

Curriculum Vitae



1. PERSONAL INFORMATION

Name Vinod Kumar Sahu
Date of Birth 21/05/1995
Father Name Lalohar Prasad sahu
Mother Name Keshkali Sahu
Address Patelpul M.G. Complex Sidhi,
Madhya Pradesh, 486661, India
Telephone/Mobile 8959026601
E-mail vinodsahu084@gmail.com
Gender Male
Nationality India

2. Educational Information

CLASS	SUBJECT	UNIVERSITY/BOARD	YEAR/ PASSING	PERCENTAGE
10th	Science	MP State Board	2011	71.27%
12th	Agriculture	MP State Board	2013	74%
Graduation	BSc Agriculture	ITM University Gwalior	2017	7.96 CGPA Out of 10
Master	M.Sc. Agriculture (Plant Biotechnology)	College of Agriculture, Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya Gwalior, India	2019	7.73 CGPA Out of 10
Ph.D.	Plant Molecular Biology & Biotechnology	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur MP	2022	7.67 CGPA Out of 10

3. Experiences/ Membership

Organization		Designation	Duration from /To		Remarks/ Work
1.	Department of Biotechnology, (Birac)	DBT BIRAC Sparsh Fellow	1 st August 2020	31 st Dec 2022	Production of Good Quality Planting material in Medicinal Plants
2.	Pragati Foundation	Agriculture Consultant (Founder member)	1 July 2017	Part time	Social agriculture and Rural development, Scie
3.	Ambrionics pvt Ltd	Principle key Investigator	15/07/2022	31 st March 2023	Research and Program Planning
4.	Vibha vani Government India	Member	2020		Social agriculture and Rural development
5.	Vijan Bharti Government of India	Member	2022		

4. Research Specialization

- **Fields of Specialization** – Medicinal Farming, Molecular biology, Tissue culture, Agri Bioinformatics, DNA Sequencing, Farmers consultancy
- **Master thesis work** - Genetic analysis of morpho-physiological trait and screening of popular genotypes using gene-based markers for *Fusarium* Wilt disease in chickpea (*Cicer arietinum* L.)
- **Ph.D. Research work-** Studies on morphological, phytochemical characterization and DNA barcoding for identification of different species of genus *Curcuma* and related species of family Zingiberaceae

5. Internship

Internship Name		Organization Body	Duration
1.	Two Months Internship Program on Scheme, Swachh Bharat Mission (SBM)	Office of the Collector Gwalior (Madhya Pradesh, India)	02 nd May to 30 th June 2017

6. Social Innovation / Agriculture innovation

1- Mobile Mini soil testing cum Kisan Lab

<https://dainik-b.in/JkiX2xINZlb> awarded by UNDP Agri SOLVED Challenge 2021
<https://youtu.be/5orVQ58O0sY>

2. Agritronics Bricks – validated by DBT BIRAC e Yuva Program

<https://youtu.be/5orVQ58O0sY> 2nd runner up on innovation challenge

7. Training Experience in Biotechnology

1. Workshop Cum Training on **Tools and Techniques in Bioinformatics** Sponsored by The Department of Biotechnology, Govt, India, 12-14 March 2018.
2. **One Days State Level Bio Safety Capacity Building Workshop Held** on 17 April, 2018, Organized by Biotech Consortium India Limited (BCIL), JNKVV Jabalpur.
3. Workshop on Current trends in Molecular Biology organized by Genetix Biotech. Asia pvt. Ltd.
4. Certificate of Participation on **Two Day Workshop in Hand on Training of JNMEDSYS Digital PCR System “Clarity”** During 11th to 12th October 2018 at Kasliwal Bio Medics Gwalior, Sponsored by **Premas Life Science**.
5. Workshop conducted on **"Bio-Entrepreneurship, Intellectual Property Rights & Technology Management"** (23rd & 24th July 2019) at **IIT-Indore**, Madhya Pradesh sponsor by DBT, BIRAC India.
6. One day training program on **IPR & Indian Patent Filing Procedure** Organized by Rajeev Gandhi National Institute of Intellectual Property Management, Government

of India held on 18th March 2021.

7. Two-week, **Faculty development program** Sponsored by Department of Science and Technology (DST) conducted by IITM HTIC MedTech Incubator India held on 08/03/21- 20/03/21.
8. One day training program on **Intellectual property** training program under mission National Intellectual Property Awareness Mission, Organized by Intellectual Property Office, Government India held on 18th June 2022.

