

# Mukund R Shukla

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

993  
citations

623574

14  
h-index

454834

30  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of melatonin in alleviating cold stress in <i>A. rabidopsis thaliana</i> . Journal of Pineal Research, 2014, 56, 238-245.	3.4	334
2	Melatonin enhances the recovery of cryopreserved shoot tips of <i>American elm</i> ( <i>Ulmus americana</i> L.). Journal of Pineal Research, 2013, 55, 435-442.	3.4	83
3	Melatonin and serotonin: Mediators in the symphony of plant morphogenesis. Journal of Pineal Research, 2018, 64, e12452.	3.4	81
4	An efficient temporary immersion system for micropropagation of hybrid hazelnut. Botany, 2016, 94, 1-8.	0.5	41
5	Application of 3D printing to prototype and develop novel plant tissue culture systems. Plant Methods, 2017, 13, 6.	1.9	40
6	In vitro conservation of American elm ( <i>Ulmus americana</i> ): potential role of auxin metabolism in sustained plant proliferation. Canadian Journal of Forest Research, 2012, 42, 686-697.	0.8	38
7	Identification and characterization of serotonin as an anti-browning compound of apple and pear. Postharvest Biology and Technology, 2015, 110, 183-189.	2.9	36
8	Cryopreservation of the critically endangered golden paintbrush ( <i>Castilleja levisecta</i> Greenm.): from nature to cryobank to nature. In Vitro Cellular and Developmental Biology - Plant, 2018, 54, 69-78.	0.9	23
9	Epigenetic and Genetic Integrity, Metabolic Stability, and Field Performance of Cryopreserved Plants. Plants, 2021, 10, 1889.	1.6	22
10	Plant Cryopreservation for Biotechnology and Breeding. , 2015, , 63-93.		19
11	Development of cryopreservation methods for cherry birch ( <i>Betula lenta</i> L.), an endangered tree species in Canada. Canadian Journal of Forest Research, 2016, 46, 1284-1292.	0.8	19
12	A simple and efficient method for analysis of plant growth regulators: a new tool in the chest to combat recalcitrance in plant tissue culture. Plant Cell, Tissue and Organ Culture, 2017, 131, 459-470.	1.2	19
13	Cryopreservation of potato microtubers: the critical roles of sucrose and desiccation. Plant Cell, Tissue and Organ Culture, 2016, 124, 649-656.	1.2	18
14	In vitro propagation of cherry birch ( <i>Betula lenta</i> L.). Canadian Journal of Plant Science, 0, , 571-578.	0.3	17
15	Root cryopreservation to biobank medicinal plants: a case study for <i>Hypericum perforatum</i> L.. In Vitro Cellular and Developmental Biology - Plant, 2019, 55, 392-402.	0.9	17
16	High light intensity stress as the limiting factor in micropropagation of sugar maple ( <i>Acer saccharum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	16
17	In Vitro Technology in Plant Conservation: Relevance to Biocultural Diversity. Plants, 2022, 11, 503.	1.6	15
18	Development of a reliable <i>Corylus</i> sp. reference database through the implementation of a DNA fingerprinting test. Planta, 2019, 249, 1863-1874.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Root cryobanking: an important tool in plant cryopreservation. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 49-66.	1.2	13
20	Improved in vitro rooting in liquid culture using a two piece scaffold system. <i>Engineering in Life Sciences</i> , 2020, 20, 126-132.	2.0	12
21	Saving threatened plant species: Reintroduction of Hill's thistle ( <i>Cirsium hillii</i> . (Canby) Fernald) to its natural habitat. <i>PLoS ONE</i> , 2020, 15, e0231741.	1.1	11
22	Micropropagation of African Violet ( <i>Saintpaulia ionantha</i> Wendl.). <i>Methods in Molecular Biology</i> , 2012, 11013, 279-289.	0.4	10
23	In Vitro and Cryobiotechnology Approaches to Safeguard <i>Lupinus rivularis</i> Douglas ex Lindl., an Endangered Plant in Canada. <i>Agronomy</i> , 2021, 11, 37.	1.3	10
24	Iron supplementation promotes in vitro shoot induction and multiplication of <i>Baptisia australis</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 129, 145-152.	1.2	9
25	Conservation, propagation, and redistribution (CPR) of Hill's thistle: paradigm for plant species at risk. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 145, 75-88.	1.2	9
26	In vitro rooting of hybrid hazelnuts ( <i>Corylus avellana</i> L. × <i>Corylus americana</i> ) in a temporary immersion system. <i>Botany</i> , 2020, 98, 343-352.	0.5	8
27	Deciphering the Genome-Wide Transcriptomic Changes during Interactions of Resistant and Susceptible Genotypes of American Elm with <i>Ophiostoma novo-ulmi</i> . <i>Journal of Fungi (Basel)</i> , Tj ETQq1 1 0.784314rgBT /Overlock 10		
28	Growth regulating properties of isoprene and isoprenoid-based essential oils. <i>Plant Cell Reports</i> , 2016, 35, 91-102.	2.8	6
29	Physiological and Molecular Responses of Six Apple Rootstocks to Osmotic Stress. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8263.	1.8	6
30	In vitro propagation and reintroduction of golden paintbrush ( <i>Castilleja levisecta</i> ), a critically imperilled plant species. <i>Canadian Journal of Plant Science</i> , 2018, 98, 762-770.	0.3	5
31	Role of water percolation in reproductive physiology of hazelnut ( <i>Corylus</i> spp.). <i>Environmental and Experimental Botany</i> , 2021, 182, 104278.	2.0	5
32	Selection and Micropropagation of an Elite Melatonin Rich Tulsi ( <i>Ocimum sanctum</i> L.) Germplasm Line. <i>Agronomy</i> , 2021, 11, 207.	1.3	5
33	Micropropagation and Cryopreservation of Yukon Draba ( <i>Draba yukonensis</i> ), a Special Concern Plant Species Endemic to Yukon Territory, Canada. <i>Plants</i> , 2021, 10, 2093.	1.6	5
34	In Vitro Technologies for American Chestnut ( <i>Castanea dentata</i> (Marshall) Borkh) Conservation. <i>Plants</i> , 2022, 11, 464.	1.6	5
35	Comparative Analysis of Transcriptomes of <i>Ophiostoma novo-ulmi</i> ssp. <i>americana</i> Colonizing Resistant or Sensitive Genotypes of American Elm. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 637.	1.5	5
36	Investigating the roles of phenylpropanoids in the growth and development of <i>Zea mays</i> L.. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2013, 49, 765-772.	0.9	4

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37	Rootstocks Overexpressing StNPR1 and StDREB1 Improve Osmotic Stress Tolerance of Wild-Type Scion in Transgrafted Tobacco Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8398.	1.8	4
38	Improved Conservation of Coffee ( <i>Coffea arabica</i> L.) Germplasm via Micropropagation and Cryopreservation. <i>Agronomy</i> , 2021, 11, 1861.	1.3	3