

CURRICULUM VITAE



Name : **Dr. Ashish Kumar**
Designation : Associate Professor
Address for Correspondence : Department of Biotechnology
Guru Ghasidas Vishwavidyalaya Bilaspur
Chhattisgarh, INDIA, 495 009
Email : banjaraashish@gmail.com
Mobile No. : + 91 9826 571 709

Research Interests

- Conservation of endangered plant species
- Development of novel species-specific signature DNA barcodes for the detection of adulterants in herbal products of medicinal plant species
- Molecular Breeding, Gene Pyramiding for the development of biotic and abiotic stresses tolerance horticultural crops
- Plant Genetic Engineering and CRISPR-Cas9 mediated targeted genome editing for the improvement and protection of crop plants

Research Publications

- a) **Research papers published/accepted** : **26 (International 17 & National 09)**
- b) **Book authored / edited** : **02 and 01 in the pipeline**
- c) **Book chapter published / accepted** : **18**
- d) **Patent grant / publication** : **02**
- e) **Newsletter** : **02**
- Total Publication** : **50**
- **Experience: Teaching** (Postgraduate): 09 years, **Research** (including Ph.D.): 16 years
- **Research Supervision:** PG Dissertation: 32, and Ph.D. (Biotechnology): 02
- **Sponsored Research Project Completed: 01, Project Under Consideration: 02** (CG-COST, Science and Engineering Research Board (SERB), DBT, New Delhi)
- **Grant Received to Organize Conference / Workshop/ Training: 05** (CG-COST, NAAC, and NISD, Ministry of Social Justice & Empowerment, New Delhi)
- **Evaluation of Research Project Proposals from Funding Agencies: 08** (SERB/CG-COST)
- **Evaluation of Travel Grant Proposals from Funding Agencies: 02** (CG-COST)
- **Award / Honors: 09** (from Ministry of Agriculture and Rural Development, Agricultural Research Organization, The Volcani Centre, Govt. of Israel, UGC, IASc-INSANA-INSI India Microbiologist Society of India, and M. P. Council of Science & Technology, Bhopal)
- **Invited Lecture Delivered /Resource Person: 11, Radio/TV Talk: 04**
- **Conferences Session Chaired: 03**
- **Course/ Training School Attended: 10**
- **Seminar/Conferences/Workshop Organised : 08, Attended : 18**
- **Country Visited:** Israel

Academic Qualifications

S. No.	Academic Degree	Division	Year
1	Postdoctoral Studies: Institute of Plant Sciences, The Volcani Center, Agricultural Research Organization (ARO), Bet Dagan, Israel. Topic: CRISPR-Cas9 mediated targeted genome engineering for Geminivirus Israeli strain resistance tomato.	--	2014
2	Ph.D. (Doctoral): School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, INDIA Topic: Gene pyramiding for the development of leaf curl virus (ToLCV) resistant tomato (<i>Solanum lycopersicum</i> L.).	--	2011
3	M.Sc. (Biotechnology): School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, INDIA.	1 st Division	2006
4	B.Sc. (Biology) : Govt. Digvijay Autonomous College, Rajnandgaon, Chhattisgarh, INDIA	1 st Division	2004

Additional Qualifications

- ◆ Qualified **CSIR/UGC-NET** conducted by Council of Scientific and Industrial Research **Life Sciences with All India Rank 54/1101**
- ◆ Qualified **GATE** conducted by the Indian Institute of Technology in **Life Sciences**
- ◆ **NCC 'C'** Certificate of **Army Wing**

Position Held

1. Associate Professor , Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, INDIA	23/02/2023 to Continue
2. Assistant Professor , Department of Biotechnology, Sant Gahira Guru Vishwavidyalaya Sarguja, Ambikapur Chhattisgarh, INDIA	18/07/2014 to 22/02/2023
3. Visiting Scientist , Department of Vegetable Research, Institute of Plant Sciences, The Volcani Center, Bet Dagan, Agricultural Research Organization (ARO), Ministry of Agriculture and Rural Development, Agricultural Research Organization, Govt. of ISRAEL	2013-14
4. Post Doctoral Research Associate , Division of Crop Sciences, Central Research Institute for Dryland Agriculture, (CRIDA), ICAR, Hyderabad, Andhra Pradesh, Govt. of INDIA	2011-13
5. Senior Research Fellow , Division of Crop Improvement, Indian Institute of Vegetable Research, ICAR, Varanasi, Uttar Pradesh, Govt. of INDIA	2006-09

Previous Academic/Administrative Responsibilities

1. **Head, Department of Biotechnology**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA.
2. **Chairman for monitoring Ph.D. research activities in colleges affiliated to Sant Gahira Guru Vishwavidyalaya**, Sarguja Ambikapur, Chhattisgarh, INDIA.

3. **Director/Coordinator, University IQAC & NAAC**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA.
4. **Chairman & Nodal Officer, for coordination and execution of research activities between the State Planning Commission**, Chhattisgarh, and Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh.
5. **Coordinator, for making consultancy policy** of Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA.
6. **Chairman, Biotechnology Board of Studies**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA (05/11/2014 to 22/02/2023)
7. **Coordinator, University SC/ST Cell**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA (2018 to 2023).
8. **Coordinator: Research Cell**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA (2021 to 2023).
9. **Member, Academic Council**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA (05/11/2014 to 23/02/2023).
10. **Member, Central Biotechnology Board of Studies**, Higher Education Dept., Govt. of Chhattisgarh.

