# **FACULTY PROFILE PROFORMA**

Title (Ms/Mr/Dr/Prof)	Dr.	First Name	Ranjana Roy	Last Name	Mishra	Photograph
Designation	Associate Professor					
Department	Botany					_
Address (Official)	Department of Botany Kalindi College University of Delhi Delhi-110078					
Email	ranjanaroyn	nishra@kal				
Education	· · · · · · · · · · · · · · · · · · ·					
Subject		itution		Ye		Details/ Rank
B.Sc. (H) Botany	Hine	Hindu College, University Of Delhi			97	First Rank in College
M. Sc. Botany		Department of Botany, University of Delhi			99	Fourth Rank In University
Qualified CSIR-UC (J.R.F.) NET	GC Qua	Qualified CSIR-UGC (J.R.F.) NET		T 199	99	Life Sciences
Ph.D. (Botany)		Department of Botany, University of Delhi			06	Stress tolerance studies in three tomato cultivars and Agrobacterium-mediated transformation of cultivar 'Pusa Ruby' with bspA gene for drought tolerance.
Awarded DBT-PDI through Indian Inst of Science, Bangalo	itute Nati	DBT- Post Doctoral Fellow at National Research Centre on Plant Biotechnology, IARI			06 (March- y 2006)	Investigating the mechanism of thermo-tolerance in plants and genetic transformation of Wheat for improved tolerance to drought/ heat stress

Career Profile				
Organisation/Institution	Designation	Duration	Role	
S.G.T.B Khalsa College,	Guest Lecturer	Oct 18-Nov 28,	Teaching Botany	
University of Delhi		2005	(H) students	
Kalindi College,	Ad-hoc Lecturer	Oct 21-Nov 22,	Teaching B. Sc.	
University of Delhi		2005	Life Science	
			Students	
Sri Venketswara College,	Ad-hoc Lecturer	22 Nov 2005-	Teaching	
University of Delhi		30 September	undergraduate	
		2006	Botany (H)	
			Students	
Zakir Husain College,	Ad-hoc Lecturer	October2006 –	Teaching	
University of Delhi		November	undergraduate	
		2006	Botany (H)	
			Students	
Kalindi College,	Ad-hoc- Lecturer	July 2007-April	Teaching	
University of Delhi		2014	undergraduate Life	
			Sciences, Botany	
			(H) Students	
Kalindi College,	Assistant Professor	1 <sup>st</sup> May, 2014	Till date	
University of Delhi				

### **Research Interests/Specialization**

Plant Tissue culture/ Plant Biotechnology

## **Administrative Assignments / Contribution to corporate life**

- 1. Convenor, Add on Courses, Kalindi College (March 2023 onwards)
- 2. Teacher-In –charge, Department of Botany, (June 17, 2021- May 03, 2023)
- 3. Governing Body Member, Kalindi College (March 21, 2022-Marsch 20, 2023)
- 4. Member, Research Projects Fund Allocation Committee, Kalindi College (September 2022-March 30, 2023)
- 5. Member (Science), Yearly Academic Journal, Kalindi College (September 2022- March 30, 2023)
- 6. Green Audit Convener, August 2021- December 2022
- 7. Criteria 1 Convenor, AQAR for NAAC (September 2022- till date)
- 8. Criteria 1 Convenor, SSR, for cycle II, NAAC Accreditation (2020- December 2022)
- 9. Arogya Club Convenor, 2021-till date
- 10. All India Survey for Higher Education (AISHE) committee Co- Convenor (2021- March 2023)
- 11. Member, Sports Committee (Kalindi College (June2021-March 2023)
- 12. EWS Liaison officer, Kalindi College (Since 2019- July 2022)
- 13. Admission Committee 2021, 2022 (TIC Botany)
- 14. Admission committee 2020 (Co-convenor Humanities), Kalindi College, University of Delhi
- 15. Co- Convenor, Entrepreneurship Cell, Kalindi College, University of Delhi (2020)
- 16. Member, Grievance Committee, Kalindi College, 2019.
- 17. Member, Compilation of data of Kalindi College for participation in Atal Ranking of Institutes on Innovation Achievement (ARIIA)2019
- 18. Co-convenor, Annual Cultural Festival "Lehren 2016".
- 19. Deputy coordinator for the evaluation of Examination of AECC (Ability Enhancement Compulsory Course) of I<sup>st</sup> Year (CBCS) for the Academic Session 2015-16.
- 20. Member, Prize committee, Annual Day-2016.
- 21. Convener of admission committee of Physical Sciences (2014, 2015).
- 22. Convenor (certificates), Annual Cultural Festival "Lehren"-2015.

