Curriculum Vitae

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| **PROFILE OF DR. NOOPUR SINGH** | | | **CVPIC.png** | |
| **Address (office)** | Bioinformatics, Department of Genetics and Plant Breeding,  Institute of Agriculture and Natural Sciences  D.D.U. Gorakhpur University, Gorakhpur, U.P. 273009 India | | | |
| **Mobile** | +91 9140674866, 9651770378 | | | |
| **E-mail** | singh.rajpoot.noopur@gmail.com | | | |
| **Date of Birth** | 04-11-1990 | | | |
| **Education** | | | |  |
| **Subject** | **Institution** | **Year** | | **Marks** |
| **Ph.D. (Life Science/**  **Bioinformatics)** | Jawaharlal Nehru University, New Delhi, India (CSIR-CIMAP,Lucknow) | 2018 | | - |
| **M.Sc. (Bioinformatics)** | CCS University Meerut, Uttar Pradesh, India | 2011 | | 77.86% |
| **B.Sc. (Bio group)** | VBS Purwanchal University, Jaunpur, India | 2009 | | 55.22% |
| **Intermediate** | OIC, Obra, UP (UP Board) | 2006 | | 62.20% |
| **High school** | BVM, Obra, UP(UP Board) | 2004 | | 64.33% |

Present working Detail-

Dr. Noopur Singh

Assistant Professor, Bioinformatics, Department of Genetics Plant Breeding, Institute of Agricultural and Natural Sciences, DDU Gorakhpur University, Gorakhpur,

**Research experience and academic achievement**

* Awarded by **Shri Rama-Avtar-Param Shinghal Gold Medal** from CCS University, Campus, Meerut
* Awarded by **V.C. Gold Medal** from CCS University, Campus, Meerut.
* Awarded by **Vishist Yogyta Pramad Patra** from CCS University, Campus, Meerut
* Awarded by **DST-INSPIRE fellowship**
* Awarded by DDU Gorakhpur University for **Outstanding Contribution Award in the Research and Teaching in the field of Higher Education** in 2021
* Awarded by **Young Women Scientist Award from Career Point University, Kota in 2024**

**Current area of interest**

* + *In silico* identification and Analysis of non coding RNAs
  + Identification of regulatory elements
  + Data analysis and database development
  + Comparative genomics
  + Functional genomics
  + Molecular interaction studies
  + Analysis of Next Generation Sequencing data

**Members of Editorial Board of the National / International Journal**

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2- Reviewer of **BMC Genomics** (open access, peer-reviewed journal )

### 3- Reviewer of BMC Plant Biology (open access, peer-reviewed journal )

1- Reviewer of  **BMC Neuroscience** (open access, peer-reviewed journal )

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**Publications:**

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1. Verma, P., **Singh, N**., Khan, S.A., Mathur, A.K., Sharma, A., Jamal, F., 2020. TIAs pathway genes and associated miRNA identification in *Vinca minor*: supporting aspidosperma and eburnamine alkaloids linkage via transcriptomic analysis. Physiol Mol Biol Plants 26, 1695–1711. (**IF-** **3.9**)
2. **Singh, N**., Srivastava, S., Sharma, A., 2015. Identification and analysis of miRNAs and their targets in ginger using bioinformatics approach. Gene. doi:10.1016/j.gene.2015.09.036 **(IF-** **3.688**)
3. **Singh, N**., Sharma, A., 2014. In-silico identification of miRNAs and their regulating target functions in *Ocimum basilicum*. Gene 552, 277–282. **(IF-** **3.688**)
4. **Singh, N**., Sharma, A., 2017. Turmeric (*Curcuma longa*): miRNAs and their regulating targets are involved in development and secondary metabolite pathways. C. R. Biol. 340, 481–491**.(IF- 1.443**)
5. **Singh, N**., Srivastava, S., Shasany, A.K., Sharma, A., 2016. Identification of miRNAs and their targets involved in the secondary metabolic pathways of *Mentha spp*. Comput. Biol. Chem. 64, 154–162. doi:10.1016/j.compbiolchem.2016.06.004 **(IF-** **3.7**)
6. Srivastava, S., Sanchita, Singh, G., **Singh, N**., Srivastava, G., Sharma, A., 2016. Analysis of bHLH coding genes using gene co-expression network approach. Mol. Biol. Rep. 43, 677–685. doi:10.1007/s11033-016-4001-3 **(IF-** **2.357**)
7. Srivastava, S, **Singh, N**., Srivastava, G., Sharma, A., 2016. miRNA mediated gene regulatory network analysis of *Cichorium intybus* (chicory). doi.org/10.1016/j.aggene.2016.11.003
8. **Singh, N**., Srivastava, S., Sharma, A A bioinformatics study of miRNAs and their regulating targets in *Curcuma longa* (turmeric) 2016 International Conference on Bioinformatics and Systems Biology (BSB) (**Electronic ISBN:** 978-1-5090-2261-8 **Print on Demand (PoD) ISBN:** 978-1-5090-2262-5)( **INSPEC Accession Number:**16264018)
9. **Singh, N** ,Dubey D., Singh K. S., Rao P. G. Molecular diagnosis of ‘*Candidatus Phytoplasma australasia*’ related strain (16SrII-D) associated with flat shoot and shoot proliferation of radish in Uttar Pradesh, India, doi: 10.5958/2582-5089.2022.00007.X **(NAAS Rating -3.39**
10. Marwal, A., Jain K., Pandey V., Srivastava A, Chauhan **N** and Gaur K. R., In silico interaction studies of AV2 begomovirus and βC1 proteins of betasatellite with host *Capsicum annuum* proteins doi: 10.5958/2582-5089.2022.00009.3 **(NAAS Rating -3.39)**
11. Srivastava A., PANDEY A., SINGH N. ,MARWAL a., Shahid S.M.,and Gaur K. R., dentification of Papaya Genome-Encoded MicroRNAs with In Silico Potential to Target Begomovirus Genes in Papaya Leaf Curl Disease. Front. Microbiol. Volume 15 - 2024 | doi: 10.3389/fmicb.2024.1340275**(IF-** **5.2**)

