

Curriculum Vitae

Name **DR. AFAQUE QURAISHI**
Father's Name Late Shri G.M. Quraishi
Date of Birth January 12, 1969
Present Status Professor
School of Studies in Biotechnology
Pt. Ravishankar Shukla University
Raipur (Chhattisgarh) 492 010
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Education:

Ph.D. in Bioscience (1998) from Pt. Ravishankar Shukla University, Raipur (CG), on:
“Studies on *in vitro* regeneration of some fuel-wood species”
M.Sc. in Botany (1990) from KG Govt. Arts & Science College, Raigarh CG

FELLOWSHIPS RECEIVED:

Research Associate, CSIR:

Project Title: Micropropagation and Somaclonal variation assessment of Neem
& Mangium
Funding Agency: Council of Scientific and Industrial Research, New Delhi
Duration: 2002 to 2004

Project Fellow:

Project Title: Biomass Research Center
Funding Agency: Ministry of Non-Conventional Energy Sources, New Delhi
Duration: 1991 to 1996

POSITIONS HELD

1. Professor in Biotechnology

Institute: Pt. Ravishankar Shukla University, Raipur CG
Duration: 15/09/2023 to continue

2. Associate Professor in Biotechnology

Institute: Pt. Ravishankar Shukla University, Raipur CG
Duration: 15/09/2020 to 15/09/2023

3. Assistant Professor in Biotechnology

Institute: Pt. Ravishankar Shukla University, Raipur CG
Duration: 15/09/2008 to 15/09/2020

4. Coordinator (Life Science Dept):

Institute: Mahaveer Academy of Technology & Sciences, Pandri, Raipur CG
Duration: 2006 to 2008

5. Lecturer in Biotechnology:

Institute: Rai Foundation College (Erstwhile Rai University), Raipur (CG)
Duration: 2004 to 2006

6. Scientist:

Biotech Industry: Plant Tissue Culture Unit, Shrishrimal Plantation Ltd, Raipur CG
Duration: 1996 to 2001

Awards

Best Oral Presentation: Quraishi Afaq, Keshavkant S & Chauhan R (2018): Impact of elicitors on production of diosgenin in micro-tubers of Safed Musli. National Conference on 'Plant and Microbial Products: Progress, Potential & IPR issues' at Dept of Botany, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG), 7-9 Feb 2018, pp 34

Young Scientist Award (1994) by Madhya Pradesh Council of Science and Technology; at Sagar (MP), on paper "*In vitro* micropropagation from nodal segments of *Cleistanthus collinus* Benth."

TRAINING

SN	Training Program	Agency	Duration
1	NEP 2020 Orientation & Sensitization Program under Malaviya Mission Teacher Training Program of University Grants Commission	Malaviya Mission Teacher Training Centre, Pt. Ravishankar Shukla University, Raipur, (C.G.)	03.01.2024 – 12.01.2024
2	Refresher Course on "Fundamentals of Research Methodology"	UGC-Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur CG	Three weeks: 01.12.2017 – 21.12.2017
3	'Special Summer School' on "Paradigm shift in Higher Education."	UGC-Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur CG	Three weeks: 20.07.2015 – 09.08.2015
4	'Refresher Course' on "Biotechnology-21 st Century"	UGC-Academic Staff College, Pt. Ravishankar Shukla University, Raipur CG	Three weeks: 17/07/2012 - 06/08/2012
5	'Orientation Program' on "Education & Development"	UGC-Academic Staff College, Pt. Ravishankar Shukla University, Raipur CG	Four weeks: 28/01/2012 - 24/02/2012

RESEARCH PROJECTS:

INDIVIDUAL:

PI: “Herbal Treatment for the Rheumatoid Arthritis” Pt. Deendayal Upadhyay Memorial Health Sciences and AYUSH University of Chhattisgarh, Raipur. Rs. 3 Lakh (2018-19). Sanction No. F-178/2482/DUHS/Acad/2018 dated 16.05.2018 (15.10.2018 to 15.10.2019)