Previous Additional Academic/Administrative Responsibilities

1. **Centre Superintendent** for Semester Examination in UTD of Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA. 2023
2. **Officer on Special Duty, Academic Department**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA. 2022
3. **Member**, Admission Committee, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA. 2020
4. **Member**, IT. Cell for making audio-video lectures for Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh. 2020
5. **Member**, Admission Committee, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA. 2020
6. **Coordinator/Nodal Officer** (During COVID-19 Lockdown) Higher Education Dept. Govt. of Chhattisgarh for preparation of audio, and video lectures for postgraduate Biotechnology students of Sarguja zone Chhattisgarh. 2019
7. **Member**, Governing Body, Veena Kanya Mahavidyalaya, Vishrampur, Distt. Surajpur, Chhattisgarh. 2019 to 21
8. **Coordinator**, (university level) for cleanliness inspection to be inspected by the committee constituted by UGC, New Delhi, on 3rd September 2019. 2019
9. **Member**, IQAC and NAAC core committee, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA 2017. 2017
10. **Nodal Officer**, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, Ambikapur, for participation in the 20th National Youth Festival (Youth Parliament) organized on 15/01/2016 at Naya Raipur, Chhattisgarh. 2016
11. **Member**, Flying Squad, Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA, Annual Examination, 2014-15, 2015-16, and 2016-17. 2015 & 16
12. **Member**, Prospectus Committee Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA, for admission in Academic Year 2015. 2015
13. **Coordinator**, Student Welfare, Sant Gahira Guru Vishwavidyalaya, Sarguja 2014

- Ambikapur, Chhattisgarh, INDIA (25/08/2014 to Continuing). to 2023
14. **Member**, Student Union Election, Sant Gahira Guru Vishwavidyalaya, Sarguja 2014
Ambikapur, Chhattisgarh, INDIA.

Selection Committee

1. **Subject Expert:** for selection of Assistant Professor, Subject Biotechnology, 2022
and Microbiology under statute 28 of UGC in Shree Sai Baba Adarsh
Mahavidyalaya, Ambikapur, affiliated to Sant Gahira Guru Vishwavidyalaya,
Sarguja Ambikapur, Chhattisgarh, INDIA.
2. **Subject Expert:** for selection of Assistant Professor, Subject Biotechnology, 2022
and Microbiology under statute 28 of UGC in Holy Cross Women's College,
Ambikapur, affiliated to Sant Gahira Guru Vishwavidyalaya, Sarguja
Ambikapur, Chhattisgarh, INDIA.
3. **Member** selection committee for selection of Guest Faculty, Subject- 2021
Biotechnology, Dept. of Biotechnology, Sant Gahira Guru Vishwavidyalaya,
Sarguja Ambikapur, Chhattisgarh, INDIA.
4. **Member** selection committee for selection of Guest Faculty, Subject- 2019
Biotechnology, Dept. of Biotechnology, Sant Gahira Guru Vishwavidyalaya,
Sarguja Ambikapur, Chhattisgarh, INDIA.
5. **Member** selection committee for selection of Guest Faculty, Subject- 2018
Computer Science, Dept. of Computer Science, Sant Gahira Guru
Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA.
6. **Subject Expert** for selection of Assistant Professor, Subject Biotechnology 2018
under statute 28 of UGC in Holy Cross Women's College Ambikapur, affiliated to
Sant Gahira Guru Vishwavidyalaya, Sarguja Ambikapur, Chhattisgarh, INDIA.
7. **Member** selection committee for selection of Guest Faculty, Subject- 2018
Biotechnology, Dept. of Biotechnology, Sant Gahira Guru Vishwavidyalaya,
Sarguja Ambikapur, Chhattisgarh, INDIA.
8. **Member** selection committee for selection of Guest Faculty, Subject- 2017
Biotechnology, Dept. of Biotechnology, Sant Gahira Guru Vishwavidyalaya,
Sarguja Ambikapur, Chhattisgarh, INDIA.

Award / Honors

1. **Senior Scientist Award** by the Microbiologist Society of India (MBSI) 2020
2. **Satnam Anmol Ratna Award** by Guru Ghasida Astha Manch, Raipur, 2019
Chhattisgarh, India.
3. **Mentor:** M. P. Council of Science & Technology, Bhopal sponsored 2019
Fellowship for Training of Young Scientist (FTYS) Ms. Nilofar Shaikh, Ph.D.
Scholar, School of Studies in Botany, Vikram University, Ujjain, M.P. India.
4. **Mentor:** M. P. Council of Science & Technology, Bhopal sponsored 2019
Fellowship for Training of Young Scientist (FTYS) Mr. Rakesh Purbiya, Ph.D.
Scholar, School of Studies in Botany, Vikram University, Ujjain, M.P. India.
5. Science Academies **Summer Research Fellowship** IASc-INSA-NASI India 2018
6. **Letter of Appreciation** for the year 2018 for excellence in teaching and 2018
University Administration in Sant Gahira Guru Vishwavidyalaya, Sarguja
Ambikapur, Chhattisgarh, India.
7. **PBC Postdoctoral Fellowship of Israel-** The Planning and Budgeting 2013

Committee (PBC) Postdoctoral Fellowships for outstanding Postdoctoral Fellows from China and India-2013/2014, **awarded by the Ministry of Agriculture and Rural Development, Agricultural Research Organization, The Volcani Centre, Israel.**

8. **Post-Doctoral Fellowship** (Stream- Plant Biotechnology) for the year 2011- 2011
2012 awarded by University Grants Commission (UGC), New Delhi, India.
9. **Rajiv Gandhi National Doctoral Fellowship** (for Ph. D. in Biotechnology) 2009
awarded by University Grants Commission (UGC), New Delhi, INDIA.

