



Bhaskaracharya College of Applied Sciences
University of Delhi
 Sector II, Phase I, Dwarka, New Delhi – 110075
Faculty Profile

Title	Dr.	First Name	Ruchi	Last Name	Gulati Marwah	Photograph
Designation	Associate Professor					
Address	Department of Microbiology Bhaskaracharya College of Applied Sciences University of Delhi Sector-2, Dwarka New Delhi-110 075					
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Educational Qualifications						
Degree	Subject				Institution	
B.Sc. (Hons) 1990-93	Microbiology				Gargi College, University of Delhi, India	
M. Sc. 1993-95	Microbiology				Department of Microbiology, University of Delhi South Campus	
Ph.D. 2000	Microbiology Specialization: Industrial Microbiology				Department of Microbiology, University of Delhi South Campus	
Post Doctorate 20 August 2002-20 September 2003 & 4 January 2005-31 December 2006	Project title: Biodiversity-driven chemical investigation on Omani biodiversity for medicinally and agronomically valuable compounds: the development of Omani natural products.				Department of Chemistry, Sultan Qaboos University, Muscat, Sultanate of Oman	
Career Profile						
<ul style="list-style-type: none"> ● Associate Professor (Academic level 13A) since 20 August 2017 till date (Teaching experience approx. 15 years till date) ● Assistant Professor (Academic level 12) 20 August 2009 to 19 August 2014 ● Assistant professor (Academic Level 11) since 20 August 2009 ● Assistant professor (Academic level 10) from 26 November 2007 to 19 August 2009 on ad-hoc basis ● Taught as a Guest lecturer in Department of Microbiology, Institute of Home Economics, University of Delhi from July 29 to November 25, 2007 (4 months). ● Postdoctoral research fellow August 2002 to September 2003 and from January 2005 to Decmeber2006 						
Administrative Assignments						
University						
<ul style="list-style-type: none"> ● Member, Committee for revision of B. Sc. (Hons) Microbiology course curriculum, Semester, FYUP, CBCS and LOCF mode, Department of Microbiology, University of Delhi South Campus. 						
College						
<ul style="list-style-type: none"> ● Deputy superintendent of the college for coordinating University practical and theory examination April 2013 to Decem2013 and from November 2020 to August 2021. ● Member of Departmental committee for Admissions, Time Table, Internal assessment moderation, Purchases etc. from time to time since 2008. ● Co-convener, NIRF (2019-20) and Member, India today Ranking (2019-20) committees. ● Co-convener, Annual Report & Prospectus Committee (2019-20) and member of the same ● Member (2008-11); Co-convener (2017-18) and Convener (2018) of ECA Committee ● Member Proctorial & Anti-ragging committee 2017-18 ● Coordinator for publication of first two issues of e-Newsletter of the College Bhaskarjyoti (Vol.1 March 2018 & Vol. 2 October 2018). 						

- DBT-Star College Scheme Microbiology Department Coordinator from 1 October 2015 to 12 November, 2018
- Convener for NAAC sub-committee for carrying out general maintenance and repair work in the college (2017)
- Member, Proctorial & Anti-ragging Committee (2017-18)
- Convener, Student Advisory & PR Committee (2016-18)
- Teacher-in-charge of the Department of Microbiology (April 2013-March 2015).
- Member, Garden Committee (2009-11)
- Member, Placement Committee (2008-9)
- Member, Magazine Committee (2007-8; 2008-9)

