

Profile of K. S. Vishwakarma

Dr. Kishor Sukhlal Vishwakarma
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Educational Qualifications:

Degree	Yea	University	Division
B. Sc.	1988	Nagpur University, Nagpur	Second
M. Sc.	1991	Nagpur University, Nagpur	First
B. Ed.	1992	Nagpur University, Nagpur	First
SET	1997	Conducted by Pune University, Pune	Qualified
Ph.D.	2015	North Maharashtra University,	--
Ph. D. Thesis Title: “Tissue culture studies in some medicinally important plants of family <i>Leguminosae</i> Juss.”			

Teaching Experience: Total 27 Years

- Teaching Experience (PG) : 18 Years
- Teaching Experience (UG) : 9 Years

Area of Research/Expertise:

- Plant Biochemistry and Biotechnology
- Secondary metabolites and biological activities

Awards etc. :

- “INSA Visiting Fellowship” for one month from Indian National Science Academy (2004).
- Honorary fellow of Society for Science and Environment (FSSE).
- “Best Teacher Award” of North Maharashtra University, Jalgaon (2015).

Details of research grant received from different agencies:

□ Completed Projects;

<i>Name of the Investigator</i>	<i>Title of the project and duration</i>	<i>Amount sanctioned</i>	<i>Funding Agency</i>
K. S. Vishwakarma (P-I)	<ul style="list-style-type: none"> Improvement of Niger (<i>Gauzotia abyssinica</i>) an edible oil crop. Duration : 02 Years (03.12.2001 to 11.09.2003) 	00.12 Lakhs	University Grants Commission
Prof. V. L. Maheshwari (PI) K. S. Vishwakarma (Co-I)	<ul style="list-style-type: none"> Plant Cyclotides : An alternative and sustainable approach to storage pest management in grain legumes (pulses). Duration : 03 Years (23.03.2006 to 31.03.2009) 	22.44 Lakhs	Deptt. of Biotechnology, Govt. of India.
K. S. Vishwakarma (P-I) Prof. V. L. Maheshwari (Co-I)	<ul style="list-style-type: none"> Digitized inventory of medicinal plant resources of Maharashtra region. Duration : 03 Years (18.03.2009 to 31.03.2012) 	23.40 Lakhs	Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra
Prof. V. L. Maheshwari (PI) K. S. Vishwakarma (Co-I)	<ul style="list-style-type: none"> Bioprospecting and pesticidal property of circular proteins Duration : 03 Years (04.01.2010 to 03.01.2013) 	17.11 Lakhs	Deptt. of Science & Technology, Govt. of India
K. S. Vishwakarma (P-I) Prof. V. L. Maheshwari (Co-I)	<ul style="list-style-type: none"> Micropropagation and bioprospecting of some medicinally important plants. Duration : 03 Years (01.02.2010 to 31.03.2013) 	07.17 Lakhs	University Grants Commission
Prof. V. L. Maheshwari (PI) K. S. Vishwakarma (Co-I)	<ul style="list-style-type: none"> Application of plant Proteinaceous α-amylase inhibitor in food processing and post harvest preservation (01.2019 to 12. 2021) (Multi-institutional Project with NCL, Pune and SU, Kolhapur) 	68 Lakhs for 03 institution	Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra, Mumbai

□ **Departmental Research Scheme;**

<i>Name of the Investigator</i>	<i>Title of the project and duration</i>	<i>Amount sanctioned</i>	<i>Funding Agency</i>
Dr. P. R. Puranik (Co-ordinator) K. S. Vishwakarma (Dy. Co-ordinator)	• UGC-SAP-DRS-Phase-II Programme for the School of Life Sciences on “Agrobiotechnology” (01.04.2009 to 31.03.2014).	66.50 Lakhs	University Grants Commission
K. S. Vishwakarma (Co-ordinator) N. D. Dandi (Dy. Co-ordinator)	• UGC-SAP-DRS-Phase-III Programme for the School of Life Sciences on “Agrobiotechnology” (01.04.2015-31.03.2020).	100.33 Lakhs	University Grants Commission

□ **University Multi-institutional Project;**

<i>Name of the Investigator</i>	<i>Title of the project and duration</i>	<i>Amount sanctioned</i>	<i>Funding Agency</i>
Prof. A. B. Chaudhari (Co-ordinator) Prof. S. T. Bendre (PI) K. S. Vishwakarma (Co Investigator) Dr. H. L. Tidke (CoI) Dr. Jaspal Bange (CoI)	• Cillage based Area Development Programme for Nandurbar (18.06.2019 to 17.06.2022).	1395.91 Lakhs	Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra, Mumbai

Publications;

□ **Research Publications:**

1. **K. S. Vishwakarma**, S. I. Mohammed, A. R. Chaudhari, N. S. Salunkhe, V. L. Maheshwari, Micropropagation and *Agrobacterium rhizogenes* mediated transformation studies in *Mucuna pruriens* (Linn.) DC., Indian Journal of Natural Product Resources., June-2017, 8(2), pp- 172-178.
2. S. I. Mohammad, N. S. Salunkhe, **K. S. Vishwakarma**, V. L. Maheshwari (2016). Experimental validation of antidiabetic potential of *Cayratia trifolia* (L.) Domin: An indigenous medicinal plant. *Indian Journal of Clinical Biochemistry*. DOI 10.1007/s12291-016-0598-1.
3. S. I. Mohammad, **K. S. Vishwakarma**, V. L. Maheshwari (2016). Evaluation of larvicidal activity of essential oil from leaves of *Coccinia grandis* against three mosquito species. *Journal of Arthropod Borne Diseases*.