- 23. Team member of organizing committee (Convenor, stage property), His Holiness Dalai Lama visit to the college (February, 2015).
- 24. Convenor, Drafting Proposals of Kalindi College for B. Voc Programme to UGC, Community College Programme and KAUSHAL KENDRA scheme of UGC (2015).
- 25. Represented Kalindi college for presentation during interface meeting with expert committee for assessment of proposals for community college scheme at UGC (May, 2015).

## **Teaching Experiences (Subject/Courses taught)**

18 years of Teaching experience in the papers of Genetics, Molecular Biology and Biotechnology, Cell biology, Biochemistry in various colleges of University of Delhi.

### **Research Guidance**

**NIL** 

# **Publication (Peer Reviewed/Indexed Journals):**

ORCID ID: 0000-0001-8763-8450 http://orcid.org/0000-0001-8763-8450

SCOPUS AUTHOR ID: 16514291600 <a href="https://www.scopus.com/authid/detail.uri?authorId=16514291600">https://www.scopus.com/authid/detail.uri?authorId=16514291600</a> Google Scholar ID: <a href="https://scholar.google.com/citations?user=mAXsIecAAAAJ&hl=en&authuser=5">https://scholar.google.com/citations?user=mAXsIecAAAAJ&hl=en&authuser=5</a>

Year of Publication	Title	Journal (Name of the journal. Vol Issue ISSN)	Authors
2006	Transformation of tomato cultivar 'Pusa Ruby' with <i>bspA</i> gene from <i>Populus tremula</i> for drought tolerance.	Plant Cell Tissue and Organ Culture 84 (1): 55- 67. Online ISSN No-1573- 5044, IMPACT FACTOR- 2.711, citations= 78	Ranjana Roy, Ram Singh Purty, Veena Agrawal & S. C. Gupta
2006	Promoterless <i>gus</i> gene shows leaky β-glucuronidase activity during transformation of tomato cultivar 'Pusa Ruby' with <i>bspA</i> gene for drought tolerance	Biologia Plantarum 50 (3): 352-358. Print ISSN NO0006-3134, Online ISSN No-1573-8264, IMPACT FACTOR- 1.747, citations = 7	Ranjana Roy, Ram Singh Purty, Veena Agrawal & S. C. Gupta
2009	Comparison of drought induced polypeptides and ion leakage in three tomato cultivars.	Biologia Plantarum 53(4): 685-690. Print ISSN NO 0006-3134, Online ISSN No-1573-8264, IMPACT FACTOR-1.747, citations = 17	Ranjana Roy, Veena Agrawal & S. C. Gupta
2011	Mannitol, PEG and NaCl induced polypeptide changes during <i>in vitro</i> culture of three tomato cultivars.	Biologia Plantarum 55 (3):591-595. Print ISSN NO0006-3134, Online ISSN No-1573-8264, IMPACT FACTOR- 1.747, citations =9	Ranjana Roy, Veena Agrawal & S. C. Gupta

