

## FACULTY PROFILE PROFORMA

Title (Ms/Mr/Dr/Prof)	<b>Dr.</b>	First Name	<b>Ranjana Roy</b>	Last Name	<b>Mishra</b>	Photograph
<b>Designation</b>	Assistant Professor					
<b>Department</b>	Botany					
<b>Address (Official)</b>	Department of Botany Kalindi College University of Delhi Delhi-110078					
<b>Email</b>	<a href="mailto:royranjana_123@rediffmail.com">royranjana_123@rediffmail.com</a>					

### Education

Subject	Institution	Year	Details/ Rank
B.Sc. (H) Botany	Hindu College, University Of Delhi	1997	First Rank in College
M. Sc. Botany	Hindu College, University of Delhi	1999	Fourth Rank In University
Qualified CSIR-UGC (J.R.F.) NET		1999	Life Sciences
Ph.D. (Botany)	Department of Botany, University of Delhi	2006	Stress tolerance studies in three tomato cultivars and <i>Agrobacterium</i> -mediated transformation of cultivar 'Pusa Ruby' with <i>bspA</i> gene for drought tolerance.
Awarded DBT-PDF through Indian Institute of Science, Bangalore		2006	

### Career Profile

Organisation/Institution	Designation	Duration	Role
S.G.T.B Khalsa College, University of Delhi	Guest Lecturer	Oct 18-Nov 28, 2005	Teaching Botany (H) students
Kalindi College, University of Delhi	Ad-hoc Lecturer	Oct 21-Nov 22, 2005	Teaching B. Sc. Life Science Students
Sri Venkateswara College,	Ad-hoc Lecturer	22 Nov 2005-	Teaching

University of Delhi		30 September 2006	undergraduate Botany (H) Students
Zakir Husain College, University of Delhi	Ad-hoc Lecturer	October 2006 – November 2006	Teaching undergraduate Botany (H) Students
Kalindi College, University of Delhi	Ad-hoc- Lecturer	July 2007-April 2014	Teaching undergraduate Life Sciences, Botany (H) Students
Kalindi College, University of Delhi	Assistant Professor	1 <sup>st</sup> May, 2014	Till date

### **Research Interests/Specialization**

Plant Tissue culture/ Plant Biotechnology

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

1. EWS Liaison officer, 2019.
2. Member, Grievance Committee, Kalindi College, 2019.
3. Co- convenor, Discipline committee, Alumni Meet - 2019.
4. Co- convenor, Fillers, Lehren - 2019.
5. Convenor, Stage Decoration, Sports Day – 2019
6. Member, Compilation of data of Kalindi College for participation in Atal Ranking of Institutes on Innovation Achievement (ARIIA)2019
7. Co-convenor, Annual Cultural Festival “Lehren 2016”.
8. 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.
9. Member, Prize committee, Annual Day-2016.
10. Convenor, (Compering by students) Farewell on Annual Day-2016.
10. Convener of admission committee of Physical Sciences (2014, 2015).
11. Convenor (certificates), Annual Cultural Festival “Lehren”-2015.
12. Team member of organizing committee (Convenor, stage property), His Holiness Dalai Lama visit to the college (February, 2015).
13. Convenor , Drafting Proposals of Kalindi College for B. Voc Programme to UGC, Community College Programme and KAUSHAL KENDRA scheme of UGC (2015).
14. 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)**

15 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** <https://www.scopus.com/authid/detail.uri?authorId=16514291600>