Areas of Interest / Specialization

My research interests lie in the production of bioactive metabolites from fungi namely antimicrobials, antioxidants and also extracellular enzymes like lipases, amylases etc as I have over the years gained a lot of expertise in the area of industrial microbiology and microbial fermentations. More recently, I have started working on the biofilms of Gram-positive bacteria and evaluate them for their biotechnological applications. Our group is looking at the biofilm formed by a novel strain of *Bacillus* sp. isolated from the aero-microflora of the laboratory environment of our college that has the potential to form robust hydrophobic biofilms in both solid and liquid culture media. We are chemically and microscopically characterizing the biofilm and its EPS for potential applications and also to understand the mechanism behind the temporal antibiotic resistance patterns observed in this isolate. For this, I am collaborating with Dr. Deepti Jain, Associate Professor, Structural Biology Lab, Regional Centre for Biotechnology, Faridabad and working under mentorship of Prof. J. S. Virdi (superannuated from Department of Microbiology, UDSC) and Prof. Rani Gupta, Department of Microbiology, UDSC. Three of our alumni students are involved in this work. Another minor project which I am working along with our undergraduate students on regular basis is to study the prevalence of antibiotic resistant enterobacteria in urban water samples (including sewage samples). Students collect samples from different parts of Delhi-NCR region and isolate bacterial strains belonging to genera namely *E. coli*, *Salmonella*, *Klebsiella* etc. and analyse their antibiotic sensitivity profiles. This project is aimed to bring awareness about Antimicrobial Resistance (AMR) that threatens the very existence of a sustainable global public health response.

Papers Taught [B. Sc. (Hons.) Microbiology; recent LOCF curriculum]

Introduction to Microbiology & Microbial Diversity, Biochemistry, Microbial Physiology and Metabolism, Industrial and Food Microbiology, Microbial Diagnosis in Health Clinics and Medical Microbiology

Research Profile

Completed Research Projects

1. Principal Investigator for DST- Fast track project titled 'Biologically active antimicrobial secondary metabolites from endophytic fungi isolated from vegetable crops' from 1st August 2007 till 31st July 2010. (Total cost 18.3 lakhs).
2. Principal Investigator for Delhi University Innovation project 2013-15 titled 'Low cost electricity generation using Bio-photovoltaic Technology: A Green Energy Initiative'. (Total cost 5.5 lakhs).
3. Principal Investigator for Delhi University Innovation project 2015-16 titled 'Clean Electricity Generation from Waste Water Samples collected from Delhi-NCR using Microbial Fuel Cell Technology: A Green Energy Initiative' (Total cost 5.0 lakhs).

Research Publications

- Adhikary A., Bansal T., Gupta P., Jain D., Anand P., Gupta R., Virdi J. S., **Marwah R. G.** (2021). Draft Genome Sequence of a Poly-γ-Glutamic Acid-Producing Isolate, *Bacillus paralicheniformis* Strain bcasdu2018/01. Microbiology Resource Announcements. 10(46):e0101321. <https://journals.asm.org/doi/10.1128/MRA.01013-21>
- Mongia, G., Kaur, I., Marwah, R. G. And Malyan, A. (2021). A comprehensive review of the different methods for the construction of MFC's and their effect on the performance of MFC. International Journal of Engineering and Technology. 8(5): 4402-4413.
- Agarwal, A., Verma, G., Singh, Y., Kumari, A., Kumar, S., Agnihotri, O., Sushmita, Sabharwal, N., Jha, A., Singh, M., Kumar, P., Kaur, I., **Marwah, R. G.**, Mongia, G. and Kapoor, A. (2016). Journal of Energy Research and Environmental Technology (JERET), 3(2): 127-130. (Conference proceeding publication)