2016 (Dec' 15 - Jan' 16)	Genetically Modified Plants: Boon or Bane?	Everyman's Science 50 (5): 320-324 ISSN No. 0531-495X. citations= 1	Ranjana Roy Mishra
2017	Society, Religion and Biodiversity Conservation in India	The Clarion- Multidisciplinary International Journal 6 (2) 53-58. Print ISSN: 2277-1697, Online ISSN: 2277-937X	Ranjana Roy Mishra
2020	Adoption of genetically modified crops can ensure food security in India.	National Academy Science Letters 43 (2) 213-217. DOI: https://doi.org/10.1007/s4000 9-019-00829-7 Print ISSN: 0250-541X Online ISSN: 2250-1754 Impact factor 0.788 Citations=1	Ranjana Roy Mishra
2024	Golden Rice Deserves a Chance	Science and Culture 90 (3-4) 122-125 ISSN 0036-8156 https://scienceandculture- isna.org/uploads/latestIssue/0 8 Research Communication - Ranjana Roy Mishra.pdf	Ranjana Roy Mishra

# **Publication in Peer Reviewed Proceedings of National Conference**

Ranjana Roy Mishra (2017) Microalgae based biofuel is promising fuel for future. *In*: Proceedings of NCGE 2017, UGC sponsored National Conference on "Clean & Green Energy: The Chemical and Environmental Aspects" (NCGE-2017) organized by Department of Chemistry, Bhaskaracharya College of Applied Sciences, University of Delhi on February 16-17, 2017, Pages 45-49. ISBN 978-1-63535-362-4 (Eds. Balram Pani & Manjeet Singh Barwa) Enriched Publications Private Limited, Delhi.

## **Other Publications**

- 1) Ranjana Roy, Veena Agrawal & S. C. Gupta. (2009-10) *In vitro* phenolics exudation in *Mangifera indica* L. Yearly Academic Journal, Kalindi College, Vol. 9: 86-92. ISSN no. 2348-9014
- 2) Ranjana Roy, Veena Agrawal & S. C. Gupta. (2010-11) Effect of osmotic and salt stresses on seed germination of two tomato cultivars. Yearly Academic Journal, Kalindi College, Vol. 10: 109-117. ISSN no. 2348-9014
- **3)** Ranjana Roy Mishra (2015-16) Kalindi College: A beautiful treasure of plant biodiversity. Yearly Academic Journal, Kalindi College, Vol. 15: 15-18 (ISSN No. 2348-9014).

# Seminar/Workshop/Conferences Presentation/Organisation

### **Orientation Course**

78<sup>th</sup>Orientation Course (OR-78) at UGC Academic Staff Centre for Professional Development in Higher Education (CPDHE), University of Delhi, Delhi (November 10 to December 06, 2014).

### **Refresher Course**

- 1. Successfully completed Swayam ARPIT course in "Skills for New Educational Architecture" from December 1, 2020 to March 31, 2021 for Career Advancement Scheme (CAS) promotion in the proctored examination held on 21/8/2021 offered by Sant Gadge Baba Amravati University, Maharastra.
- 2. Successfully completed Swayam ARPIT course in "Refresher Course on Teacher and Teaching in Higher Education" from December 1, 2020 to March 31, 2021 for Career Advancement Scheme (CAS) promotion in the proctored examination held on 21/8/2021 offered by Savitri Phule Pune University, Pune, Maharashtra.
- 3. Successfuly completed Swayam ARPIT course in "Biotechnology" for Career Advancement Scheme (CAS) promotion in the proctored examination held on 30.03.2019 Offered by Mohanlal Sukhadia University, Udaipur, Rajasthan.
- 4. Successfuly completed Swayam ARPIT course in "Latest Trends in Pedagogy and Assessment" for Career Advancement Scheme (CAS) promotion in the proctored examination held on 30.03.2019 Offered by Central University of South Bihar.
- 5. Refresher course in Environmental Sciences/ Earth Sciences at UGC-HRDC Academic Staff Centre for Professional Development in Higher Education (CPDHE), University of Delhi, Delhi (October 13 to November 04, 2015).

