

## CURRICULUM VITAE

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### Biographical Details

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| <b>Name:</b>                  | <b>RAVISHANKAR CHAUHAN</b>                                                                                                                                                        |
| <b>Date of Birth:</b>         | March 18, 1988                                                                                                                                                                    |
| <b>Marital Status:</b>        | Married                                                                                                                                                                           |
| <b>Parents Name:</b>          | Shri Laxman Chauhan<br>Smt Kanti Devi Chauhan                                                                                                                                     |
| <b>Corresponding Address:</b> | National Center for Natural Resources<br>Pt. Ravishankar Shukla University<br>Raipur 492 010, CG<br>Mobile Number <b>+91 - 9827991075</b><br>E-mail ID: <b>ravi18bt@gmail.com</b> |
| <b>Permanent Address:</b>     | D/S 462, Balgi Project<br>Balgi 495 455, Korba, CG                                                                                                                                |
| <b>Specialization:</b>        | Plant Biotechnology                                                                                                                                                               |

### Education

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

## Thesis/ Dissertation Titles

|              |                                                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>PhD</b>   | Clonal Propagation and Long-term Conservation of <i>Chlorophytum borivillianum</i> Sant et Fernand<br>(Supervisor: Dr Keshav Kant Sahu) |
| <b>MPhil</b> | <i>In Vitro</i> Germination of Papaya Seeds to Develop Healthy and Disease Free Planting Material<br>(Supervisor: Dr Afaqur Quraishi)   |
| <b>MSc</b>   | <i>In Vitro</i> Propagation of <i>Plumbago zeylanica</i> Linn. - A Valuable Medicinal Plant<br>(Supervisor: Dr Afaqur 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

### Life Member

Microbiologists Society, India  
(Association's Registration No. MAHA/4814/SAT)

### 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. **Resource Person:** In “Learning and Activity based Workshop on Laboratory Safety Measures” at Govt. Digvijay PG Autonomous College, Rajnandgaon (Jan 28-29, 2019)
8. **Qualified “Assistant Professor - Botany”** Higher Education Department, Govt. of Chhattisgarh Examination (2019) through **Chhattisgarh Public Service Commission, Raipur**

## Program Organized

1. International e-Conference on Recent Advances in Biological Sciences & Opportunities in Entrepreneurship, Jan 7-8, 2022 (**As Joint Organizing Secretary**)

## Research Publications

1. **Ravishankar Chauhan**, SK Jadhav, Afaq 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**, Afaq 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, Afaq Quraishi (2016) *In vitro* slow-growth storage of *Chlorophytum borivillianum* Sant. et Fernand: a critically endangered herb. *In Vitro Cellular & Developmental Biology-Plant* 52:315-321 [**IF: 2.252**]
4. **Ravishankar Chauhan**, S Keshavkant, Afaq Quraishi (2018) Enhanced production of diosgenin through elicitation in micro-tubers of *Chlorophytum borivillianum* 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, Afaq 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 [**SCI Indexed**]
6. Vikram Singh, **Ravishankar Chauhan**, Afaq 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, Afaq Quraishi (2021) Vitrification-based cryopreservation of *in vitro*-grown apical meristems of *Chlorophytum borivillianum* Sant et Fernand: a critically endangered species. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences 91:471-476 [SCI 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, Afaq Quraishi (2022) Assessment of culture medium without commercial ammonium nitrate for *in vitro* culture of industrially important plant species. Plant Cell Tissue and Organ 148:95-106 [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]
12. Satyam Kumar Kumbhakar, **Ravishankar Chauhan**, SK Jadhav, Afaq Quraishi (2022) Lead induced-toxicity in vegetables, its mitigation strategies, and potential health risk assessment: a review. International Journal of Environmental Science and Technology DOI: <https://doi.org/10.1007/s13762-022-04025-x> [IF: 2.860]
13. Priyanka Chouhan, Deepali, Anjali Kosre, **Ravishankar Chauhan**, SK Jadhav, Nagendra Kumar Chandrawanshi (2022) Production and Assessment of Stick-Shaped Spawns of Oyster Mushroom from Banana Leaf-Midribs. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences. [Accepted; SCI Indexed]

## Book Chapters

1. **Ravishankar Chauhan**, SK Jadhav, Afaq 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, Afaq 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, Cham, Switzerland AG [ISBN 978-3-030-24631-0]
3. Pramod Kumar Mahish, Shweta Singh Chauhan, **Ravishankar Chauhan** (2022) Bioactive Secondary Metabolites from Endophytic *Phoma* Spp. In: Mahendra Rai, Beata Zimowska,

György János Kövics (Eds) Phoma: Diversity, Taxonomy, Bioactivities, and Nanotechnology; pp 205-219 Springer Nature, Cham, Switzerland AG [ISBN 978-3-030-81218-8]

### Abstract Published/ Paper Presented\* in Conferences

1. **Ravishankar Chauhan\***, SK Jadhav, Afaqur 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, Afaqur 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\***, Afaqur 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, Afaqur Quraishi, (2016) *In Vitro* Tuberculation 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**, Afaqur 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. Afaqur 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, Afaq Quraishi, (2019) Cryopreservation of *Chlorophytum borivillianum* 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, Afaq 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, Afaq Quraishi, (2020) Influence of Preculture and Cryoprotectants on Recovery of Cryopreserved *In Vitro*-Grown Apical Meristems of *Chlorophytum borivillianum*. 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
11. Vikram Singh, **Ravishankar Chauhan**, Inderpal Kaur, Afaq Quraishi, (2022) Development and Assessment of a Modified Ammonium Nitrate Deficient MS Medium for Propagating Commercially Important Plants. International e-Conference on Recent Advances in Biological Sciences & Opportunities in Entrepreneurship; Organized by School of Studies in Biotechnology & Alumni Association of Biotechnology, Pt. Ravishankar Shukla University, Raipur (Jan 7-8, 2022) pp 139

### 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 February, 2022