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1. Hausila Prasad Singh, Vinay Rojaria, Noopur Singh, **Saroj Chauhan** and Om Prakash Raigar, **(2024):** Breeding of Jatropha for oil, phorbol and quantitative traits for sustainable yield under agroforestry. Book title: **Agroforestry to combat Global Challenges: Current prospectus and future Challenges. Springer Nature Singapore. Accepted for publication in (2024). Vol. 36, pp. 383-405.**

**Teaching and supervision:**

1-Supervised the students for **M.Sc. Thesis/dissertation/ Project** -**13 Completed, 10 Ongoing**

**Teaching Experience: 02 Years and 04 months.**

B.Sc. (Ag.), M.Sc. (Ag.), M.Sc. Bioinformatics, M.Sc. Plant Biotechnology **classes:**

**From session 2021-till the date at IANS, DDUGU**

**Invited Lecture-**

1. Invited lecture on the topic **Challenges in Agricultural Development** at Centre of Research and Development (CRD), Gaunar Usraha, Gorakhpur on the occasion of Foundation day.
2. Invited lecture on the topic Role **of Women’s Farmers in Agricultural Development** at Krishi vibhag Gorakhpur, Uttar Pradesh on the occasion of Mahila kisan diwas.
3. Invited lecture on the topic of M**illets production and its importance** at Sector Headquarter(SHQ), Shashastra seema bal (SSB),Goprakhpur
4. Invited lecture on the topic of M**illets production and its importance** at Rajkiya krishi vidhyalay ,Chargawa ,Gorakhpur.
5. Invited lecture on the topic of M**illets production and its importance at District Institute of Education and training (DIET), Gorakhpur.**
6. Lecture at Rajkiya Krishi Vidyalaya, Chargawan, Gorakhpur, 19th December **2023** on the topic “Insect pest of Rabi Crops and their management” for the training (Adhi. Kri. Se. Varg- 1,2,3) for development of technical knowledge and skill development.
7. Invited lecture under “Aatmanirbhar Krishak Bharat Samnwit Vikas Yojantargat” at Rajkiya Krishi Vidyalaya, Chargawan, Gorakhpur on the topic ‘use of information technology for marketing ’ date 22.02.2024 for FPOs organized at regional level.
8. Invited lecture under “Aatmanirbhar Krishak Bharat Samnwit Vikas Yojantargat” at Rajkiya Krishi Vidyalaya, Chargawan, Gorakhpur on the topic ‘Current status and Future challenges for agricultural produces ’ on date 06.03.2024 for FPOs organized at regional level.

**Other Responsibilities/Activity/**

1. **Committee member** of Center of Genomics and Bioinformatics (CGB) IANS, D.D.U. Gorakhpur University, Gorakhpur.
2. **Board of studies (BOS) member** of Center of Genomics and Bioinformatics (CGB), IANS,D.D.U. Gorakhpur University, Gorakhpur.
3. **Purchase committee member** of Center of Genomics and Bioinformatics (CGB), IANS, D.D.U. Gorakhpur University, Gorakhpur.
4. **Purchase committee member** of Institute of Agriculture and Natural Sciences, D.D.U. Gorakhpur University, Gorakhpur .