# Resource person in Training of Laboratory staff

NAAC sponsored National Workshop on "Skill Enhancement at Institutions of Higher Learning: Training Today from Tomorrow" Organized by the Internal Quality Assurance Cell (IQAC), Kalindi College at Kalindi College, University of Delhi (January 11, 2019).

# **Faculty Development Programme**

#### **Online FDP:**

- (a) One week Online FDP "E- content Development" (June 06-12, 2020) organized by Sanatan Dharma college, Ambala Cantt, Haryana in Collaboration with Directorate of Higher Education, Haryana.
- (b) One week Online FDP "Pedagogical Training for Effective Online Teaching & Learning" (August 03-10, 2020) organized by Deen Dayal Upadhyaya College, University of Delhi in association with K.T.H.M College, Nashik.
- (c) Three day online FDP "Outcome Based Education" organized by Rai University, Ahmedabad, Gujrat in association with Inpods India, Pune. (22-24 July, 2020)
- (d) Participated in two days Faculty Development Programme on "Agriculture, Health and Society" organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi (15-16 March, 2019).

### Webinars attended

- **1.** Attended webinar on "Tools & Techniques to avoid Plagiarism in E-Content Development" organized by E-Content Development Committee, Kalindi College on November 9th 2021.
- 2. Online Hands on training session "E- content development using basic tools" (September 27, 2021) organized by E-content development committee, Kalindi College, University of Delhi.
- 3. "How to avoid predatory Publishing? What Researchers can do" (July 24, 2021) organized by Research Committee under the aegis of IQAC, Kalindi College, University of Delhi.
- 4. "GeoPolitics of Vaccine: Access, R &D and Manufacturing" (June 22, 2021) organized by Kalindi College, University of Delhi.
- 5. International webinar "Ecosystem Restoration" (June 5, 2021) organized by PGDAV College, University of Delhi.
- 6. "Tinkering with Plant Genomics" (July 06, 2020) organized by Department of Botany, Miranda House, University of Delhi.

## **Workshops Attended:**

- 6. "Recent techniques in gene cloning, sequencing and DNA profiling" at CIMAP, Lucknow (Nov 20-29, 2000).
- 7. Workshop for teachers on Biology Laboratory Course (Course code: BY 106) for B.Sc. Programme 1<sup>st</sup> Year organized by Institute of lifelong learning and Daulat Ram College at Daulat Ram College, University of Delhi, Delhi (September 2-4, 2008).
- 8. Workshop for teachers on Biology Laboratory Course (Course code: LS 306) for B.Sc. Programme III Year organized by Institute of lifelong learning and Acharya Narendra Dev College at Acharya Narendra Dev College, University of Delhi, Delhi (October 21-24, 2008).
- 9. ILLL Workshop Tier II for capacity building of Delhi University faculty at Kalindi College, University of Delhi, Delhi (April 16-28, 2010).
- 10. Orientation Workshop on "*Use of Technologies in Teaching*" at CPDHE (Centre for Professional Development in Higher Education), Academic Research Centre, Patel Marg, University of Delhi (17<sup>th</sup> to 18<sup>th</sup> October, 2014).
- 11. One day Workshop "Ankuran" on Development of Herbal Garden organized by Eco-Club of Shivaji college (sponsored by National Medicinal Plant Board in association with Centre for Environment Education), at Shivaji College, University of Delhi, Delhi (29<sup>th</sup> January, 2015).
- 12. Lecture workshop on *Women in Science: A Career in Science* organized by Women in Science Panel, Indian Academy of Sciences, Bangalore and Science Foundation, Deen Dayal Upadhyaya College (University of Delhi) at Deen Dayal Upadhyaya College, Dwarka, Delhi(10-11 August, 2017).
- 13. Science Academies' Lecture Workshop on "Role of Epigenetics in Health and Diseases" organized by Department of Zoology, Deen Dyal Upadhyaya College and jointly sponsored by Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and the National Academy of Sciences, Allahabad (5-6 April, 2018).
- 14. One day workshop on "Recent Advances in Plant Systematics and Future Prospects" on March 12, 2019 (Department of Botany, Dayal Singh College, University of Delhi).

