

## Curriculum Vitae

**Dr. Nagendra Kumar Chandrawanshi**

Associate Professor

M.Phil., Ph.D.

School of Studies in Biotechnology

Pt. Ravishankar Shukla University,

Raipur (CG) 492 010, India

Phone: 0771-2263022 (O), 062635 37426 (M)

Email: [nagendra@prsu.ac.in](mailto:nagendra@prsu.ac.in);

[chandrawanshi11@gmail.com](mailto:chandrawanshi11@gmail.com)



Web:

Institutional Profile: <https://prsu.ac.in/site/facultydetails?id=155>

Vidwan Profile: <https://vidwan.inflibnet.ac.in/profile/328400>

Scopus profile : <https://www.scopus.com/authid/detail.uri?authorId=57214988532>

ORIC ID : <https://orcid.org/0000-0002-9093-5365>

Research GATE: <https://www.researchgate.net/profile/Nagendra-Phd>

Google Scholar: <https://scholar.google.co.in/citations?user=ICJ35fgAAAAJ&hl=en>

### Academic Records:

- 1) **Ph.D.**, Pt. Ravishankar Shukla University, 2014, Biotechnology, (Sub area: Plant Biotechnology)

Title of the Thesis: **Micropropagation of an Endangered Medicinal Plant Glory Lily (*Gloriosa superba* L.)**

Ph.D. Supervisor : Prof. S. K. Jadhav (Supervisor ), Prof. K. L. Tiwari (Co-Supervisor)  
School of Studies in Biotechnology; Pt. Ravishankar Shukla University,  
Raipur

- 2) **M. Phil. Biotechnology**, Pt. Ravishankar Shukla University, 2009, Biotechnology, (**76.67%** in merit).

Title of the Dissertation: **Studies of the Minimum Inhibitory Concentration (MIC) of *Penicillium* species**

Supervisor : Prof. K. L. Tiwari (Supervisor ), Prof. S. K. Jadhav (Co-Supervisor )  
School of Studies in Biotechnology; Pt. Ravishankar Shukla University,  
Raipur

- 3) **M.Sc. Biotechnology**, Pt. Ravishankar Shukla University, 2008, Biotechnology, (with **67.71 %**).

Title of the Dissertation: **Production and effect of antibiotic by certain species of *Penicillium* fungi**

Supervisor : Prof. S. K. Jadhav (Supervisor ), Prof. K. L. Tiwari (Co-Supervisor )  
School of Studies in Biotechnology; Pt. Ravishankar Shukla University,  
Raipur

- 4) **B.Sc.**, Pt. Ravishankar Shukla University, 2005, Biology, (**70.00 %**).

### Academic Qualifications:

1. CGSET (Life Science) 2013
2. GATE (Biotechnology) 2012
3. UGC-NET- J.R.F. (June) 2009

### Other Qualification:

NCC (Army Wing, B and C) Certificate with a “B” grade (2003-05)

### **Positions Held:**

1. **Associate Professor**, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, November 8<sup>th</sup> 2024 - till date.
2. Assistant Professor, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, November 8<sup>th</sup> 2012 – November 07<sup>th</sup> 2024.
3. Senior Research Fellow, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (CG), May 1<sup>st</sup> 2012 –November 7<sup>th</sup> 2012.
4. Contractual Lecturer, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (CG), 29<sup>th</sup> July 2010– April 2011.
5. Junior Research Fellow, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (CG), May 1<sup>st</sup> 2010- April 30<sup>th</sup> 2012.
6. Contractual Lecturer, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (CG), November 3<sup>rd</sup> 2009 – April 30 2010.
7. Research Scholar, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (CG), July 2009 – October 2009.

### **Honours/Award:**

1. Honored by the Office of the Collector and District Election Officer, Raipur (CG), for excellent work in the Parliamentary Election 2024 and awarded a certificate dated July 8, 2024.
2. Best Oral Presentation award in 2<sup>nd</sup> International Conference on Fostering Interdisciplinary Research in Health Sciences 2019 (ICFIRHS 2019), Bedong, Kedah Darul Aman, Malaysia (Sept. 14-15, 2019).
3. National Travel Grant received from UGC Unassigned Travel Grant, for oral paper presentation at XXI National Conference on Aerobiology-2019, Dept. of Botany, Visva-Bharati, Santiniketan (WB), India, (Ref: 2417/Grant Cell /2019, dated 04/11/2019).
4. Best Presentation Award in International Conference on Fostering Interdisciplinary Research in Medicines University Institute of Pharmacy, Pt. RSU Raipur (CG) (Jan.19-21, 2019).
5. International Travel Grant received from UGC Unassigned Travel Grant for oral paper presentation at “7<sup>th</sup> International Science Congress (ISC-2017)”, Chukka, Bhutan. (Ref: 2767/Grant Cell/Order/2018, dated 12/02/2018).
6. UGC SRF (Senior Research Fellowship, May 01, 2012 to November 7, 2012) was awarded by the University Grant Commission (UGC.) New Delhi.
7. UGC JRF (Junior Research Fellowship, May 1, 2010, to April 30, 2012) awarded by the University Grant Commission (UGC.) New Delhi.

8. Rajiv Gandhi National Fellowship (Doctoral fellowship) 2010-2011 awarded by University Grant Commission (UGC.) New Delhi.
9. NCC (National Cadet Corps) Merit Sahara India Scholarship for 2004-05 awarded by Sahara India Pariwar.
10. Gopilal Lohiya Gold Medal for merit in B.Sc.-III Biology (2005-06) awarded by Govt. Digvijay Postgraduate College, Rajnandgaon (CG).
11. Girajashankar Sharma Gold Medal for Merit in B.Sc.-I Biology (2003-04) awarded by Govt. Digvijay Postgraduate College, Rajnandgaon (CG).

### **Teaching Experience:**

UG teaching: 2 years (2010-12).

PG teaching: more than 15 years (2010 - till date)

#### ***Dealt/ Dealing with;***

Cell Biology	M. Sc. Biotechnology (2011 - 2012)
Genetics	M.Sc. Biotechnology (2014 - till date)
Bio-molecules	M. Sc. Biotechnology (2015)
Molecular Biology	M.Sc. Biotechnology (2010 - till date)
Biology of Immune System	M. Sc. Biotechnology (2011- till date)
Animal Biotechnology	M. Sc. Biotechnology (2013 - till date)

**Research experience:** Achieved more than 14 years of research experience from M.Sc. (2008) to till date.

### **Member in Academic Bodies:**

1. Member, Board of Studies in Biotechnology, Pt. RSU, Raipur, CG (2014-till date)
2. Member, Board of Central Studies in Biotechnology, Higher Education Department, CG (2017-till date)
3. Member, Board of Studies in Biotechnology, Shaheed Mahendra Karma Vishwavidyalaya, Bastar, CG (2023-till date)
4. Member, Board of Studies in Microbiology, Govt. Digvijay Postgraduate College, Rajnandgaon, CG (2022-till date).

### **Life Membership of Scientific Society**

1. The Indian Science Congress Association, Kolkata, India, Membership No. **L30681** (15 September 2016).
2. The Indian Aerobiological Society (Regd.), India, Member Reg.no. **S/32742/81-82** (29 January 2018).
3. Association of Fungal Biologist, Mumbai, India, Life Membership No. **LM24003**, (18 March 2024).