Fellowship/Membership of Scientific Societies

1. Fellow Member, International Society of Biotechnology, Indore, INDIA
2. Life Member, Microbiologists Society India
3. Life Member, Medicinal & Aromatic Plants Association, Anand, INDIA
4. Member of European Federation, Biotechnology, Barcelona, SPAIN
5. Postdoc Fellow Member Canadian Society of Plant Biologists, Ottawa, CANADA

Reviewer/Reviewed Research Papers from Journals

1. Indian Journal of Biotechnology
2. British Journal of Biotechnology
3. Phytopathology
4. Journal of Genetics
5. The Plant Pathology Journal
6. Virus Disease

Radio/TV Talk

1. **'Medicinal Importance of Kalmegh'** 10-minute talk, All India Radio, Ambikapur, Chhattisgarh, India.
2. **'Research on Kalmegh in Sarguja Zone of Chhattisgarh'** India IBC-24.
3. **'Biodiversity and its Importance** on International Biodiversity Day 2017' 10-minute talk, All India Radio, Ambikapur, Chhattisgarh, India.
4. **Importance of Organic Food and GMOs** 10-minute talk, All India Radio, Ambikapur, Chhattisgarh, India.

Invited Lecture/Resource Person

1. Invited lecture on the topic **'Patent Basic Concepts, Case Studies & its Importance'** on 11th February, 2023 at Govt. RMD Girls PG College, Ambikapur, District - Surguja, Chhattisgarh, India
2. Keynote speaker on the topic **'Career in Life Science and Advancement in Science'** on 16th December, 2022 at Shree Sai Baba Adarsh Mahavidyalaya, Ambikapur, District - Surguja, Chhattisgarh, India
3. Keynote speaker on the topic **'Molecular Marker and Their Application in Plant Science'** in the conference Recent Trends of Microbiology and Biotechnology, held from 16-18 November, 2022 organized by the Department of Microbiology & Biotechnology Holy Cross Women's College Ambikapur, Chhattisgarh, India
4. Invited lecture on the **'Use of Statistics in Research work'** in the Pre Ph.D. course work, on 16th July, 2022 held at Govt. RMD Girls PG College, Ambikapur, Chhattisgarh, India
5. Invited lecture on the topic **'Prevention & Control of Pandemic COVID-19'** on 28th April 2021 organized by Ek Bharat Shrestha Bharat Club, UTD, Sant Gahira Guru Vishwavidyalaya, Surguja, Ambikapur, Chhattisgarh, India

6. Invited lecture on the topic '**Bioresources Exploration and Conservation for Human Welfare**' on 5th June 2021, organized by National Service Scheme of Arun Pratap Singhdeo Govt. College, Shankargarh, District- Balrampur, Chhattisgarh
7. Invited lecture on the topic '**COVID-19 Diagnosis and Vaccine Defence Mechanism**' on 8th May 2021, organized by National Service Scheme of Govt. College Sanawal, District - Balrampur, Chhattisgarh, India
8. Invited lecture as a subject expert on the topic '**Career opportunities in Science Subjects**' on 10th December 2021, organized by IQAC and National Service Scheme of Govt. College Sanawal, District - Balrampur, Chhattisgarh, India
9. Invited lecture on the topic '**Current Research and Future Scope in Microbiology and Biotechnology**' on 8th February 2020 in Seminar jointly organized by the Department of Microbiology and Biotechnology, Loyola College, Kunkuri, District - Jashpur, Chhattisgarh, India
10. DST Inspire lecture as **Mentor** on the topic '**Bioresources Exploration & Conservation for Human Welfare**' during **INSPIRE Internship Programme** held from 09-08-2019 to 13-08-2019 in Shree Sai Baba Adarsh Mahavidyalaya, Ambikapur, District - Surguja, Chhattisgarh, India
11. DST Inspire lecture on the topic '**Role of Biotechnology for Crop Improvement**' during **INSPIRE Internship Camp** held from 18-01-2017 to 22-01-2017 in Gurukul College Pathalgaon, District - Jashpur, Chhattisgarh, India

Conferences Session Chaired

1. **The Technical Session** of 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, from 07th January to 8th January 2022.
2. **The Technical Session of** the International Conference on Humanities, Science, and Technology-2022 organized by the Sant Gahira Guru Vishwavidyalaya Sarguja, Ambikapur, Chhattisgarh from 21-23 September 2022.
3. **The Technical Session** of the 'National Seminar on Digital Identity, Cyber Security and Internet Trends' organized by the Department of Computer Science, Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, Chhattisgarh on 15th March 2019.

Sponsored Research Project Completed

S. No.	Project Title	Funding Agency	Grant Sanctioned	PI/ Co-PI	Year
1	Evaluation and Identification of Elite Kalmegh Genotypes with High Andrographolide Content from Northern Hills of Chhattisgarh	Chhattisgarh Council of Science and Technology, Raipur, [CG]	INR 5,00,000	PI	2021

Sponsored Research Projects Under Consideration

S. No.	Project Title	Funding Agency	Grant Proposed	PI/ Co-PI	Year
1	Evaluation of snake anti-venom potential of	SERB- New Delhi	29,78,800 INR	PI	2022

ethnomedicinal plants used by the local healers for snakebite treatment in Chhattisgarh, India SUR/2022/004866				
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Grant Received to Organize a Conference / Workshop/ Training

S. No.	Programme detail/ purpose	Funding Agency	Grant Received	PI/ Co-PI	Year
1	Celebration of 02 days National Seminar cum National Science Day-2020	Chhattisgarh Council of Science and Technology Raipur, Chhattisgarh, India	INR 40,000	Convener	2020
2	To organize a workshop on Drug Abuse Prevention	National Institute of Social Defense, Ministry of Social Justice & Empowerment, Govt. of India, New Delhi	INR 60,000	Convener	2020
3	Celebration of 02 days National Science Day-2019	Chhattisgarh Council of Science and Technology Raipur, Chhattisgarh, India	INR 40,000	Convener	2019
4	Celebration of 02 days National Science Day-2023	Chhattisgarh Council of Science and Technology Raipur, Chhattisgarh, India	INR 40,000	Convener	2023