- Anand, P., Saxena, R. K. & **Marwah, R. G.** (2011). A novel downstream process for 1,3- propanediol from glycerol-based fermentation. *Applied Microbiology and Biotechnology*, 90(4), 1267-1276. <https://doi.org/10.1007/s00253-011-3161-2>
- Kaushik, R., **Marwah, R. G.**, Gupta, P., Saran, S., Saso, L., Parmar, V. S. & Saxena, R. K. (2010). Optimization of Lipase Production from *Aspergillus terreus* by Response Surface Methodology and Its Potential for Synthesis of Partial Glycerides Under Solvent Free Conditions. *Indian Journal of Microbiology*. 50(4), 456-462. <https://dx.doi.org/10.1007%2Fs12088-011-0100-y>
- Srinivasan, S., Gupta, S., **Marwah R.**, Manisankar, P. & Kumar, R. (2010). Synthesis, characterization and *in vitro* biological studies of novel N-aryl piperazinyl fluoroquinolones. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 1(3), 727-737.
- Fatope, M. O., Varma, G. B., Al-Azri, N. M., **Marwah, R. G.** & Nair, R. S. (2010). ent- Kaurine diterpenoids from *Blepharispermum hirtum*. *Chemistry and Biodiversity*. 7(7), 1862-1870. <https://doi.org/10.1002/cbdv.200900389>
- Fatope, M. O., **Marwah, R. G.**, Al Hadhrami, N. M., Onifade, A. K. & Williams, J. R. (2008). Identification of the Chemotypes of *Ocimum forskolei* and *Ocimum basilicum* by NMR Spectroscopy. *Chemistry and Biodiversity* 5(11): 2457-63. <https://doi.org/10.1002/cbdv.200890211>
- **Marwah, R. G.**, Fatope M. O., Deadman, M. L., Al-Maqbali, Y. M. & Husband, J. (2007). Musanahol: a new aureonitol-related metabolite from a *Chaetomium* sp. *Tetrahedron* 63(34), 8174-8180. <https://doi.org/10.1016/j.tet.2007.05.119>
- **Marwah, R. G.**, Fatope M. O., Deadman, M. L., Ochei, J. E. & Al-Saidi, S. H. (2007) Antimicrobial activity and the major components of the essential oil of *Plectranthus cylindraceus*. *Journal of Applied Microbiology* 103(4), 1220-1226. <https://doi.org/10.1111/j.1365-2672.2007.03365.x>
- **Marwah, R. G.**, Fatope M. O., Al-Mahrooqi R., Varma G. B., Al-Abadi, H. & Al- Burtamani S.K.S. (2007) Antioxidant capacity of some edible and wound healing plants in Oman. *Food Chemistry* 101(2), 465-470. <https://doi.org/10.1016/J.FOODCHEM.2006.02.001>
- Varma, G. B., Fatope, M. O., **Marwah, R. G.**, Deadman M. E. & Al-Rawahi F. K. (2006) Production of phenylacetic acid derivatives and 4-epiradicinol in culture by *Curvularia lunata*, *Phytochemistry* 67(17), 1925-1930. <https://doi.org/10.1016/j.phytochem.2006.05.032>
- Suliman, F. O., Fatope M. O., Al-Saidi, S. H., Al-Kindy, S. & **Marwah R. G.** (2006) Composition and antimicrobial activity of essential oil of *Pluchea arabica*. from Oman. *Flavour and Fragrance Journal* 21(3), 469-471. <https://doi.org/10.1002/ffj.1616>
- Fatope, M. O., **Marwah, R. G.**, Onifade, A. K., Ochei, J. & Al Mahrooqi, Y. (2006) ¹³C NMR analysis and antifungal and insecticidal activities of Oman Dill Herb Oil. *Pharmaceutical Biology* 44(1), 44-49. <https://doi.org/10.1080/13880200500530716>
- **Gulati, R.** Isar, J, Kumar, V., Prasad, A.K., Parmar, V.S. & Saxena, R.K. (2005) Production of a novel alkaline lipase from *Fusarium globulosum* (FGL) produced using neem oil and its applications. *Pure and Applied Chemistry* 77(1), 251-262. <https://doi.org/10.1351/pac200577010251>
- Al-Burtamani, S. K. S., Fatope, M. O., **Marwah, R. G.**, Onifade, A. K. & Al-Saidi, S. H. (2005) Chemical composition, antibacterial and antifungal activities of the essential oil of *Haplophyllum tuberculatum* from Oman. *Journal of Ethnopharmacology* 96(1-2), 107-112. <https://doi.org/10.1016/j.jep.2004.08.039>
- Fatope, M. O., Nair, R. S., **Marwah, R. G.** & Al-Nadhiri, H. H. S. (2004) New sesquiterpenes from *Pluchea arabica*. *Journal of Natural Products* 67(11), 1925-1928. <https://doi.org/10.1021/np040054c>
- **Marwah, R.**, Arya, P., Malhotra, B., Prasad, A. K., Saxena, R. K., Kumar, J., Watterson, A. C. & Parmar, V. S. (2003). Novel biocatalytic esterification reactions on fatty acids: Synthesis of sorbitol 1(6) - monostearate. *Sukh Dev ARKIVOC* 159-170. <https://doi.org/10.3998/ark.5550190.0004.316>
- Kidwai, M., Dave, B., Bhushan, K. R., Misra, P., Saxena, R. K., Gupta, R., **Gulati, R.** & Singh, M. (2002). Deacetylation of cephalosporins by lipase catalysis and microwave assisted transformation on a solid support. *Biocatalysis and Biotransformation*. 20(5), 377-379. <https://doi.org/10.1080/10242420290006710>