### **Fellow Member of the Scientific Society**

1. Fellow Member of World Researchers Associations (FWRA), Reg. no. **FM/2023/0026**, (02 October 2023).

**Administrative Responsibility:**

1. Secretary, Staff Council, SoS in Biotechnology, Pt. RSU, Raipur (2014 –2022)
2. Secretary, Alumni Association of Biotechnology, SoS in Biotechnology, Pt. RSU, Raipur (2014 –till date)
3. Assistant Coordinator, Central Valuation Unit, Pt. RSU, Raipur (2016)
4. Assistant Coordinator, Digital Valuation Unit, Pt. RSU, Raipur (February 2017)
5. Assistant Coordinator, Central Valuation Unit, Pt. RSU, Raipur (October 2018)
6. Member, Self Study Report (SSR), IQAC, Pt. RSU, Raipur (November 2019–till date)
7. Member, Institutional Development Plan Cell (IDP), Pt. RSU, Raipur (April 2024–till date)
8. Member, Placement Cell, Pt. RSU, Raipur (April 2024–till date)
9. Member, NEP Implementation Committee, Pt. RSU, Raipur (April 2024–till date)
10. Incharge, Press University, Pt. RSU, Raipur (July 2024–till date)
11. Member, Innovation & Incubation Centre , Pt. RSU, Raipur (August 2025–till date)

**Member in Professional Bodies:**

1. Alumni Association, School of Studies in Biotechnology, Pt. RSU, Raipur (2011-till date)
2. Secretary, Alumni Association, School of Studies in Biotechnology, Pt. RSU, Raipur (October 2014–till date)
3. Teachers Association, Pt. RSU, Raipur (2012- till date)

**Additional Responsibility:**

1. **Assembly-Level Master Trainer** for Parliament and Legislative Assembly Elections (2023-24), responsible for executing duties as directed by the District Election Officer, Raipur (CG).
2. **Member of Contact Tracing Team (COVID-19)** (July 22, 2020, to June 04, 2021), Role acted as per the direction of time-to-time according to guidelines of District Administration, Raipur (CG).

**Areas of Research Interest:**

1. Propagation and conservation of medicinal plants and mushrooms
2. Mushroom Biotechnology
3. Mushroom Biofortification & Functional Foods
4. Bioremediation
5. Food Processing and
6. Drug Discovery

## Editorial Responsibilities

1. Reviewer, Journal of Applied Pharmacy (OMICS International), Belgium
2. Reviewer, European Journal of Biotechnology and Bioscience, India
3. Reviewer, International Journal of Food Science and Biotechnology (IJFSB), USA.
4. Reviewer, Jordan Journal of Biological Sciences, Jordan
5. Reviewer, Food Science and Human Wellness, Elsevier
6. Reviewer, MYCOPATH, Pakistan
7. Reviewer, Environmental Science, and Pollution Research, Springer Nature
8. Reviewer, Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, Springer Nature
9. Editor, NewBioWorld, A Journal of Alumni Association of Biotechnology
10. Reviewer, Studies in Fungi, Maximum Academic Press
11. Reviewer, World Journal of Microbiology and Biotechnology, Springer Nature
12. Reviewer, Applied Biochemistry and Biotechnology, Springer Nature
13. Reviewer, Archives of Microbiology, Springer Nature
14. Reviewer, Discover Food, Springer Nature
15. Reviewer, Discover Materials, Springer Nature

## Research Guidance:

### Ph.D.

SN.	Name of the Student	Registration	Thesis Title	Status
1	<b>Ms. Deepali</b> CSIR- NET DBT JRF Fellow	01-10-2018	Minerals Fortification and its impact on Yield, Metabolites and Bioactivity of <i>Calocybe indica</i> (P&C)	<b>Awarded</b> <b>23-08-2024</b>
2	<b>Ms. Anjali Kosre</b> University Research Fellow, Letter wide no. Sr./623/Fin.Sch./2021,Dated 19/07/2021	06-10-2018	Bioaccumulation of Minerals and their Impact on Productivity, Bioactivity and Metabolites contents of <i>Pleurotus florida</i>	Pursuing
3	<b>Ms. Varsha Meshram</b> CSIR- NET UGC-JRF June, 2020 ; GATE-2021 (Life Sciences)	DRC, 12-07- 2022/ Ph.D./22/BIT/ 02 (13-07-2022)	Intergeneric Hybridization between <i>Cordyceps militaris</i> (Linn.) Link and <i>Pleurotus florida</i> (Jacq.) P. Kumm: Characterization of its Constituents and their Biological Activities	Pursuing
4	<b>Mr. Khemraj</b> University Research Fellow, Letter wide no. Sr./623/Fin.Sch./2021,Dated 19/07/2021	DRC,12-07- 2022/ Ph.D./22/BIT/ 04 (20-07-2022)	To Examine the Edibility and Vulnerability of <i>Chlorophyllum</i> species and related species using Morphological, Biochemical, and Molecular techniques	Pursuing

SN.	Name of the Student	Institute	Title	Session
1	Mr. Devendra Kumar Tandiya	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Nutraceutical Properties Evaluation of Some Polypore Mushrooms	2016
2	Ms. Mausmi Dhangar	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Evaluation of Antioxidant Properties of Polar and Non-Polar Solvents Extract of Wild Mushroom	2017
3	Ms. Shivangi Shukla	MATS University, Raipur (CG)	Rapid <i>In Vitro</i> Evaluation of Antifungal Activity of <i>Ganoderma lucidum</i> Against Human Pathogenic Fungus ( <i>Aspergillus niger</i> )	2018
4	Ms. Ayesha Fatima	MATS University, Raipur (CG)	Antibacterial activity of <i>Ganoderma lucidum</i>	2018
5	Mr. Kirit Chanap	MATS University, Raipur (CG)	Standardization of protocol for DNA isolation of <i>Termitomyces heimii</i>	2018
6	Ms. Sarita Waradkar	Dept. of Biotechnology, Govt. VYT Post Graduate Autonomous College, Durg (CG)	Static and Non-Static Submerged Cultivation of <i>Pleurotus ostreatus</i> and Their Impact on Production of Biomass and Exopolysaccharide	2019
7	Ms. Priyanka Chouhan	SoS in Biotechnology, Pt. RSU, Raipur (CG)	To Study the Effect of Solid and Liquid Spawn Substrates on Growth, Yielding and Biological Efficacy of <i>Pleurotus ostreatus</i> (Jacq.) P. Kumm. 1871	2019
8	Mr. Dharmendra Kumar Verma	Dept. of Biotechnology Govt. NPG College of Science, Raipur (CG)	Evaluation of Biological Efficacy of the Various Agro Waste Products Used as Substrate for the Cultivation of <i>Pleurotus ostreatus</i>	2019
9	Mr. Subir Kumar Parey	Amity Institute of Biotechnology, Amity University Gwalior (MP)	Evaluation of Antibacterial Activity of Inorganic and Organic Solvents Extract <i>P. ostreatus</i> , against Human Pathogenic and Non-Pathogenic Bacteria	2019
10	Ms. Pingla Sen	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Review on Nutrients and Bioactive Compounds of <i>Pleurotus ostreatus</i>	2020
11	Ms. Jaswantee Pujari	Dept. of Biotechnology Govt. NPG College of Science, Raipur (CG)	Study of the effect of Carbon sources on the production of exopolysaccharides and Antioxidants activity by submerged culture of <i>Pleurotus florida</i>	2020
12	Ms. Sharon Khalkho	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Review on Nutritional Status and Bioactive Compounds of <i>Calocybe indica</i> (P&C)	2020
13	Ms. P. Deepti Rani	Amity Institute of Biotechnology, Amity University Chhattisgarh, Raipur (CG)	Mineral fortification of <i>Calocybe indica</i> by using Submerged fermentation and its impact on production of biomass and exopolysaccharides	2021
14	Mr. Jatish Patel	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Study on the Impact of Zinc Oxide Nanoparticles Fortification on Submerged Batch Cultivation of <i>Calocybe indica</i> (P&C) and its Nutraceuticals Assessment	2022
15	Ms. Bhawana Chandrasen	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Study of Mycoremediation Potency of Spent Mushroom Substrates of <i>Pleurotus florida</i> and <i>Calocybe indica</i> for Heavy Metals	2022
16	Ms. Shradha Joshi	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Study on the Bioadsorption Capacity of Spent Mushroom Substrates of <i>Calocybe indica</i> and <i>Pleurotus florida</i> on the Potential Application of Biosorbent on Some Synthetic Dyes	2022
17	Mr. Jhameshwar Prasad, DST Inspire (SHE)	Govt. Digvijay Autonomous PG College, Rajnandgaon (CG)	Evaluation of Bioadsorption Efficiency of the Spent Mushroom Substrate of <i>Calocybe indica</i> for Removing Iron from some Contaminated Water Samples	2022
SN.	Name of the	Institute	Title	Session