PI: “True-to-type *in vitro* conservation of Safed Musli (*Chlorophytum borivillianum* Sant. Et Fernand.): a rare medicinal plant of India” Chhattisgarh Council of Science & Technology, Raipur. Rs. 5 Lakh (2014-17). Endt. No. 1089/CCOST/MRP/2014 dated 04.09.2014 (1.09.2014 to 31.08.2017)

Co-PI: “Screening of Microbes for Bioethanol production from Mahua (*Madhuca indica*) flowers” UGC Major Project: Rs. 7.41 Lakh (2011-14)

Co-PI: “Development & standardization of micropropagation protocol for banana & sugarcane” CG COST: Rs. 3.63 Lakh (2008-09)

INSTITUTIONAL:

Co-PI: “National Centre for Natural Resources” (NCNR) Dept. of Science & Technology, New Delhi, Rs. 9.05 Cr. (2012-17)

DST-FIST Level I, Dept. of Science & Technology, New Delhi, Rs. 44 Lakh (2013-18)

PUBLICATIONS:

Research Papers:

Adil S, Dhruw C, Rathi A, **Quraishi Afaq** (2025) Insights into stress indicators during compatible interaction between host plant *Musa* and viral pathogen BBTv: An *in vitro* study. *In Vitro Cellular & Developmental Biology – Plant*; doi.org/10.1007/s11627-025-10521-9 [**JIF: 2.2**]

Anjum Afreen, Adil S, **Quraishi Afaq** (2024) Morphological and biochemical alterations during *in vitro* microrhizome formation of *Curcuma caesia* Roxb. *Journal of Plant Biochemistry and Biotechnology* 33:429-435 doi.org/10.1007/s13562-024-00892-2 [**JIF: 1.6**]

Chauhan R, Banjare P, Parey SK, Anjum A, **Quraishi Afaq** (2024) Low-temperature storage in dark condition improved the *in vitro* regeneration of *Plumbago zeylanica* synthetic seeds: a medicinally valuable species. *In Vitro Cellular & Developmental Biology – Plant* 60:390-395 doi.org/10.1007/s11627-024-10416-1 [**JIF: 2.2**]

Agrawal Tripti, **Quraishi Afaq** (2024) *In vitro* seed germination for the seedling rescue of *Buchanania cochinchinensis* (Lour.) M.R. Almeida - a valuable tropical forest tree. *Vegetos*, doi: 10.1007/s42535-024-00864-w [**Scopus indexed**]

Agrawal Tripti, **Quraishi Afaq** (2023) Assessing the genetic diversity of *Buchanania lanzan* Spreng. (Chironji) using inter simple sequence repeat markers. *Genetic*