Patent Published/Accepted

- Title of the invention : Extraction of Bioactive Compounds from Plant Material, Name of Applicants :** 1) Veeresh Halemane, 2) Ashish Kumar, 3) Shrestha Sharma, 4) Chandra Mohan, 5) Anwasha Das, 6) Vinod Kumar, and 7) Manish Upadhyay. Application No.202241007317 A, Publication Date : 18/02/2022, No. of Pages : 13 from 9442, No. of Claims : 5, The Patent Office Journal No. 07/2022 Dated 18/02/2022.
- Title of the invention : Invented a New design of a Portable Water Purification Device,** Application No.356995-001, CBR No. 212336 Examination Report has been Generated, Case is Waiting for Examination Report Reply (FER generated on 11/02/2022).

Research Papers Published/Accepted (Corresponding author-*)

- Datta D, **Ashish Kumar**, Prasanna HC, Saritha RK, Kumar S, Singh M, Kumar A, Rai AB, Rai M, Validation of CAPs marker associated with ToLCV resistance gene *Ty-2* in parental lines of tomato. **Vegetable Science**, 2009a, 36(2): 200-202 [NAAS Journal Rating: 3.7/10].
- Datta D, **Ashish Kumar**, Prasanna HC, Kumar S, Rai AB, Rai M, Development of tomato (*Solanum lycopersicum*) lines with ToLCV resistance gene and their authentication through the molecular marker. **Vegetable Science**, 2009b, 36(3): 380-381 [NAAS Journal Rating: 3.7/10].

3. Rai N, **Ashish Kumar***, Singh PK, Singh M, Datta D, Rai M. Genetic relationship among Hyacinth bean (*Lablab purpureus*) genotypes cultivars from different races based on quantitative traits and random amplified polymorphic DNA marker. ***African Journal of Biotechnology***, 2010, **9**(2): 137-144 [**Impact Factor: 0.65, NAAS Journal Rating: 7/10**].
4. Mishra KK, **Ashish Kumar***, Pandey KK, RAPD based genetic diversity among different isolates of *Fusarium oxysporum* f. sp. *lycopersici* and their comparative biocontrol. ***World Journal of Microbiology and Biotechnology***, 2011, **26**: 1079-1085 [**Impact Factor: 3.31, NAAS Journal Rating: 7.5/10**].
5. Tiwari KL, Jadhav SK, **Ashish Kumar** Random amplified polymorphic DNA (RAPD) molecular marker-based genetic relationship study of medicinal plants of the tribal region of Chhattisgarh, India. ***Research Journal of Biotechnology***, 2011, **6**(3): 63-66 [**Impact Factor: 0.284, NAAS Journal Rating: 6.6/10**].
6. **Ashish Kumar***, Tiwari KL, Jadhav SK, Singh M, Datta D, SSR polymorphism among ToLCV resistant and susceptible lines for genotype identification and F₁ purity, ***Journal of Plant Science Research***, 2011, **27**(2): 199-205 [**NAAS Journal Rating: 4/10**].
7. **Ashish Kumar***, Tiwari KL, Jadhav SK, Patra PK, Estimation of Serum Adenosine Deaminase Enzyme: A New Tool for Diagnosis of Acute Upper Respiratory Tract Infection (URI). ***Global Journal of Biotechnology & Biochemistry***, 2012, **7**(2): 61-63 [**ISI Journal**].
8. Datta D, Prashar M, Bhardwaj SC, Singh S, Das SP, **Ashish Kumar**, Deciphering the genetic basis of stripe rust resistance of exotic winter wheat cultivars and their utilization in pre-breeding. ***African Journal of Agricultural Research***, 2012, **7**(49): 6544-6549 [**Impact Factor: 0.5, NAAS Journal Rating: 6/10**].
9. Singh PK, **Ashish Kumar***, Rai N, Singh DV, Identification of host plant resistance to Dolichos yellow mosaic virus (DYMV) in Indian bean (*Lablab purpureus* L.). ***Journal of Plant Pathology and Microbiology***, 2012, **3**(5): 130 [**Impact Factor: 0.42, Index Copernicus Value: 4.54/10**].
10. **Ashish Kumar**, Rakshit A, Manglipelli NK, Vijayalakshmi T, Varalaxmi Y, Singh J, Vanaja M, Yadav SK, Venkateswarlu B, Maheswari M, Genetic diversity of maize genotypes on the basis of morpho-physiological and SSR markers. ***African Journal of Biotechnology***, 2012, **11**(99): 16268-16477 [**Impact Factor: 0.65, NAAS Journal Rating: 6/10**].
11. **Ashish Kumar***, Singh PK, Rai N, Bhaskar GP. Datta D. Genetic diversity of French bean (*Phaseolus vulgaris* L.) genotypes on the basis of morphological traits and molecular markers. ***Indian Journal of Biotechnology***, 2014, **13**: 207-213, 2014 [**Impact Factor: 0.5, NAAS Journal Rating: 6.6/10**].
12. Swapna Priya E, Sunil G, Shivaiah K, Anil G, **Ashish Kumar**, Extent of heavy metal contamination in leafy vegetables, soil, and water from surrounding of Musi River, Hyderabad, India. ***Journal of Industrial Pollution Control***, 2014, **30**(2): 267-271 [**NAAS Journal Rating: 4.6/10**].