	Student			
18	Mr. Sandeep Sahu	Dept. of Biotechnology Govt. NPG College of Science, Raipur (CG)	Study of Magnesium Salt (MgSO <sub>4</sub> ) Accumulation Influential Impact in Batch Submerged and Solid- State Cultivation of <i>Pleurotus florida</i> and Proximate Analysis of its Bio-Products	2023
19	Ms. Prachi Thakur	Dept. of Biotechnology, St. Thomas College Ruabandha, Bhilai(CG)	Comprehensive Evaluation of $\beta$ -glucan Content and Bioactivity in the Fusant Derived from the Hybridization of <i>Pleurotus florida</i> and <i>Cordyceps militaris</i>	2023
20	Ms. Pritika Pradhan	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Morpho-Molecular and Biochemical Characterization of Poisonous mushroom <i>Chlorophyllum molybdites</i>	2023
21	Ms. Prachi Katre	Dept. of Biotechnology, Govt. VYT Post Graduate Autonomous College, Durg (CG)	Sustainable Cultivation of <i>Pleurotus florida</i> : Harnessing Waste Resources for Mushroom Production and Eco-Friendly Contaminated Ground Water Remediation	2024
22	Ms. Payal Amariya	Dept. of Biotechnology, Govt. VYT Post Graduate Autonomous College, Durg (CG)	Nutritious Value Analysis of <i>Pleurotus florida</i> Cultivated on Different Locally Available Substrates	2024
23	Ms. Richa Sahu	SoS in Biotechnology, Pt. RSU, Raipur (CG)	Exploring Alternate Nitrogen Sources for Cultivating Lovastatin Rich <i>Pleurotus florida</i> (Jacq.) P. Kumm: A Comparative Study	2024
24	Mr. Likesh Kumar	Dept. of Biotechnology, Govt. VYT Post Graduate Autonomous College, Durg (CG)	Sustainable Fortification of Mushroom Substrates: Impact of Eggshell Powder on Yield and Calcium Content in <i>Pleurotus florida</i>	April 2025

#### GRANT SUPPORT RECEIVED:

SN.	Project Title	Funding Agency	Sanctioned Amount (INR in Lakhs)	Duration	Status
1	PI, Morphological, Biochemical and Molecular Characterization of poisonous and nonpoisonous mushroom (Endt. No. 722/CCOST/)	CCOST, Raipur	3.60=00	2015-17	Completed
2	PI, Morphological, Biochemical and Molecular Characterization of Edible and Poisonous Mushroom of the Forest of Mahasamund district, Chhattisgarh (Endt. No. Sr./SBB/2040, dated 08/11/2023)	State Biodiversity Board, CG Govt.	3.00=00	2023-25 (18 months)	Ongoing
3	PI, Traditional knowledge of medicinal plants consumed by primitive tribes of Bastar Chhattisgarh: Development of database and strategy for value addition and sustainable livelihood via Fin-tech. (Endt. No. IBITF/Note/TSP/SanctionLetter /2023-24/0254, dated 14/11/2023)	IBITF, Bhilai (DST funded)	40.23=00	2023-25	Ongoing

## PROFESSIONAL TRAINING PROGRAMMES ATTENDED

SN.	Training Program	Place	Place/ Agency	Duration
1	NIRF Ranking Submissions and Quality Enhancement	AIU-Online Workshop	AIU-Online Workshop	01 Day 24.01.2025
2	NEP 2020 Orientation & Sensitization Programme	Malaviya Mission Teacher Training Center, Pt. Ravishankar Shukla University, Raipur CG	Malaviya Mission Teacher Training Center, Pt. Ravishankar Shukla University, Raipur, CG, India	01 weeks: 01.02.2024 - 09.02.2024
3	One-Day Workshop on Career Advancement Scheme (CAS)	Malaviya Mission Teacher Training Center, Pt. Ravishankar Shukla University, Raipur CG	Internal Quality Assurance Cell & Malaviya Mission Teacher Training Center, Pt. Ravishankar Shukla University, Raipur, CG, India	01 Day 13.01.2024
4	3-day Workshop on Financial Engineering	Innovation and Technology Foundation, IIT Bhilai (IBITF)	Innovation and Technology Foundation, IIT Bhilai (IBITF) C.G. and Department of Financial Engineering, Siegen University, Germany	03 Days : 28.09.2023 - 30.09.2023
5	NEP 2020-Online Workshop on “Academic Bank of Credits”	HRDC, (RTM) University, Nagpur (MH)	UGC-Human Resource Development Center, Rashtrasant Tukadoji Maharaj Nagpur (RTM) University, Nagpur, MH, India	01 Day 31.08.2023
6	Online Refresher Course in Basic Sciences	HRDC, (RTM) University, Nagpur (MH)	UGC-Human Resource Development Center, Rashtrasant Tukadoji Maharaj Nagpur (RTM) University, Nagpur, MH, India	02 weeks: 21.08.2023 - 02.09.2023
7	Learning Advanced E-tools for MOOCs Development & Research	T.L.C., Ramanujan College and Motilal Nehru College (E), University of Delhi	T.L.C., Ramanujan College and Motilal Nehru College (E), University of Delhi	02 weeks: 01.09.2020- 14.09.2020
8	Short-term course on “ARPIT” (Annual Refresher Program in Teaching) UGC-SPONSORED SHORT TERM COURSE	Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur CG	UGC-Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur, CG, India	01 weeks: 03.02.2020 - 08.02.2020
9	The Importance of technical terminology in writing of Academic book (शैक्षणिक पुस्तक के लेखन में तकनीकी शब्दावली का महत्व)	Chhattisgarh Rajya Hindi Granth Academy, Raipur	Commission for Scientific and Technical Terminology, Govt. of India	02 Days 20.01.2018- 21.01.2018
10	“Cancer Health Disparity” Short Term Course work, Mentor <b>Manoj K. Mishra, Ph.D.</b> Director, Cancer Biology Research and Training Director, Freshmen BIO Program Associate Professor of Biology Department of Biological Sciences Alabama State University	Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) India	Global Initiative For Academic Networks (Gian), association with Guru Ghasidas Vishwavidyalaya, Bilaspur (CG.) India and Ministry of Human Resources Development (MHRD), Govt. of India	05 Days 18.12.2017- 22.12.2017



