Curriculum Vitae

Dr. Maheshwari Vijay Laxminarayan
Senior Professor & Head
Department of Biochemistry,
School of Life Sciences,
Kavayitri Bahinabai Chaudhari North Maharashtra University,
Jalgaon-425001 (M.S.) India
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➢ Educational Qualifications:

Degree	Year	University	Percentage	Division
B.Sc.	1984	Dr. H. S. Gour Univ. Sagar (M.P.)	71.50 %	First
			(VI in the order of University merit)	
M.Sc. (Biochem)	1986	D.A. University Indore (M.P.)	66.00 %	First
			(X in the order of University merit)	
Ph.D. (Biochem)	1990	D.A. University Indore (M.P.)	By Thesis	--
Ph.D. Thesis Title:	"Studies on the Mechanism of Activation of Enzymes of Photosynthetic Carbon Reduction Cycle by Light"			

➢ Teaching Experience:

- Teaching Experience (PG) : 29

➢ Area of Research/Expertise:

- Protein Biochemistry
- Plant Tissue Culture
- Secondary metabolites and their biological activities

➢ Awards/Fellowships/prizes received

- "**YOUNG SCIENTISTS**" award by IUBMB, India in 1994.
- "**BOYSCAST Fellowship**" of Govt. of India, Dept. of Science & Technology to visit Univ. of Virginia, USA for 8 months.
- **Norman E Borlaug Fellowship** of US Dept of Agriculture, USA for advanced training in Risk Assessment in Genetically Modified Food at Iowa State University, Iowa, USA, April-June, 2008.
- **Best Teacher Award'** of Government of Maharashtra (2009-10)
- Honorary fellowship (FSSE) of Society of Science and Environment at its annual convention at M.L. Sukhadia University, Udaipur (Raj.) (2007)
- Elected as Fellow of Maharashtra Academy of Sciences (2013)

- **Nominated as a Member in the Board of Management, Yashvantrao Chavan Maharashtra Open University, Nasik by The Hon'ble Governor of Maharashtra (2014)**

➢ Memberships

- Life member of Society of Plant Biochemistry and Biotechnology, India.
- Life member of Society for Biopesticides India.
- Life member of Society for Science and Environment.
- Life member of Global Biotech Forum, Nagpur

➢ Administrative Work experience

- Member, Board of Examinations, NMU, Jalgaon 2001-2005.
- Member, Board of University Teaching and Research (BUTR) in Sciences, NMU, Jalgaon (upto 2005).
- Member, University Purchase Committee (1999-2001), (2007-2009).
- Member Academic Council, NMU, Jalgaon (2006-2011).
- Member, IQAC, NMU Jalgaon (2006-2007).
- Member, Steering Committee, NAAC, NMU, Jalgaon (2008).
- Chairman, Ordinance drafting Committee (O.48) (2011-2015)
- Chairman, BoS in Life Sciences (2010-2015)
- Member, Academic Council, NMU, Jalgaon (2005-2010, 2010-2015)
- Member, Senate, NMU, Jalgaon (2010-2015)
- **Member, Management Council, NMU, Jalgaon (2010-2015)**
- Nominated member (By the Governor) of Board of Management, YCMOU, Nasik (2014-17)
- Member, Board of Examinations, NMU, Jalgaon 2001-2005.
- Head, Dept. of Biochemistry, School of Life Sciences, NMU, Jalgaon since 1994.
- **Director, School of Life Sciences, KBCNMU, Jalgaon (2007-2019)**
- Director, Central Assessment Programme for Faculty of Engineering, NMU, Jalgaon, Dec., 1999, May 2000, January, 2001, May-June, 2001, December, 2002 and January, 2003.
- Coordinator, Steering Committee, NAAC for the 4th cycle of assessment of the university

➢ Leadership experience

- **HOD-** Department of Biochemistry 1994.
- **Director,** School of Life Sciences (2007-2009)
- **Director, Internal Quality Assurance Cell (IQAC), NMU**, Jalgaon from Feb., 2010 – March 2012.
- **Acting Director, Board of College and University Development (BCUD) ,** North Maharashtra University, Jalgaon from Jan. 7, 2008 to Feb. 28, 2008.
- Appointed and worked as **Chairman, Observers' Committee** for Avishkar-2012- A state level Inter University Research Convention held at BSKKV, Dapoli during 7-9 January, 2013 and MAFSU during 21-23 January, 2015 by the Hon'ble Chancellor and Governor of the State of Maharashtra
- Coordinator: UGC sponsored Refresher Course in Life and Environmental Sciences. 11/11/2003 to 1/12/2003.