8. Conference /Seminar /National

1. National Workshop on Protected Cultivation of Horticulture Crops on 10th April 2015 Organized by School of Agriculture ITM University Gwalior MP.
2. International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Science (GRIAAS) held on 02nd to 04th December 2017.
3. National Conference on Current Trends in Plant Science and Molecular Biology for Food Security and Climate Resilient Agriculture at RVSKVV Gwalior M.P. held on 15th to 16th February 2018.
4. Participated India International Science Festival, Lucknow 2018 held on 5th to 8th October 2018.
5. International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Science (GRIAAS) held on 28th to 30th October 2018.
6. **1st National Genetic Congress (NGC) 2018** on Genetic for Sustainable Food, Health and Nutrition Security, IARI New Delhi India held on 14th to 16th December 2018.
7. Participated in **India International Science Festival 2018 at Lucknow.**
8. 1st Students Agriculture Research Conference (SARC) Cotyledon 2019, Organized by RVSKVVGwalior June- 7-9,2019.
9. TNAU – Corteva Plant Science Symposium Series on “Crop Genomics and Data Science: Challenges and Opportunities – 2019” at Coimbatore Tamandu, India held on 17th to 18th October 2019.
10. 1st Student Agriculture Research Conference (SARC) Cotyledon-2019 Organized by Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior India held on June 7th to 9th June 2019.
11. Participated India International Science Festival, Kolkata 2019 held on 5th to 8th October 2018.
12. Workshop on Genome editing for crop Improvement Opportunity and enabling policies sponsored by Biotech Consortium India Limited at Bhopal, India held on 28 July 2022.

9. International program and Trainings

1. International Society for Biosafety Research, **ISBR Symposium 2019 at Tarragona**

Spain, 1 April to 4th April 2019.

2. Adoption of Early Sown Wheat and High Throughput Phenotyping, organized by Borlaug Institute for South Asia, and CIMMYT held on 5th to 6th March 2020 at Jabalpur (MP), India

10. Fellowship

Sr.	Title	Sponsored agency	Duration
1	ABSTC Fellowship	International Society for Biosafety Research (ISBR) Spain,	ISBR Conference 2019 sponsorship
2	DBT, BIRAC Sparsh Fellowship	Department of Biotechnology, Government of India, BIRAC New Delhi	18 months (August 2019 to December 2021)

11. Awards/Achievements

1. National Center for Cold Chain Development (NCCD) Awarded **Golden Banana Award** for Excellence in Entrepreneur Development for Ripening Chamber on date 24/08/2016.
2. Certificate of Appreciation for Grand Success of National Conference, Including, Work Committee Member of Transport, Editor Support Team 15-16. Feb 2018.
3. **Scientist Association Award** by at GRISAAS- 2018 by Aastha Foundation on 28th to 30 October 2018.
4. International Agricultural Biotechnology Stewardship Technical Committee (**ABSTC**) **Scholarship 2019** by, International Society for Biosafety Research (ISBR) Spain.
5. Represented first time in **State youth parliament** from Sidhi district, Organized by Government of Youth affairs and Sports, India held on 05/02/2019.
6. **SOLVED CHALLENGE 2021** Agri Business Start-up Idea, Winner Sponsored by UNDP, UNV, Ministry of Youth Affairs, India.
7. **1st rank** in Climate Data Hackathon Themed on Climate Resilient Agriculture sponsored by UNDP, DAV and Climate collective – Indian Data Week 2022
8. **Runner-up** on Waste to Wealth Ideathon 2.0 Program 2022 Organized by Department of Biotechnology and Biochemistry, Career College Bhopal.

12. Research papers

1. Tinee Adlak, Sushma Tiwari M.K. Tripathi, Neha Gupta, **Vinod Kumar Sahu**, Punamchand Bhawar and V. S. Kandalkar. 2019 Biotechnology: An Advanced Tool for Crop Improvement 33(1): 1-11; Article no. CJAAS.46931 ISSN: 2457-1024
2. Sushma Tiwari, Sanjeev Kumar Yadav, **Vinod Kumar Sahu** and Tripathi, M.K. 2018. Current Status and Future Prospects of Marker Assisted Breeding for Genetic Improvement of Minor Millets. International journal of Current Microbiology Applied Science. 7(12):2587-2590.
3. **Vinod Kumar Sahu**, Sushma Tiwari, M. K. Tripathi, Neha Gupta, R. S. Tomar, Ashok Ahuja and M. Yasin. 2019 Molecular marker validation and identification of Fusarium wilt resistant chickpea genotypes. Indian Journal of Genetics and Plant Breeding., 80(2) 163-172 (2020) DOI:10.31742/IJGPB.80.2.6

