

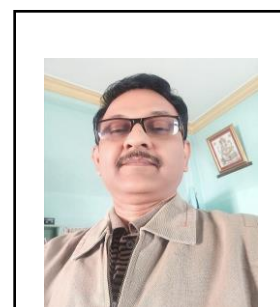
# RESUME

**NAME:** Dr. Nirmal Mandal

**DESIGNATION:** Professor

**CONTACTS:**

- OFFICIAL ADDRESS FOR CORRESPONDENCE:**  
Department of Agricultural Biotechnology, Faculty of Agriculture  
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur  
P.O. Krishi Viswavidyalaya, Dist. Nadia, West Bengal, PIN-741252
- EMAIL:** Institutional: mandal.nirmal@bckv.edu.in  
Alternative: [nirman\\_bckv05@yahoo.com](mailto:nirman_bckv05@yahoo.com)
- ORCID ID:** <https://orcid.org/0009-0001-7437-3083>
- GOOGLE SCHOLAR PROFILE:** [https://scholar.google.com/citations?user=iiTX9\\_MAAAAJ&hl=en&oi=ao](https://scholar.google.com/citations?user=iiTX9_MAAAAJ&hl=en&oi=ao)
- RESEARCHGATE PROFILE:** [https://www.researchgate.net/profile/Nirmal\\_Mandal-9](https://www.researchgate.net/profile/Nirmal_Mandal-9)
- DATE OF JOINING TO THE UNIVERSITY:** 10 / 01/ 1996



**7. ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph.D. (Ag.) in Genetics & Pl. Breeding	Bose Institute-BCKV	1996
MASTER'S	M. Sc. (Ag.) in Genetics & Pl. Breeding	BCKV	1992
BACHELOR'S	B. Sc. (Ag.) Hons.	BCKV	1989

**8. EMPLOYMENT HISTORY: (Starting from present position)**

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Professor	BCKV	10. 01. 2011	Continue
Assoc Professor	BCKV	10. 01. 2008	09.01.2011
Reader	BCKV	10. 01. 2005	09. 01. 2008
Sr. Lecturer	BCKV	10. 01. 2000	09. 01. 2005
Lecturer	BCKV	10. 01. 1996	09. 01. 2000

**9. ADMINISTRATIVE POST(S)/ RESPONSIBILITY**

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY	PERIOD	
		From (Date)	To (Date)
1	Head of the Department	13.03.2001	17.02.2021
2	Member of Faculty Council	13.03.2001	17.02.2021
3	Chairman, BOS	13.03.2001	17.02.2021
4	In-Charge, Central Instrumentation Centre	13.03.2001	30.09.2007
5	Course Co-ordinator of DBT sponsored M. Sc. in Agricultural Biotechnology Programme	2014	2020

**10. AREA OF RESEARCH :**

- Plant tissue culture and genetic modification of crop plants
- Marker assisted selection

**11. COURSES ASSOCIATED WITH:**

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	ABT (H)	Fundamentals of Plant Biotechnology	1+1
	ABT 304	Principles and Practices of Agricultural Biotechnology	1+1
POST GRADUATE	MBB 501	Principles of Biotechnology	3+0
	MBB 502	Fundamentals of Molecular Biology	3+0
	MBB 509	Plant Tissue Culture	2+1
Ph.D.	MBB 602	Plant Genetic Engineering	3+0
	MBB 604	Commercial Plant Tissue Culture	2+0
	MBB 606	RNA Biology	1+0
	MBB	Seminar-II	1+0

**12. NUMBER OF STUDENTS SUPERVISED:****Master's:** 5 (Five)**Doctoral:** 24 (Twenty four)**13. RESOURCE PERSON FOR OTHER INSTITUTES (extended services to others in various capacities)**

- i) University of Calcutta, Ballygunge, Kolkata
- ii) Jadavpur University, Kolkata
- iii) Vidyasagar University, Midnapur
- iv) University of Kalyani, West Bengal
- v) Visva-Bharati University, Santiniketan, West Bengal
- vi) Uttarbanga Viswavidyalaya, Siliguri, West Bengal
- vii) Uttarbanga Krishi Viswavidyalaya, Cooch Behar, West Bengal
- viii) University of Putra, Malaysia
- ix) Bangladesh Agricultural University, Rajshahi
- x) Bangladesh Agricultural University, Mymensingh
- xi) Bihar Agricultural University, Sabur
- xii) Central Agricultural University, Imphal, Manipur
- xiii) Manipur University, Canchipur, Imphal
- xiv) Nagaland University, Medziphema
- xv) OUAT, Bhubaneswar, Orissa
- xvi) Assam Agricultural University, Jorhat
- xvii) TNAU, Coimbatore
- xviii) UAS, Bangalore
- xix) RKMVERI, Narendrapur, West Bengal
- xx) CPGSAS, Umiam, Barapani
- xxi) Swami Keshwanand Rajasthan Agricultural University, Bikaner
- xxii) Sister Nivedita University, Barrackpore, West Bengal
- xxiii) The Neotia University, Diamond Harbour, West Bengal
- xxiv) JIS University, Agarpara, West Bengal
- xxv) Swami Vivekananda university, Salt Lake, Kolkata