- Convener: Indo-US binational seminar on Genetically Modified Crops : Issues, Status and Awareness. Jan 20-21, 2009 (Sponsored by Norman E Borlaug International Agricultural Science and Technology Program, USDA, USA, UGC-SAP, ICMR, DAE and NMU, Jalgaon).
- Convener: Two day workshop on "Advanced Biotechniques: Hands on learning instrumentation: School of Life Sciences, NMU, Jalgaon. 7-8 Oct., 2009.
- Convener, National Conference on Biotechnology for all (NCBFA-2010) at NMU, Jalgaon (December 29-30, 2010). The conference was attended by about 165 delegates.
- Organized a one day work shop on "NACC Accreditation and reaccreditation: Issues and awareness" for principals and co-ordinators of NAAC steering committee of affiliated colleges. Total 176 delegates participated in it. August 3, 2011, NMU, Jalgaon.
- Convener of the Popular Lecture Series on 'Genetically Modified Food' under the National Science Day Celebrations (supported by DST, New Delhi and RGSTC, Govt of Maharashtra, Mumbai) on 9/3/2013 at NMU, Jalgaon and 15/3/2013 at Pratap Philosophy Centre, Amalner.
- Convener: 8th Maharashtra State Inter University Research Convention, Avishkar 2013, NMU, Jalgaon, January 16-18, 2014.
- Convener, 3rd Global Sustainable Biotech Congress held at North Maharashtra University, Jalgaon, India during December 1-5, 2014. The congress was attended by over 625 delegates from all over the world (17 countries) and India. The congress comprised plenary sessions, 25 concurrent sessions on campus, 3 parallel sessions for students in affiliated colleges, 1 session for farmers in the remote tribal dominated Akkalkuan town in Nandurbar district and 2 industry Technology parallel session at Nirmal Seeds Pvt Ltd., Pachora and Jain Irrigation Systems Ltd., Jalgaon

➢ Serving on Editorial Boards

- Regional Editor for journal Physiology and Molecular Biology of Plants (2001-2003).
- Editorial board member of Journal of Biopesticides (2004-2006).
- Guest Editor (with Dr. B. L. Chaudhari and Shri K. S. Vishwakarma) 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)
- Guest editor (with Prof. S.B. Chincholkar) Special issue of Indian Journal of Biotechnology, (2004)

➢ Technology Transferred

- "Biopesticide processing and formulation from a plant origin" (2004)

➢ Other activity done/ on going

- Visited Cayuga Community College, Auburn, NY, USA as a member of the team of North Maharashtra University, Jalgaon for discussion and finalizing Joint Degree Program between the two institutions (August 22 to September 2, 2012)
- Campus representative, USIEF, New Delhi

➢ Ph.D. Students (Awarded, 22)

