

Curriculum Vitae

Neha Pandey, Ph.D

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Educational Qualification	Year of passing	Board/ University
M.Sc (Botany)	2007-2009	University of Lucknow, UP
Ph.D	2010-2016	Banaras Hindu University, Varanasi
Post-Doc (DST-SERB National- Post doctoral fellow)	2016-2017	CSIR-Central Institute of Medicinal & Aromatic Plants (CSIR-CIMAP), Lucknow

PREVIOUS APPOINTMENTS:

- Assistant Professor (Botany), University of Pondicherry, (Appointed through Union Public Service Commission, New Delhi).
- Assistant Professor (Botany), Department of Botany, Dayalbagh Educational Institute (A deemed to be University), Agra.

CURRENT APPOINTMENT:

- **Assistant Professor, Department of Botany, CMP College (A constituent College of University of Allahabad), Prayagraj.**

OTHER QUALIFICATION / AWARDS:

- 1) **ISCA Young Scientist Award** 2017 at 104th ISCA conference held at SV University, Tirupati.
- 2) **Young Botanist Award (2013): Dr. Bahadur Singh Gold Medal and Dr. M.S. Swaminathan Merit Certificate**, instituted by The Indian Botanical Society, during its 36th All India National Conference.
- 3) RFSMS (Research Fellowship Scheme for Meritorious Students)-JRF + SRF (May 2012 March 2015)
- 4) **CSIR-NET (JUNE 2010)**
- 5) **GATE (2009 & 2010)**
- 6) Best Poster Presentation Award (2015). National conference at Department of Botany, Banaras Hindu University (Feb 19- Feb 20, 2015).
- 7) Life member of "The Indian Botanical Society" since 2011
- 8) Life member of "The Indian Science Congress Association" since 2016.
- 9) Member of INGSA-Asia (International network for government science advise) since 2019.

RESEARCH PUBLICATIONS:

Top Journals:

- Planta- 3 publication
- Physiologia Plantarum- 1 publication
- Biologia plantarum-1 publication
- Protoplasma- 2 publication
- Plant cell tissue and organ culture- 2 publication
- Ecotoxicology and environmental safety -1 publication
- Plant Biotechnology reports – 1 publication

S.N o.	Author(s)	Title	Name of Journal	Vol	Page	Year
1	Pandey N, Rai KK, Rai SK, Pandey-Rai S	Heterologous expression of cyanobacterial <i>PCS</i> confers augmented arsenic and cadmium stress tolerance and higher artemisinin in <i>Artemisia annua</i> hairy roots.	Plant Biotechnology Reports	In-press		
2	Pandey N and Pandey-Rai S	Deciphering UV-B-induced variation in DNA methylation pattern and its influence on regulation of DBR2 expression in <i>Artemisia annua</i> L..	Planta	242(4)	869-79	2015
3	Pandey N and Pandey-Rai S	Updates on artemisinin: an insight to mode of action and strategies for enhanced global production	Protoplasma	253(1)	15-30	2015
4	Pandey N and Pandey-Rai S	Modulations of physiological responses and possible involvement of defense related secondary metabolites in acclimation of <i>Artemisia annua</i> L. against short-term UV-B radiation.	Planta	240	611-627	2014
5	Pandey N, Goswami N, Tripathi D & Pandey-Rai S	Epigenetic control of UV-B induced Flavonoid accumulation in <i>Artemisia annua</i> L.	Planta	249(2)	497-514	2019
6	Pandey N and Pandey-Rai S	Short term UV-B radiation mediated transcriptional responses and altered secondary metabolism of in-vitro propagated plantlets of <i>Artemisia annua</i> L.	Plant Cell Tissue and Organ Culture: Journal of Plant Biotechnology.	116	371-385	2014
7	Pandey N, Meena RP, Rai SK,	In-vitro generation of high artemisinin yielding salt tolerant	Plant Cell Tissue and	127(2)	301-314	2016

	Pandey-Rai S	somaclonal variant and development of SCAR marker in <i>Artemisia annua</i> L.	Organ Culture: Journal Of Plant Biotechnology			
8	Rai KK, Pandey N , Pandey-Rai S	Salicylic acid and nitric oxide signaling in plant heat stress	Physiologia Plantarum	168(2)	241 – 255	2019
9	Rai KK, Pandey N , Meena RP, Rai SP.	Biotechnological strategies for enhancing heavy metal tolerance in neglected and underutilized legume crops: A comprehensive review.	Ecotoxicology and environmental safety	In-press		
10	Pandey N , Tripathi D, Rai SK and Pandey-Rai S	Transverse thin cell layer culture for high frequency shoot germination in <i>Boerhaavia difusa</i> L., its conservation And assessment of genetic fidelity	Plant Archives	19(1)	1093-1101	2019
11	Maurya B, Rai KK, Pandey N , Sharma L, Goswami NK and Pandey- Rai S	Influence of salicylic acid elicitation on secondary metabolites and biomass production in in-vitro cultured <i>Withania coagulans</i> (L.) Dunal.	Plant Archives	19(1)	1308-1045	2019
12	Kumari A, Pandey N , Pandey-Rai S	Exogenous salicylic acid mediated modulation of arsenic stress tolerance with enhanced accumulation of secondary metabolites and improved size of glandular trichomes in <i>Artemisia annua</i> L.	Protoplasma	255(1)	139 – 152	2018
13	Kumari A, Pandey N , Pandey-Rai S	Protection of <i>Artemisia annua</i> root and leaves against oxidative stress induced by arsenic	Biologia Plantarum	61	367– 377	2017
14	Kumari A, Pandey N , Meena RP, Tripathi D and Pandey-Rai S	<i>In-vitro</i> characterization of somaclonal variant against salt tolerance by analyzing antioxidative defense system and secondary metabolites in <i>Artemisia annua</i> L.	International Journal of Pharma and Bio Sciences.	7(2): (B)	700 – 714	2016
15	Rai KK, Pandey N and Pandey-Rai S	Effect of 2,4-D on phenolics production and detection of <i>in-vitro</i> culture-induced variation through inter-simple sequence repeat and RAPD analysis in <i>Artemisia annua</i> L.	International Journal of Pharma and Bio Sciences	5 (2) : (B)	181 – 193	2014

16	Pandey N , Meena RP, Rai SK and Pandey-Rai S	Medicinal plants derived nutraceuticals : a re-emerging health aid	International Journal of Pharma and Bio Sciences	2(4)	419-441	2011
17	Rai, K. K., Apoorva, -, Sharma, L., Pandey, N. , Meena, R. P., & Rai, S. P.	Repurposing Artemisia annua L. Flavonoids, Artemisinin and Its Derivatives as Potential Drugs Against Novel Coronavirus (SARS – nCoV) as Revealed by In-Silico Studies.	International Journal of Applied Sciences and Biotechnology	8(4)	374-393	2020

Book Chapters: **7 (All International Publishers)**

Top Publisher:

- SpringerNature -2 publication
- CABI, Oxfordshire, U K – 1 publication
- Elsevier – 1 publication
- NOVA publications, USA – 3 publications

Papers presented in National Conferences: 22

Papers presented in International Conferences: 11