




DEPARTMENT OF BOTANY
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	Dr.	First Name	ANITA	Last Name	RANI	
Designation	Associate Professor					
Address	Department of Botany, Dyal Singh College, University of Delhi; Lodhi Road, New Delhi – 110003.					
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Web-Page						
Educational Qualifications						
Degree	Institution				Year	
B.Sc. Botany (Hons)	Daulat Ram College; University of Delhi				1999	
M.Sc. in Botany	Department of Botany; University of Delhi				2001	
Ph.D. in Botany	Department of Botany; University of Delhi				2011	
Career Profile						
<p>Dr. Anita is a recipient of JRF and SRF from Council of Scientific and Industrial Research (CSIR) and she began her teaching career as a guest lecturer in botany at Daulat Ram College, in 2002. She joined Dyal Singh College, University of Delhi in 2004, and has a teaching experience of 17 years. She has been teaching Mycology and Phytopathology, Genetics, Molecular Biology, Plant Physiology, Cell and Biomolecules, Cell and Molecular Biology, Analytical Techniques and Biostatistics, to undergraduate students. Dr. Anita has eleven papers including two in international and one in national journal, and eight book chapters to her credit. She has developed four e-lessons for the Department of Higher Education, Ministry of Human Resource Development (MHRD) Government of India, under the project “National Mission on Education through Information and Communication Technology” (NMEICT) for Discipline: Botany, Paper: Plant Anatomy, in 2014. She has also developed two e-lessons for Botany Discipline Course-I in 2013, for Paper 3: Mycology and Phytopathology, under the Four Year Undergraduate Programme.</p> <p>Dr. Anita was the Principle Investigator in the innovation project DSC-202 entitled “Screening of local anaesthetics (LAs) for antifungal / antimicrobial activities”, funded by Delhi University for the year 2013-14. She has also convened a workshop for teachers in March 2019 on “Recent Trends in Plant Systematics and Future Prospects” and a National Symposium in February 2020 on “Bioimaging, in Department of Botany, Dyal Singh College. Dr. Anita has been actively participating as subject expert for the up-gradation of Botany glossary, Comprehensive Glossary of Sciences and preparation of Environmental Science glossary organized by Commission for Scientific and Technical Terminology, Ministry of Human Resource Development (Department of Higher Education) from February 2014 till date.</p> <p>Dr. Anita has participated in five international, twenty national conferences/symposia/seminar and presented twelve papers/posters. She has also attended sixteen workshops. She has also attended 39 International Webinars / 115 National webinars/ 9 online Faculty Development Programme and 2 workshops in 2020-2021.</p> <p>In 2008, Dr. Anita was awarded the Young Scientist medal for paper presentation in National Seminar on Physiological and Biotechnological Approaches to Improve Plant productivity, organized by Centre for Plant Biotechnology, Department of Science & Technology, CCS Haryana Agricultural University New Campus, Hisar.</p>						

