

## Subodh Verma

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 @subodhshanky

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## Professional Experiences

- 2023 - To date **Postdoc Fellow** at Institute of Plant Genetics, Polish Academy of Sciences, Poznan, Poland
- 2019 - 2023 **Postdoc Fellow** at Central European Institute of Technology, Brno, Czech Republic, Hormonal Crosstalk in Plant Development-Helene Robert Boisivon group
- 2021 - 2023 Worked as **Marie Curie Postdoc Fellow**
- Investigating the transcriptional regulation of auxin biosynthetic genes in Arabidopsis embryo

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## Education

- 2012-2019 **Ph.D. Plant Molecular Biology, Plant Genetics & Genomics**  
National Institute of Plant Genome Research (NIPGR); Jawaharlal Nehru University (JNU), Delhi, India  
**Thesis title:** Identification and characterization of genes related to seed development in chickpea (*Cicer arietinum* L.); **Supervisor:** Dr. Sabhyata Bhatia
- 2009-2011 **M.Sc. Biotechnology**  
Bundelkhand University Jhansi (U.P.), India  
6 months MSc project on "Screening and characterization of iron storage, ferritin gene in various wheat varieties" at National Agri-Food Biotechnology Institute (NABI) Mohali, Punjab, India

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## Awards/Honours/Fellowships

- 2021 Plantae fellow by ASPB society
- 2019 Marie Skłodowska-Curie- Individual Fellowship from European Union
- 2012-2017 Junior & Senior Research Fellowship awarded by Department of Biotechnology (DBT), Govt of India
- 2013 Qualified National Eligibility Test (NET) for Lecture Ship; Rank: 25 conducted by Council of Scientific and Industrial Research (CSIR), India
- 2012 Qualified Graduate Aptitude Test in Engineering in Biotechnology (GATE-BT); 98.76 percentile

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## Publications

**Verma S, Robert HS** The MADS-box protein SHATTERPROOF 2 regulates *TAA1* expression in the gynoecium valve margins. (Under review in Plant reproduction journal).

**Verma S, Attuluri VPS, & Robert HS (2022)** Transcriptional control of Arabidopsis seed development. *Planta*, 255(4), 1-19. <https://doi.org/10.1007/s00425-022-03870-x>

**Verma S, Attuluri VPS, Robert HS (2021)** An Essential Function for Auxin in Embryo Development. *Cold Spring Harbor perspectives in biology*, a039966. <https://doi.org/10.1101/cshperspect.a039966>

**Verma S, Bhatia S (2019)** A comprehensive analysis of the B3 superfamily identifies tissue specific and stress responsive genes in chickpea (*Cicer arietinum L.*). *3 Biotech* 9: 346. <https://doi.org/10.1007/s13205-019-1875-5>

**Verma S, Bhatia S (2019)** Analysis of genes encoding seed storage proteins (SSPs) in chickpea (*Cicer arietinum L.*) reveals co-expressing transcription factors and a seed-specific promoter. *Funct Integr Genomics* 19, 373–390 (2019). <https://doi.org/10.1007/s10142-018-0650-8>

**Verma S, Gupta S, Bandhiwal N, Kumar T, Bharadwaj C, Bhatia S (2015)** High-density linkage map construction and mapping of seed trait QTLs in chickpea (*Cicer arietinum L.*) using Genotyping-by-Sequencing (GBS). *Scientific Reports* 5, 17512. <https://doi.org/10.1038/srep17512>

**Pradhan S, Verma S, Chakraborty A, Bhatia S (2021)** Identification and molecular characterization of miRNAs and their target genes associated with seed development through small RNA sequencing in chickpea. *Funct Integr Genomics* 20, 763–773. <https://doi.org/10.1007/s10142-021-00777-w>

**Gaur R, Verma S, Pradhan S, Ambreen H (2020)** A high-density SNP-based linkage map using genotyping-by-sequencing and its utilization for improved genome assembly of chickpea (*Cicer arietinum L.*). *Funct Integr Genomics* 20, 763–773.

**Pradhan S, Kant C, Verma S, Bhatia S (2017)** Genome-wide analysis of the CCCH zinc finger family identifies tissue specific and stress responsive candidates in chickpea (*Cicer arietinum L.*). *PLoS one*, 12(7), e0180469 <https://doi.org/10.1371/journal.pone.0180469>

**Gupta S, Kumar T, Verma S, Bharadwaj C, Bhatia S (2015)** Development of gene-based markers for use in construction of the chickpea (*Cicer arietinum L.*) genetic linkage map and identification of QTLs associated with seed weight and plant height. *Mol Biol Rep*, 1-10. <https://doi.org/10.1007/s11033-015-3925-3>

**Verma S, Pandey V, Chakraborty S, Bhatia, S. ABI3 controls seed protein content in chickpea (Under communication)**

## **Book Chapters**

**Kant C, Pandey V, Verma S, Tiwari M, Kumar S (2017)** Transcriptome analysis in chickpea (*Cicer arietinum L.*): Applications in study of gene expression, non-coding RNA prediction and molecular marker development" in: Priscila Cirillo (eds.) Transcriptome Analysis, INTECH Open Access Publishers, ISBN 978-953-51-5452-5.

**Alok A, sharma S, Kumar J, Verma S, sood H (2017)** Engineering in plant Genome Using Agrobacterium: Process and Future. In: V.C. Kalia, A.K. Saini (eds.), Metabolic Engineering for Bioactive Compounds, Springer.