- Resources and Crop Evolution 71:2935-2947 doi.org/10.1007/s10722-023-01812-4 [JIF: 1.6]
- Anjum Afreen, **Quraishi Afaq** (2023) Enhanced epicurzerenone production via *in vitro* elicitation of microrhizomes of *Curcuma caesia* Roxb. *In vitro Cellular & Developmental Biology: Plant* 59:825-838 doi.org/10.1007/s11627-023-10390-0 [JIF: 2.2]
- Anjum Afreen, Singh Vikram, Adil Smriti, **Quraishi Afaq** (2022) *In vitro* propagation of *Curcuma caesia* Roxb. via bud culture technique and ISSR profiling of the plantlets for genetic homogeneity. *Research Journal of Biotechnology* 17(12):48-54 doi: <https://doi.org/10.25303/1712rjbt48054> [JIF: 0.2]
- Kumbhakar SK, Chauhan R, Singh V, Jadhav SK, **Quraishi Afaq** (2022) Screening of a new candidate tree legume- *Pithecellobium dulce* (Roxb.) Benth. for lead remediation. *Brazilian Journal of Botany* 45:929–942 <https://doi.org/10.1007/s40415-022-00830-3> [JIF: 1.6]
- Adil S, Singh V, Anjum A, **Quraishi Afaq** (2022) A mini-review on electrotherapeutic strategy for the plant viral elimination. *Plant Cell, Tissue and Organ Culture* 150:41-55 <https://doi.org/10.1007/s11240-022-02265-w> [JIF: 3.0]
- Kumbhakar SK, Chauhan R, Jadhav SK, **Quraishi Afaq** (2022) Lead induced-toxicity in vegetables, its mitigation strategies, and potential health risk assessment: a review. *International Journal of Environmental Science and Technology* 20:5773–5798 <https://doi.org/10.1007/s13762-022-04025-x> [JIF: 3.1]
- Singh Vikram, Adil Smriti, **Quraishi Afaq** (2021) Elimination of BBTv via a systemic *in vitro* electrotherapy approach. *Journal of Virological Methods* 300:114367 doi.org/10.1016/j.jviromet.2021.114367 [JIF: 2.623]
- Singh Vikram, Chauhan Ravishankar, Kaur Inderpal, **Quraishi Afaq** (2021) Assessment of culture medium without commercial ammonium nitrate for *in vitro* culture of industrially important plant species. *Plant Cell, Tissue and Organ Culture* 148:95–106 <https://doi.org/10.1007/s11240-021-02167-3> [JIF: 2.726]
- Chauhan R, Singh V, Keshavkant S, **Quraishi Afaq** (2021) Vitrification-based cryopreservation of *in vitro*-grown apical meristems of *Chlorophytum borivilianum* Sant et Fernand: a critically endangered species. *Proceedings of the National Academy of Sciences India Section B-Biological Sciences* 91(2):471-476 [SCI]
- Paul JS, Jadhav SK, **Quraishi Afaq**, Naik ML (2020) Ferret out a Natural Bio-Pesticide: *Ophicordyceps nutans* in Central India and its interaction analysis with Tree Stink Bug. *Proceedings of the Zoological Society* 73(3):316–319 <https://doi.org/10.1007/s12595-020-00328-4> [SCI]
- Singh Vikram, Chauhan R, **Quraishi Afaq** (2020) Sensitive and closed tube plant DNA virus detection via PCR. *Research Journal of Biotechnology* 15(6):111-116 [SCI]
- Ekka G, Jadhav SK, **Quraishi Afaq** (2020) Effect of exogenous additives on oxidative stress and defense system of a tree – *Zanthoxylum armatum* DC. under *in vitro* conditions. *Plant Cell, Tissue and Organ Culture* 140:671-676 [JIF: 2.711]
- Kaur Inderpal, Khandwekar S, Chauhan R, Singh V, Jadhav SK, Tiwari KL, **Quraishi Afaq** (2019) Exploring the efficiency of native tree species grown at mine