Sr. No.	Name of Student	Title of PhD	Year of Award
1.	Dr. (Mrs.) S.R. Bhalsing	*In vitro* culture, regeneration and extraction of solasodine from *Solanum khasianum*.	1999
2.	Dr. Tushar H. Borse	Studies on biochemical mode of action and degradation of Metribuzin in plants and soil, respectively.	2000
3.	Shri Nilesh P. Teli	Studies on regeneration system of *Vigna mungo, Vigna radiate* and *Vigna unguiculata* in tissue culture.	2001
4.	Shri Prashant S Mendki	Studies on biopesticide active principles from *Ipomoea* and *Calotropis.* (Co-guide)	2002
5.	Shri Ravindra P Patil	An integrated biotech approach for enhancing the yield of soybean (Co-guide)	2002
6.	Shri Pankaj K Pawar	Plant tissue culture studies in two medicinally important members of family Solanaceae.	2004
7.	Shri Dinesh P Patil	A Biotech strategy for improving the productivity in saline soil. (co-guide)	2005
8.	Ms. Hemlata M Kotkar	Study of biopesticidal activity of *Annona squamosa* for pre and post-harvest preservation of pulses.	2005
9.	Mr. Shripad Upasani	Pesticidal activity of *Nerium indicum* and *Ricinus communis* post-harvest preservation of pulses	2007
10.	Shri Bipin K Salunkhe	Biochemical basis of pulse beetle management using Plant secondary metabolites.	2007
11.	Shri Jitendra Solanki	Expression of B. *Thuringiansis* deltaendotoxin cry 1 IA 5 and vip genes in egg plant (*Solanum melongena* L).	2007
12.	Mr. Prakasjh. K	Bioprospecting of bioactive protein(s) in a few indigenous plants and evaluation of its biological activities.	2010
13.	Mr .R. H. Patil	Studies on hypercholesterolemic agents from microbial and plant sources	2010
14.	Mrs. P.H. Agarkar	Studies on isolation, purification, characterization and biochemical activity secondary metaboltes from few medicinally important plants.	2010
15.	Mr. Bharat M. Bhalerao	Plant tissue culture, comparative phytochemical profiling and Biological activities in some medicinally important climbers.	2014
16.	Mr. Arun Patil	Studies on curing of antibiotic resistant plasmids from clinical isolates by herbal extracts/Ayurvedic churnas/plant metabolites.	2014
17.	Mr. Pankaj R Gavit	Studies on alpha amylase inhibitors from plants and their role in pest management	2014
18.	Mr. K.S. Vishwakarma	Plant tissue culture studies in some medicinally important plants of family Leguminosae	2015
19.	Ms. Mohini Patil	Probing the microbial endophytes in indigenous medicinal plant(s) for production of biologically active compounds. (co-guide)	2017
20.	Mohd Shahid	Antidiabetic and mosquito larvicidal activity of *Coccinia grandis* and *Cayratia trifolia*	2017

21.	Kiran R Marathe	Microbial protease inhibitor: Isolation, purification, characterization and role in pest management	2017
22.	Sainath S Kasar	Studies on alpha amylase inhibitor from *Withania* somnifera and its biological applications	2020

- **Ph.D. students (On going, 2)**
  1. Rani Shinde
  2. Mr. Prasad Jape*
     * As co-guide

- **M. Phil. Students (completed, 1):**
  1. Ms. A V Mhaskar

- **Number of Books Written:** 03

- **Number of Patents:** 01

- **Number of research papers published:** 115
  (Google scholar, October, 21)
  No. of citations = 1631
  h index = 20
  i10 index = 40

- **Publication details:**

1. Patil Ravindra, Patil Samadhan, **Maheshwari Vijay** L. and Patil Mohini (2021) Inhibitory kinetics and mechanism of pentacyclic triterpenoid from endophytic *Colletotrichum gigasporum* against pancreatic lipase. ***International J of Biological Macromolecule***, 175: 270-280 (https://doi.org/10.1016/j.ijbiomac.2021.02.036) (Elsevier, IF = 5.16)

2. Marathe, K R, Naik, J B and **Maheshwari, V L** (2021) Biogenic synthesis of silver nanoparticles by *Streptomyces spp*. and its mechanism based antifungal activity against important phytopathogen, *Fusarium verticillioides.* ***J Cluster Sciences*** **(Springer, IF = 1.73), 32 : 1299-1309**. https://doi.org/10.1007/s10876-020-01894-5

3. Kasar, S S, Sable, V B, Shinde, R A, **Maheshwari, V L** and Pawar, P K (2021) Effect of alpha amylase inhibitor from *Withania somnifera* on growth and development of *Callosobruchus chinensis* and *in silico* studies on its interactions with insect amylase. **Archives of Plant Pathology and Plant Protection (Taylor and Francis), 54 (5-6) 231-251.** https://doi.org/10.1080/03235408.2020.1826745

4. Patil, R H, Patil, M P and **Maheshwari, V L** (2020) Microbial transformation of crop residues in to a nutritionally enriched substrate and its potential application in livestock feed. **SN Applied Sciences (Springer Nature),** 2 : 1140-1148 (https://doi.org/10.1007/s42452-020-2949-z).