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.	<b>Plant Cell Tissue and Organ Culture 84 (1): 55-67. Online ISSN No-1573-5044, IMPACT FACTOR- 2.2, citations= 61</b>	<b>Ranjana Roy,</b> Ram Singh Purty, Veena Agrawal & S. C. Gupta
2006	Promoterless <i>gus</i> gene shows leaky $\beta$ -glucuronidase activity during transformation of tomato cultivar 'Pusa Ruby' with <i>bspA</i> gene for drought tolerance	<b>Biologia Plantarum 50 (3): 352-358. Print ISSN NO. -0006-3134, Online ISSN No-1573-8264, IMPACT FACTOR- 1.384, citations = 4</b>	<b>Ranjana Roy,</b> Ram Singh Purty, Veena Agrawal & S. C. Gupta
2009	Comparison of drought induced polypeptides and ion leakage in three tomato cultivars.	<b>Biologia Plantarum 53(4): 685-690. Print ISSN NO. -0006-3134, Online ISSN No-1573-8264, IMPACT FACTOR-1.384, citations = 14</b>	<b>Ranjana Roy,</b> Veena Agrawal & S. C. Gupta
2011	Mannitol, PEG and NaCl induced polypeptide changes during <i>in vitro</i> culture of three tomato cultivars.	<b>Biologia Plantarum 55 (3):591-595. Print ISSN NO. -0006-3134, Online ISSN No-1573-8264, IMPACT FACTOR- 1.384, citations =7</b>	<b>Ranjana Roy,</b> Veena Agrawal & S. C. Gupta
2016 (Dec' 15 - Jan' 16)	Genetically Modified Plants: Boon or Bane?	<b>Everyman's Science 50 (5): 320-324 ISSN No. 0531-495X. citations= 1</b>	<b>Ranjana Roy Mishra</b>

2017	Society, Religion and Biodiversity Conservation in India	<b>The Clarion-Multidisciplinary International Journal 6 (2) 53-58. Print ISSN : 2277-1697, Online ISSN: 2277-937X</b>	<b>Ranjana Roy Mishra</b>
2019	Adoption of genetically modified crops can ensure food security in India.	<b>National Academy Science Letters (online Published on September 11, 2019)</b> DOI <a href="https://doi.org/10.1007/s40009-019-00829-7">https://doi.org/10.1007/s40009-019-00829-7</a> <b>Print ISSN :0250-541X</b> <b>Online ISSN: 2250-1754</b> Impact factor 0.331	<b>Ranjana Roy Mishra</b>

### 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

- 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).
- Successfully 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.

- Successfully 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.

### **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**

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).

### **Workshops Attended:**

- 1) “*Recent techniques in gene cloning, sequencing and DNA profiling*” at CIMAP, Lucknow (Nov 20-29, 2000).
- 2) 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).
- 3) 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).
- 4) ILL Workshop Tier II for capacity building of Delhi University faculty at Kalindi College, University of Delhi, Delhi (April 16-28, 2010).
- 5) 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).
- 6) 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).
- 7) 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).
- 8) 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).

- 9) 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).
- 10) 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).
- 11) 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:**

- 1) 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).
- 2) 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).
- 3) 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).
- 4) 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).
- 5) 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).
- 6) 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).
- 7) 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).
- 8) National Symposium on Frontiers and Avenues in Plant Sciences held at Shivaji college, University of Delhi, Delhi (January 20-21, 2011).

- 9) 1<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.
- 10) "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.
- 11) 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).
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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.
- 16) National Conference on "Biotechnology for Sustainable Agriculture - Biotikos 2019" at TERI school of Advanced studies, Vacant Kunj, New Delhi (April 17, 2019).

### **Other Academic Works**

1. 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).
2. 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).
3. Member in Board of Examiners for setting of the question paper of "environmental Sciences" paper for B.Sc. (Prog.) Applied Life Sciences, 2012.
4. Contributed articles in college Academic Journal (2009-10, 2010-2011)

<b>Awards &amp; Distinctions</b>
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)
<b>Public Service/ University Service/ Consulting Activity-</b> Nil
<b>Professional Societies Memberships:</b> Life Member of The Indian Science Congress Association (Membership No. L29383)
<b>Projects (Major Grants / Collaborations)-</b> Nil
<b>Other Details</b> <b>ORCID ID: 0000-0001-8763-8450</b> <a href="http://orcid.org/0000-0001-8763-8450">http://orcid.org/0000-0001-8763-8450</a> <b>SCOPUS AUTHOR ID: 16514291600</b> <a href="https://www.scopus.com/authid/detail.uri?authorId=16514291600">https://www.scopus.com/authid/detail.uri?authorId=16514291600</a>