- tailings for phytoextraction of Iron and Lead. Proceedings of the National Academy of Sciences India Section B-Biological Sciences 89(3):951-956 [SCI]
- Agrawal T, Jadhav SK, **Quraishi Afaq** (2019) Bioethanol production from *Madhuca latifolia* L. flowers by a newly isolated strain of *Pichia kudriavzevii*. Energy & Environment 30(8):1477–1490 [JIF: 1.775]
- Agrawal T, Jadhav SK, **Quraishi Afaq** (2019) Bioethanol production from an agrowaste, deoiled rice bran by *Saccharomyces cerevisiae* MTCC 4780 via optimization of fermentation parameters. EnvironmentAsia 12(1):20-24 [SCI]
- Kaur Inderpal, Jadhav SK, Tiwari KL, **Quraishi Afaq** (2018) Lead tolerance and its accumulation by a tree legume: *Dalbergia sissoo* DC. Bulletin of Environmental Contamination and Toxicology 101:506-513 [JIF: 1.65]
- Chauhan R, Keshavkant S, **Quraishi Afaq** (2018) Enhanced production of diosgenin through elicitation in micro-tubers of *Chlorophytum borivilianum* Sant et Fernand. Industrial Crops & Products 113:234-239 [JIF: 4.191]
- Quraishi Afaq**, Mehar Snigdha, Sahu Durga, Jadhav SK (2017) *In vitro* mid-term conservation of *Acorus calamus* L. via cold storage of encapsulated microrrhizome. Brazilian Archives of Biology and Technology 60:e17160378; DOI 10.1590/1678-4324-2017160378 [JIF: 0.676]
- Chauhan R, **Quraishi Afaq**, Jadhav SK, Keshavkant S (2016) A comprehensive review on pharmacological properties and biotechnological aspects of Genus *Chlorophytum*. Acta Physiologiae Plantarum 38:116; DOI 10.1007/s11738-016-2132-8 [JIF: 1.364]
- Chauhan R, Keshavkant S, Jadhav SK, **Quraishi Afaq** (2016) *In Vitro* Slow-Growth Storage of *Chlorophytum borivilianum* Sant et Fernand: A Critically Endangered Herb. *In vitro* Cellular & Developmental Biology: Plant 52(3):315-321; DOI: 10.1007/s11627-016-9756-7 [JIF: 1.024]
- Sethia Kiran, Kaushik Alka, Jadhav SK, **Quraishi Afaq** (2015) Effect of operational parameters on cow dung mediated microbial fuel cell. World Journal of Engineering 12(6):541-550 [SCI]
- Chandrawanshi NK, Jadhav SK, Tiwari KL, **Quraishi Afaq** (2015) *In vitro* tuberization and colchicine content analysis of *Gloriosa superba* L. Biotechnology 14(3):142-147 DOI: 10.3923/biotech.2015.142.147 [Scopus indexed]
- Chauhan R, Jadhav SK, **Quraishi A** (2014) An efficient seed germination and seedling establishment protocol hybrid *Carica papaya* Linn. with application of plant growth regulator. Biotechnology 13(3):139-142 [Scopus indexed]
- Quraishi A**, Jadhav SK, Gupta S (2011) *In vitro* clonal propagation of *Cassia tora* L. (Coffee Pod): A medicinal plant. Biotechnology 10(6): 546-550 [Scopus indexed]
- Sharma P, Koche V, **Quraishi A**, Mishra SK (2005) Somatic embryogenesis in *Buchanania lanzan* Spreng. *In vitro* Cellular & Developmental Biol.: Plant 41: 645-647 [JIF: 1.06]
- Quraishi A**, Koche V, Sharma P, Mishra SK (2004) *In vitro* clonal propagation of neem (*Azadirachta indica*). Plant Cell, Tissue & Organ Culture 78(3): 281-284 [JIF: 1.2]
- Quraishi A**, Mishra SK (1998) Micropropagation of nodal segments from adult trees of *Cleistanthus collinus*. Plant Cell Reports 17(5): 430-433 [JIF: 2.2]

- Quraishi A**, Koche V, Mishra SK (1997) Micropropagation of *Lagerstroemia parviflora* through axillary bud culture. *Silvae Genetica* 46(4): 242-245 [**JIF: 0.6**]
- Quraishi A**, Koche V, Mishra SK (1996) *In vitro* micropropagation from nodal segments of *Cleistanthus collinus*. *Plant Cell Tissue & Organ Culture* 45: 87–91 [**JIF: 1.2**]
- Quraishi A**, Biswas J, Mishra SK (1996) Seed weight related germination capacity in *Cleistanthus collinus*. *Indian Journal of Forestry* 19(1): 79 – 82

Sequence submitted to the NCBI

A partial Gene sequence of the banana bunchy top virus isolate Raipur coat protein gene has been submitted and published in NCBI Genbank- accession number MK614017 (Central Chhattisgarh, Raipur, India).