- 15. Two day National Workshop on "Intellectual Property Rights" organized by Department of Botany and Zoology, Deen Dayal Upadhyaya College under the aegis of DBT star college scheme at Deen Dayal Upadhyaya College, University of Delhi (22-23 August, 2019).
- 16. Two day Workshop on "DNA barcoding and Metagenomics" organized by Department of Botany, KiroriMal College under the aegis of DBT star college scheme 2019-2022 at Kirorimal College, University of Delhi (September 19-20, 2019).

## **Seminars, Conferences Attended:**

- 17. National Orchid show and symposium on "Orchid Research, Production and Marketing strategies" organized by The Orchid Society of India (TOSI) at CSIR Science Centre, New Delhi. (November 8-10, 2002).
- 18. National seminar on "Genetically Modified and Transgenic Food Crops" organized by Delhi University Botanical Society (DUBS) at the Department of Botany, University of Delhi, Delhi 110007 (November 26-27, 2002).
- 19. 2<sup>nd</sup> International Congress of "Plant Physiology on Sustainable Plant Productivity under Changing Environment" held at IARI, New Delhi (January 8-12, 2003).
- 20. National Seminar on Climate Change in India and its Impact on Plant Diversity and Productivity organized by Delhi University Botanical Society (DUBS) at Department of Botany, University of Delhi, Delhi-110007 (December 22-23, 2003).
- 21. 5<sup>th</sup> Annual Symposium on Frontiers in Biomedical Research held at Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi -110007 (April 14 -16, 2004).
- 22. International Conference on Chemistry Biology Interface: Synergistic New Frontiers held at Vigyan Bhawan, New Delhi, organized by Dr. B.R.Ambedkar Centre for Biomedical Research, University of Delhi, Delhi-110007 (November 21-26, 2004).
- 23. National seminar on "Genetically Modified Organisms- Biosafety Aspects" organized by Delhi University Botanical Society (DUBS) at Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi (March 10-11, 2005).
- 24. National Symposium on Frontiers and Avenues in Plant Sciences held at Shivaji college, University of Delhi, Delhi (January 20-21, 2011).
- 25. I<sup>st</sup> International Conference on Emerging Trends of Nanotechnology in Drug Discovery organized by Sri Venkateswara College and Department of Biochemistry, University of Delhi South Campus in association with University of Madeira, Portugal on May 26-27, 2014.
- 26. "Training and Awareness Program on Intellectual Property rights" jointly organized by The Controller General of Patents, Designs and Trademarks, Department Of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India, Delhi University and