	915 S Jackson Street Montgomery AL 36101-0271			
11	The STEM Teacher Training Workshop on Research Based Pedagogical Tools	Pt. Ravishankar Shukla University, Raipur	Jointly sponsored by DBT, Govt. of India; Newton Bhabha fund of the British Council; Centre of Excellence in Science and Mathematics Education, IISER Pune and Pt. Ravishankar Shukla University, Raipur. [Conducted by a team of experts from the Centre for Science Education, Sheffield Hallam University, UK.]	04 Days 06.10.2017- 09.10.2017
12	Special Winter School on “Innovation Teaching and Research”	Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur CG	UGC-Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur, CG, India	03 weeks: 12.01.2016 - 01.02.2016
13	Orientation Program under the theme “Quality of Higher Education: Learning Process”	Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur CG	UGC-Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur, CG, India	04 weeks: 03.06.2015- 30.06.2015
14	National Workshop on “Operation and Maintenance of Laboratory Equipments”	School of Studies in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur	School of Studies in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur, & Western Regional Instrumentation Centre, Mumbai, MH, India	05 Days 19.01.2015- 23.01.2015
15	Scientific/Research Paper Writing	Central Institute of Fisheries Education – CIFE, Mumbai	The National Academy of Sciences, India (NASI), Allahabad, UP, India	08.06.2012- 10.06.2012
16	4 <sup>th</sup> INSPIRE Internship Program/ Science Conclave: “A Congregation of Nobel Laureates and Eminent Scientists	IIIT-A (Indian Institute of Information Technology, Allahabad)	MHRD-DST initiative at IIIT-A (Indian Institute of Information Technology, Allahabad, UP, India	07 Days 26.11.2011- 02.12.2011

### Conference/ Symposia Organized:

1. Five Days Hands-on-Training *cum* Workshop on Methods of Gene Cloning and Protein Purification, jointly organized by Pt. Ravishankar Shukla University, Raipur (C.G.) and Gujrat Biotechnology University, Gandhinagar & HiMedia Laboratories Pvt. Ltd. Mumbai on November 19 to 23, 2024 (**Program Coordinator**).
2. National Seminar on Safeguarding Indigenous Knowledge of Medicinal Plants Used by Tribal Healers, jointly organized by Pt. Ravishankar Shukla University, Raipur (C.G.) and IIT Bhilai Innovation and Technology Foundation (IBITF), Bhilai (C.G.) on November 6<sup>th</sup>, 2024 (**Organizing Secretary**).
3. Two Days Workshop on "Integration of Indigenous Knowledge: Sustainable Cultivation of Traditional Medicinal Plants and Health Benefits", jointly organized by Pt. Ravishankar Shukla University, Raipur (C.G.) and IIT Bhilai Innovation and Technology Foundation (IBITF), Bhilai (C.G.) at Govt. Indaru Kenwat Girls College, Kanker (C.G.), on May 9<sup>th</sup> and 10<sup>th</sup>, 2024 (**Organizing Secretary**).
4. Three Days Hands-on-Training *cum* Workshop on Techniques in Biotechnology, April 18<sup>th</sup> -20<sup>th</sup>, 2024 (**Program Coordinator**).
5. National Conference on Science & Technology for Women Empowerment and Rural Development, jointly organized by The National Academy of Sciences, India (NASI) & PtRSU, Raipur, on October 13<sup>th</sup> -14<sup>th</sup>, 2023 (**Executive Secretary**).

6. Five Days Hands-on-Training *cum* Workshop on Advance Techniques in Biotechnology & Yeast Genome Engineering, on August 25<sup>th</sup>-29<sup>th</sup> and September 02<sup>nd</sup> 2023 (**Program Coordinator**).
7. Hands-on Training *cum* Workshop on Molecular Techniques, November 18<sup>th</sup> -19<sup>th</sup>, 2022 (**Program Coordinator**).
8. International *e*-Conference on Recent Advances in Biological Sciences & Opportunities in Entrepreneurship”, January 7<sup>th</sup> - 8<sup>th</sup>, 2022 (**Organizing Secretary**).
9. National Seminar on “Recent Advances & Trends in Biotechnology”, January 10<sup>th</sup> -12<sup>th</sup>, 2020 (**Treasurer**).
10. National Seminar on “Innovations & Prospects in Biotechnology”, January 2<sup>nd</sup> - 4<sup>th</sup>, 2016 (**Joint Secretary**).
11. National Conference on Traditional Knowledge and Biotechnology, November 22<sup>nd</sup> – 24<sup>th</sup>, 2013 (**Joint Secretary**).

**Guest/Invited Lectures Delivered and Chaired a technical session in various activities:**

1. Delivered invited lecture as a subject expert and Resource Person titled “**Exploration of Remedial Effects of Traditional Medicinal Plants: Tribal Healers of Kanker District**” at a State Level Workshop, Topic “Concept of Agriculture, Environment and Sustainable Development in the Present Context” organized under the aegis of PM- USHA and IQAC of Govt. Indaru Kenwat Girl’s College, Kanker, Chhattisgarh on January 11<sup>th</sup>, 2025.
2. Served as Judge “Model Making Competition” in SRIJAN 3.0, organized by the Anjaneya University, Raipur, on October 22<sup>nd</sup>, 2024.
3. Delivered invited lecture as a subject expert titled “**Exploration of Remedial Effects of Traditional Medicinal Plants: Tribal Healers of Kanker District**” at a Seminar organized by the Department of Bioscience and Biomedical Engineering, IIT Bhilai on May 22<sup>nd</sup>, 2024.
4. Delivered lecture as a subject expert titled “**Guidance on Career Paths: Post-Graduation Opportunities in the Field of Biology**”, organized by IQAC cell associated with Department of Botany, Govt Naveen College, Pirda, Dist Mahasamund, on February 24<sup>th</sup>, 2024.
5. Delivered lecture as a subject expert titled “**Antibody and their types**” organized by Department of Biotechnology, Govt Veer Surendra Say P.G. College, Gariaband, Dist Gariaband, on February 21<sup>st</sup>, 2024.
6. Delivered lecture as a subject expert titled “**Environment and Health: A Vital Indication**” on a Two-Day National Seminar on Environment and Health: Opportunities and Challenges, organized by Govt Kamla Nehru Girls College, Balaghat, MP on March 25<sup>th</sup> – 26<sup>th</sup>, 2023.
7. Chaired a technical session as a subject expert in a poster presentation at the National Conference on “**Innovation and Emerging Novel Research in Plant Sciences**” (IENRPS-2023) organized by Govt. VYT PG Autonomous College, Durg, Chhattisgarh, India, on January 17<sup>th</sup> - 18<sup>th</sup>, 2023.
8. **Chaired a technical session as a subject expert** (OP-2, oral presentation) in the 22<sup>nd</sup> National Conference on Aerobiology (NCIAS-2022) and its Impact on Plant, Animal and Human Health, organized by Narayanrao Waghmare Mahavidyalaya, Akhada, MH on December 21<sup>st</sup> to 23<sup>rd</sup>, 2022.
9. Delivered lecture as a subject expert on “**Basic of Immunology**” organized by IQAC cell associated with Department of Zoology, Dept of Botany, Govt Kunj Bihari Choubhe College, Lal Bahadur Nagar, Dist Rajnandgaon, on December 19<sup>th</sup>, 2022.
10. Delivered lecture on “**CSIR NET Life Sciences, Preparation**” UGC Coaching Center, Pt. Ravishankar Shukla University Raipur (Chhattisgarh), January 2020.

