

Published Work:

2024

1. Bhagat, N., Mansotra, R., Patel, K., Ambardar, S., & Vakhlu, J. (2024). Molecular warfare between pathogenic *Fusarium oxysporum* R1 and host *Crocus sativus* L. unraveled by dual transcriptomics. *Plant Cell Reports*, 43(2), 42.
2. Andrabi, T., Sharma, N., Ambardar, S., Salgotra, R.K., Vakhlu, J. Characterization and comparison of the plant growth promoting rhizobacteria associated with Basmati-129 & Ranbir Basmati rice indigenous to Jammu & Kashmir, India. 2023;2(2):215-231. DOI: 10.59118/XOAE9995 : Published
3. Sharma, N., Raj, S., Mansotra, R., Ambardar, S., Vakhlu, J. Comparative evaluation of MG-RAST, MEGAN6 and Kraken2 for whole metagenome studies of saffron corms. *PeerJ* : In Revision

2023

4. Andrabi T, Sharma N, Ambardar S, Salgotra R.K and Vakhlu J (2023) Characterization and comparison of the plant growth promoting rhizobacteria associated with Basmati-129 & Ranbir Basmati rice indigenous to Jammu & Kashmir, India. *Microsphere*
5. Bhagat N, Mansotra R, Patel K, Ambardar S, Vakhlu J (2023). Molecular warfare between pathogenic *Fusarium oxysporum* R1 and host *Crocus sativus* L. *Plant Cell Reports*
6. Corsi GI, Gadekar VP, Haukedal H, Anton C, Ambardar S et al., 2023. The transcriptomic landscape of neurons carrying PSEN1 mutations reveals changes in extracellular matrix components and non-coding gene expression. [HYPERLINK "https://www.sciencedirect.com/journal/neurobiology-of-disease"](https://www.sciencedirect.com/journal/neurobiology-of-disease) *Neurobiology of Disease*. [HYPERLINK "https://doi.org/10.1016/j.nbd.2022.105980"](https://doi.org/10.1016/j.nbd.2022.105980)

2022

7. **Ambardar** S, Vakhlu J and R Sowdhamini (2022) Insights from the analysis of draft genome sequence of *Crocus sativus* L. *Bioinformatics* 18(1): 1-13 (2022)
8. **Book:** Vakhlu J, **Ambardar** S, Salami SA, Kole C (Eds.) (2022) *The Saffron Genome*, Springer Nature, Switzerland AG: Springer International Publishing
9. **Book chapters:** **Ambardar** S, Vakhlu J and Sowdhamini R. (2022) Reference genome of Saffron “The Golden condiment” In: Vakhlu J, **Ambardar** S, Salami SA, Kole C (Eds.) *The Saffron Genome*. Springer Nature Switzerland AG: Springer International Publishing.
10. **Book chapters:** Bhagat N, Mansotra R, **Ambardar** S and Vakhlu J (2022) Cultromic and metabarcoding insights into saffron microbiome associations. In: Vakhlu J, **Ambardar** S, Salami SA, Kole C (Eds.) *The Saffron Genome*. Springer Nature Switzerland AG: Springer International Publishing

2021

11. **Ambardar** S, Bhagat N, Vakhlu J and Gowda M (2021) Diversity of Rhizo-Bacteriome of *Crocus sativus* Grown at Various Geographical Locations and Cataloging of Putative PGPRs. *Front. Sustain. Food Syst.* 5:644230. doi: 10.3389/fsufs.2021.644230 **Impact factor 5.005**
12. Chandrasekaran A, Dittlau KS, Corsi GI, Haukedal H, Doncheva NT, Ramakrishna S, **Ambardar** S, Salcedo C, Schmidt SI, Zhang Y, Cirera S, Pihl M, Schmid B, Nielsen TT, Nielsen JE, Kolko M, Kobilák J, Dinnyés A, Hyttel P, Palakodeti D, Gorodkin J, Muddashetty RS, Meyer M, Aldana BI, Freude KK. Astrocytic reactivity triggered by

- defective autophagy and metabolic failure causes neurotoxicity in frontotemporal dementia type 3. *Stem Cell Reports*. 2021 Oct 7:S2213-6711(21)00490-2. doi: 10.1016/j.stemcr.2021.09.013. Epub ahead of print. PMID: 34678206. **Impact factor: 7.76**
13. Bhagat N, Sharma S, **Ambardar S**, et al., (2021) Microbiome fingerprint as biomarker for geographical origin and heredity in *Crocus sativus*: A Feasibility Study. *Front. Sustain. Food Syst*. doi: 10.3389/fsufs.2021.688393. **Impact factor 4.996**
14. Magotra, S., Bhagat, N., **Ambardar, S. et al.** (2021) Field evaluation of PGP *Bacillus* sp. strain D5 native to *Crocus sativus*, in traditional and non traditional areas, and mining of PGP genes from its genome. *Sci Rep* 11, 5454. <https://doi.org/10.1038/s41598-021-84585-z>. **Impact factor 5.005**

2020

15. Paul, P., Iyer, S., Nadella, R.K. **Ambardar S et al.** (2020) Lithium response in bipolar disorder correlates with improved cell viability of patient derived cell lines. *Sci Rep* 10, 7428 (2020). [HYPERLINK "https://doi.org/10.1038/s41598-020-64202-1"](https://doi.org/10.1038/s41598-020-64202-1)<https://doi.org/10.1038/s41598-020-64202-1>. **Impact factor 4.996**

2019

16. **Book:** Gowda M, **Ambardar S**, Kole C (Eds.) (2019) *The Neem Genome*, Springer Nature, Switzerland AG: Springer International Publishing
17. **Book chapters:** Varalaxmi B.A, Kannan R, **Ambardar S**, Gowda M. (2019) *Neem Microbiome*. In: Gowda, M, Ambardar S, Kole C (Eds.) *The Neem Genome*. Springer Nature Switzerland AG: Springer International Publishing.

2018

18. Kour R, **Ambardar S** and Vakhlu J (2018) Plant growth promoting bacteria associated with rhizosphere of *Crocus sativus*. *Letter in applied microbiology*. [HYPERLINK "https://doi.org/10.1111/lam.13042"](https://doi.org/10.1111/lam.13042)doi.org/10.1111/lam.13042. **Impact factor 2.858**
19. **Ambardar, S.** and Vakhlu, J. (2018). Rhizobacteria from *Crocus sativus* grown in Kashmir, India. *Acta Hort.* 1200, 69-78. DOI: 10.17660/ActaHortic.2018.1200.11. Impact factor 0.26
20. **Book chapters:** **Ambardar S.**, Gowda M. (2018) High-Resolution Full-Length HLA Typing Method Using Third Generation (Pac-Bio SMRT) Sequencing Technology. In: Boegel S. (eds) *HLA Typing. Methods in Molecular Biology*, vol 1802: 135-153. Springer. Humana Press, New York, NY doi.org/10.1007/978-1-4939-8546-3_9.