- **Gulati, R.,** Saxena, R. K. & Gupta, R. (1999) Fermentation waste of *Aspergillus terreus*: a promising copper bio-indicator. *Current Science* 77(10), 1359-1360. <https://www.jstor.org/stable/24104438>
- **Gulati, R.,** Saxena, R. K. & Gupta, R. (2002) Fermentation waste of *Aspergillus terreus*: a potential copper biosorbent. *World Journal of Microbiology and Biotechnology* 18(5), 397- 401. <https://doi.org/10.1023/A:1015540921432>
- **Gulati, R.,** Bhattacharya A., Prasad, A.K., Gupta R, Parmar, V.S., & Saxena, R.K. (2001) Biocatalytic potential of *Fusarium globulosum* lipase in selective acetylation / deacetylation reactions and in ester synthesis. *Journal of Applied Microbiology* 90(4), 1-5. <https://doi.org/10.1046/j.1365-2672.2001.01286.x>
- Saxena, R. K., Sangeetha, L., Vohra, A., Gupta, R. & **Gulati, R.** (2001) Induction and mass sporulation in lignin degrading fungus *Cereporiopsis subvermispota* for its potential usage in pulp and paper industry. *Current Science* 81(5): 591-594. <https://www.jstor.org/stable/24105897>
- **Gulati, R.,** Saxena, R. K. & Gupta, R. (2000) Fermentation and downstream processing of lipase from *Aspergillus terreus*. *Process Biochemistry* 36(1-2), 149-155. [http://doi.org/10.1016/S0032-9592\(00\)00201-6](http://doi.org/10.1016/S0032-9592(00)00201-6)
- **Gulati, R.,** Saxena, R. K., Gupta, R., Yadav, R. P. & Davidson, W. S. (1999). Parametric optimisation for *Aspergillus terreus* lipase production and its potential in ester synthesis. *Process Biochemistry* 35(5), 459-464. [https://doi.org/10.1016/S0032-9592\(99\)00090-4](https://doi.org/10.1016/S0032-9592(99)00090-4)
- Saxena, R. K., Ghosh, P. K., Gupta, R., Davidson, W. S., Bradoo, S. and **Gulati, R.** (1999) Microbial lipases; potential biocatalysts for the future industry. *Current Science* 77(1), 101- 115. <https://www.jstor.org/stable/24102918>
- **Gulati, R.,** Saxena, R. K. & Gupta, R. (1997). A rapid plate assay for screening L- asparaginase producing microorganisms. *Letters in Applied Microbiology* 24, 23-26. <https://doi.org/10.1046/j.1472-765X.1997.00331.x>

Chapter in Book

Saxena, R. K., Gupta, R., Saxena, S. and **Gulati, R.** (2000). Role of fungal enzymes in food processing. In: *Applied Mycology and Biotechnology, food and fungi- principles, techniques and process applications. Volume 1.* Elsevier Science Series (eds. G.G. Khachatourians and D.K. Arora). [https://doi.org/10.1016/S1874-5334\(01\)80015-0](https://doi.org/10.1016/S1874-5334(01)80015-0)