11. Delivered lecture on “CSIR NET Life Sciences, Preparation” UGC Coaching Center, Pt. Ravishankar Shukla University Raipur (Chhattisgarh), October 2019.
12. Delivered lecture on “CSIR NET Life Sciences, Preparation” UGC Coaching Center, Pt. Ravishankar Shukla University Raipur (Chhattisgarh), April 2018.
13. Lectures delivered on the **Importance of NET & Other JRF Exam**. Department of Biotechnology and Zoology, Govt. Digvijay College, Rajnandgaon, February 19, 2016.




#### Event Attended in Abroad:

1. **Chandrawanshi, N. K.**, Dhangar, M. and Jadhav, S. K. (2019) Polar and Non-Polar Solvent Extracts Posses of Differential Antioxidant Activity of Medicinal Mushroom (*Pleurotus florida*). Published in Proceeding of 2nd International Conference on Fostering Interdisciplinary Research in Health Sciences 2019 (ICFIRHS 2019), Sept. 14-15, 2019, 08100 Bedong, Kedah Darul Aman, Malaysia. Published by A and V Publication, Raipur, India, ISBN: 978-93-85525-55-1, Paper ID: BS-121219212. (Oral Presentation).
2. **Chandrawanshi, Nagendra Kumar**, Tandia, D. K. and Jadhav, S. K. (2017) *In vitro* evaluation of the antioxidant and antidiabetic activity of the polar solvent extract of *Laetiporus sulphureus* (Bull.) Murrill. Souvenir of 7<sup>th</sup> International Science Congress, C.S.T., Royal University of Bhutan, Bhutan, (ISCA-ISC-2017-3BS-06-Oral). December 8<sup>th</sup>-9<sup>th</sup>, 2017. Pg. 42-43. (Oral Presentation).

#### Gene Data Submission in NCBI

1. <https://www.ncbi.nlm.nih.gov/nuccore/MT159466>(Retrieved date 20 March 2020)  
(*Microporus xanthopus* isolate CFKNG10, accession:MT159466)
2. <https://www.ncbi.nlm.nih.gov/nuccore/2500090875> (Retrieved date 06 June 2023)  
(*Chlorophyllum molybdites* isolate KN1197 , accession : OQ918566)
3. <https://www.ncbi.nlm.nih.gov/nuccore/PP587416.1>(Retrieved date 28 August 2024)  
(*Chlorophyllum hortense* isolate KN1197, accession : PP587416)
4. <https://www.ncbi.nlm.nih.gov/nuccore/PP588459.1>(Retrieved date 28 August 2024)  
(*Amanita manicata* isolate KN1197, accession : PP588459)
5. <https://www.ncbi.nlm.nih.gov/nuccore/PP657565.1>(Retrieved date 28 August 2024)  
(*Chlorophyllum molybdites* isolate KN1197 , accession:PP657565)

#### SWAYAM MOOC content development

Course Name	Session	Contributed in Content	Role	Remark	 <b>Environmental Studies : Pollution,...</b> Dr. Harish Kumar Ghritlahre, Dr. Smita Rani... Chhattisgarh Swami Vivekanand Technical University...  <b>IGNOU</b>  12 Weeks (Starts: 01-01-2025)
Environmental Studies: Pollution, Climate Change and Safety Management, Credit points:4 Level: Diploma	Duration:12 Week Start: 15 July 2024 End: 30 Nov 2024 Exam date: 14 Dec 2024	<ul style="list-style-type: none"><li>• Ecosystem</li><li>• Types of Ecosystem</li><li>• Impact of Man on Environment –I</li><li>• Impact of Man on Environment –II</li></ul>	Subject Expert	Completed	
Web resource: <a href="https://onlinecourses.swayam2.ac.in/nou24_es12/preview">https://onlinecourses.swayam2.ac.in/nou24_es12/preview</a>					

## Research Publications:

### Manuscript published in National and International Journals:

1. Tikeshari, Shrivastava, K., Tandey, K., Sharma, A. and **Chandrawanshi, N.K.** (2025) Advances and challenges in sample preparation and analytical methods for water-soluble vitamins: Application in food, clinical, pharmaceutical samples. *Journal of Pharmaceutical and Biomedical Analysis*, 266:117124, <https://doi.org/10.1016/j.jpba.2025.117124>, {SCOPUS Indexed Journal, **IF 3.1**} published 18 August 2025.
2. Sahu, A. Deo, S.S., Jadhav, SK and **Chandrawanshi, N.K.** (2025) A comprehensive review on poisonous mushrooms: The revolutionary potential of mycotoxins in medicine and beyond. *Toxicon*, 266:108538, <https://doi.org/10.1016/j.toxicon.2025.108538>, {SCOPUS Indexed Journal, **IF 2.4**} published 11 August 2025.
3. Kosre, A., Sahu, D., Jadhav, SK and **Chandrawanshi, N.K.** (2024) Proximate analysis of *Pleurotus florida* influenced by magnesium sulfate (MgSO<sub>4</sub>) in submerged and solid-state cultivation. *Research on Crops*, 25(4):641-647, <https://doi.org/10.31830/2348-7542.2024.roc-1123> {SCOPUS Indexed Journal} published 19 December 2024.
4. **Chandrawanshi, N. K.** and Tandia, D. K. (2024) Determination of antimicrobial potency of some polar solvent extracts of polypore mushrooms. *Research J. Pharm. and Tech*; 17(12):5689-5696, <https://doi.org/10.52711/0974-360X.2024.00866> {SCOPUS Indexed Journal}. published 17 December 2024.
5. Meshram, V., Thakur, P., Jadhav, SK and **Chandrawanshi, N.K.** (2024) GC-MS Analysis of Polysaccharides from an Intergeneric Hybrid of *Pleurotus florida* and *Cordyceps militaris*: A Comparative Study. *Applied Biochemistry and Biotechnology*. <https://doi.org/10.1007/s12010-024-05121-z> {SCOPUS Indexed Journal, **IF 3.3**} published 29 November 2024.
6. Sinha, S., Karbhal, I., Deb, M. K., Saha, A., Manikpuri, S., **Chandrawanshi, N. K.**, Koreti, D. and Nayan, R. (2024). Multifunctional silver nanoparticles decorated N, S co-doped graphene as a sensitive colorimetric probe for L-cysteine detection and as an antibacterial agent. *Inorganic Chemistry Communications*, 113044. Vol 169, <https://doi.org/10.1016/j.inoche.2024.113044>, {SCOPUS Indexed Journal, **IF 5.4**} published 27 August 2024.
7. Sahu, Prasad J. and **Chandrawanshi, N. K.** (2024) Evaluation of Bioadsorption Efficiency of the Spent Mushroom Substrate of *Calocybe indica* for Removing Iron from some Contaminated Water Samples. *Research Journal of Chemistry and Environment*; 28(8):81-86, DOI: <https://doi.org/10.25303/288rjce081086>, 29 August 2024 (SCOPUS and UGC Indexed Journal).
8. **Chandrawanshi, N. K.** and Tandia, D. K. (2024) Determination of Antioxidant and Antidiabetic Potency of Polar solvent extracts of *Laetiporus sulphureus* (Bull.) Murrill. *Research Journal of Biotechnology*, 19(7): 69-77, DOI: <https://doi.org/10.25303/1907rjbt064068>, (SCOPUS and UGC Indexed Journal, **IF 0.2**), published 7 July 2024.
9. Koreti, D., Jadhav, SK and **Chandrawanshi, N.K.** (2023) Zn Fortification Influential Impact on the Productivity of *Calocybe indica* Mycelium. *Journal of Ravishankar University Part -B*; 36(2): 158-165, DOI : [10.52228/JRUB.2023-36-2-11](https://doi.org/10.52228/JRUB.2023-36-2-11), published 02 January 2024.