13. **Ashish Kumar***, Tiwari KL, Datta D, Singh M, Marker assisted gene pyramiding for enhanced *Tomato leaf curl virus* disease resistance in tomato cultivars. ***Biologia Plantarum***, 2014, 58(4): 792-797 [Impact Factor: 1.8, NAAS Journal Rating: 7.6/10].
14. Maheswari M, Vijaya Lakshmi T, Varalaxmi Y, Sarkar B, Yadav SK, Singh J, Seshu B, **Ashish Kumar**, Amirineni S, Jyothilakshmi N, Vanaja M, Functional mechanisms of drought tolerance in maize through phenotyping and genotyping under well-watered and water-stressed conditions. ***European Journal of Agronomy***, 2016, 79: 43-57 [Impact Factor: 5.18, NAAS Journal Rating: 8.0/10].
15. **Ashish Kumar***, Datta D, Pandey S, Singh SK, Das SP, Inheritance and tagging of *Tomato leaf curl virus* disease (ToLCVD) resistance genes in exotic tomato genotypes. ***Indian Journal of Biotechnology***, 2018, 17: 357-363 [Impact Factor: 0.5, NAAS Journal Rating: 7.0/10].
16. Panda AK, Mishra R, **Ashish Kumar**, Kerketta A, Soni N, Seed storage protein evaluation of few rice varieties used by tribal people of Chhattisgarh. ***Journal of Rice Research***, 2018, 11(2): 31-35.
17. Panda AK, Mishra, R, Bisht SS, **Ashish Kumar**, Kerketta A, Technical Advances in Commercial Forestry, ***Proceedings of the National Academy of Sciences, India (NASI) Section B: Biological Sciences***, 2019, 8(33) 1-8 [Impact Factor: 0.4, NAAS Journal Rating: 7.0/10].
18. **Ashish Kumar***, Yadav DK, Rijwan Ulla, The roles of arbuscular mycorrhizal fungi (AMF) on plant growth promotion and photosynthetic pigments in *Vigna radiata* L. ***Mycopath***, 2020, 18(2): 77-83.
19. **Ashish Kumar***, Kumar P, Rijwan Ulla Impact of mycorrhizal fungus *Glomus mosseae* on plant growth and photosynthetic pigments in black gram. ***Mycopath***, 2021, 19(1): 77-83.
20. Aneshwari RK, **Ashish Kumar**, Kujur A, Sahu AK, Jain V, Random amplified polymorphic DNA (RAPD) molecular marker Based genetic analysis of *Alocasia indica* and *Tephrosia perpurea*. ***Int. Journal of Biology, Pharmacy and Allied Sciences***, 2022, 11(4), 1673-1683.
21. Aneshwari RK, Yadav K, Banjara RA, **Ashish Kumar**, Kujur A, Jain V, Standardization and comparative evaluation of phytochemical content and antioxidant activity of *Alocasia indica* and *Tephrosia purpurea*. ***Int. Journal of Health Sciences***, 2022, 6(S2), 2241-2251.
22. Tiwari JK, Ameen G., Sandilya VK, Ashish Kumar, Singh AK., (2022) Effect of IBA on root development and associated biochemical changes in single- and double-node stem-cuttings of spine gourd, ***Vegetable Science***, 2022, 49(1), 33-40.
23. Panda AK, Bisht SS, Lakra S, **Ashish Kumar**, Kerketta K, Mishra R, Panda KK, Kerketta S, Folklore use of wild fruits by the Oraon tribe of Sarguja district of Chhattisgarh, India. ***Ethnobotany Research and Applications***, 2022, 24, 1-6
24. Ameen G, Prakash V, Ram N, Sandilya VK, **Ashish Kumar**, Tiwari JK, Standardization of protocol for genomic DNA extraction and microsatellite marker

(SSR, ISSR) analysis in spine gourd (*Momordica dioica*). **Current Horticulture**, 2022, 10 (2), 38-40.

25. Sinha P, **Ashish Kumar**, Singh AK Morphological and cultural variability among *Colletotrichum* spp. isolated from different host, **The Pharma Innovation Journal** 2022; 11 (9), 121-125
26. **Ashish Kumar***, Bhupendra Singh Paikra, Junaid Khan. A review of recent advances in snake anti-venom potential of ethnomedicinal plants and their phytoconstituents. Under Review **Journal of Ethnopharmacology**.

Newsletter/Personal News

1. Amrita Kumari Panda, **Ashish Kumar**, Kerketta, A., and Bisht, S.S. Lalji Singh (1947–2017) **Current Science**, 115 (3) 568-569, 2018.

Books Authored/Edited

- 1 **Ashish Kumar**, Book Title: **Advanced Forensic Biotechnology** (Vol-1), Publisher: *AkiNik Publications*, New Delhi, **ISBN 978-93-91538-42-2**, publication year 2021.
- 2 Borakar LN, **Ashish Kumar**, Sainkhediya J, Linthoingambi Y, **Book Title: Advances in Plant Science** (Vol-II), Publisher: Bhumi Publishing Kolhapur, Maharashtra. **ISBN: 978-93-91768-50-8**, publication year 2022.
- 3 Ashish Kumar, Dutta J, Mukherjee P, Title: **'Multidimensional Applications of Fungal Root Symbionts (VAM) in Agriculture and Environmental Welfare'** Publisher: Taylor & Francis Group, USA. (In pipeline; 2023).