Latest Conference presentations

- Presented a poster titled '**A highly hydrophobic and robust biofilm produced by a novel strain of *Bacillus sp.*: understanding its physicochemical nature and its role in temporal development of antibiotic resistance**' in the International Conference on 'Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases' organized by the Department of Biochemistry, Shivaji College and Department of Biochemistry, South Campus, University of Delhi on February 12-13, 2020.
- Tanu Bansal and Anirban Adhikary of B.Sc. (Hons.) Microbiology (2016-19 batch) under my supervision presented a poster titled '**A Robust Biofilm forming strain of *Bacillus licheniformis* isolated from air: studies related to colony morphology and antibiotic resistance patterns**' in the International Conference on "Challenging Environment: Understanding the Emerging Challenges and their Management strategies" at Kalindi College, University of Delhi from 10-12 April, 2019. **The poster was awarded second prize in the conference.**
- Oral presentation titled '**Green energy generation and waste water treatment using Microbial Fuel Cell Technology**' at National Conference on 'Clean and Green Energy: The Chemical and Environmental aspects' Organised by Department of Chemistry, Bhaskaracharya College of Applied Sciences, on 16-17 February, 2017.
- Ajay Aggarwal, Gaurav Verma, Yogesh Singh, Anjali Kumari, Sanjeev Kumar, Omji Agnihotri, Sushmita, Nishika Sabharwal, Akshay Jha, Mansi Singh, Pawan Kumar, Inderbir Kaur, **Ruchi Gulati Marwah**, Geeta Mongia and Avinashi Kapoor. **An approach for Enhancing the Performance of Microbial Fuel Cell: A Green Energy Initiative. Poster presentation** in the International Conference on Advances in Nanomaterials and Nanotechnology, held at Jamia Millia Islamia on November 4-5, 2016.
- Ajay Aggarwal, Gaurav Verma, Yogesh Singh, Anjali Kumari, Sanjeev Kumar, Omji Agnihotri, Sushmita, Avantika Shrivastav, Shaoni Bhattacharya, Mansi Singh, Pawan Kumar, Inderbir Kaur, **Ruchi Gulati Marwah**, Geeta Mongia and Avinashi Kapoor. **Clean Electricity Generation from Sewage Samples using Microbial Fuel Cell Technology - A Green Energy Initiative. Poster presentation** at *Innovation Conclave* held at Acharya Narendra Dev College, University of Delhi on October 25-26, 2016.
- Presented a paper titled "**An approach for Electricity Generation using Microbial Fuel Cell Technology: A Green Energy Initiative**" at International Conference on "Natural/Applied Sciences, Environmental Engineering and Clean Energy Technologies for Sustainable Development (SYNERGY-2016) held at Jawaharlal Nehru University, New

Delhi, on 4th June, 2016. **(Paper published in Journal of Energy Research and Environmental Technology, Vol 3(2), 127-130, 2016).**

- Presented a paper titled **“A Short Review on Microbial Fuel Cell Technology and A Proposed approach for Generation of Electricity using Waste Water Treatment”**, at National Conference on Inspired Learning, held at Maharaja Agrasen College, University of Delhi, 2015. **(Paper also published in proceedings)**
- Presented a paper titled **“Algae : Power Plants of Future “** in the National Conference on **“Recent Trends in Instrumentation and Electronics (RTIE-2015)”** Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, on 5 January, 2015. **(Paper also published in proceedings).**
- Presented a paper titled **“Bio-Electricity Production Using Algae – A Brighter Road Ahead...”** in National Conference on Striving and Thriving towards Student Driven Research in Science and Technology for Inspired Learning, Maharaja Agrasen College, University of Delhi, on 16-17th October, 2014. **(Paper also published in proceedings).**
- Presented a poster titled **"Bio photovoltaic (BPV): Harnessing Green Energy for Future Technologies"** in the National Conference on **“Nanotechnology and Renewable Energy (NCNRE-14)”** held at Jamia Millia Islamia University, New Delhi, on 28-29 April, 2014.