10. Koreti, D., Jadhav, SK and **Chandrawanshi, N.K.** (2023) Mineral Fortification of *Calocybe indica* (P&C) and its Impact on Colony Morphology and Metabolites Production. *Ind. J. Aerobiol.*; 36(1): 9-17. UGC Approved Journal, published 30 June 2023.
11. Sahu, K., Pradhan, P. and **Chandrawanshi, N.K.** (2022) Revaluation of Mushroom Edibility Based on Differences in Morphological Characteristic. *NewBioWorld A Journal of Alumni Association of Biotechnology*,4(2):15-17.DOI: <https://doi.org/10.52228/NBW-JAAB.2022-4-2-3>
12. Meshram, V. and **Chandrawanshi, N.K.** (2022) Bioactive Compounds and Pharmacological Activities of the Genus Cordyceps: A Review. *NewBioWorld A Journal of Alumni Association of Biotechnology*,4(1):13-19.DOI: <https://doi.org/10.52228/NBW-JAAB.2022-4-1-4>
13. Koreti, D., Kosre, A., Jadhav, SK, and **Chandrawanshi, N.K.** (2022) A comprehensive review on oleaginous bacteria: an alternative source for biodiesel production. *Bioresour. Bioprocess.*9, 47. <https://doi.org/10.1186/s40643-022-00527-1>, {SCOPUS Indexed Journal, IF 5.1} published 22 April 2022.
14. Chouhan, P., Koreti, D., Kosre, A., Chauhan, R., Jadhav, SK and **Chandrawanshi, N.K.** (2022) Production and Assessment of Stick-Shaped Spawns of Oyster Mushroom from Banana Leaf-Midribs. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 92, 405–414. <https://doi.org/10.1007/s40011-021-01327-x>{SCOPUS Indexed Journal, IF 0.95} published 15 April 2022.
15. Sen, Pingla, Kosre, A., Deepali and **Chandrawanshi, Nagendra Kumar** and Jadhav, SK (2021) Nutrients and Bioactive compounds of *Pleurotus ostreatus* mushroom. *NewBioWorld A Journal of Alumni Association of Biotechnology* 3(2):8-12. <https://doi.org/10.52228/NBW-JAAB.2021-3-2-2>. published 31 Dec 2021.
16. Khalkho, S., Koreti, D., Kosre, A., Jadhav, SK, and **Chandrawanshi, Nagendra Kumar** (2021) Review on production technique and nutritional status of *Calocybe indica* (P&C). *NewBioWorld A Journal of Alumni Association of Biotechnology*, 3(1):1-7, <https://doi.org/10.52228/NBW-JAAB.2021-3-1-2>, published 1 July 2021.
17. **Chandrawanshi, N. K.** and Shukla, S. (2019) Rapid *In Vitro* Antifungal Property Assessment of Organic and Aqueous Extracts of *Ganoderma lucidum* Against Human Pathogenic Fungus of *Aspergillus niger*. *International Journal of Emerging Technologies and Innovative Research*, 6(5): 473-477, UGC Approved Journal, No: 63975, as of June 14, 2019. <https://zenodo.org/records/7080772>, Published May 2019.
18. **Chandrawanshi, N. K.**, Tandia, D. K., and Jadhav, S. K. (2019) Determination of Anti-Diabetic Property of organic and nonorganic solvent extracts of *Schizophyllum commune*. *NewBioWorld A Journal of Alumni Association of Biotechnology*, 1(1): 5-8. <https://doi.org/10.52228/NBW-JAAB.2019-1-1-2> .
19. **Chandrawanshi, N. K.**, Tandia, D. K., and Jadhav, S. K. (2018) Determination of Antioxidant and Antidiabetic Activities of Polar Solvent Extracts of *Daedaleopsis confragosa* (Bolton) J. Schröt. *Research J. Pharm. and Tech*; 11(12): 5623-5630. <https://doi.org/10.5958/0974-360X.2018.01020.X> , {SCOPUS Indexed Journal}
20. Fatima, A. and **Chandrawanshi, N. K.** (2017) Antibacterial Activity Determination of Polar and Non-Polar Solvent Extracts of *Ganoderma lucidum* Against Human Pathogenic Bacteria. *International Journal of Creative Research Thoughts (IJCRT)*, 5 (3): 576-580, UGC Approved Journal No: 49023 (18), <http://doi.org/10.1729/Journal.31469> , Published July 2017.

21. **Chandrawanshi, N. K.**, Tandia, D. K., and Jadhav, S. K. (2017) Nutraceutical Properties Evaluation of *Schizophyllum commune*. *Indian J. Sci. Res.*, 13(2): 57-62. UGC Approved Journal No: 20876 Published 2017. <https://www.ijsr.in/upload/647593983chapter11.pdf>,
22. **Chandrawanshi, Nagendra Kumar** (2016) Mushroom Toxins and Human Manifestation. *NewBioWorld*, 1(1):4-7.
23. **Chandrawanshi, N. K.**, S. K. Jadhav, K. L. Tiwari and Quraishi Afaque (2016) Assessment on threatened classification of *Gloriosa superba* L. *Deccan Current Science*. 15(1): Pg. 140-150. <https://dcsi.in/volume-15-august-2016/>.
24. **Chandrawanshi Nagendra Kumar**, S. K. Jadhav, K. L. Tiwari and Quraishi Afaque (2015) *In vitro* Tuberization and Colchicine Content Analysis of *Gloriosa superba* L. *Biotechnology*, 14(3): Pg. 142-147. <https://doi.org/10.3923/biotech.2015.142.147>, {SCOPUS/ Thompson Indexed Journal} [NAAS: *National Academy of Agricultural Sciences, IARI, New Delhi, India*]
25. **Nagendra K. Chandrawanshi**, K.L. Tiwari, S.K. Jadhav and Afaque Quraishi (2013) Threats Facing by The Critically vulnerable medicinal plant *Gloriosa superba* L. at natural habitat: Major Insect Pest and Human Interference. *Deccan Current Science*. 9(2): Pg. 221-228.
26. Tiwari, K.L., Jadhav, SK and **Chandrawanshi, N. K.** (2010) Studies of the Minimum Inhibitory Concentration (MIC) of *Penicillium* species. *Deccan Current Science*. 3 (II): Pg. 151-154. <https://dcsi.in/wp-content/uploads/2024/03/2010608.pdf>.