#### 14. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES:

- (i) Society for Plant Biochemistry & Biotechnology, New Delhi- 110 012.
- (ii) Society for Sciences, Dumka- 841 101
- (iii) The Indian Society of Genetics and Plant Breeding, New Delhi- 110 012
- (iv) Crop & Weed Science Society, Mohanpur, Nadia, West Bengal- 741252
- (v) Academy for Advancement of Agricultural Sciences, Kalyani, W.B- 741235

#### 15. PROJECT ACTIVITIES:

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	In-depth investigation on biotic/abiotic elicitors mediated induced systemic resistance in rice- <i>Rhizoctonia</i> system under different agro-ecological region of West Bengal	DBT	Completed	Co-PI

#### 16. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME:

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	Recent Techniques on Molecular Biology and Biotechnology”	Feb. 25 - to March 12, 1997	Centre of Biotechnology, I.A.R.I., New Delhi	Trainee
2	PCR Amplification and Cloning of Gene	March 9 - April 18, 2000	Division of Biochemistry, I.A.R.I., New Delhi	Trainee
3	Ecofriendly utilization of solid and liquid wastes of farm, urban and industrial wastes for agriculture	July 17 - to Aug. 6, 2002	Tamil Nadu Agricultural University, Coimbatore	Trainee
4	Application Training on Applied Biosystems Real Time PCR System	September 2-4, 2007	LABINDIA Technical Training Centre, Gurgaon, Haryana	Trainee
5	Winter school entitled “Research and development needs in transgenic era”	December 11-31, 2008	University of Agricultural Sciences, Dharwad, Karnataka	Trainee

## 17. SEMINAR/ SYMPOSIUM/ WORKSHOP:

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	International Symposium on "Hundred Years of Post-Mendelian Genetics and Plant Breeding- Retrospect and Prospects"	November 6-9, 2001.	IARI, New Delhi	Poster Presentation
2	International Symposium on "Plant Biodiversity: Conservation and Evaluation"	December 17-20, 2002	Bose Institute, Kolkata	Poster Presentation
3	National Symposium on "Current trends in research on microorganisms"	February 15-16, 2003	University of Calcutta, Kolkata	Oral presentation
4	National Conference on "Application of identified chemical and biological technologies in agriculture"	March 14-15, 2003	Dept. of Life Science & Biotechnology, Jadavpur University	Oral presentation
5	International Conference & Exposition on "WORLD HERBO EXPO-2004"	January 12-14, 2004	Barkatullah University, Bhopal	Oral presentation
6	International Conference on "Environment & Development"	February 4-8, 2004	Science City, Kolkata	Poster presentation
7	International Symposium on "Food security dilemma: Plant health and climate change issues"	December 7-9, 2012.	BCKV, Kalyani	Oral presentation
8	National Seminar on "Agriculture and bio-security in changing scenario"	February 1-3, 2014	Institute of Agriculture, Visva Bharati, West Bengal	Oral presentation
9	International Seminar on "Integrating Agriculture & allied research: Prioritizing future potential for secure livelihoods"	November 6-9, 2014	BCKV, Kalyani	Oral presentation
10	National Seminar on "Sustainable agriculture for food security and better environment"	December 17-18, 2015.	Farmers' Academy & Convention centre, BCKV	Oral presentation
11	National Seminar on "Resource based inclusive agriculture & rural development: Opportunities & Challenges"	January 16-17, 2016	Vivekananda University, Narendrapur, West Bengal	Oral presentation

12	International Conference on “Agriculture, Food Science, Natural Resource Management and Environment Dynamics: The Technology, People and Sustainable Development”	August 13-14, 2016	Farmers’ Academy & Convention centre, BCKV	Oral presentation
13	International Symposium on “Livelihood Promotion, Biodiversity Conservation and Social Security in Indian Sundarbans” held during at	December 7-9, 2018	Jharkhali, South 24 Pgs, West Bengal	Chaired a session
14	International Seminar on “Agriskills for convergence in research industry & livelihood (ACRIL)”	November 28 - December 1, 2019	Farmers’ Academy & Convention centre, BCKV	Rapporteur
15	International Conference entitled “Application of Nanotechnology for Sustainable, Productive and Safer Agriculture and Food System”	November 5-6, 2020	DBT-India and TERI-Deakin Nanobiotechnology Centre, Gurugram.	Virtual
16	International Webinar on 'Role of legumes and pulses in sustainable cropping system of hot air Arid Zone'	July 17, 2021	Swami Keshawanand Rajasthan Agricultural University, Bikaner	Attended webinar
17	International seminar on “Recent developmental trends in Biological research”	July 15, 2023	Acharya Prafulla Chandra College, New Barrackpore, Kolkata	Oral presentation

## 18. PATENTS/ HONOURS/ AWARDS/ RECOGNITION:

Received Honorary Fellowship from Society for Sciences and awarded Fellow of Society for Sciences (F.S. Sc) in 2003.