Book edited

Jadhav SK, Sahu KK, **Quraishi A**, Shukla KK, Chandrawanshi NK (2014) *Biotechnology and traditional knowledge*. Biotech Books, New Delhi (ISBN: 978-81-7622-330-0)

Book Chapters

- Ekka G, Jadhav SK, **Quraishi Afaque** (2020) An overview of Genus *Zanthoxylum* with special reference to its herbal significance and application. In: M Akram, RS Ahmad (Eds) *Herbs and Spices*, IntechOpen, London, UK; <http://dx.doi.org/10.5772/intechopen.92459> (ISBN 978-1-83962-936-5)
- Chauhan R, Singh Vikram, **Quraishi Afaque** (2019) *In vitro* conservation through slow-growth storage. In: M Faisal, AA Alatar (Eds) *Synthetic Seeds*, Springer Nature Switzerland AG 2019, pp 397-416; https://doi.org/10.1007/978-3-030-24631-0_19 (ISBN 9783030246303)
- Quraishi A** (May, 2013) *In vitro* clonal propagation of forests trees: By bud culture technique. In: *Modern Biotechnology and its Applications: Part 1*. KK Behera (Ed.) New India Publishing Agency, New Delhi, pp 47-56 (ISBN: 9789381450833)

Served as a Resource Person

- Resource Person** in National Science Day celebration at Govt. Veer Surendra Say PG College, Gariyabandh (Chhattisgarh): “CRISPR Cas9” 28th Feb 2025
- Resource Person** of Refresher Course in Life Sciences MMTTC, Pt. Ravishankar Shukla University, Raipur: “CRISPR-Cas9: Revolutionizing Genome Editing”; 19th Nov 2024
- Judge** in the ‘31st State Level Children Science Congress’ organized by Chhattisgarh Council of Science & Technology, Raipur, 7 – 8 Dec 2023
- Judge** for Life Sciences stream in 37th Young Scientist Congress organized by Madhya Pradesh Council of Science & Technology, Bhopal and Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya (MP), 14 – 17 March 2022 (Online mode)
- Chairperson** of a Technical Session at the “International E-Conference on Recent Advances in Biological Sciences & Opportunities in Entrepreneurship” jointly organized by the School of Studies in Biotechnology & Alumni Association of

- Biotechnology, Pt. Ravishankar Shukla University, Raipur (India) in academic partnership with Pt. Deendayal Upadhyay Memorial Health Sciences & Ayush University of Chhattisgarh, Raipur (India), 7-8 Jan 2022
- Judge** in the '29th State Level Children Science Congress' organized by Chhattisgarh Council of Science & Technology, Raipur, 6 – 8 Dec 2021
- Judge** for Life Sciences stream in 36th Young Scientist Congress organized by Madhya Pradesh Council of Science & Technology, Bhopal and Vikram University, Ujjain (MP), 23-26 March 2021 (Online mode)
- Judge** for Life Sciences stream in 35th Young Scientist Congress organized by Madhya Pradesh Council of Science & Technology, Bhopal at Shri Govindram Seksari Institute of Technology and Science, Indore (MP), 28-29 Feb 2020
- Chairperson** for the Poster Presentation Session I in the 3rd International Congress of the Society for Ethno-pharmacology, India- "Ethno-pharmacology & Evaluation of Medicinal Plants – Global Perspectives". National Center for Natural Resources, Pt. Ravishankar Shukla University, Raipur, Feb 19-21, 2016

