

CURRICULUM VITAE

Name: Dr. Harish

Current Position: Assistant Professor
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Academic Qualification

HIERARCHY	YEAR	INSTITUTE
Dr. D. S. Kothari Post Doc Fellowship	2009	Jai Narain Vyas University, Jodhpur (India)
Ph.D.	2007	Jai Narain Vyas University, Jodhpur (India)
M.Sc. Botany (COSIST)	2002	Jai Narain Vyas University, Jodhpur (India)

Ph.D thesis Details

Title : Bioremediation of Polluted Water in Indian Desert

Supervisor : Prof. S. Sundaramoorthy

University : Jai Narain Vyas University, Jodhpur

Year of Award : 2008

Professional Recognition/ Award/ Prize/ Certificate, Fellowship received:

S.No.	Name of Award	Awarding Agency	Year
1.	NET - JRF & SRF	CSIR, New Delhi	2003-2008
2.	Dr. D.S. Kothari Post Doc Fellowship	UGC, New Delhi	2009-2012
3.	UGC-Start up Grant for Newly Recruited Faculty	UGC, New Delhi	2013-2015

Work experience:

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1.	Lecturer (Against Leave Vacancy of TRF)	Govt. College, Merta, Nagaur, Rajasthan	2008	2009	8000
2.	Dr. D.S. Kothari Post Doc Fellow	Department of Botany, Jai Narain Vyas University, Jodhpur	2009	2012	24000
3.	Assistant Professor	Mohanlal Sukhadia University, Udaipur	2012	Till date	15600-39100 + 7000 (AGP)

Publications:

Highlights:

- **Total Impact Factor: 26.446**
- Citations: 469
- h-index: 12
- i₁₀-index: 14
- Total Publication: 26 Papers and 3 chapters in edited books

Important Publications:

S. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Harish, Sundaramoorthy, S., Kumar, D., Vaijapurkar, S. G.,	A new chlorophycean nickel hyperaccumulator	Bioresource Technology (IF: 5.651)	99	3930- 3934	2008
2.	Harish, Sundaramoorthy, S., Kumar, D., Vaijapurkar, S. G.,	Response of Anabaena PCC 7120 to copper stress.	Journal of Plant Biology	34	179- 183	2009
3.	Harish, Sundaramoorthy, S.	Cadmium Tolerance in the Chlorophycean Chlorococcum hemicolum (Näg.)	Journal of Indian Botanical Society	88 (1 & 2)	140- 143	2009

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4.	Harish , Sundaramoorthy, S.	Response of Anabaena PCC 7120 to Nickel and Cadmium Stress.	International Journal of Ecology and Environmental Sciences.	35(4)	359-363	2009
5.	Harish , Shilpkar, D., Sundaramoorthy, S.	Heavy metals removal kinetics by Chlorococcum hemicolum and Anabaena PCC 7120.	Journal of Indian Botanical Society.	89 (1&2):	166-168	2010
6.	Rai, M.K., Shekhawat, N.S., Harish , Gupta, A.K., Phulwaria, M., Ram, K., Jaiswal, U.	The role of abscisic acid in plant tissue culture – a review of recent progress.	Plant Cell Tissue and Organ Culture. (IF: 2.002)	106	179-190	2011
7.	Phulwaria, M., Ram, K., Harish , Gupta, A.K., Shekhawat, N.S.	Micropropagation of mature Terminalia catappa (Indian almond) - a medicinal and ornamental tree of tropical region.	Journal of Forest Research (IF: 0.667)	17	202-207.	2012
8.	Shekhawat, M.S., Shekhawat, N.S., Harish , Ram, K., Phulwaria, M., Gupta, A.K.,	High frequency plantlet regeneration from nodal shoot segment culture of female Momordica dioica (Roxb.).	Journal of Crop Science and Biotechnology (Springer)	14 (2)	133-137.	2011
9.	Phulwaria, M., Rai, M.K., Harish , Gupta, A.K., Ram, K., Shekhawat, N.S.,	An improved micropropagation of Terminalia bellirica from nodal explants of mature tree.	Acta Physiologiae Plantarum (IF: 1.364)	34	299-305	2012
10.	Gupta, A.K.,* Harish *, Rai, M.K., Phulwaria, M., Shekhawat, N.S.	Isolation of genomic DNA suitable for community analysis from mature trees adapted to arid environment.	Gene (IF: 2.415)	487	156-159	2011
11.	Harish , Gupta, A.K., Ram, K., Singh, B., Phulwaria, M., Shekhawat, N.S.	Molecular and biochemical characterization of different accessions of Fenugreek (Trigonella foenum-graecum L.).	Libyan Agriculture Research Center Journal Internation	2(3)	150-154	2011
12.	Panwar, D., Ram, K., Harish , Shekhawat, N.S.	In vitro propagation of Eulophia nuda Lindl., an endangered orchid.	Scientia Horticulturae (IF: 1.624)	139	46–52	2012

