

CURRICULUM VITAE

Biographical Details

Name: RAVISHANKAR CHAUHAN

Date of Birth: March 18, 1988

Marital Status: Unmarried

Parents Name: Shri Laxman Chauhan
Smt Kanti Devi Chauhan

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Specialization: Plant Biotechnology

Qualification	Board/ University	School/ College	Session
PhD Biotechnology	Pt. Ravishankar Shukla University, Raipur	School of Studies in Biotechnology	Awarded 12-02-2018
MPhil Biotechnology	Pt. Ravishankar Shukla University, Raipur	School of Studies in Biotechnology	2012-13
MSc Biotechnology	Pt. Ravishankar Shukla University, Raipur	School of Studies in Biotechnology	2010-12
BSc Microbiology	Guru Ghasidas University, Bilaspur	Govt. Engineer Vishwesarraiya PG College, Korba	2007-10
AISSCE (12th)	CBSE, New Delhi	Jawahar Navodaya Vidyalaya Malhar, Bilaspur	2005-06
AISSE (10th)	CBSE, New Delhi	Jawahar Navodaya Vidyalaya Malhar, Bilaspur	2003-04

Thesis/ Dissertation Titles

- PhD** Clonal Propagation and Long-term Conservation of *Chlorophytum borivilianum* Sant et Fernand
(Supervisor: Dr Keshav Kant Sahu)
- MPhil** *In Vitro* Germination of Papaya Seeds to Develop Healthy and Disease Free Planting Material
(Supervisor: Dr Afaque Quraishi)
- MSc** *In Vitro* Propagation of *Plumbago zeylanica* Linn. - A Valuable Medicinal Plant
(Supervisor: Dr Afaque Quraishi)
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Positions Held

Post-Doctoral Fellow

National Center for Natural Resources
Pt. Ravishankar Shukla University, Raipur 492 010
(From Aug 04, 2018 to Still Continue)

Guest Lecturer

Center for Basic Sciences
Pt. Ravishankar Shukla University, Raipur 492 010
(From Feb 07, 2018 to April 30, 2018)

Member of Professional Body

Executive Member

Alumni Association of Biotechnology, Raipur
School of Studies in Biotechnology, PRSU, Raipur
(Association's Registration No. 29709)

Academic Recognitions/ Awards

1. **Secured 2nd Rank in the University Merit List** (2012), Pt. Ravishankar Shukla University, Raipur
2. **Chhattisgarh State Eligibility Test** (SET-2013: Life Sciences) CGVYAPAM, Raipur
3. **University Research Scholarship** (2013-14) Pt. Ravishankar Shukla University, Raipur
4. **Junior Research Fellowship** (UGC-RGNF-JRF 2013-15) UGC, New Delhi
5. **Senior Research Fellowship** (UGC-RGNF-SRF 2015-17) UGC, New Delhi

6. **Best Paper Presentation Award:** SFEC-2016, An International Congress, jointly organized by National Center for Natural Resources, PRSU, Raipur & Society For Ethnopharmacology, India (Feb 19-21, 2016)
7. **Resource Person:** In Learning and Activity based Workshop on Laboratory Safety Measures at Govt. Digvijay PG Autonomous College, Rajnandgaon (Jan 28-29, 2019)