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1. Organized S**tudent grooming and personality development seminar** at IANS(15TH April 2023)
2. Organized **workshop and exhibition on Eat Right Millet Mela** (24TH March 2023)
3. Organized **International webinar** for post graduate students development program(11TH May 2023)
4. Organised **workshop and exhibition on Eat Right Millet Mela** (28 December 2023)
5. Organizing **committee (Food &Hospitality ) member for alumni meet** (29th April 2023-1st may 2023)

**Organized Other Programmes**

1. Organized Awareness program for new government scheme through **Kisan Chaupal at Rudrapur village** (28 February 2023)
2. Organized undergraduate and post graduate student’s **Agricultural field visit** program(18 March 2023)
3. Organized **Competition Program on Essay Writing** in G20 Event (4TH  March 2023)
4. Organized a **awareness program on the occasion of National Farmers Day** (23 December 2022)
5. Organized **Student rally program** on world soil day (5th December 2022)
6. Organized a **Plantation program** on world soil day(5th December 2022)
7. Organized a **awareness program on agricultural education** (3rd December 2022)
8. Organized **Student rally program** on world Environment day
9. Organised an event on the occasion of World Soil Day (5TH December 2023).

**Paper presented at Seminar / workshop attended**

1. Poster presentation on topic entitled “*In-silico* identification of microRNAs and their regulating target functions in *Ocimum bacilicum*” in the National Conference on “Women Power in Cutting Edge Biotechnology” organised by AMITY Institute of Biotechnology, Lucknow.
2. Participated in zonal meeting of Indian Phyto-pathological society (MEZ) and national conference on “Microbes promoting crop health, productivity and sustainability” held at CSIR- CIMAP Lucknow.
3. Participated in the symposium JIGYASA held at CSIR-CIMAP, Lucknow.
4. Poster presentation on topic entitled” *In-silico* identification of microRNAs and their regulating target functions in *Mentha sp*.” in the International Conference on Medicinal plants (ICOMP): Resource for affordable New Generation Helthcare, organised by CSIR-CIMAP, Lucknow.
5. Participated in the symposium JIGYASA held at CSIR-CIMAP, Lucknow
6. Oral presentation on topic entitled” A bioinformatics study of miRNAs and their regulating targets in Curcuma longa (turmeric)in an international conference on bioinformatics and system biology (BSB) at IIIT Allahabad, UP, India .
7. Presented Poster on “**Transcriptome wide identification of miRNAs regulating the secondary metabolites of *Ocimum sanctum***” in International EMBO conference on Micro and metabolic regulators in plants organized by in collaboration with Rajiv Gandhi Centre For Biotechnology (RGCB) at Thiruvananthapuram, India.
8. Volunteered a two-day symposium ‘**JIGYASA**’ on 13-14 December, 2014 at CSIR-CIMAP, Lucknow.
9. Orgenised 48th **Shanti Swarup Bhatnagar Memorial Tournament** **( SSBMT Indoor)** Finals on 3‐5 March 2017 at CSIR-CIMAP, Lucknow.
10. Attended a **NGS work shop** on 22-23 June, 2016 at -CIMAP conducted by Bionivid.
11. Attended a **NGS workshop** on 4th -5th March 2016 at at IIIT Allahabad, UP, India
12. **Jan 2022** Attended an Ensembl Browser course held by NextGenHelper, New Delhi on 18th-21st January 2022
13. One week hands-on workshop on "**Bioinformatics, Genomics and Ensembl Genome Browser**" organized by Nextgenhelper, New Delhi from January 12-26, 2022
14. Two days training program on Molecular docking (25-26 Feb 2023)
15. Participated in International Conference & Workshop (IEEE RIO HTC-2023)on Advances in Molecular Medicine(16-18 October 2023) hosted by Marwadi University, Rajkot, India
16. Participated in “*Rashtriy Vaigyanik Sangoshthi on Krishi Urja avam Swasthya ke Vikas Mein Vigyan Ke navintam Aayam*” organised by Hindi Vigyan Parishad, Bhabha Atomic Research Centre (04-06 November 2015)
17. **Presented a paper on** A bioinformatics study of miRNAs and their regulating targets in *Curcuma longa* (turmeric) in international conference at IIIT Allahabad.
18. Participated in training workshop on Denovo transcriptom data analysis orgenised by CSIR-CIMAP lucknow (23-24 june 2016)
19. Participated in training workshop on structure -activity relationship studies for lead identification by using 3D QSAR tools and techniques(20/06/2016)
20. Participated in Virtual Faculty development program on NGS from genomics to medicine organized by Department of Biotechnology ,PES University (25-28 july 2022)
21. Participated in 3 days workshop on Artificial Intelligence, cyber security, and coding.