13.	Shekhawat, N.S., Mohnot, S., Phulwaria, M., Harish , Shekhawat, S.	Micropropagation of Salvadora oleoides - an oil yielding tree of arid forests.	Journal of Sustainable Forestry (IF: 0.625)	31	620- 632	2012
14.	Rai, Manoj K., Phulwaria M., Harish , Gupta Amit K., Shekhawat N.S., Jaiswal U.	Genetic homogeneity of guava plants derived from somatic embryogenesis using SSR and ISSR markers.	Plant Cell Tiss Organ Cult. (IF: 2.002)	111	259- 264	2012
15.	Shekhawat, N.S., Phulwaria, M., Harish , Rai, Manoj K., Kataria, V., Shekhawat, S., Gupta, A.K., Rathore, N.S., Vyas, M., Rathore, N., Vibha, J.B., Choudhary, S.K., Patel, A.K., Lodha, D., Modi, R.	Bioresearches of Fragile Ecosystem/Desert.	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. (IF: 0.425)	82(S2)	319- 334.	2012
16.	Shekhawat, S., Shekhawat, N.S., Choudhary, S.K., Harish , Kataria, V.	Peduncle, a potential source of competent cells for plant regeneration in pearl millet (Pennisetum glaucum).	Phytomorphology	62	1-11	2012
17.	Shekhawat S., Choudhary, S.K., Harish , Gupta A.K., Shekhawat N.S.	Determination of genetic diversity of the Morinda tinctoria population in historical Mandore garden.	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. (IF: 0.425)	83	367- 370	2013
18.	Harish , Amit Kumar Gupta, Mahendra Phulwaria, Manoj Kumar Rai, Narpal Singh Shekhawat.	Conservation genetics of endangered medicinal plant Commiphora wightii in Indian Thar Desert	Gene (IF: 2.415)	535	266- 272	2014
19.	Amit Kumar Gupta, Harish , Manoj Kumar Rai, Mahendra Phulwaria, Tanvi Agarwal, Narpal	In Vitro Propagation, Encapsulation, and Genetic Fidelity Analysis of Terminalia arjuna: a Cardioprotective	Appl Biochem Biotechnol (IF: 1.751)	173	1481- 1494	2014

	Singh Shekhawat.	Medicinal Tree.				
20.	Saxena, P., and Harish.	Phyco-nanotechnology: New Horizons of Gold Nano-Factories.	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. (IF: 0.425)	https://doi.org/10.1007/s40011-016-0813-0	1-11	2016
21.	Seth, K, and Harish.	Current status of potential applications of repurposed Cas9 for structural and functional genomics of plants.	Biochemical and Biophysical Research Communications. (IF: 2.466)	480	499-507	2016
22.	Choudhary, S.K., Patel, A., Harish, Shekhawat, S., Shekhawat, N.S..	An improved micropropagation system, ex vitro rooting and validation of genetic homogeneity in wild female Momordica dioica: an underutilized nutraceutical vegetable crop.	Physiol Mol Biol Plants. (IF: 0.883)	23(3)	713-722	2017
23.	Seth, K. Harish.	The mysterious circle: Molecular curiosities of RNA mediated gene regulation.	Gene Reports (Elsevier)	9	13-19	2017
24.	Saxena Pallavi and Harish	Nanoecotoxicological reports of engineered metal oxide nanoparticles on algae.	Current Pollution Reports (Springer)	Accepted		2018