#### ***Manuscript Communicated in Journals:***

1. Varsha Meshram, Richa Sahu, Shailesh Kumar Jadhav and **Nagendra Kumar Chandrawanshi** (2024) Integration of Bio-Based Lovastatin Production and Eco-Friendly Enzyme Desizing: A Dual Approach for Health and Environmental Sustainability. *International Microbiology*, (Submitted Dec 2024, under review, IF 2.3)
2. Varsha Meshram, Prachi Katre, Payal Amariya, Richa Sahu, Deepali Koreti, Shailesh Kumar Jadhav and **Nagendra Kumar Chandrawanshi** (2024) Sustainable Cultivation of *Pleurotus florida*: Valorizing Waste Resources for its Production and Eco-Friendly Groundwater Remediation. *Journal of Material Cycles and Waste Management*, (Submitted Dec 2024, under review, IF 2.7)
3. Khemraj Sahu, Pritika Pradhan, Rajiv Nayan, Shubhra Sinha, Vaibhav Dixit, Indrapal Karbhal, Shailesh Kumar Jadhav, **Nagendra Kumar Chandrawanshi** (2025) Morpho-Molecular Characterization and Medicinal Applications of *Chlorophyllum molybdites*: Development of Wound Dressing Patch against Diabetic Wound infection. *Indian Journal of Microbiology*, (Submitted August 2024, under review, IF 2.1)
4. Sahu, Khemraj; Nayan, Rajiv; Jadhav, Shailesh; Deo, Sajal; Karbhal, Indrapal; **Chandrawanshi Kumar Nagendra** (2025) Chemical profiling and Biosynthesis of Silver Nanoparticles from *Amanita manicata*: A Sustainable Approach to Antibacterial Therapy. *Journal of Natural Products*, (Submitted January 2025, under review, IF 5.1)
5. Khemraj Sahu, Shailesh Kumar Jadhav, **Nagendra Kumar Chandrawanshi** (2025) Mushroom Poisoning: Signs and Symptoms, and Identification Techniques. *Coordination Chemistry Reviews*, (Submitted December 2024, IF 20.33).

#### ***Papers in Conference/ Symposia Proceedings:***



1. **Chandrawanshi N. K.** (2021) Ecological Diversity and Edibility Characteristics of the Mushrooms in the Kanker Forest Region, Chhattisgarh. Title of Book “Sustainable Water Management and Ecosystem Restoration & World Environment Day Celebration” Proceeding of International Conference (online) on “Sustainable Water Management and Ecosystem Restoration”, 23rd & 24 June 2021. Edited by Dr. Marykutty Abraham, Dr. S. K. Pramada, Dr. P. Jegathambal, Dr. P. Mohana, Ms. B. Priyadarshini, Published by Cape Comorin Publisher Kanyakumari, Tamilnadu, India E-ISBN: 978-93-91553-42-5.
2. **Chandrawanshi N. K.**, Dhargar, M. and Jadhav SK (2019) Polar and Non-Polar Solvent Extracts Posses of Differential Antioxidant Activity of Medicinal Mushroom (*Pleurotus florida*). Published in Proceeding of 2<sup>nd</sup> International Conference on Fostering Interdisciplinary Research in Health Sciences 2019 (ICFIRHS 2019), 14-15 Sept. 2019, 08100 Bedong, Kedah Darul Aman, Malaysia. Published by A and V Publication, Raipur, India, ISBN: 978-93-85525-55-1.
3. **Nagendra Kumar Chandrawanshi** (2017) Strategies, Encounters and Tools for Biological Researchers: - through E-content Information Platform. Published in National Workshop on Proceeding in Capacity Building in Higher Education: Use of Library Resources. (ISBN: 978-81-89545-99-4). Pg. 60-66.
4. **N. K. Chandrawanshi**, K. L. Tiwari, A. Quraishi and S. K. Jadhav (2013) Effect of antibacterial activities and comparison the values of two types of Tulsi leaves (*Ocimum*). Published in National Conference Proceeding in Biotechnology and Traditional Knowledge. Published by Biotech Books, New Delhi (ISBN: 978-81-7622-330-0). Pg. 55-62.

#### 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 Chapter Publication:

1. Kosre, A., Koreti, D., Sahu, K., Meshram, V., Jadhav, S.K. & **Chandrawanshi, N.K.** Production of Metabolites from Edible Mushrooms: Methods and Application. Interdisciplinary Frontiers, Research Across Scientific Boundaries, Eds S. Shukla, published by Vibhavari Publication, Delhi, ISBN 978-93-84985-61-5. Pg 49-66.
2. Meshram, V., Mahish, P. K., & **Chandrawanshi, N. K.** Mushroom Cultivation and Application in Green Technology. In *Microbial Approaches for Sustainable Green Technologies* (pp. 304-317). CRC Press, (Eds. Jata Shankar, Pradeep Verma, Maulin P. Shah; published by CRC Press. <https://doi.org/10.1201/9781003407683>), eISBN: 978-1-003-40768-3. 6 June 2024.
3. Kumar, A., Karabulut, F., & **Chandrawanshi, N.** (2024). Genetic and physiological mechanism of nanoparticle-based salt stress tolerance in plants. In *Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants*. (Eds. Ramesh Namdeo Pudake, Ravi Mani Tripathi and Sarvajeet Singh Gill). Academic Press. (ISBN: 978-0-443-18500-7; <https://doi.org/10.1016/B978-0-443-18500-7.00014-4>). Ch 14, Pg 215-228), 04 April 2024.
4. Meshram, V., Sahu, K., Kosre, A., Koreti, D., Mahish, P. K., & **Chandrawanshi, N. K.** (2024). Mushroom Biosorbent. In *Biosorbents: Diversity, Bioprocessing, and Applications*, (Eds.: Pramod Kumar Mahish, Dakeshwar Kumar Verma, Shailesh Kumar

