



Multanimal Modi College

Modinagar-201204 (U.P.)

(Affiliated to Ch. Charan Singh University, Meerut)
(For Teaching Staff)

Title	Dr.	First Name	Vaishali	Last Name	Yadav	Photograph
Designation		Assistant Professor				
Department		Department of Botany				
Address (Campus/Department)		151-B, Sanjeevani Estate, Near Sikri Railway Crossing, Modinagar, Ghaziabad, Pin Code-201204				
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EDUCATIONAL QUALIFICATIONS

Subject	Institution	Year	Details
Ph.D.	University of Allahabad	2021	Title: "An ionomics approach for the detoxification of nanoparticles induced phytotoxicity in plants"
M.Phil.	-	-	-
M.Sc.	University of Allahabad	2013-2015	Subject ; Botany
B.Sc.	University of Allahabad	2010-2013	Subject ; Botany, Zoology, Chemistry

CAREER PROFILE

Organization / Institution	Designation	Duration	Role(s)
Multanimal Modi College, Modinagar (Affiliated to C.C.S. University, Meerut)	Assistant Professor		Teaching faculty in the Dept. of Botany

Research Interests / Specialization:

Plant Physiology (Stress Physiology), Plant ecology, Nanotechnology.

Honors & Awards:

Awarded CSIR-NET-JRF in 2018

Best Poster Paper Presentation (International Conference On Environmental And Ecology - 2021)

Best Oral Paper Presentation (National Seminar On Sustainability Of Agriculture In Changing Climate Scenario-2018)

Publications (Last FIVE (05) Year Publications)

Year of Publication	Title	Journal/Book(s)	Co-Author(s)
2016	Exogenous mineral regulation under heavy metal stress: advances and prospects	Biochemistry and Pharmacology	Yadav V , Arif N, Singh S, Srivastava PK, Sharma S, Tripathi DK, Dubey NK, Chauhan DK
2016	Influence of high and low levels of plant-beneficial heavy metal ions on plant growth and development	Frontiers in environmental science	Arif N, Yadav V , Singh S, Singh S, Ahmad P, Mishra RK, Sharma S, Tripathi DK, Dubey NK, Chauhan DK.
2016	Assessment of antioxidant potential of plants in response to heavy metals	In Plant responses to xenobiotics	Arif N, Yadav V , Singh S, Kushwaha BK, Singh S, Tripathi DK, Vishwakarma K, Sharma S, Dubey NK, Chauhan DK

2016	Current trends of engineered nanoparticles (ENPs) in sustainable agriculture: an overview	Journal of Environmental & Analytical Toxicology	Arif N, Yadav V , Singh S, Singh S, Mishra RK, Sharma S, Dubey NK, Tripathi DK, Chauhan DK.
2016	Silicon: A Potential Element to Combat Adverse Impact of UV-B in plants	UV-B radiation: from environmental stressor to regulator of plant growth	Tripathi DK, Shweta SS, Yadav V , Arif N, Singh S, Dubey NK, Chauhan DK.
2018	Interaction of copper oxide nanoparticles with plants: uptake, accumulation, and toxicity	Nanomaterials in plants, algae, and microorganisms	Arif N, Yadav V , Singh S, Tripathi DK, Dubey NK, Chauhan DK, Giorgetti L
2018	Acquisition and homeostasis of iron in higher plants and their probable role in abiotic stress tolerance	Frontiers in Environmental Science	Tripathi DK, Singh S, Gaur S, Singh S, Yadav V , Liu S, Singh VP, Sharma S, Srivastava P, Prasad SM, Dubey NK.
2019	Understanding heavy metal stress in a rice crop: toxicity, tolerance mechanisms, and amelioration strategies	Journal of Plant Biology	Arif N, Sharma NC, Yadav V , Ramawat N, Dubey NK, Tripathi DK, Chauhan DK, Sahi S
2019	Regulation of cadmium toxicity in roots of tomato by indole acetic acid with special emphasis on reactive oxygen species production and their scavenging	Plant Physiology and Biochemistry	Khan MY, Prakash V, Yadav V , Chauhan DK, Prasad SM, Ramawat N, Singh VP, Tripathi DK, Sharma S
2020	Structural modifications of plant organs and tissues by metals and metalloids in the environment: a review	Plant Physiology and Biochemistry	Yadav V , Arif N, Kováč J, Singh VP, Tripathi DK, Chauhan DK, Vaculík M
2020	Heavy metal stress and plant life: uptake mechanisms, toxicity, and alleviation	Plant Life Under Changing Environment	Singh S, Yadav V , Arif N, Singh VP, Dubey NK, Ramawat N, Prasad R, Sahi S, Tripathi DK, Chauhan DK
2020	Roles of microRNAs in plant development and stress tolerance	Plant Life Under Changing	Yadav V , Arif N, Singh VP, Deshmukh R, Sahi S, Shivaraj