Books/Reports/Chapters/General articles etc:

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Phytoremediation: A novel strategy to heal pollution problem in a natural way.	Harish and Sundaramoorthy, S.	In: Advances in Applied Biotechnology, (Eds.) Parihar, P. and Parihar, L., Agrobios (India), Jodhpur, 303-326. ISBN No. 13: 9788177543766.	2008
2.	Conservation Genetics: a new approach to protect threatened plants.	Harish and Saxena P.	In: Environmental Impact on Biodiversity, Edited by B. R. Bamniya and B. R. Gadi. Published by Today & Tomorrow's Printers and Publishers, New Delhi. 143-154. ISBN No. 81-7019 (India) ISBN 1-55528- (USA)	2016

3.	Current trends of research in algal biotechnology: a review.	Saxena P, Sangela V, Kumar M, Tak PK, Seth K, Harish.	In: Urbanization and Environment Issue and Challenges, Edited by Dr. S.K. Barbar, Dr. Lalit Singh Jhala, Dr. Kirti Maheshwari, Published by Himanshu Publications, Udaipur and New Delhi. ISBN No. 978-81-7906-634-8.	2017
4.	Phyconanosynthesis: Algae in the world of nano.	Saxena, P., Harish.	Lambert Academic Publishing. Germany. ISBN No. 978-3-330-08625-8.	2017

Participation in Training Programmes/Workshops/Seminars

1. Short term training at **BANARAS HINDU UNIVERSITY, VARANASI** on Algal Physiology and bioremediation kinetics during 20th to 30th April, 2004.
2. DBT sponsored training course (February 2nd to 22nd, 2010) on “Molecular Markers and their Applications in Plant Sciences” at **UNIVERSITY OF PUNE, PUNE**
3. Training workshop on “Systematics and Evolution” organized by CEMDE, **UNIVERSITY OF DELHI, DELHI** from 9th – 15th March, 2011.
4. Training workshop on “Bioinformatics: Genome and Sequence Analysis” organized by Birla Institute of Scientific Research (BISR), Jaipur during 8-10 December, 2011.

NCBI submissions:

- Seven sequences of rbcLa of different species of Combretaceae submitted and their accession numbers are: JF747599.1, JF747600.1, JF747601.1, JF747602.1, JF747603.1, JF747604.1, JF747605.1

Skills:

- Hands on instruments like Electrophoresis (both SDS-PAGE and Agarose Gel), PCR, Gel Documentation System, Fluorescent Microscope, Spectrophotometer, Refrigerated Centrifuges, Atomic Absorption Spectrophotometer, etc. Well versed with Statistical analysis like ANOVA, DMRT, Cluster Analysis (UPGMA, Neighbor Joining, Maximum Parsimony, Maximum Likelihood), Boot Strapping and Jack Knifing, Gst, Gene flow analysis, Shanon’s diversity measurement, Nei’s genetic diversity, AMOVA, Principal Component Analysis, Mantel Test etc. using various software platform like SPSS, Prism, NTSYS, POPGENE, Arlequin, GenElx, Biodiversity Pro etc.

Current Research Area:

- Currently we are working on various aspects of algal research that includes, ecotoxicological studies of nanoparticles on algal physiology, phyconanosynthesis, biodiesel production from algae, production of high value compounds and molecular systematics of algal flora. However, given the expertise and technical understanding, we are open for any kind of collaborations in the field of molecular biology, genomics, transcriptomics, DNA barcoding, genetic diversity etc.