Conferences/Seminars/Symposia/Workshops/Educational visits/other co-curricular events etc. organised

- Coordinator & Resource person for the inter-departmental virtual workshop on **Analysing Spectrophotometric Data through MS Excel for Quantitative Estimation of Biomolecules** held on July 5 2021 organised by Department of Microbiology in association with Department of Biochemistry.
- Convener for Webinar Series titled **'Advances in Microbiology: An Interdisciplinary Approach'** cum **Alumni Interaction Day** as part of Microquest 2021 from 9-26, March 2021.
- Coordinator for Webinar Series 2020 titled **'Covid-19 pandemic-the road map to recovery'** that commenced on 23 May 2020 and ended on 25 July 2020 and 12 talks on various aspects of managing covid-19 pandemic were arranged.
- Coordinator for One day seminar titled **'Advancements in Molecular Microbiology in the Revolutionary Omics Era'** and **Microquest 2020**, held on 20 February, 2020.
- Coordinator for organizing a four-day Virtual Learning program titled **'National Science Series: Igniting Young Minds'** from 4-7 August 2020.
- Coordinator for organizing Distinguished Alumni Interactive Lecture Series titled **'Careers in Microbiology & Beyond'** from 23 October 2019- 15 February 2020.
- Coordinator for Part 1 titled 'Plant Microbe Interactions' of Lecture Series **'Augmenting curricular concepts in Microbiology to stimulate young minds: An Interdisciplinary approach'** organized on 11 October, 2018.
- Convener for National Conference on **'Advances in Interdisciplinary Microbiology: Perspectives from Academia and Industry'** on March 13-14, 2018 as the culmination of the department's 10th anniversary celebrations and as part of Microquest 2018.
- Coordinator for organizing **Skill Development Workshop on "Resource management in the Laboratories"** for both students and laboratory staff from August 21-28, 2017.
- Coordinator for organizing **Model-making competition on the theme 'Structural diversity of Microorganisms'** on September 11, 2017.
- Coordinator for the Symposium on **"Science empowering women—Women empowering science"** held on 27 March, 2017.
- Coordinated Lecture Series on **"Advancements in Microbiology: An inter-disciplinary approach"**. Part I of the series with the theme **"Protein Engineering"** was held on 20th February, 2017. Part II with the theme **"Microbial Genomics"** was held on March 8, 2017. Part III with the theme **"Industrial Biotechnology"** was held on March 27, 2017 as part of Microquest 2017.
- Coordinator for organizing Skill Development Workshop titled **'Operation and maintenance of Laboratory Instruments'** for Laboratory staff of various departments of the college, on 2 March, 2017.
- Organised visit of the students of the department to National Institute of Immunology, New Delhi on October 20, 2016.
- Coordinated Workshop on **"Immunodiagnostic techniques: Rapid diagnosis of microbial pathogens"** on 17 February, 2017.
- Organised an **"Alumni Interaction Day"** with the theme titled **"Charting a Career Path"** on 27 January, 2016.
- Organised an inter-departmental Poster-making Competition titled **"Timeline of Advancements in Microscopy"** on September 7, 2016.
- Co-organiser of **A Hands-on training in Spectrophotometry: Principles and Applications** (under the aegis of Star college scheme, Department of Biotechnology, Govt. of India) on August 30, 2016 in collaboration with Department of Biochemistry, BCAS.
- Coordinator, A one-day symposium on **"Antibiotic resistance: a major global threat"** on 16 March, 2016, under the aegis of Star college Scheme of the college.
- Organised visit of second year students to Technology Based Incubator, Department of Microbiology University of Delhi South Campus on 15 October, 2015.

- Coordinator, A one-day symposium on **“Biofuels: an alternative and non-conventional energy source for future”** on **February 2, 2015**, under the aegis of Star college Scheme of the college.
- Organiser for a one-day workshop on **“Viral cultivation strategies”** on 8th September, 2014 under the aegis of Star College Scheme of the College.
- Coordinator, National Symposium on **“Infectious diseases: advancements in diagnosis, therapeutics and vaccines”** on 20th and 21st March, 2014.
- Coordinated visit of students of the department to Mother Dairy Plant, New Delhi on 30 January 2014.
- Coordinator for Annual Microbiology Festival, **Microquest, 2013**, under the aegis of Sukshmjeev Society of the Department of Microbiology.
- Organised visit of third year students to Technology Based Incubator, Departments of Microbiology and Plant Molecular Biology on 11 March 2011.
- Organising committee member, National symposium on **“Infectious diseases: basic and applied research”** on 3rd February, 2010.
- Coordinator for organizing **MICROOQUEST**, Annual Microbiology festival of Sukshmjeev, Microbiology Society during which talks by Dr. Ananda Mohan Chakraborty (USA) and Dr. Benjamin Pushpraj (Italy) were organized along with various co-curricular activities for students in November 2009.
- Organising committee member, National Symposium on **“Bioinformatics: an in-silico approach to biology”** on December 5, 2008.

