

Curriculum Vitae

Name: Akhilesh Yadav

Email: akhyadav@ucdavis.edu

Google Scholar: <https://scholar.google.com/citations?hl=en&user=WnlMLkAAAAAJ>

Work experience:

August 2021 – Present

Postdoctoral Fellow, Department of Plant Sciences, University of California, Davis, CA, USA

July 2019 – July 2021

Postdoctoral Fellow, Department of Postharvest Science of Fresh Produce, Agricultural Research Organization (ARO) - Volcani Center, Rishon LeZion, Israel

May 2017 – May 2019

Postdoctoral Fellow (N-PDF), Department of Biotechnology, Indian Institute of Technology, Roorkee, India

Education:

December 2010 – January 2017

Ph.D. in Rhizobium Genetics (Biotechnology), Department of Botany, Banaras Hindu University, Varanasi, India

Publications (Selected):

Akhilesh Yadav, Anton Fennec, Rachel Davidovich-Rikanati, Sagit Meir, Bettina Kochanek, Efraim Lewinsohn, Asaph Aharoni, Noam Alkan, Haya Friedman (2021). Phenylpropanoid metabolism in astringent/non-astringent persimmon (*Diospyros kaki*) cultivars determines sensitivity to *Alternaria* infection. *Journal of Agricultural and Food Chemistry*; 69 (20), 5628–5637; DOI: <https://doi.org/10.1021/acs.jafc.1c01312>.

Akhilesh Yadav, Anton Fennec, Changfei Guan, Yong Yang, Bettina Kochanek, David Israel, Anat Izhaki, Shmuel Zilkah, Haya Friedman (2021). Phenotypic characterization of fruit quality in astringent and non-astringent persimmon (*Diospyros kaki*) cultivars. *Frontiers in Genetics*; 12:670929; DOI: <https://doi.org/10.3389/fgene.2021.670929>.

Akhilesh Yadav, Ron Kagneton, Bettina Kochanek, Barak Cohen, Anton Fennec, David Israel, Anat Izhaki, Shmuel Zilka, Haya Friedman (2021). Development of cracks in early-harvested persimmon cultivar and their reduction by preharvest treatments. *Journal of Horticultural Science and Biotechnology*; 96(5), 646-652; DOI: <https://doi.org/10.1080/14620316.2021.1911688>.

- Akhilesh Yadav**, Tushar Garg, Harshita Singh, and Shri Ram Yadav (2020). Tissue-specific expression pattern of calcium-dependent protein kinases-related kinases (CRKs) in rice. *Plant Signaling & Behavior*, 15(11):1809846; DOI: [10.1080/15592324.2020.1809846](https://doi.org/10.1080/15592324.2020.1809846).
- Akhilesh Yadav**, Raghvendra Pratap Singh, Asha Lata Singh, and Major Singh (2020). Identification of genes involved in phosphate solubilization and drought stress tolerance in chickpea symbiont *Mesorhizobium ciceri* Ca181. *Archives of Microbiology*, 203, 1167-1174; DOI: [10.1007/s00203-020-02109-1](https://doi.org/10.1007/s00203-020-02109-1).
- Akhilesh Yadav**, Hariom Verma, Waquar Akhter Ansari, Asha Lata Singh, and Major Singh (2020). Insight in the transcriptome data of hairy root disease-causing bacterium- *Agrobacterium rhizogenes*. *Data in Brief*, 31, 105910; DOI: <https://doi.org/10.1016/j.dib.2020.105910>.
- Akhilesh Yadav**, Waquar Akhter Ansari, Asha Lata Singh, Major Singh (2019). Transcriptional response of *otsA*, *P5CR*, *glgX*, *nodC*, and molecular chaperone genes under the PEG-induced drought stress in *Mesorhizobium ciceri* Ca181. *Biocatalysis and Agricultural Biotechnology*, 23,101459, DOI: <https://doi.org/10.1016/j.bcab.2019.101459>.
- Ajay Kumar, Ritu Singh, **Akhilesh Yadav**, Deen Dayal Giri, Pawan Kumar Singh and Kapil Dev Pandey (2016). Isolation and characterization of bacterial endophytes of turmeric rhizome. *3 Biotech*, 6(1):60; DOI: [10.1007/s13205-016-0393-y](https://doi.org/10.1007/s13205-016-0393-y).
- Akhilesh Yadav**, Asha Lata Singh, Govind Kumar Rai and Major Singh (2013). Assessment of diversity in rhizobia isolated from chickpea (*Cicer arietinum* L.) and structural analysis of 16S rDNA from *Mesorhizobium ciceri*. *Polish Journal of Microbiology*, 62 (3):253–262; <https://pubmed.ncbi.nlm.nih.gov/24459830/>.
- Govind Kumar Rai, Neha Prakash Rai, Sanjeev Kumar, **Akhilesh Yadav**, Sushma Rathaur and Major Singh (2012). Effects of explant age, germination medium, pre-culture parameters, inoculation medium, pH, washing medium and selection regime on *Agrobacterium*-mediated transformation of tomato. *In vitro Cellular and Developmental Biology- Plants*, 48:565-578; DOI: <https://doi.org/10.1007/s11627-012-9442-3>.

NCBI Submissions:

1. Decoding of the Chickpea Rhizobium genome: *Mesorhizobiumciceri* Ca181. GenBank: ASTL01000000
2. *Mesorhizobiumciceri* Ca181 16S ribosomal RNA gene, partial sequence. GenBank: JN128834
3. RNA_seq analysis/Transcriptome of *Agrobacterium rhizogenes* into SRA databases: SRR5641651.

Awards/Achievements:

1. Qualified NET and GATE exam of India for higher study.
2. Selected for International travel fellowship from CICS, India.
3. Selected for STSM program by e-COST.