		Environment	SM, Tripathi DK, Chauhan DK
2021	Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants	Critical Reviews in Biotechnology	Chauhan DK, Yadav V , Vaculík M, Gassmann W, Pike S, Arif N, Singh VP, Deshmukh R, Sahi S, Tripathi DK
2021	Histochemical techniques in plant science: More than meets the eye	Plant and Cell Physiology	Yadav V , Arif N, Singh VP, Guerriero G, Berni R, Shinde S, Raturi G, Deshmukh R, Sandalio LM, Chauhan DK, Tripathi DK
2021	Endogenous indole-3-acetic acid and nitric oxide are required for calcium-mediated alleviation of copper oxide nanoparticles toxicity in wheat seedlings	Physiologia Plantarum	Yadav V , Gill RA, Arif N, Gill SA, Singh VP, Ramawat N, Zhou W, Tripathi DK, Chauhan DK
2021	A comparative study of the effective response of di-potassium phosphate (K ₂ HPO ₄) on physiological, biochemical and anatomical aspects of crops dwelling with zinc oxide nanoparticles toxicity	Toxicology research	Yadav V. , Arif, N., & Chauhan, D. K
2022	Diverse Physiological Roles of Flavonoids in Plant Environmental Stress Responses and Tolerance	Plants	Shomali, A., Das, S., Arif, N., Sarraf, M., Zahra, N., Yadav, V. , ... & Hasanuzzaman, M

Conference Presentations: National / International

1.	Application of LIBS to detect multiple stress impact on nutrient regulation in rice seedlings	MMISLIBS	University of Allahabad	19-21 February, 2018	International
2.	Calcium mitigates the toxic Impacts of CuO Nanoparticles Stressed Wheat (<i>Triticum aestivum L.</i>) Seedlings by regulating Antioxidant System	Biosangam	MNNIT, ALLAHABAD	9-11 March 2018,	International
3.	Calcium Mediated Mitigation of Ag-Nps Induced Toxicity in Tomato (<i>Solanum Lycopersicum L.</i>) Seedlings	Sustainability of Agriculture in Changing climate scenario	University of Allahabad	21-22 April, 2018	National
4.	Calcium Mediated Mitigation of Toxicity of CuONps In Wheat (<i>Triticum aestivum L.</i>) seedlings	The Indian science congress Association	Lovely professional university, Jalandhar	3-7 January, 2019	International
5.	Phosphorus Mediated Amelioration of ZnONPs Toxicity in Wheat (<i>Triticum aestivum L.</i>) Seedlings	ICEE	University of Allahabad	24-26 February, 2020	International

Workshop

1.	Advances in Bioscience and Bioengineering	TEQIP -II	MNNIT, ALLAHABAD	19-25 October, 2016		
2.	Genomics, Personalized Medicine and Ethics	GIAN	MNNIT, ALLAHABAD	31 July-11 August, 2017		
3.	Emerging Biophotonics Solutions for disease diagnosis	GIAN	MNNIT, ALLAHABAD	1-12 April, 2019		
4.	Interface between Nanoparticles and Living Systems: Ethical and Translational Dimensions	GIAN	MNNIT, ALLAHABAD	15-26 July, 2019		

Vaishali Yadav

(Signature of Faculty Member)

(Signature & Stamp of Teacher In-Charge/Principal)