5. Sainath S. Kasar S S, Giri A P, Pawar, P K and **Maheshwari V L** (2019) Inclusion of α amylase inhibitor in processing improves the quality of potato chips. **Food and Bioprocess Technology** , 12 : 636-644 (Springer, IF 3.0) (DOI 10.1007/s11947-019-2233-7).

6. Bhushan S. Bhadane, B S, **Maheshwari, V L** and Patil, R H (2018) Quercetin and silver nitrate modulate organogenesis in Carissa carandas (L.) **In Vitro Cellular & Developmental Biology – Plant,** doi.org/10.1007/s11627-018-9936-8

7. Bhadane B. S, Patil M P, Maheshwari**, V L** and Patil, R H (2018) Ethnopharmacology, phytochemistry, and biotechnological advances of family Apocynaceae: A review. **Phytotherapy Research** (Wiley), 1-30 (https://doi.org/10.1002/ ptr.6066). (IF = 3.092)

8. Vishwakarma, K S, Mohammad, S I, Chaudhari A R, Salunkhe, N S and **Maheshwari, V L** (2017) Micropropagation and *Agrobacterium rhizogenes* mediated transformation studies in *Mucuna pruriens* (L.) DC. **Ind J Natural Products Resources,** 8 : 172-78.

9. Bhalerao B M **and Maheshwari V L (2017)** Tissue culture study through nodal explant, comparative chemoprofiling and antimicrobial activity of *C. hirsutus* growing with different supporting trees. **Bionano Frontier, 10 (1), 21-27. (NAAS Rating 4.17).**

10. Mohammed S. I., Chopda M Z, Patil R H, Vishwakarma K.S. and **Maheshwari V. L** (2017) Evaluation of Larvicidal Activity of Essential Oil from Leaves of *Coccinia grandis* against Three Mosquito Species. **J. Arthropod Borne Diseases, 11 (2) 216-225 (IF = 1.53).**

11. Patil, M P, Patil R H, Mohammad Shahid, **Maheshwari, V L** (2017) Bioactivities of phenolics-rich fraction from *Diaporthe arengae* TATW2, an endophytic fungus from Terminalia arjuna (Roxb.). **Biocatalysis and Agriculture Biotechnology** (Elsevier), 10: 396–402 (doi.org/10.1016/j.bcab.2017.05.002) (IF 0.9).

12. Amey Jayant Bhide, A J, Channale, S M, Yadav, Y, Bhattacharjee, K, Pawar, P K, **Maheshwari, V L**, Gupta V S, Ramasamy S, and Giri, A P (2017) Genomic and functional characterization of coleopteran insect-specific α-amylase inhibitor gene from Amaranthus species**. Plant Molecular Biology (Springer) (IF = 3.905) 94 : 319-332 (**DOI 10.1007/s11103-017-0609-5).

13. Patil Mohini P, Patil R H, Bhadane Bhushan**,** Mohammed S. I and **Maheshwari V L** (2017) Pancreatic lipase inhibitory activity of phenolic inhibitor from endophytic *Diaporthe arengae*. **Biocatalysis and Agriculture Biotechnology (Elsevier) 10, 234-238.** doi.org/10.1016/j.bcab.2017.03.013 (IF = 0.9) (25/3/2017).