## 19. PUBLICATIONS:

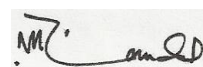
### A. BOOK CHAPTERS

- Genetic diversity in some wild and cultivated germplasm in *Vigna* by molecular marker. In: Recent Trends in Horticultural Biotechnology, Vol. 2 (eds. R. Keshavachandran *et. al.*). **New India Publishing Agency**, New Delhi, (2007).
- Sustainable management of rice blast [*Magnaporthe grisea* (Hebert) Barr]: 50 years of research progress in molecular biology. In: Arya A and Perello AE (eds.) Management of fungal plant pathogens: Current trends and progress. **CAB International**, Nosworthy Way, Wallingford, Oxford, Oxford Shire, UK, Chapter 8, (2010).

- Single nucleotide polymorphism (SNP) marker for abiotic stress tolerance in crop plants. In: *Advances in Plant Breeding Strategies*, Vol. 2 (eds. JM Al-Khayri, M. Jain, DV Johnson). **Springer International Publishing**, Switzerland, (2016).
- Indirect regeneration of indica rice from mature seeds: The current scenario. In: *Futuristic trends in Biotechnology*. **IIP Proceedings**, Vo. 2, Chapter 16 (2023).
- Biotechnological interventions in upscaling of plant secondary metabolites. In: *Futuristic trends in Biotechnology*. **IIP Proceedings**, Vo. 2, Chapter 15, (2023).

## **B. RESEARCH PAPERS (Best 10)**

1. Gantait S, Mandal N, Bhattacharyya S, Das PK (2011) Induction and identification of tetraploids using *in vitro* colchicine treatment of *Gerbera jamesonii* Bolus cv. Sciella. **Plant Cell Tissue and Organ Culture** 106(3): 485-493. [NAAS: 9.0].
2. Gantait S, Mandal N, Das PK (2011) *In vitro* accelerated mass propagation and *ex vitro* evaluation of *Aloe vera* L. with aloin content and superoxide dismutase activity. **Natural Product Research** (Taylor & Francis) 25(14): 1340-1378. (NAAS: 8.20).
3. Gantait S, Sinniah UR, Mandal N, Das PK (2012) Direct induction of protocorm-like bodies from shoot tips, plantlet formation, and clonal fidelity analysis in *Anthurium andreaeanum* cv. CanCan. **Plant Growth Regulation** 67(3): 257-270. (NAAS: 10.20).
4. Kundu S, Salma U, Ali Md. N, Hazra AK and N Mandal (2018) Development of transgenic hairy roots and augmentation of secondary metabolites by precursor feeding in *Sphagneticola calendulacea* (L.) Pruski. **Industrial Crops & Products**, 121: 206-215. (NAAS: 11.90).
5. Salma U, Kundu S, Ali Md. N and Mandal N (2018) Augmentation of wedelolactone through *in vitro* tetraploid induction in *Eclipta alba* (L.) Hassk. **Plant Cell Tiss. Organ Cult.**, 133:289–298. (NAAS:9.0)
6. Salma U, Kundu S, Ali Md. N and Mandal N (2018) Elicitor mediated enhancement of wedelolactone in cell suspension culture of *Eclipta alba* (L.) Hassk. **Plant Cell Tiss. Organ Cult.**, 134: 409-421. (NAAS: 9.0).
7. Kundu S, Salma U, Ali Md. N and Mandal N (2018) *In vitro* tetraploidization for the augmentation of wedelolactone in *Sphagneticola calendulacea* (L.) Pruski. **Acta Physiol. Plant.**, 40: 215. (NAAS: 8.60).
8. Mitra M, Gantait S and Mandal N (2020) *Coleus forskohlii*: advancements and prospects of *in vitro* biotechnology. **Appl. Microbiol. Biotechnol.**, 104: 2359–2371. (NAAS:11.0).
9. Sutradhar M and Mandal N (2023) Reasons and riddance of *Agrobacterium tumefaciens* overgrowth in plant transformation. **Transgenic Res.** Online **Springer**, Doi.org/10.1007/s11248-023-00338-w. (NAAS: 8.79)
10. Sutradhar M, Singh BK, Samanta S, Ali M, Mandal N (2024) The overexpression of *OsMed 37\_6*, a mediator complex subunit enhances salt stress tolerance in rice. **Biocatalysis and Agricultural Biotechnology**, 58 (2024) 103212 (Elsevier, Online).(IF: 4.0)



31.5.2024