Invited Lectures

- "CRISPR-Cas9" (28.02.2025) National Science Day organized by Sant Guru Ghasidas Govt. PG College, Kurud (Chhattisgarh)
- "*In vitro* elimination of banana bunchy top virus from infected cultures" (18.01.2023) National Conference on 'Innovation and Emerging Novel Research in Plant Sciences' organized by the Dept of Botany, Govt. VYT PG College, Durg (Chhattisgarh)
- "Critical aspects for tissue culture of the woody plant species" (22.02.2019) International Training Program on Commercial Plant Tissue Culture at Raipur (India), organized by Biotech India Consortium Limited, New Delhi, under the aegis of Ministry of External Affairs, Govt. of India
- "Key Steps of Micropropagation" (20.11.2017) International Training Program on Commercial Plant Tissue Culture at Raipur (India), organized by Biotech India Consortium Limited, New Delhi, an organization created by an initiative of the Department of Biotechnology, Government of India
- "Prevention of Contamination and Elimination of Endophytes during tissue culture" (28.11.2017) International Training Program on Commercial Plant Tissue Culture at Raipur (India), organized by- Biotech India Consortium Limited, New Delhi, an organization created by an initiative of the Department of Biotechnology, Government of India
- "Plant Tissue Culture: Techniques & Applications" (27.02.2016) Workshop on 'Implication of plant tissue culture on plant biodiversity' Sai College, Sector 6, Bhilai (Chhattisgarh)

Reviewer of the Journals:

- Scientific Reports [JIF: 3.8]
- Silicon [JIF: 2.8]
- Bulletin of Environmental Contamination and Toxicology [JIF: 2.7]
- Industrial Crops and Products [JIF: 5.6]
- European Journal of Plant Pathology [JIF: 1.7]

- International Journal of Environmental Science and Technology [3.0]
- Journal of Plant Diseases and Protection [JIF: 2.1]

Paper presented in Seminars / Conferences:

Quraishi Afaque (2019) Rapid, sensitive and closed-tube detection of plant DNA virus through PCR. Second International Conference on Fostering Interdisciplinary Research in Health Sciences (ICFIRHS) at AIMST University, Bedong, Malaysia, 14-15 Sept 2019

Quraishi Afaque (2019) A rapid assay to diagnose banana bunchy top virus in various symptomatic and asymptomatic banana plants. International Conference on 'Fostering Interdisciplinary Research in Medicines' at University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur CG, 19-21 Jan 2019

Quraishi Afaque, Keshavkant S & Chauhan R (2018) Impact of elicitors on production of diosgenin in micro-tubers of Safed Musli. National Conference on 'Plant and Microbial Products: Progress, Potential & IPR issues' at Dept of Botany, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG), 7-9 Feb 2018, pp 34

Chauhan R, **Quraishi Afaque, Jadhav SK & Keshavkant S** (2016) *In vitro* conservation of *Chlorophytum borivilianum* Sant et Fernand, via vitrification based cryopreservation. 3rd International Congress of the Society for Ethno-pharmacology, India- "Ethno-pharmacology & Evaluation of Medicinal Plants – Global Perspectives. National Center for Natural Resources, Pt. Ravishankar Shukla University, Raipur, Feb 19-21, 2016, pp 73

Naik ML, Jadhav SK, Lader S, Bhushan S, Sharma DK, Nishad CK & **Quraishi A** (2016) A phyto-sociological analysis of forests of Raigarh (CG) district. National Seminar on 'Innovations & Prospects in Biotechnology' School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur CG, 2 – 4 Jan 2016, pp 36

Mehar S, Jadhav SK & **Quraishi A** (2012) *In vitro* conservation of *Acorus calamus* L. National Seminar on 'Changing Environment and its Impact on Biodiversity.' Dept of Botany, Govt. DB Girls PG Autonomous College, Raipur CG, 11 - 12 Oct 2012, pp 49

Quraishi A (1994) *In vitro* micropropagation from nodal segments of *Cleistanthus collinus* Benth. Ninth M.P. Young Scientist Congress by Madhya Pradesh Council of Science and Technology at Dr. HS Gour Vishwavidyalaya,, Sagar (MP), 28th Feb to 2nd March 1994, pp 22-23.