14. Mohammed S. I., Salunke N S, Vishwakarma K.S. and **Maheshwari V. L** (2017) Experimental Validation of Antidiabetic Potential of *Cayratia trifolia* (L.) Domin: An Indigenous Medicinal Plant. **Ind J Clin Biochem (Springer)** 32, 153-162, DOI 10.1007/s12291-016-0598-1. (**IF = 0.97).**

15. Kasar S S, Marathe K R, Bhide A J, Herwade A P, Giri A P, **Maheshwari V L** and Pawar P K (2016) A glycoprotein α-amylase inhibitor from Withania somnifera differentially inhibits various α-amylases and affects the growth and development of *Tribolium castaneum*. **Pest Management Science (Wiley, IF = 2.81)** DOI 10.1002/ps.4467**.**

16. Marathe K R, Kasar S, Chaudhari A B and **Maheshwari V L** (2016) Purification and characterization of a novel heterodimer protease inhibitor from *Streptomyces* spp. VL J2 with potential biopesticidal activity against *H. armigera,* **Process Biochemistry, 51 : 1650-1663 (Elsevier, IF 3.05)** doi.org/10.1016/ j.procbio.2016.08.010

17. Mohammed S. I., Chopda M Z, Patil R H, Vishwakarma K.S. and **Maheshwari V. L** (2016) *In vivo* antidiabetic and antioxidant activities of *Coccinia grandis* leaf extract against

streptozotocin induced diabetes in experimental rats. **Asian Pacific Journal of Tropical Diseases (Elsevier),** 6: 298-304. doi:10.1016/S2222-1808(15)61034-9. (**IF = 0.78)**

18. Channale S M, Bhide A J, Yadav Y, Kashyap G, Pawar P K, **Maheshwari, V L**, Ramasamy Suresh K and Giri A P (2016) Characterization of two coleopteran alpha amylases and molecular insights in to their differential inhibition by synthetic amylase inhibitor, acarbose. **Insect Biochemistry and Molecular Biology**, 74: 1-11 **(IF 3.45).**

19. Mohammed S. I., Vishwakarma K.S. and **Maheshwari V. L**. (2015). *In vitro* comparative antioxidant activity of two medicinally important climbers, *Coccinia grandis* and *Caratia trifolia.* **Adv. Pharmacol. Toxicol**. 16(3):57-68.

20. Patil, R H, Patil, M P and **Maheshwari V L** (2015) Rapid chromatographic determination and structural confirmation of β hydroxyl acid form of lovastatin in the fermentation broth of *Aspergillus terreus* PM 03. **Pharmaceutical Chemistry Journal**, 49, 419-424 (DOI 10.1007/s11094-015-1298-5, Springer, Sept, 2015) **(IF 0.452)**.

21. Marathe, K R, Chaudhari A B, Kamalaja, K and **Maheshwari, V L** (2015) Magnesium dependent proteinaceous protease inhibitor with pesticidal potential from alkali-halotolerant *Streptomyces spp.*: Optimization of production using statistical tools. **Biocatalysis and Agriculture Biotechnology** (Elsevier), 5 : 58-68. doi:10.1016/j.bcab.2015.11.007 **(IF= 0.9)**.

22. Patil S G, Patil M. P., **Maheshwari V L** Patil R H (2015) In vitro lipase inhibitory effect and kinetic properties of di-terpenoid fraction from Calotropis procera (Aiton). **Biocatalysis and Agriculture Biotechnology, 4: 579-585** (Elsevier) doi:10.1016/j.bcab.2015.08.014 **(IF= 0.9)**.

23. Marathe Kiran, Pandit S, Chaudhari A B and Maheshwari V L (2015) Screening of alkaliphilic salt tolerant actinomycetes from alkaline soda lake for protease inhibitor activity. **Advances in Pharmacology and Toxicology***,* 16 (2) : 39-47.

24. M P Patil, R H Patil and **V L Maheshwari** (2015) Biological activity of endophytic *A. flavus* and characterization of bioactive metabolites. **Current Microbiology, 71 : 39-48** (DOI 10.1007/s00284-015-0805-y) (Springer, **IF : 1.423)**.