Research Publications

1. **Ravishankar Chauhan**, SK Jadhav, Afaque Quraishi (2014) An efficient seed germination and seedling establishment protocol for hybrid *Carica papaya* Linn. with application of plant growth regulator. *Biotechnology* 13:139-142. **[SCOPUS Indexed]**
2. **Ravishankar Chauhan**, Afaque Quraishi, SK Jadhav, S Keshavkant (2016) A comprehensive review on pharmacological properties and biotechnological aspects of Genus *Chlorophytum*. *Acta Physiologiae Plantarum* 38:116 **[IF: 2.354]**
3. **Ravishankar Chauhan**, S Keshavkant, SK Jadhav, Afaque Quraishi (2016) *In vitro* slow-growth storage of *Chlorophytum borivilianum* Sant. et Fernand: a critically endangered herb. *In Vitro Cellular & Developmental Biology-Plant* 52:315-321 **[IF: 2.252]**
4. **Ravishankar Chauhan**, S Keshavkant, Afaque Quraishi (2018) Enhanced production of diosgenin through elicitation in micro-tubers of *Chlorophytum borivilianum* Sant et Fernand. *Industrial Crops and Products* 113:234-239 **[IF: 5.645]**
5. Inderpal Kaur, Sayali Khandwekar, **Ravishankar Chauhan**, Vikram Singh, SK Jadhav, KL Tiwari, Afaque Quraishi (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* 89:951-956 **[SCOPUS Indexed]**
6. Vikram Singh, **Ravishankar Chauhan**, Afaque Quraishi (2020) Sensitive and closed tube plant DNA virus detection via PCR. *Research Journal of Biotechnology* 15:111-116 **[SCOPUS Indexed]**
7. Tarun Kumar Patle, Kamlesh Shrivastava, Ramsingh Kurrey, Seema Upadhyay, Rajendra Jangde, **Ravishankar Chauhan** (2020) Phytochemical screening and determination of phenolics and flavonoids in *Dillenia pentagyna* using UV-Vis and FTIR spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 242:118717 **[IF: 4.098]**
8. **Ravishankar Chauhan**, Vikram Singh, S Keshavkant, Afaque Quraishi (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* 91:471-476 **[SCOPUS Indexed]**
9. Shriram Kunjam, Shweta Singh Chauhan, **Ravishankar Chauhan**, Pramod Kumar Mahish, Shailesh Kumar Jadhav (2021) Addition of *Butea monosperma* var. *Lutea* (Fabaceae) in

the flora of district Rajnandgaon, Chhattisgarh, India. International Journal of Botany Studies 6:394-397 [Web of Science Indexed]

10. Vikram Singh, **Ravishankar Chauhan**, Inderpal Kaur, Afaque Quraishi (2021) Assessment of culture medium without commercial ammonium nitrate for *in vitro* culture of industrially important plant species. Plant Cell Tissue and Organ Culture <https://doi.org/10.1007/s11240-021-02167-3> [IF: 2.711]

Book Chapters

1. **Ravishankar Chauhan**, SK Jadhav, Afaque Quraishi (2014) *In Vitro* Propagation of *Plumbago zeylanica*: An Endangered Medicinal Plant of Chhattisgarh. In: Jadhav SK (Ed) Biotechnology and Traditional Knowledge; pp 63-68 Biotech Books, New Delhi [ISBN 978-81-7622-330-0]
2. **Ravishankar Chauhan**, Vikram Singh, Afaque Quraishi (2019) *In Vitro* Conservation through Slow-Growth Storage. In: Mohammad Faisal, Abdulrahman A Alatar (Eds) Synthetic Seeds: Germplasm Regeneration, Preservation and Prospects; pp 397-416 Springer Nature, Switzerland AG [ISBN 978-3-030-24631-0]

Abstract Published/ Paper Presented in Conferences*

1. **Ravishankar Chauhan***, SK Jadhav, Afaque Quraishi (2013) *In Vitro* Shoot Multiplication of *Plumbago zeylanica*: An Endangered Medicinal Plant of Chhattisgarh. National Conference on Traditional Knowledge & Biotechnology; Organized by School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (Nov 22-24, 2013)
2. **Ravishankar Chauhan***, SK Jadhav, Afaque Quraishi (2015) *In Vitro* Germination of Hybrid Papaya Seeds. National Seminar on Biodiversity of Medicinal and Aromatic Plants with respect to its Collection, Conservation & Characterization; Organized by GD Rungta College of Science & Technology, Bhilai (Jan 28-29, 2015)
3. **Ravishankar Chauhan***, Afaque Quraishi, SK Jadhav, S Keshavkant (2016) Modifications in Murashige and Skoog Medium to Overcome the Scarcity of Ammonium Nitrate in R&D Laboratories and Industries of Plant Tissue Culture. National Seminar on Innovations & Prospects in Biotechnology; Organized by School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (Jan 02-04, 2016)
4. **Ravishankar Chauhan***, S Keshavkant, SK Jadhav, Afaque Quraishi, (2016) *In Vitro* Tuberization and Slow Growth Conservation of *Chlorophytum borivillianum* Sant et Fernand. 3rd International Congress Society for Ethno-pharmacology & Evaluation of Medicinal Plants - Global Perspectives; Organized by National Center for Natural Resources, Pt. Ravishankar Shukla University, Raipur & Society for Ethnopharmacology, India (Feb 19-21, 2016) pp 73