Outreach & other activities organized:

- **Department Microbial Culture Collection:** Coordinator of the Department Microbial Culture Collection (ongoing activity). These cultures we keep on isolating from various sources, and are provided to other departments of our college and other colleges namely Microbiology, Botany, Biomedical science, Zoology etc. for conducting practical of their curriculum.
- **Coordinator for Signature campaign** for Breast Cancer Awareness on the occasion of Women’s day held on March 8, 2019.
- **Coordinator** for celebration of ‘World Rose day’ in association with Oncology Department, Manipal Hospitals, Dwarka to bring cheer to the cancer patients and their care-givers on 24 September, 2018.
- **Project mentor to school students :** Three students of MBS International, Dwarka carried out Biology projects on the topics: Microflora of air, Antibiotic resistance and Efficacy of different types of soap and hand wash, respectively.(November 2017)
- **Member of the Organising committee and Resource person** for Inspire Science Camps in our college, for school students in collaboration with the Department of Science and Technology, Govt. of India from July 5-9, 2010, October 19-23, 2010, December 6-10, 2010 and July 12-16, 2011.
- **Invited as Jury Member**, to adjudge State Level Exhibition & Project Competition for school students under INSPIRE AWARD Scheme of Department of Science & Technology, Gol, at Thyagraj Stadium Sports Complex, Sri Ganganath Marg, INA, New Delhi on 14 August 2015.

Resource persons/Invited Speakers:

- **Resource Person** in the FDP held in Daulat Ram College, University of Delhi, held on 19th-20th March 2018 for providing practical training to teachers and students in the area of **“Industrial and Environmental Microbiology”** as part of B. Sc. (H) Botany curriculum.
- **Resource person** for the first Laboratory Staff Skill Development Program on ‘Various Culture Transfer Techniques’ held on December 15, 2014.

Department publications:

- Coordinator for the Annual Department Magazine **‘Life Under Lens’**, five issues of the magazine have been released till date.
- Coordinator for the department Wall magazine **‘MicrobeView’**. It is released biannually.

Orientation/Refresher/Faculty Development Programs attended

- One-week Faculty development program titled 'Advanced Pedagogical Techniques' from October 29, 2020 to November 5, 2020, sponsored by Sponsored by MHRD, PMMMNMTT and organized by Ramanujan College, University of Delhi.
- One-week Faculty development program titled 'Open Source Tools for Research' from June 8, 2020 to June 14, 2020, sponsored by Sponsored by MHRD, PMMMNMTT and organized by Ramanujan College, University of Delhi.
- Two-week Faculty development program titled 'Managing online classes and co-creating MOOC's:2.0' from May 18, 2020 to June 3, 2020, sponsored by Sponsored by MHRD, PMMMNMTT and organized by Ramanujan College, University of Delhi.
- UGC-CPDHE sponsored Refresher Course in Life Sciences from July 17, 2018 to August 6, 2018.
- UGC-CPDHE sponsored Refresher Course in "Contemporary Studies (Natural sciences, Education, Biological science, Environmental, Demography & Sociology)" from 7 June, 2016 to 27 June, 2016.
- UGC-CPDHE sponsored Orientation program (OR-74) from June 20, 2013 to July 17, 2013.

Memberships

- Member of American Society for Microbiology since 11/8/21 till 31 December 2022, Membership ID 200314931
- Life membership of Microbiologist Society of India.
- Life membership of Society of Biological Chemists, India, Membership ID. 2783
- Life membership of Indian Science Congress Association, Membership ID. L26365

Profile Links:

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Google Scholar: <https://scholar.google.com/citations?hl=en&user=CDHf6asAAAAJ>

Research Gate: <https://www.researchgate.net/profile/Ruchi-Marwah/publications>