- Jadhav; published by CRC Press, <https://doi.org/10.1201/9781003366058>), eISBN: 978-1-032-39974-4, (pp. 42-53). 11 March 2024.
5. Kosre, A., Sahu, K., Meshram, V., Koreti, D., Mahish, P. K., & **Chandrawanshi, N. K.** (2024). Pretreatment of Spent Mushroom Substrate for the Enhancement of Biosorption capacity. In *Biosorbents : Diversity, Bioprocessing, and Applications*, (Eds.: Pramod Kumar Mahish, Dakeshwar Kumar Verma, Shailesh Kumar Jadhav; published by CRC Press .<https://doi.org/10.1201/9781003366058>), eISBN : 978-1-032-39974-4, (pp. 154-164). 11 March 2024.
  6. Banjara, R. A., Kumar, A., Aneshwari, R. K. & **Chandrawanshi, N. K.** (2024). Microbial Technologies for the Removal of Pharmaceuticals and Persistent Organic Pollutants from Wastewater. In *Microbes and Enzymes for Water Treatment and Remediation* (Eds. Nadda, A.K., Banerjee, P., & Sharma, S.). CRC Press. (ISBN: 978-1-003-51723-8, <https://doi.org/10.1201/9781003517238>) Ch 02, Pg 13-44 ), 28 August 2024.
  7. Kumar, A., Dutta, J., **Chandrawanshi, N. K.**, Ekka, A. & Sethi, S. K. (2024). Arbuscular mycorrhizal fungi in alleviation of biotic stress tolerance in plants: A new direction in sustainable agriculture. In *Entrepreneurship with Microorganisms, Developments in Applied Microbiology and Biotechnology*, Academic Press. (Ed. Amritesh C. Shukla; ISBN: 978-0-443-19049-0 ; <https://doi.org/10.1016/B978-0-443-19049-0.00006-2>). Ch 17, Pg 355-369), 04 January 2024.
  8. Kumar, A., Banjara, R. A., **Chandrawanshi, N. K.**, & Aneshwari, R. K. (2024). Endophytic bacteria: Bioactive compounds and their therapeutic importance. In *Biotechnology of Emerging Microbes* (pp. 351-365). Academic Press. (Eds. Hemen Sarma and Sanket J. Joshi; ISBN: 978-0-443-15397-6; <https://doi.org/10.1016/B978-0-443-15397-6.00017-6>) Ch 16, Pg 351-365), 01 January 2024.
  9. Chauhan, S.S., Chauhan, R., **Chandrawanshi, N.K.** & Mahish, P.K. (2023) Bioactivity of nanoparticles synthesized from medicinal plants. In *Phytochemicals in Medicinal Plants: Biodiversity, Bioactivity and Drug Discovery*. Edited by C. Arora , D.K.Verma , J. Aslam and P.K. Mahish, published by Walter de Gruyter GmbH & Co KG DE-GRUYTER. (<https://doi.org/10.1515/9783110791891-014>) Ch 14, (Pg pp. 315-330), 30 May 2023.
  10. Madhariya, G., Diwan, S., Chauhan, R., **Chandrawanshi, N.K.** & Mahish, P.K. (2023) Current applications of biomolecules in biotechnology. In *Handbook of Biomolecules, Fundamentals, Properties and Applications*. Published by Elsevier, Edited by Verma, C. & Verma, D.K. (<https://doi.org/10.1016/B978-0-323-91684-4.00027-X>. Ch 12, Pg 397-418), 29 May 2023.
  11. Koreti, D., Kosre, A., Mahish, P.K, **Chandrawanshi, N.K.** & Kunjam, S.R. (2023). Application of essential oils in alternative medicine. In *Essential Oils: Sources, Production and Applications*. Edited by R.C. Padalia , D. K. Verma , C. Arora and P.K. Mahish, and Published by Walter de Gruyter GmbH & Co KG DE-GRUYTER. <https://doi.org/10.1515/9783110791600-011>, (Ch 11, Pg 237-252), published 07 February 2023.
  12. **Chandrawanshi, N. K.**, Deepali, Kosre, A., Dewhare, S.S., Verma, S., Mahish, P.K & Kumar, A. (2023) Bioactivity of Essential oils -anti-cancer, anti-HIV, anti-parasitic, anti-inflammatory and other activity. In *Essential Oils: Sources, Production and Applications*. Edited by R.C. Padalia , D. K. Verma , C. Arora and P.K. Mahish and Published by Walter de Gruyter GmbH & Co KG DE-GRUYTER. <https://doi.org/10.1515/9783110791600-006>, (Ch 7, Pg 133-153), published 07 February 2023.
  13. Dewhare, S.S., **Chandrawanshi, N. K.**, Verma, S., Soni, S. and Mahish, P.K. (2023) Extraction, production and encapsulation of essential oils. In *Essential Oils: Sources, Production and Applications*. Edited by R.C. Padalia , D. K. Verma , C. Arora and P.K. Mahish and published by Walter de Gruyter GmbH & Co KG DE-GRUYTER.



- <https://doi.org/10.1515/9783110791600-006>, (Ch 6, Pg 121-131), published 07 February 2023.
14. Verma, S., Soni, S., **Chandrawanshi, N. K.** and Dewhare, S.S. (2023) Sources and Raw Materials of Essential Oils. In *Essential Oils: Sources, Production and Applications*. Edited by R.C. Padalia, D. K. Verma, C. Arora and P.K. Mahish and published by Walter de Gruyter GmbH & Co KG DE-GRUYTER. <https://doi.org/10.1515/9783110791600-003>, (Ch 3, Pg 47-64), published 07 February 2023.
  15. Kumar, A. Banjara, R.A., Aneshwari, R.K. & **Chandrawanshi, N. K.** (2022) Microbial Endophytes of Medicinal Plants as an Emerging Bioresource for Novel Therapeutic Compounds. In *Microbial Products Applications and Translational Trends*. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003306931-17/microbial-endophytes-medicinal-plants-emerging-bioresource-novel-therapeutic-compounds>. Published by CRC, Edited by Mamtesh Singh, Gajendra Pratap Singh, Shivani Tyagi, EISBN: 9781003306931. (Ch15, Pg 235-248), published 22 October 2022.
  16. Kosre, A., Deepali, Kumar, A. & **Chandrawanshi, N. K.** (2022) Production of Microbial enzymes using Spent Mushroom Compost (SMC) and its application. In *Microbial Products, Applications and Translational Trends*. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003306931-10/production-microbial-enzyme>. Edited by Mamtesh Singh, Gajendra Pratap Singh, Shivani Tyagi, Published by CRC, EISBN: 9781003306931. (Ch09, Pg 109-118), published 22 October 2022.
  17. Koreti, D., Kosre, A., Kumar, A., Jadhav, SK & **Chandrawanshi, N.K.** (2022). Potential Application of Edible Mushrooms in Nutrition-Medical Sector and Baking Industries. In: Shukla, A.C. (eds), In *Applied Mycology, Fungal Biology*. Springer, Cham. Pg 203–231, [https://doi.org/10.1007/978-3-030-90649-8\\_10](https://doi.org/10.1007/978-3-030-90649-8_10), published 27 April 2022.
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### **Brief Review of the Research Contributions and Future Prospects:**

As a dedicated biotechnology researcher and educator, I have focused on conserving pharmaceutically valuable and endangered medicinal plants, particularly *Gloriosa superba* (Glory Lily), known for its anticancer properties. My research includes developing *in vitro* conservation and microtuberization methods, analyzing colchicine content, and advancing protocols for plant conservation. As a faculty member, I teach Genetics, Molecular Biology, Immunology, and Animal Biotechnology at the M.Sc. level, integrating both theoretical and practical approaches. My laboratory specializes in the propagation and conservation of medicinal plants and mushrooms, with ongoing projects to enhance metabolite production, fortify edible mushrooms as functional foods, and identify bioactive compounds with pharmaceutical potential. My work bridges conservation, sustainable agriculture, and biotechnology to address critical health and food security challenges.

**Nagendra Kumar Chandrawanshi**  
**August 2025**