Book Chapter Published/Accepted

- 1 Dibendu Datta, **Ashish Kumar**, Sinha DP. (2014) Introduction to Molecular Markers and Marker-Assisted Selection In: *Olericulture Fundamentals of Vegetable Production*. **Kalyani Publication, New Delhi, India, ISBN: 978-93-273-3738-2**, Chapter 25, Pp. 445-453.
- 2 **Ashish Kumar (2019)** Advanced Biotechnological Approaches for Drought Stress Management in Maize (*Zea mays* L.). In: *Advances in Genetics and Plant Breeding* (Vol. 06). **AkiNik Publications, New Delhi, India, ISBN: 978-93-5335-817-4**, Chapter 08, Pp.117-136.
- 3 Sahu MK, **Ashish Kumar (2021)** DNA Technology: A Potential Tool in Forensic Science In: *Advanced Forensic Biotechnology* (Vol. 01), **AkiNik Publications, New Delhi, India, ISBN 978-93-91538-42-2**, Chapter 05, Pp. 103-117.
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- 11 Koreti D, Kosre A, Ashish Kumar, Jadhav SK, Chandrawanshi NK, (2022) **Potential Application of Edible Mushrooms in Nutrition-Medical Sector and Baking Industries**. In: Shukla, A.C. (eds) *Applied Mycology: Fungal Biology*. Springer, Cham. ISBN 978-3-030-90648-1, Chapter 10, Pp 203-231 <https://doi.org/10.1007/978-3-030-90649-810>.
- 12 Kosre A, Koreti D, **Ashish Kumar**, Chandrawanshi NK, (2022) **Production of Microbial enzymes using Spent Mushroom Compost (SMC) and its application**. In: *Microbial products: Applications and Translational Trends*. In : *Microbial Products: Applications and Translational Trends*. CRC Press, Taylor & Francis Group, USA. eBookISBN: 9781003306931, Chapter 9.
- 13 **Ashish Kumar**, Banjara RA, Aneshwari RK, Chandrawanshi NK, (2022). **Microbial Endophytes of Medicinal Plants as Emerging Bioresource for Novel Therapeutic Compounds**. In : *Microbial Products: Applications and Translational Trends*. CRC Press, Taylor & Francis Group, USA. eBookISBN: 9781003306931, Chapter 15.
- 14 Agrawal S, Dutta D, **Ashish Kumar**, Sen T, Deb T. (2022) **Plastic pollution during Covid19 pandemic: A disaster in the Making**. In: *The Route Towards Global Sustainability- Challenges and Management Practices* (pp.333-366). Springer Cham. https://doi.org/10.1007/978-3-031-10437-4_17.
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- 17 Mukherjee P, Roy M, Dutta J, **Ashish Kumar**, Harsh NSK, Mitra A, (2022) **Emerging trends and prospects of microbial exopolymers as agents of bioremediation and biostimulant for sustainable agriculture**. In: *Microbial Products: Applications and Translational Trends*. to be published by CRC Press, Taylor & Francis Group, USA. Chapter accepted -2022.
- 18 **Ashish Kumar**, Banjara RA, Dutta J, Chandrawanshi NK (2022) **Enzymatic Systems for Waste Water Treatment Recent Advances and Future Challenges**. In: *Microbes and Enzymes for Water Treatment and Remediation*." to be published by CRC Press, Taylor & Francis Group USA. Chapter accepted -2022.

Course/ Training School Attended

- 1 **Refresher Course on Botany** held from 27/05/2016 to 16/06/2016 organized by UGC, Human Resource Development Centre, Guru Ghasidas Central University, Bilaspur, Chhattisgarh, India.
- 2 **Summer School on "Micropropagation Techniques and Physiological, Biochemical and Molecular Interventions for Sustainable Plant Production under Climate Change Scenario"** held from 06/09/2017 to 26/09/2017 sponsored by Indian Council of Agricultural Research (ICAR) - New Delhi and organized by Dept. of Plant Physiology, Institute of Agricultural Sciences, Banaras Hindu University (BHU), Varanasi, Uttar Pradesh, India.
- 3 **30th Orientation Course** held from 28/07/2020 to 17/08/2020 organized by UGC-Human Resource Development Centre, Mizoram University, Aizawl, India.
- 4 **One Week Faculty Development Programme on ICT Enhanced Teaching Learning and Creating MOOCs** held from 18/08/2020 to 25/08/2020 organized by Teaching Learning Centre, **Ramanujan College, the University of Delhi** in collaboration with IQAC Shivaji College, Delhi University, under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
- 5 **Two-week faculty development Programme on Research Methodology** held from 01/10/2020 to 15/10/2020 organized by Teaching Learning Centre, **Ramanujan College, the University of Delhi** under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
- 6 **UGC STRIDE Workshop on "Molecular Phylogeny and Molecular Docking"** held from 19/01/2021 to 27/01/2021 organized by the Mizoram University, Aizawl, Mizoram, India.
- 7 Faculty Development Programme (FDP) on '**Advances in Bioinformatics**' from 10th – 15th May 2021 organized by the Dept. of Biotechnology, Electronics & ICT Academy, National Institute of Technology (NIT), Warangal (Sponsored by Ministry of Electronics and Information Technology (MEITY), GoI, National Institute of Technology, Warangal, Telangana State, India.

- 8 Five Days Lead Auditor Course on “**Environment Management System, Green Campus Audit and Energy Audit**” from 31st July - 4th Jun 2021 by Nature Science Foundation, Coimbatore, Tamil Nadu, India.
- 9 Faculty Development Programme (FDP) on ‘**Recent Developments in Computational Biology**’ from 21st February – 2nd March 2022 organized by by the Dept. of Biotechnology, Electronics & ICT Academy, National Institute of Technology (NIT), Warangal (Sponsored by Ministry of Electronics and Information Technology (MEITY), Gol, National Institute of Technology, Warangal, Telangana State, India.
- 10 **Refresher Course on Life Sciences (interdisciplinary)** held from 22/08/2022 to 05/09/2022 organized by UGC, Human Resource Development Centre, Guru Ghasidas Central University, Bilaspur, Chhattisgarh, India.