Administrative Assignments (From 1st July 2017 onwards)
<ul style="list-style-type: none"> • Worked as a Practical coordinator for Practical Exams 2020 -2021. • Worked as a Superintendent, Practical Examination 2020 -2021 of Department of Botany. • Worked as a member of Library Committee of Botany Department in 2020 - 2021. • Worked as a member of Admission Committee for B.Sc. Life Sciences and a member for Instrument and Lab Maintenance Committee (2019 - 2020). • Worked as a member of Library Committee of Botany Department in 2018 – 2019. • Worked as a member of Time table Committee of Botany Department in (2017 - 2018)
Areas of Interest / Specialization
Plant Physiology
Subjects Taught
Plant Physiology; Genetics; Molecular Biology; Mycology and Phytopathology; Biostatistics; Analytical Techniques in Plant Sciences, Biomolecules and Cell Biology.
Research Guidance
Co-Supervisor of Mrs Monali Chaterji perusing Ph.D. at Faculty of Sciences & Humanities, SRM IST Delhi – NCR Campus, Modinagar Ghaziabad-201204 and the broad area of her research is “To investigate photochemical and pharmacological properties of some ethnomedicinal plants”.
Publications Profile (From 1st July 2017 onwards)
<ul style="list-style-type: none"> • Ritu Singh, Sanjeev Kumar, Sushmita Kamarkar, Arif J Siddiqui, Ankita Mathur, Mohd Adnan, Vishnu D. Rajput, Anita Rani and Narendra Kumar (2021) Causes, Consequence and Control of Persistent Organic Pollutants Causes. In Persistent Organic Pollutants in the Environment: Origin and Role (Kumar N and Shukla V), CRC press, Taylor and Francis group, Chapter 2, (ISBN 9780367512880). • Sanjeev Kumar, Nisha Kumari, Susmita Karmakar, Ankit, Ritu Singh, Monalisha Behera, Anita Rani and Narendra Kumar (2020) <i>Advances in plant-microbe-based remediation approaches for environmental cleanup.</i> In Emerging Eco-friendly Technologies for Wastewater Treatment, Microorganisms for Sustainability (Eds Bharagava RN), Springer Nature, Singapore, pp 103-128. ISSN No. 978-981-15-1389-3. • Ritu Singh, Monalisha Behera, Sanjeev Kumar and Anita Rani (2019) <i>Current state of knowledge on algae - mediated remediation of endocrine disrupting chemicals (EDCs) from wastewater.</i> In Application of Microalgae in wastewater treatment – Volume – I: Domestic and Industrial Wastewater Treatment (Eds Gupta SK and Bux F), Springer Nature Switzerland AG, pp 101-120. ISBN No. 978-3-030-13913-1. • Sanjeev Kumar, Mahesh Kumar, Ritu Singh, Dhananjay Kumar, Ravindra Prasad, Ankit, Anita Rani and Narendra Kumar (2018) <i>Plant – Microbe Symbiosis: A synergistic approach for heavy-metal bioremediation,</i> In Recent advances in environmental management (Eds Bharagav RM) CRC press, pp 293-309. ISBN No. 9780815383147, cat no K339513. • Sanjeev Kumar, Ritu Singh, Virendar Kumar, Sweta, Anita Rani and Narendra Kumar (2018) <i>Restoration of pesticide contaminated sites through plants.,</i> In Phtomanagement of Polluted Sites (eds Pandey VC, Baudhdh K). Elsevier Publication, accepted. ISBN No. 9780128139127. • Arun Kumar Maurya and Anita Rani (2017) Nitric oxide (NO) and physio-biochemical adaptation in plants against stress. In Plant Adaptation Strategies in Changing Environment (Eds V. Shukla et al.), Springer Publication pp 347-386. ISBN 978-981-10-6743-3

- Sanjeev Kumar, Ritu Singh, Virendar Kumar, **Anita Rani** (2017) *Cannabis sativa*: A plant suitable for Phytoremediation and Bioenergy production, In Phytoremediation Potential of Bioenergy Plants (Eds Bauddh K and Singh B), Springer publication pp 269-286. **ISBN No. 978-981-10-3083-3.**

Conference Organization/ Presentations (From 1st July 2017 onwards)

- Convened a National Symposium on “**Bioimaging**”, in Department of Botany, Dyal Singh College, University of Delhi, on 19th February, 2020.
- Convened a one day workshop on “**Recent Trends in Plant Systematics and Future Prospects**”, in Department of Botany, Dyal Singh College, New Delhi, on 12th March 2019.
- Ruchi Raina and **Anita Rani** “**Medicinal Plants and Intellectual Property Rights**” Presented a **poster** in Interdisciplinary National Conference on “Intellectual Property Rights: Challenges and Prospects” organized by Department of Botany, Maitreyi College, University of Delhi from October 22- 23, 2019.

Research Projects (Major Grants/Research Collaboration) (From 1st July 2017 onwards)

Awards and Distinctions (From 1st July 2017 onwards)

Association With Professional Bodies

- ❖ Life member of KK Nanda Foundation for Advancement of Plant Sciences.
- ❖ Life member of DUBS (Delhi University Botanical Society).
- ❖ Life member of ATBS (Association of Teachers in Biological Sciences).
- ❖ Life Members of Professor H S Srivastava Foundation for Science and Society.
- ❖ Life member of The Society for Science of Climate Change and Sustainable Environment (SSCE).

Other Activities like MOOCs/ Patents etc. (From 1st July 2017 onwards)

Anita Rani

Signature of Faculty Member