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.

2023

2. 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 ndigenous to Jammu & Kashmir, India. Microsphere
3. 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. Neurobiology of Disease. https://doi.org/10.1016/j.nbd.2022.105980.

2022

4. **Ambardar** S, Vakhlu J and R Sowdhamini (2022) Insights from the analysis of draft genome sequence of Crocus sativus L. Bioinformation 18(1): 1-13 (2022)
5. **Book:** Vakhlu J, **Ambardar** S, Salami SA, Kole C (Eds.) (2022) The Saffron Genome, Springer Nature, Switzerland AG: Springer International Publishing
6. **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.
7. **Book chapters:** Bhagat N, Mansotra R, **Ambardar** S and Vakhlu J (2022) Cultromic and metabarcodic 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

8. **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**
9. 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, Kobolák 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**
10. 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**

11. 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

12. 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). https://doi.org/10.1038/s41598-020-64202-1. **Impact factor 4.996**

2019

13. **Book:** Gowda M, **Ambardar** S, Kole C (Eds.) (2019) The Neem Genome, Springer Nature, Switzerland AG: Springer International Publishing
14. **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

15. Kour R, **Ambardar** S and Vakhlu J (2018) Plant growth promoting bacteria associated with cormosphere of *Crocus sativus*. Letter in applied microbiology. doi.org/10.1111/lam.13042. **Impact factor 2.858**
16. **Ambardar**, S. and Vakhlu, J. (2018). Rhizobacteria from Crocus sativus grown in Kashmir, India. Acta Hortic. 1200, 69-78. DOI: 10.17660/ActaHortic.2018.1200.11. Impact factor 0.26
17. **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.

2017

18. **Ambardar**, S., Gupta, R., Kour, R., Trakroo, D., Sharma, S. and Vakhlu, J. (2017) Overview of the microbial associations of below ground parts of Crocus sativus. ActaHortic. 1184, 71-78. DOI: 10.17660/ActaHortic.2017.1184.11. I**mpact factor 0.26**

2016

19. **Ambardar** S, Heikham RS, Gowda M and Vakhlu J (2016) Comparitive metagenomics reveal phylum level temporal and spatial changes in the fungal community associated with belowground parts of *Crocus sativus* during flowering and dormant growth stages. PLOSone. 11(9): e0163300. doi:10.1371/journal.pone.0163300. **Impact factor: 3.240**

20. **Ambardar** S, Gupta R, Trakroo D, Lal R and Vakhlu J (2016) High Throughput Sequencing: An overview of sequencing chemistry Indian Journal of Microbiology. 56(4): 394-404 DOI 10.1007/s12088-016-0606-4. pp 1-11. **Impact factor: 2.461**
21. Gowda M, **Ambardar** S, Dighe N, Manjunath A, Shankaralingu C, Hallappa P, Harting J, Ranade S, Jagannathan L, Krishna S (2016) Comparative analyses of low, medium and high-resolution HLA typing technologies. Journal of Clinical & Cellular Immunology. Vol 7 issue 2. doi: 10.4172/2155-9899.1000399. **Impact factor: 18.15**

2014

22. **Ambardar** S, Sangwan N, Manjula A, Rajendhran J, Gunasekaran P, Lal R and jyoti Vakhlu (2014). Identification of bacteria associated with underground parts of *Crocus sativus* by 16S rRNA gene targeted metagenic approach. World Journal of microbiology and biotechnology. Volume 30, Issue 10 page 2701-2709. **Impact factor: 4.272**

2013

23. **Ambardar** S and Vakhlu J. (2013) Plant growth promoting bacteria from *Crocus sativus* rhizosphere. World Journal of microbiology and biotechnology. Volume 29, Issue 12 (2013), Page 2271-2279 **Impact factor: 4.272**

2012

24. **Book chapters:** Vakhlu J, **Ambardar** S and Johri B.N (2012). Metagenomics – a relief road to novel microbial genes and genomes. In Editor/s T. Satyanarayana, Bhavdish Narain Johri, Anil Prakash. *Microorganisms in Sustainable Agriculture and Biotechnology*, 263-294 Springer.