
- Participated and successfully completed Two Week Inter-disciplinary Refresher course On "Environment and Human Health" from 28 March - 11 April, 2022 and obtained Grade A+. Organized by Teaching Learning Centre and Department of Environmental Studies Ramanujan College, (Accredited Grade 'A' by NAAC) University of Delhi under

the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.

- Worked as Academic counselor in Regional Services Division IGNOU HQ, Maidan Garhi, New Delhi, dated 20-10-2022.
- Participated in the Management Capacity Enhancement Programme organized by IIM (Indian Institute of Management) Jammu from 14th to 18th February 2022.
- Participated in one day workshop “Let’s Care” organized by NSS G.G.M Science College in collaboration with The Art of Living with theme “Boosting Our Immune System via Meditation and Breath Control” on 15th May, 2021.
- Successfully completed one week online Faculty Development Programme on “Psychological Skills for Effective Teaching and Learning” from 01 - 07 June, 2021 and obtained Grade A+. Organized by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
- Participated in 07 day Workshop on “Fundamentals of Bioinformatics” organized by Institute of Human Genetics in collaboration with Department of Zoology, University of Jammu, Jammu from 1 -7 March, 2021.
- E-Certificate for participation in the Five Days National FDP titled “ “Innovative Teaching And Research in Science: Exploring The New Horizons” organized by Science Forum in Association with IQAC, Government First Grade College, Vijayanagar, Karnataka from 10th to 15th June 2021.
- Worked as Co-convenor in organizing International Webinar on theme Emerging Technologies in Neuroscience and related Career Opportunities organized by Department of Botany and Department of Bio-technology in Collaboration with IQAC on 24th Sept. 2021.
- Successfully completed Online one week Faculty Development Programme on “Psychological Skills for Effective Teaching and Learning” from 01 - 07 June, 2021 and obtained Grade A+. Organized by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
- Participated in 2 days National conference on “Integrated approach in Science and Technology for Sustainable Future” (IAST-SF) held at Govt. MAM College Jammu, 27-28 Feb, 2022.
- Letter of Appreciation from IQAC and Bio-Science Department, Govt. College of Education, Canal road, Jammu for sharing expertise on “Sustainable Development and Intellectual property rights” during National Science Day celebration on 28 Feb, 2022.
- Successfully completed Short Term Certificate Course in Forensic Science and DNA Fingerprinting from IFS Education Dept. Pune Ref. No. : 20220305-2251 on 10 May 2022.
- Participated in International E-Conference on Environment Sustainability” organized by Research & Development Cell under the aegis of IQAC, Govt. P. G. College Rajouri, J&K, India held on June 4th, 2022.
- Organized the workshop on Tourism vlogging organized by Yuva tourism club on the theme “explore the unexplored” held on 2 Feb, 2023 as co-convenor, Yuva tourism club.
- Oral presentation entitled “MSAP as a technique to study the effect of abiotic stress namely drought on Basmati 370, a traditional rice variety” in two days International

Conference on Science for Survival: To explore the unexplored dimensions organized by Internal Quality Assurance Cell (IQAC) and Department of Botany, GCW Udhampur, Feb 10-11, 2023.

Research Publications

- Naseeb Kumar Bhagat, Kamal Kishore Verma, **Rahul Sharma** (2013) Ecotourism potential of Akhnoor town. *Indian Journal of Applied Research*; ISSN- 2249-555X.
- Manoj Kumar Dhar, Parivartan Vishal, **Rahul Sharma**, Sanjana Kaul (2014). Epigenetic Dynamics: Role of epimarks and underlying machinery in plants exposed to abiotic stress. *International journal of Genomics*, Article ID 187146 <http://dx.doi.org/10.1155/2014/187146>.
- **Rahul Sharma**, Parivartan Vishal, Sanjana Kaul, Manoj Kumar Dhar (2017). Epiallelic changes in known stress-responsive genes under extreme drought conditions in *Brassica juncea* (L.) Czern. *Plant cell reports* 2017, 36,1: 203–217.
- Fraz Ahmed, Nariender kumar, **Rahul Sharma**, Ajaz Ahmed (2019). Treatment of Rheumatoid arthritis using traditional medicinal plants by the rural and tribal people of Poonch district of Jammu and Kashmir state. *International Journal of Research and Analytical Reviews*, 06: ISSN 2349-5138.
- Manoj Kumar Dhar, **Rahul Sharma**, Parivartan Vishal, Sanjana Kaul (2019). Epigenetic Response of Plants to Abiotic Stress: Nature, Consequences and Applications in Breeding. DOI: [10.1007/978-3-319-91956-0_3](https://doi.org/10.1007/978-3-319-91956-0_3). n book: Genetic Enhancement of Crops for Tolerance to Abiotic Stress: Mechanisms and Approaches, Vol. I, pp.53-72
- Dr. Bharti Razdan and **Dr. Rahul Sharma** (2021) Practical Botany (Economic Botany and Biotechnology); S. Vinesh and Co. ;ISSN 978-93-90638-2-8
- Namrata Jaspal, Munish Sharma, Deepika B. Prashar, **Rahul Sharma**, Munish Sharma (2023) *Jatropha curcas* L.: A sustainable resource for biofuel feedstock with medicinal and commercial attributes ., *Journal of Innovative Agriculture* DOI: <https://doi.org/10.37446/jinagri/ra/10.3.2023.1-13>
- **Sharma R**, Sharma P. Role of Absisic acid in Plant stress. *New Insights Into Phytohormones* . IntechOpen; 2023.: <http://dx.doi.org/10.5772/intechopen.1002392>

Patents

- Research projects (Minor/Major Project)- Nil

Academic Qualifications

Examination Passed	Board/University	Subjects	Year	Division/Grade/Merit
SSC	JK BOSE	English , Hindi, Social Studies, Sciences, Mathematics	2002	Distinction 81.6%
Higher Secondary	JK BOSE	English, Physics, Chemistry, Biology	2002	Distinction 87.3%
Bachelor's Degree(s)	Jammu University	Botany, Zoology, Chemistry, English	2005	Distinction (76.3%)
Master's Degree (s)	Jammu University	Biotechnology	2007	Ist Division (73.54%)
NET/SLET	CSIR	Life Sciences	2007	JRF
Ph.D	Jammu University	Biotechnology	2016	Awarded

Research Experience

Research stage	Title of Work/ Thesis	University where the work was carried out	Year
M.Phil or equivalent			
Ph.D.	Nature, Origin and Effects of Epigenetic Modifications in <i>Brassica juncea</i> (L.) Czern	Jammu University	2016
D.Sc/D.Litt.			
Training (Please specify)			

Teaching Experience

Courses Taught	Name of the University/College/Institution	Duration
iv) U.G. (B.A./B.Sc. etc.) (B.A./B.Sc. etc. Hons.)	GDC Rajouri G.G.M Science College PSPS GCW Gandhinagar	13+ years
v) P.G. (M.A./M.Sc.,etc)	Department of Biotechnology, University of Jammu	9 months
vii) Any other (e.g Women Study, Skill Development, Add on courses, coaching (JUET,CET) etc.)	CICCP (G.G.M Science College) Member, NSQF committee , PSPS GCW Gandhinagar	

Extension Work/ Community Service

Member of Centre for Information, Career Counseling and Placement, GGM Science College

Member of Gandhian Study centre, GGM Science College

Have been an active member of NSS (2002-2005)