4. S. I. Mohammad, M. Z. Chopda, R. H. Patil, **K. S. Vishwakarma**, V. L. Maheshwari (2016). *In vivo* antidiabetic and antioxidant activities of *Coccinia grandis* leaf extract against streptozotocin induced diabetes in experimental rats. *Asian Pacific Journal of Tropical Disease*. 6(4): 298-304.
5. S. I. Mohammad, **K. S. Vishwakarma**, V. L. Maheshwari (2015). *In vitro* comparative antioxidant activity of two medicinally important climbers, *Coccinia grandis* and *Cayratia trifolia*. *Advances in Pharmacology and Toxicology*. 16(3): 57-68.
6. Bhalerao B. M., **Vishwakarma K. S.** and Maheshwari V. L. (2013). *Tinospora cardifolia* (Willd.) Miers ex Hook. f. & Thomas:- plant tissue culture and comparative chemo-profiling study as a function of different supporting trees. *Indian Journal of Natural Products and Resources*. 4(4): 380- 386.
7. Bhalerao B. M., Kasote D. M., Nagarkar B. E., Jagtap S. D., **Vishwakarma K. S.**, Pawar P.K. and Maheshwari V. L. (2012). Comparative analysis of radical scavenging and immunomodulatory activities of *Tinospora cordifolia* growing with different supporting trees. *Acta Biologica Szegediensis*. 56(1): 65-71.
8. Mhaskar A. V., Prakash K., **Vishwakarma K. S.** and Maheshwari V. L. (2011). *In vitro* regeneration of *Clitoria ternatea* L. through auxillary bud culture. *International Journal of Pharma and Bio Sciences*. 5(1): 17-23.
9. **Vishwakarma K. S.**, Patel K. N., Chaudhari A. R., Bhalerao B. M. and Maheshwari V. L. (2010) High frequency *in vitro* multiplication and plant regeneration in *Clitoria ternatea* L (white single var). *Journal in Advances in Science and Technology*. (Spl. Issue), 13 (02): 39-43.
10. Mhaskar A.V., Prakash K., **Vishwakarma K. S.** and Maheshwari V L. (2010). Callus induction and antimicrobial activity of seed and callus extracts of *Clitoria ternatea* L. *Current Trends in Biotechnology and Pharmacy*. 3(4): 561-567.
11. Prakash K., Patil R. H., **Vishwakarma K.** and Maheshwari V. L. (2008). Bioprospecting for bioactive circular protein(s) in indigenous plants. *Journal of Plant Biology*. 35(1): 53-57.

□ **Review:**

1. Salunke B. K, Prakash K, **Vishwakarma K. S.** and Maheshwari V. L (2009) Plant metabolites: an alternative and sustainable approach towards post harvest pest management in pulses. *Physiology and Molecular. Biology of. Plants*. 15(3): 185-197.

□ **Papers published in proceedings of Symposia/conferences/book chapters:**

1. Kiran R Marathe, K R, Patil, R H, **Vishwakarma, K S**, Chaudhari, A B and Maheshwari, V L (2019). Protease inhibitors and their applications: An overview. In : Studies in Natural Products Chemistry, (Bioactive Natural Products) (Ed. : Atta-ur-Rahman) Elsevier Science Publishers, Amsterdam, Vol. 62, 211-235 (ISSN no. 1572 5995).
2. Prakash K., Patil, R. H., **Vishwakarma K.S.** and Maheshwari V. L. (2010). Global Food (grain legumes) security and role of biopesticides . In: *Global Food Security: Concern, Reality and Remedies*, Seema Joshi, Anil Dongre and Sameer Narkhede (eds.), Himalaya Publications, Mumbai. 221-229.
3. Patil R. H., Prakash K., **Vishwakarma K. S.** and Maheshwari V. L. (2009). Biotechnological production of statins by filamentous fungi and application of these cholesterol lowering drugs. In: *Biotechnology : Emerging trends*, Sayyed R. Z. and Patil A. S. (Eds.). 280-292.
4. K. Prakash, R. H. Patil, **K. S. Vishwakarma** and V. L. Maheshwari (2008) Circular proteins and pest management in grain legumes storage ecosystem. **Proc. of First National Young Scientists Congress, NIT Kurukshetra** (Nov. 2008).

Books:

(as one of the editors)

1. "Environmental Degradation and Management" vol. I (2005)
ISBN-81-85543-05-4.
2. "Environmental Degradation and Management" vol. II (2006)
ISBN-81-85543-06-2.
3. "Environmental Degradation and Management" vol. III (2007)
ISBN-81-85543-07-0.
4. "Recent Trends in Pharmaceutical Sciences and Environment" (2008)
ISBN-81-85543-08-9.
5. "Recent Trends in Pharmaceutical Sciences and Environment" (2009)
ISBN-81-85543-09-7.

Book:

One of the contributors to the book entitled “Important Medicinal Plant Resources of Maharashtra”, published by ARI, Pune, sponsored by RGSTC, Mumbai.

Serving on Editorial Boards

1. “Journal of Pharmacology and Toxicology” (ISSN 0973 - 2381).
2. “International Journal of Pharmacology and Biological Sciences” (ISSN 0973 - 6808).
3. “International Journal of Innovations in Biological Sciences” (ISSN 2277-2367).

- Guest Editor** (with Prof. V. L. Maheshwari and Dr. B. L. Chaudhari) “**Journal of Advances in Science and Technology**” : Special issue on selected papers presented in ‘National Conference on Biotechnology for all’ (NCBFA-2010) organized by the School of Life Sciences, NMU, Jalgaon (2010)

Membership

- Life member of Society for Science and Environment
- Life member Biotech Research Society of India
- Life member Life member of Global Biotech Forum, Nagpur

(K. S. Vishwakarma)