Quraishi A, Koche V, Mishra SK (1997) Studies on *in vitro* propagation of *Lagerstroemia parviflora*. IUFRO Symposium on Innovations in Forest Tree Seed Science & Nursery Technology at School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, 22nd to 25th Nov 1997, pp 104.

Program organized:

Organizing Secretary of 'Science Promotion Activity'. A two-day program organized by Pt. Ravishankar Shukla University, Raipur CG and funded by Chhattisgarh Council of Science & Technology, Raipur (India). A science quiz on 'Sustainable Development' and a popular science talk on 23rd Sept & 6th Oct 2023, respectively.

Organizing Secretary of ‘Science Promotion Activity’. A one-day program organized by Pt. Ravishankar Shukla University, Raipur CG and catalyzed by Chhattisgarh Council of Science & Technology, Raipur. A science quiz on ‘Green Energy’ and a popular science talk. 15th Feb 2020.

International Training program- Organized a four-day training program on ‘banana virus indexing’ and ‘genetic fidelity testing in tissue-cultured banana plants’, for 13 African candidates from July 23 to 26, 2018, funded by Biotech Consortium India Ltd. (BCIL), New Delhi. BCIL is an organization created by the Dept. of Biotechnology, New Delhi, GoI.

Membership in the editorial board

Member of the editorial board- NewBioWorld, a journal of the Alumni Association of School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (Chhattisgarh)

Ph.D. Supervised:

S N	Name of the Scholar	Status/ Award Year	Title
1	Vikram Singh	12.3.2021	Development and standardization of <i>in vitro</i> propagation protocol for virus free Banana (<i>Musa</i> sp. AAA) cv 'Grand Naine'
2	Ms Smriti Adil	30.1.2023	Exploration of electrotherapy to eliminate banana bunchy top virus from <i>Musa</i> spp. (AAA) cultivar ‘Grand Nain’
3	Ms Afreen Anjum	18.3.2024	<i>In vitro</i> propagation, elicitation of active component and conservation of Kali haldi (<i>Curcuma caesia</i> Roxb.)
4	Ms Tripti Agrawal	April 2025	Genetic diversity analysis, <i>in vitro</i> seed germination and propagation strategies for <i>Buchanania lanzan</i> Spreng.
5	Ms Ankita Rathi	Registered	Exploration of nano seed priming for alleviating salinity stress in rice variety ‘Swarna’; as a model test plant
6	Ms Chetana Dhruw	Registered	Production of virus-free <i>in vitro</i> cultures using explants from banana bunchy top virus-infected banana cv. Grand Naine

Supervised M.Sc./M. Phil. Biotechnology Dissertation:

S N	M. Phil. Students	Year	Title of the Dissertations
1	Ms Shabina	2015	Effect of different pre-treatment methods on biohydrogen production from de-oiled rice bran using <i>Clostridium acetobutylicum</i> NCIM 2877
2	Ms Anjali Kosre	2015	<i>In vitro</i> plant regeneration through meristematic zone of pseudo stem of <i>Costus pictus</i> D. Don
3	Ms Rakhi Thakur	2014	Heavy metal ‘Lead’ tolerance and phytoextraction by <i>in vitro</i> grown seedlings of <i>Leucaena leucocephala</i> (Lam.) de Wit
4	Ankush Kerketta	2014	Lead tolerance and phytoextraction by <i>in vitro</i> grown seedlings of <i>Dalbergia sissoo</i> Roxb.
5	Ms Sneha Harishchandra	2014	Lead uptake and effects on <i>in vitro</i> grown seedlings of leguminous tree <i>Peltophorum pterocarpum</i> (DC.) Backer ex Heyne
6	Ravishankar Chauhan	2013	<i>In vitro</i> germination of papaya seeds to develop healthy and disease-free planting material.