5. **Ravishankar Chauhan**, Afaque Quraishi, SK Jadhav, S Keshavkant (2016) *In Vitro* Conservation of *Chlorophytum borivilianum* Sant et Fernand via Vitrification based Cryopreservation. 3rd International Congress Society for Ethno-pharmacology & Evaluation of Medicinal Plants - Global Perspectives; Organized by National Center for Natural Resources, Pt. Ravishankar Shukla University, Raipur & Society for Ethnopharmacology, India (Feb 19-21, 2016) pp 73
6. **Ravishankar Chauhan*** (2016) *In Vitro* Conservation Approaches for *Chlorophytum borivilianum* Sant et Fernand. 14th Chhattisgarh Young Scientist Congress; Organized by Bilaspur Vishwavidyalaya, Bilaspur (Feb 28-29, 2016)
7. Afaque Quraishi, S Keshavkant, **Ravishankar Chauhan** (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; Organized by Department of Botany, Guru Ghasidas Vishwavidyalaya, Bilaspur (Feb 7-9, 2018) pp 34
8. **Ravishankar Chauhan***, Vikram Singh, S Keshavkant, Afaque Quraishi, (2019) Cryopreservation of *Chlorophytum borivilianum* Sant et Fernand Meristematic Tips. International Conference on Fostering Interdisciplinary Research in Medicines; Organized by University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur (Jan 19-21, 2019)
9. **Ravishankar Chauhan***, S Keshavkant, Afaque Quraishi, (2019) *In Vitro* Production of Steroidal Sapogenin in Safed Musli. National Conference on Wild Life: Its Nature, Declined and Conservation in India; Organized by Govt. Digvijay PG Autonomous College, Rajnandgaon (Jan 30-31, 2019)
10. **Ravishankar Chauhan***, Vikram Singh, S Keshavkant, Afaque Quraishi, (2020) Influence of Preculture and Cryoprotectants on Recovery of Cryopreserved *In Vitro*-Grown Apical Meristems of *Chlorophytum borivilianum*. National Conference on Recent Advances & Trends in Biotechnology; Organized by School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (Jan 10-12, 2020) pp 150

Participation in Workshop/ Training

1. Hands on Workshop on Cell Manipulation & Confocal Microscopy; at Department of Biochemistry, Pt. Jawaharlal Nehru Memorial Medical College, Raipur (Jul 26-30, 2011)
2. Prospection and Sustainable Use of Medicinal Plants of Chhattisgarh; Organized under the auspices of National Center for Natural Resources, PRSU, Raipur (Sep 10-11, 2012)
3. Hands on Workshop on Molecular Biology (HiPer[®] Teaching Kits); Organized by HiMedia Laboratories Pvt. Ltd., Mumbai (Oct 13-14, 2014)
4. Seventh Science Conclave & Inspire Internship Program-2014; organized at the Indian Institute of Information Technology, Allahabad (Dec 08-12, 2014)

5. h-index, i10-index and Scopus; organized by IQAC, PRSU, Raipur (Jan 17, 2015)
6. Hands on Workshop on Molecular Biology (HiPer® Teaching Kits); Organized by HiMedia Laboratories Pvt. Ltd., Mumbai (Oct 30-31, 2015)
7. Opportunities and Entrepreneurship in Biotechnology; jointly organized by School of Studies in Biotechnology and Chhattisgarh Biotechnology Promotion Society, Govt. of Chhattisgarh, Raipur (Mar 31, 2017)
8. Hands on Workshop on Nanoparticles, HP-TLC and RT-PCR; in International Conference on Fostering Interdisciplinary Research in Medicines organized by University Institute of Pharmacy, PRSU, Raipur (Jan 19-21, 2019)

Last updated September, 2021