

# CURRICULUM VITAE

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## Biographical Details

**Name:** RAVISHANKAR CHAUHAN

**Date of Birth:** March 18, 1988

**Marital Status:** Unmarried

**Parents Name:** Shri Laxman Chauhan  
Smt Kanti Devi Chauhan

**Corresponding Address:** National Center for Natural Resources  
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Balgi 495 455, Korba, CG

**Specialization:** Plant Biotechnology

## Education

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 (12 <sup>th</sup> )	CBSE, New Delhi	Jawahar Navodaya Vidyalaya Malhar, Bilaspur	2005-06
AISSE (10 <sup>th</sup> )	CBSE, New Delhi	Jawahar Navodaya Vidyalaya Malhar, Bilaspur	2003-04

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## 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 492 010  
(Association's Registration No. 29709)

## Academic Recognitions/ Awards

1. **Secured 2<sup>nd</sup> Rank in the University Merit List** (MSc-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. **Qualified Assistant Professor (Botany)**, Higher Education Department, Govt. of Chhattisgarh Examination (2019) through **Chhattisgarh Public Service Commission, Raipur**
8. **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]
11. Beeta Rani Khalkho, Manas Kanti Deb, Ramsingh Kurrey, Bhuneshwari Sahu, Anushree Saha, Tarun Kumar Patle, **Ravishankar Chauhan**, Kamlesh Shrivastava (2022) Citrate functionalized gold nanoparticles assisted micro extraction of L-cysteine in milk and water samples using Fourier Transform Infrared Spectroscopy. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 267:120523 [IF: 4.098]

## 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 borivilianum* Sant et Fernand. 3<sup>rd</sup> 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), Journal of Ravishankar University (Part-B: Science), 29(1), 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. 3<sup>rd</sup> 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. 14<sup>th</sup> 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)

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