25. R. H. Patil , M. P. Patil and **V.L. Maheshwari** (2014) Isolation and HPTLC Densitometric Analysis of Rutin in the Broth Extract of Endophytic *Aspergilluis flavus* from *Aegle marmelos.* **Journal of Biologically Active Products from Nature***,* 4 : 371-376 (DOI: 10.1080/22311866.2014.961099).

26. M.P. Patil, R.H. Patil, S.G. Patil and **V.L. Maheshwari** (2014) Endophytic Mycoflora of Indian Medicinal Plant, *Terminalia arjuna* and their Biological Activities. **International Journal of Biotechnology for Wellness Industries,** 2014, 3, 1-6.

27. Patil, A P, Patil, K P, Pawar, P K **and Maheshwari, V. L. (2013)** Isolation and survey of antibiotic sensitivity in nosocomial infections in North Maharashtra Region. ***J Association of Physicians of India,* 61 : 18-22.**

28. Gavit P R, Pawar, P K and **Maheshwari V L (2013)** Isolation, Purification, Partial Characterization and Insect Growth Inhibitory Activity of α-amylase Inhibitor from Seeds of *Amaranthus paniculatus* linn (Rajgira). ***Biopesticide International*,** 9 (1) : 38-47 **(IF : 0.598)**.

29. Bhalerao B M, Vishwakarma, K S and **Maheshwari, V L (2013)** *Tinospora cordifolia*: Plant Tissue Culture and Comparative Chemo- profiling Study as a Function of Different Supporting Trees. ***Ind J Natural Products Resources*, 4 (4): 380-386.**

30. Patil, M P, Patil, R H and **Maheshwari, V L.** (2012). A novel and sensitive agar plug assay for screening of asparginase -producing endophytic fungi from Aegle marmelos. ***Acta Biologica Szegediensis***, 56 (2) 175-177 **(IF = 1.0)**.

31. 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 **(IF = 1.0)**.

32. Patil, S. V., Patil, C D, Salunkhe, R B, **Maheshwari, V L** and Salunkhe, B K (2011) Studies on life cycle of mealybug, *Maconellicoccus hirsutus* (Green) (Hemiptera: Pseudococcidae), on different hosts at different constant temperatures. ***Crop Protection***, 30 : 1553-1556 **(IF : 1.493).**

33. Patil, R. H., Prakash K and **Maheshwari, V.L.** (2011) Hypolipidemic effect of Terminalia arjuna (L.) in experimentally induced hypercholesteremic rats. ***Acta Biologica Szegediensis***, 55(2) : 1-5 **(IF = 1.0)**.

34. Mhaskar A V, Prakash K, Vishwakarma K S and **Maheshwari V L** (2011) *In vitro* regeneration of *Clitorea ternatea* L. through auxillary bud culture**. Int J Pharmacol Biol Sci.** 5 : 17-23.

35. Patil R.H., K. Prakash, **Maheshwari, V L** (2011) Production of lovastatin by wild strins of *Aspergillus terreus.* **Natural Products Communications. 6 (2) : 183-186. (IF : 0.906)**

36. Joshi, P V, Shirkhedkar, A A, Prakash, K and **Maheshwari, V L (2011)** Anti-diarrheal activity, chemical and toxicity profile of *Berberis aristata.* **Pharma. Biol.** Vol. 49 (1) : 94–100 **(IF : 1.241).**

37. 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). **J. Adv. Sci. Tech. (Spl. Issue), 13 (02): 39-43.**

38. Patil, R H, Patil, M P, Patel, S S and **Maheshwari, V L** (2010) Probing the microbial endophytes in a indigenous plant for the production of biologically active metabolites. **J. Adv. Sci. Tech. (Spl. Issue), 13 (02): 51-56.**

39. Joshi, P V, Surana, S J, Mandhan, S S and **Maheshwari, V L** (2010) Chemical characterization and verification of role of *A marmelos* as *in vitro* and *in vivo* antidiarrheal agent. **J. Adv. Sci. Tech. (Spl. Issue), 13 (02): 63-68**.