Conferences/Training/Workshop Organized

- 1 **Convener** for One week of National Science Day Celebration 2018 on the theme “**Science and Technology for a Sustainable Future**” held at the Department of Biotechnology, Sarguja University, Ambikapur, Chhattisgarh from 21st to 28th February 2018.
- 2 **Organizing Secretary** for one day national seminar on the **Role of IQAC in Higher Education Sponsored by RUSA** (Rashtriya Uchcharat Shiksha Abhiyan) at Sarguja University, Ambikapur, Chhattisgarh, India.
- 3 **Convener** for Chhattisgarh Council of Science & Technology (CG-COST) Raipur, Chhattisgarh sponsored 02 Days National Science Day Celebration 2019 on the theme “**Communicating Science for All**” organized by the Department of Biotechnology, Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, Chhattisgarh from 28th February to 01 March 2019.
- 4 **Organizing Secretary** for one day National Seminar on ‘**Digital Identity, Cyber Security and Internet Trends**’ organized by the Department of Computer Science, Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, on 15/03/ 2019.
- 5 **Co-coordinator, NAAC, Bangalore sponsored "NAAC Awareness Programme on Quality Assessment and Accreditation"** organized by the IQAC, Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, Chhattisgarh on 30th August 2019.
- 6 **Convener** for Chhattisgarh Council of Science & Technology (CG-COST) Raipur, Chhattisgarh sponsored 02 **National Seminar cum National Science Days 2020** on the theme “**Women in Science**” organized by the Department of Biotechnology, Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, Chhattisgarh from 3rd March to 04th March 2020.
- 7 **02 Days NAAC e-Workshop** (During lockdown) organized by IQAC, Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, Chhattisgarh from 28- 29 May, 2021.
- 8 **01 Day NAAC Workshop** organized by IQAC Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, Chhattisgarh on 12/07/2022.

Seminar/Conferences/ Workshop/ Training Attended

1. **National Symposium on Bioresources: Technology and Prospects Conference on Biodiversity**, held from 18-19th March 2007, at the Department of Botany, Govt. Science Post Graduate College, Bilaspur, Chhattisgarh, India

2. **5th World Congress of Cellular and Molecular Biology** held from 2nd - 6th, November 2009, at the School of Biotechnology, Devi Ahilya University, Indore, Madhya Pradesh, India, with the collaboration of the World Society of Cellular and Molecular Biology, France.
3. Seminar on **Environmental Issues and Challenges**, 29th March 2010 organized by Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India.
4. **16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine** held from 19th - 21st November 2010 at the Department of Biotechnology & Environment Study Centre, Bapuji Institute of Engineering and Technology, Davangere, Karnataka, India.
5. **9th Chhattisgarh Young Scientist Congress**, 28th Feb. - 1st March 2011, at Bastar Vishwavidyalaya (Dharampura), Jagdalpur, Chhattisgarh, India.
6. **10th Chhattisgarh Young Scientist Congress**, held from 28 - 29th February 2012, at Sarguja Vishwavidyalaya, Ambikapur, Sarguja, Chhattisgarh, India.
7. UGC New Delhi, India sponsored a workshop on '**Recombinant DNA Technology- Cutting Edge in Life** held from 23rd - 24th Jan. 2013 at St. Ann's College for Women, Mehdipatnam, Hyderabad with the collaboration of DBT- Interdisciplinary Institute of Life Sciences for Advanced Research and Education, Osmania University, Hyderabad, Andhra Pradesh, India.
8. Workshop on **SPSS** on 19/07/2013 at Central Facility for Research and Development, Osmania University, Hyderabad, A.P., with the Collaboration of SPSS South Asia, Bangalore, Karnataka, India.
9. National Seminar on '**Good Governance, Global Justice and Human Rights** on 10/12/2014 at the Department of Legal Studies, Sarguja Vishwavidyalaya Ambikapur, Chhattisgarh, India.
10. National Seminar on **Innovations and Entrepreneurship in Biotechnology** held from 26 - 27th December 2016 at the Department of Biotechnology, Guru Ghasidas Vishwavidyalaya Bilaspur, Chhattisgarh, India.
11. National Seminar on **Role of IQAC in Higher Education** on 22/11/2017 at Sarguja Vishwavidyalaya Ambikapur, Chhattisgarh, sponsored by National Higher Education Mission, RUSA.
12. **88th annual Session of the Academy, National Academy of Science (NASI)** India and a symposium on **Science, Technology, and Ecosystem for Sustainable Rural Development**, held from 6-8 December 2018 at Mahatma Gandhi Chitrakoot Gramodaya, Vishwavidyalaya, Chitrakoot, Satna (MP) India.
13. **DBT (New Delhi) and GSBTM, Govt. of Gujarat** sponsored the National Seminar on "**Innovative Approaches in Plant Tissue Culture (IAPTC-2019)** held on 21st February 2019 at Shree M & N Virani Science College with Potential of Excellence by UGC and Star College Status by MST-DBT, Rajkot Gujrat, India.
14. **National Conference on Biotechnology and Sustainable Agriculture in doubling farmers income by 2022** held on 05 to 07 September 2019 at AKS University Satna, Madhya Pradesh, India.
15. National Seminar on Recent Trends in Environmental Issues held on 14/10/2019 at D.P. Vipra College, Bilaspur, Chhattisgarh, India.

16. Workshop on “**Design, Develop and Deliver Online Courses with Moodle Learning Management System**” on 30th April 2020 and 1st May 2020 organized by UGC-HRDC JNU, New Delhi.
17. **National Level e-short term course Virtual Tour on Genomics and Proteomics** held from 26th - 30th June 2020 organized by the Department of Zoology, Maharaja Bhoj Govt. PG. College Dhar, Madhya Pradesh, India.
18. **International Conference on Humanities, Science, and Technology -2022** organized by the Sant Gahira Guru Vishwavidyalaya Sarguja, Ambikapur, Chhattisgarh from 21-23 September 2022.