4. **Vinod Kumar Sahu**, Sushma Tiwari, Neha Gupta, M.K. Tripathi, and M. Yasin 2021 Evaluation of Physiological and Biochemical Contents in Desi and Kabuli Chickpea. Legume Research- An International Journal. 10.18805/LR-4265.
5. **Vinod K. Sahu**, Yogendra Singh, Sushma Tiwari and Ashok Ahuja. 2021. Studies on In vitro Micro Propagation for Regeneration of Chickpea Plant. International journal of Current Microbiology Applied Science. 10(03):xx-xx.
9. **Vinod Sahu**, Keerti Tantwai, Nishi Mishra, Prakash N Tiwari, Swapnil Sapre, Gyanendra Tiwari and Sharad Tiwari. 2022 Morphological characterization of *Curcuma caesia* germplasm collected from different regions of Madhya Pradesh. The Pharma Innovation Journal., 11(7S): 4080-4084.
10. Prakash N. Tiwari, Sharad Tiwari, Swapnil Sapre, Keerti Tantwai, Sushma Nema, Anita Babbar, **Vinod Kumar Sahu**, Nishi Mishra and Satyendra Thakur .2022 Morpho-Physiological Grouping of Indian Chickpea (*Cicer arietinum*L.) Genotypes Based on Terminal Drought Stress Response. Biological Forum – An International Journal, 14(3): 100-106.
11. Prakash N. Tiwari, Sharad Tiwari, Swapnil Sapre, **Vinod Kumar Sahu**, Nishi Mishra and Satyendra Thakur. 2022 Morpho-Physiological Characterization of Indian Chick pea (*Cicer arietinum* L.) Genotypes Based on Early Drought Stress Response Frontiers in Crop Improvement Vol 10 (2): 141-146.
12. **Vinod Kumar Sahu**, Keerti Tantwai, Swapnil Sapre, Nishi Mishra, Prakash N Tiwari, Prashant Gigaulia, Sushma Nema, Sharad Tiwari. 2022 Improved method of DNA extraction from leaf and rhizome samples of black turmeric (*Curcuma caesia*) for molecular analysis The Journal of Phytopharmacology, 2022;11(4):xxx-xxx

13. BOOK CHAPTER-

1) Recent Trends in Molecular Biology and Biotechnology Volume – 1 (Integrated Publications 2020)

1. Molecular Breeding: Need of Current and Future Plant Science 01-26 (Prakash N. Tiwari, Nishi Mishra, **Vinod Kumar Sahu**, Prashant Gigaulia and Yogendra Singh)
2. Perspectives of Nano Technology in Agriculture 27-54 (**Vinod Kumar Sahu**, Nishi Mishra, Prakash N. Tiwari and Yogendra Singh)
3. Genome Editing in Plants using CRISPR for Crop Improvement 153-173 (Nishi Mishra, Prakash N. Tiwari, **Vinod Kumar Sahu** and Yogendra Singh)

2. Advances in Biological Sciences and Biotechnology (Volume - 1) (Akinik Publication 2020)

4. Prospective role of future fuel of Bioethanol page-159 Vinod Kumar Sahu, Yogendra singh Sushma Tiwari.

3- Advances in Biological Sciences and Biotechnology (Volume - 6)". (Akinik Publication)2020-

5. Prospective of Genetic Engineering in Agriculture VK Sahu, Y Singh, S Tiwari, RM Sharma, and IM Khan.

14. BOOK-

1. Vinod Sahu, Sushma Tiwari and Manoj Tripathi. 2020 Chickpea Genetic Diversity - Morpho-physiological, biochemical and molecular characterization of desi and Kabuli chickpea genotypes (ISBN 978-620-2-68047-9 – (LAMBERT Academic Publication)

15. Germplasm/ Plant Variety /Scientific contribution

- 180 accessions Sequence of different *Curcuma* species submitted in NCBI
- 33 accession planting material submitted in NBPGR New Delhi