- Federation of Indian Chambers of Commerce and Industry (FICCI) on November 2, 2014 at Conference Centre, North Campus, University of Delhi, Delhi.
- 27. National Seminar on Relevance of Medicinal Plants in 21<sup>st</sup> Century organized by Department of Botany, Ramjas college, University of Delhi (Feb 10-11, 2015).
- 28. Oral Presentation of Paper "Society, Religion and Biodiversity Conservation in India with special reference to sacred plants" in UGC sponsored National Seminar on "Environmental Ethics, Resource Depletion and Sustainable Development" organized by Department of Geography, Kalindi College, University of Delhi on 25<sup>th</sup> and 26<sup>th</sup> February, 2016.
- 29. Contributed article "Genetically Modified Crops and Food Security" in DST and Ministry of Earth Sciences sponsored International Conference on "Spatial Decision Support System for United Nation Sustainable Development Goals" Organised by Department of Geography, Kalindi College, University of Delhi on February 1-2, 2017 at Kalindi College, University of Delhi.
- 30. Participated and Contributed article "Microalgae based Biofuel is Promising Fuel for Future" in UGC sponsored National Conference on "Clean & Green Energy: The Chemical and Environmental Aspects" (NCGE-2017) organised by Department of Chemistry, Bhaskaracharya College of Applied Sciences, University of Delhi on February 16-17, 2017 at Bhaskaracharya College of Applied Sciences, Dwarka, Delhi.
- 31. Participated in the 2<sup>nd</sup> Knowledge Conclave for Colleges and Universities organized by Centre for Science and Environment on March 6-7, 2017 at Gulmohar Hall, India Habitat Centre, Lodhi Road, New Delhi.
- 32. National Conference on "Biotechnology for Sustainable Agriculture Biotikos 2019" at TERI school of Advanced studies, Vasant Kunj, New Delhi (April 17, 2019).
- 33. National Conference on "Biotechnology for Sustainable Agriculture Biotikos 2019" at TERI school of Advanced studies, Vasant Kunj, New Delhi (April 17, 2019).
- 34. Two day National Workshop on "Intellectual Property Rights" organized by Department of Botany and Zoology, Deen Dayal Upadhyaya College under the aegis of DBT star college scheme at Deen Dayal Upadhyaya College, University of Delhi (22-23 August, 2019).
- 35. Two day Workshop on "DNA barcoding and Metagenomics" organized by Department of Botany, KiroriMal College under the aegis of DBT star college scheme 2019-2022 at Kirorimal College, University of Delhi (September 19-20, 2019).

# **Academic Works assigned by University**

- 1. Appointed as member of Board of Examiners responsible for setting the question paper "Genetics, Genomics & Molecular Biology (LS204)" for B.Sc. (Prog.) Life Science Part II Admission 2005-2009 Centenary Chance Examination 2022 for Ex-students who could not complete their degree within the span period.
- 2. Appointed as Convenor of Board of Examiners responsible for setting the question paper "Molecular Biology (UPC 32161401)" for B.Sc. (H) Botany Semester LOCF (Second Phase of Undergraduate) and annual examination August, 2022 examination.

- 3. Appointed as Convenor of Board of Examiners responsible for setting the question paper "Molecular Biology (UPC 32161401)" for B.Sc. (H) Botany Semester LOCF end semester June, 2022.
- 4. Appointed as a member of Board of Examiners responsible for setting the question paper "Genetics (UPC 32161303)" for B.Sc. (H) Botany Semester III CBCS end semester Online Open Book examinations held in December, 2020.
- 5. Joint Examiner in the Board of Examiners for setting of the question paper "Plant Biotechnology" for the B.Sc. (H) Botany Erstwhile FYUP Semester VI examinations (May-June, 2016).
- 6. Convenor of the Board of Examiners for setting of the question paper "Genetics and Genomics" for the B.Sc. (Prog.) Life Sciences Semester V examinations (November-December, 2014).
- 7. Member in Board of Examiners for setting of the question paper of "environmental Sciences" paper for B.Sc. (Prog.) Applied Life Sciences, 2012.

### **Other Academic Work**

Contributed articles in college Academic Journal (2009-10, 2010-2011)

### **Awards & Distinctions**

1<sup>st</sup> Rank Holder In Hindu College, University of Delhi in B. Sc. (H) Botany (1997)

4<sup>th</sup> Rank in University in M. Sc. Botany, University of Delhi (1999)

Received UGC J. R. F (2000-2002)

Received UGC S.R.F (2002-2005).

Awarded DBT-Post Doctoral Fellowship through Indian Institute of Science, Bangalore (2006)

## Public Service/ University Service/ Consulting Activity- Nil

**Professional Societies Memberships:** Life Member of The Indian Science Congress Association (Membership No. L29383)

Projects (Major Grants / Collaborations)- Nil

**Other Details** 

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SCOPUS AUTHOR ID: 16514291600 https://www.scopus.com/authid/detail.uri?authorId=16514291600