Research Guidance: Doctor of Philosophy (Ph.D.) in Biotechnology

S. No	Name of Student	Doctor of Philosophy (Ph.D.) Topic	Date of Registration
1	Mr. Aseem Kerketta	Isolation, Morphological and Molecular Characterization of Some Wild Mushrooms From Forests of Surguja Division and their Medicinal Properties	31/01/2022
2	Mr. Bijindra Sahu	Pursuing course work	--

Research Guidance: M.Sc. Dissertation (Awarded)

S. No	Name of Student	M.Sc. Dissertation Topic	Year
1.	Mr. Vivek Ku. Patel	Evaluation of the antifungal activity of <i>Acorus calamus</i> against phytopathogenic fungi	2016
2.	Ku. Deepika Kujur	Evaluation of the antibacterial activity of leaf and rhizome extract of <i>Acorus calamus</i>	2016
3.	Mr. Dharmendra Kumar Yadav	Study of Arbuscular Mycorrhizal Fungi (<i>Glomus mosseae</i>) on Growth, Chlorophyll and Root Profile of <i>Vigna radiate</i> L.	2017
4.	Mr. Pramod Kumar	Impact of Arbuscular Mycorrhizal Fungi <i>Glomus mosseae</i> on plant, root growth promotion, and Chlorophyll profile of <i>Vigna mungo</i> L.	2017
5.	Ms. Manisha Manikpuri	Assessment of the antifungal potential of methanol extract of <i>Acorus calamus</i> against some phytopathogenic fungi	2017
6.	Ms. Sampriiti Painkara	Evaluation of the antifungal potential of Kalmegh (<i>Andrographis paniculata</i>) against some phytopathogens	2017
7.	Mr. Vijay Kumar Vishwakarma	Evaluation of the antibacterial potential of methanol extract of <i>Acorus calamus</i>	2017
8.	Mr. Bhupendra Kumar	Effect of arbuscular mycorrhizal fungi <i>Glomus mosseae</i> on plant growth promotion, growth-related enzymes, and hormones in Mung Bean (<i>Vigna radiate</i> L.)	2018
9.	Ku. Urmila Sahu	Impact of hydro and osmopriming on seed germination and native protein content of Flex seed	2018
10.	Ku. Anupama	Impact of seed priming on seed germination and	2018

	Singh	viability of sesame seeds	
11.	Mr. Shashikant Chaube	Isolation and screening of antibiotic-producing actinomycetes from the wasteland	2018
12.	Md. Jiyaul Mustafa	Physio-biochemical characterization and Bioethanol production from buckwheat straw (<i>Fagopyrum esculentum</i>) collected from Mainpat, Surguja, Chhattisgarh	2019
13.	Mr. Abhishek Das	Impact of salt-priming on germination, seedling vigor, and native protein content of flax	2019
14.	Ms. Geeta Tigga	Impact of hormonal-priming on germination, seedling vigor, and native protein content of flax	2019
15.	Mr. Khagendra Singh	The effect of osmo-priming on germination and seedling biochemistry of flax	2019
16.	Mr. Jayshambhu Yadav	Comparative study of Andrographolide content in Kalmegh plant collected from Sarguja zone of Chhattisgarh State	2019
17.	Mr. Bajrang Dewangan	Review on identification and characterization of rhizobacteria from the bauxite mining area of Chhattisgarh, India	2020
18.	Mr. Naveen Verma	Review on biochemical and molecular identification techniques of edible mushrooms	2020
19.	Ms. Chhaya Tiwari	Review on the impact of seed priming on oilseed crops	2020
20.	Mrs. Jyoti Gupta	Potential roles of curcumin for the treatment of COVID-19	2021
21.	Ms. Sanjana Tiwari	Review on recent advances in the bioactive potential of microbial endophytes isolated from medicinal plants	2021
22.	Mr. Shailesh Patel	Recent advances in the promising phytochemicals of antiviral medicinal plants	2021
23.	Ms. Shubhi Gupta	<i>In silico</i> phylogenetic analysis of coat protein gene of geminivirus causing tomato leaf curl virus disease in India	2021
24.	Mr. Anuraj Chyala	Ethno-medicinal plants used by traditional healers of northern Chhattisgarh, India	2021
25.	Mr. Ajeet Thakur	Study of traditional leafy vegetables used by indigenous tribes of northern Chhattisgarh, Indian	2021
26.	Mr. Aman Kumar Singh	Development of a standard protocol for micropropagation of bamboo	2021
27.	Mr. Om Kumar Das	"Molecular Interaction of Some Plant Phytochemicals with Fatal Snake Venoms as Anti-dotes for Snakebite Treatment"	2022
28.	Mr. Subhash Yadav	Microscopic Studies of Soil Bacteria Isolated from Bauxite Mining area of Mainpath District Surguja, Chhattisgarh.	2022
29.	Mr. Manish Kumar	Phytochemical Analysis of some Ethnomedicinal	2022

		Plants used for Snakebite Treatment by Local Healers of Northern Chhattisgarh	
30.	Ms. Priya Singh	In Silico Phylogenetic Analysis of various Snake venom's protein	2022
31.	Ms. Aakanksha Shrivastava	“Physio-chemical Analysis of Different Pond Water of Ambikapur District Surguja, Chhattisgarh”	2022
32.	Ms. Usha Kanti Bunkar	Molecular docking study of phytochemicals of traditional antiviral plants used for the treatment of snakebite in Northern Chhattisgarh, India	2022
33.	Ku. Pratibha Yadav	Phytochemical Analysis of some Leafy Vegetable Plants of Northern Chhattisgarh	2022

Place: Bilaspur, Chhattisgarh India

Date: 1st March, 2023

[Ashish Kumar]