16. Others Professional Agriculture Courses and Specialization

Sr	Title	Sponsored agency /Organization	Date
1.	Extrusion Processing Technology and Business Development	India agriculture Research Institute, IARI New Delhi	23 th to 24 th February 2016
2.	Agri clinic Agri Business (2 Months)	National Institute of Agriculture Extension Management (Manage) Hyderabad, India	21 th August to 22 th October /2016
3.	Five Days Training Course on Nursery Management	Krishi Vigyan Kendra Gwalior,	05 th to 09 th September 2016
4.	Four Days Training Course on Vermicompost Production Techniques	Krishi Vigyan Kendra Gwalior, India	13 th to 16 th September 2016
5.	Summer Training on Agriculture finance	State Bank of India	17 th September 2016
6.	Training program on Leguminous and Oil Seed Crop field practices	Krishi Vigyan Kendra, Panna, Madhya Pradesh, India	19 th to 23 th October 2016
7.	Training Course on Advanced in Fisheries Technology and Extension Management for Fisheries Development	National Institute of Agriculture Extension Management (Manage) Hyderabad, India	16 th to 28 th January 2017
8.	Five Days Workshop Conduct Organic Farming at Ram- Krishna Mission Ashram Gwalior	Under Pandit Deendyal Upadhyia Unnat Krishi Yojna, Sponsored by ICAR New Delhi	8 th to 12 th March 2017
9.	Participated 3 days training program of soft skill by during at RVSKVV Gwalior	E-cell IIT Kharagpur, India	6 th to 8 th March 2017
10.	One Week Training Program on Quality Paddy Seed Production	Agri-business Incubation Center, ICAR, National Rice Research Institute, Cuttack	28 th to 31 th March 2017
11.	Modern poultry management	National Institute of Agriculture Extension Management (Manage) Hyderabad, India	2 nd to 4 th March 2020
12.	IPR & Indian Patent Filing Procedure	Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM), Nagpur	18 March 2021
Entrepreneurship/ Agri Business Trainings			
13.	Digital Entrepreneurship	Atal Incubation Center, BIMTECH Noida India	20 th February 2021

14.	Agripreneurship Orientation Program	National Institute of Agriculture Extension Management (Manage) Hyderabad, India	16 th June to 16 th August, 2021
15.	Agri Hackathon	Vaagdevi College Warangal, India	14 th to 15 th March 2022

17. Webinar

Sr.	Webinar name	Date	Organization
1.	Applications of Biotechnological Tools for Crop Improvement	10 th to 11 th June 2020	COA, RVSKVV, Gwalior
2.	Biosafety and waste disposal	18 th September 2020	JNKVV, Jabalpur, Department of Biotechnology MP, India
3.	Virtual Trainings program on Geospatial application for disaster Risk Management	19 th to 23 rd July 2021	NIRD, Government of India
4.	National Ideathon 2.0: Waste to Wealth	30 June 2022	EYUVA Centre, Dept of Biotechnology and Biochemistry, Career College, Bhopal
5.	National Intellectual Property Awareness Mission (NIPAM)	18 June 2022	(NIPAM) IPR India
6.	Emerging Technologies for Agriculture: Role of Startups on Saturday, June 11, 2022	June 11 th June 2022	Manage Hyderabad, Ministry of Agriculture
7.	Climate Data Hackathon	28 th April 2022	United National Development Program, India
8.	Webinar on Banana, Root and Tuber Crops: Significance, Best Quality Practices, and Way Forward	31 st May 2022	Biotech Consortium India Limited (BCIL) and Asia-Pacific Association of Agricultural Research Institutions (APAARI) and APCoAB
9.	Regulatory frame work for Environment Protection India Biopharma sector perspective	1 st October 2020	BIRAC, Department of Biotechnology Government of India

18. TECHNICAL SKILLS AND COMPETENCES

COMPUTER_SKILL

- Knowledge of Internet and Computer Operating. Microsoft Office, etc.

➤ Laboratory work skill

- Molecular, work in Agriculture Crops DNA, PCR
- Tissue Culture work experience,
- Biochemical analysis
- Morphological Work at Field level.
- Bioinformatics Tools Knowledge
- Medicinal plant conservation and Consultancy

19. Mother Tongue Other Languages

Language	Mother tongue	Understanding	Speaking	Writing
Hindi	Yes			
English		Yes	Yes	Yes

20. ADDITIONAL INFORMATION HOBBIES. -

- Reading Books, Singing, dancing
- Other cultural activities
- Games- Chess., cricket Blood Donation

Reference

1. Dr. Sharad Tiwari
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4. Dr. Keerti Tantwai
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DECLARATION

I hereby solemnly declare that all the above statements are true and correct to the best of my knowledge.

Place- Jabalpur

DATE – 22/04/2023



VINOD KUMAR SAHU