7	Ms Poonam Kumari	2013	<i>In vitro</i> production of secondary metabolites from <i>Cleistanthus collinus</i> (Roxb.) Hook. f.
8	Ms Nikita Admane	2013	Banana bunchy top virus indexing of cultivated and tissue cultured banana plants of Chhattisgarh region.
9	Ms Shraddha Churendra	2013	<i>In vitro</i> production of Azadirachtin from Neem tree leaf culture.
10	Satyajit Kanungo	2012	<i>In vitro</i> Propagation of <i>Plumbago zeylanica</i> L.; A valuable medicinal plant
11	Ms Smriti Adil	2012	Uptake and accumulation of iron and analysis of accumulated metal concentration in Indian Mustard (<i>Brassica juncea</i>)
12	Ms Snigdha Mehar	2012	<i>In vitro</i> mid-term conservation of <i>Acorus calamus</i> L. (Bach)
13	Ms Sheetal Gupta	2011	Micropropagation and characterization of secondary metabolites of <i>Cassia tora</i> L. (Charota)
14	Ms Durga Sahu	2011	<i>In vitro</i> microrhizome induction, encapsulation and cold storage for germplasm conservation of <i>Acorus calamus</i> L. (Bach)
15	Ms Tripti Motgare	2011	Micropropagation in <i>Vigna radiata</i> (L.) Wilczek
M.Sc. Students:			
	Durgesh	2025	Mitigation of salinity stress in rice using potassium citrate and magnesium citrate
	Aashi Kashyap	2024	<i>In vitro</i> investigation of Lead stress mitigation via Calcium and Salicylic acid treatment in wheat variety LOK-1
	Sonam Patel	2023	Enhanced antioxidant activity in <i>Curcuma caesia</i> Roxb. Microrhizomes treated with silver nanoparticles
	Kiran	2023	Enhancing rice seedlings recovery from salinity stress through ascorbic acid amendment: an <i>in vitro</i> investigation
	Moksha Maloo	2023	An <i>in vitro</i> inspection of using ascorbic acid treatment for alleviating salinity stress in rice
	Nandani Netam	2023	Effect of citric acid priming on morphological and biochemical parameters of <i>Curcuma caesia</i> Roxb. microrhizomes
	Yamini Sinha	2023	Effect of citric acid priming on the morphological parameters of <i>Vigna unguiculata</i> seeds
	Sonal Singh Shrivastava	2022	Effect of salicylic acid on the morphology and physiology of cold-stressed banana plantlets
	Vedika Jain	2022	Abscisic acid-mediated changes in the morphological and physiological attributes of the chilling-stressed banana plantlets
	T Abhilasha	2020	Screening of phytoconstituents, antioxidant and antibacterial potentials of <i>Hardwickia binata</i> crude extract
	Riya Chandrakar	2019	Effect of Lead stress on morphological and biochemical parameters of <i>Cicer arietinum</i> L.
	Nikita Patil	2019	Study the changes in morphological and biochemical parameters under the <i>in vitro</i> influence of Pb stress in <i>Glycine max</i> L.
	Gitanjali Sahu	2019	Morphological and biochemical response of Chickpea (<i>Cicer arietinum</i> L.) to water stress
	Manisha Verma	2019	Salinity induced morphological and physiological changes in <i>Cicer arietinum</i> L.
	Monika Yadav	2018	Effect of plant growth regulators in <i>in vitro</i> culture of banana (<i>Musa spp.</i>) cv. 'Grand Naine'
	Surabhi Sen	2018	A PCR-based method for the detection of Banana Bunchy Top Virus (BBTV) in banana (<i>Musa spp.</i>) cv. 'Grand Naine'
	Sayali Khandwekar	2017	Dendroremediation of Lead (Pb) and Iron (Fe) from a Tailing discharge canal.
	Hemlata Markandey	2016	<i>In vitro</i> propagation and callus induction in two dicotyledonous species: <i>Argyrea nervosa</i> Burm. F. and <i>Cleistanthus collinus</i> Roxb.