40. Patil, S V, Salunkhe, B.K., Patil, C D, Salunkhe R B, Gavit, P R and **Maheshwari, V L** (2010) Potential of extracts of the tropical plant *Balanites aegyptiaca* (L) Del. (Balanitaceae) tocontrol the mealybug, *Maconellicoccus hirsutus* (Homoptera:Pseudococcidae). **Crop Protection**. 29 : 1293-1296 **(IF : 1.493).**

41. R. H. Patil K. Prakash, and **V.L. Maheshwari** (2010) Hypolipidemic effect of *Celastrus paniculatus* in experimentally induced hypercholesterolemic Wistar rats. **Ind. J. Clinical Biochem. (Springer)** 25 (4) : 405-410.

42. **A**.V. Mhaskar, K. Prakash, K. S. Vishwakarma **and V. L. Maheshwari (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.

43. 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. **Physiol Mol Biol Plants** 15 (3), 185-197 **(IF= 1.35)**.

44. P.V.Joshi, R.H. Patil and **V.L. Maheshwari (2009)** *In vitro* anti-diarrhoeal activity and toxicity profile of *Aegle marmelos* (fruit) Correa ex Roxb. **Ind J Natural Products Resources** (Formerly Natural Products Radiance**)**, 8 (5) 498-502.

45. Salunke B.K., Patil, S. V., Lad, R., Chatterjee, S. and **Maheshwari, V.L (2008)** Antimicrobial activities of three Indian medicinal plants**. J. Cell Tissue Res. 8 : 1545 -1550.**

46. Prakash K. Patil R H, Vishwakarma K and **Maheshwari V L** (2008) Bioprospecting for bioactive circular protein(s) in indigenous plants. **J. Plant Biol** 35, 53-57.

47. **Maheshwari V.L**. (2008) Going back to nature for sustainable pest management **ABP News letter** Editorial, March 2008 issue.

48. Pawar P.K., Borse T P, Pinjari R Z and **Maheshwari V L (2008) A** simple technique for rapid quantitative determination of solasodine from cultured hairy roots of *Solanum surrattense.* **J. Herbal Med. And Toxicol 2 (1) : 7-10.** .

49. **Maheshwari V.L**. and Patil R.H. (2007) Isolation, screening and lovastatin production by wild strains of *aspergillus terreus.* **J. Pure Applied Microbiol** 1: 295-299 **(IF : 0.1).**

50. Solanki, J.J., Pawar, P.K. and **Maheshwari, V.L.** (2006) Efficient plant regeneration in *Solanum melongena* L. **J. Physiol. Mol. Biol. Plants** 12 : 307-311 (**IF = 1.35).**

51. Salunke B.K., Patil, K.P., Wani, M.R. and **Maheshwari, V.L**. (2006) Antinutritional constituents of different grain legumes grown in North Maharashtra. **J. Food Sci. Technol.** 43, 519-521 **(IF = 2.203)**.

52. Mendki, P.S., Salunke, B K, Kotkar, H M, **Maheshwari, V L**, Mahulikar, P P and Kothari, R M (2005) Antimicrobial and insecticidal activities of flavonoids from *Calotropis procera* L. for post harvest preservation of pulses. ***Biopesticide International*** 1 (3,4) : 193-200. **(IF = 0.598).**

53. Salunke B.K., Kotkar, H.M., Mendki, P.S., Upasani, S.M. and **Maheshwari, V.L**. (2005) Bioefficacy of flavanoids in controlling *Callosobruchus chinensis* (L.) (Coleoptera: Bruchidae) – a post-harvest pest of grain legumes. **Crop Protection 24,** 888-983 **(IF 1.493).**

54. Pawar P.K. and **Maheshwari, V.L.** (2004) Agrobacterium *rhizogenes* mediated hairy root induction in two medicinally important members of family Solanaceae. **Ind. J. Biotech 3 : 414-417 (IF = 0.386)**.

55. Patil, R.P., Gite, V.V., **Maheshwari, V.L. and** Kothari, R.M. (2003) Improvement in the yield and quality of soybean oil through an integrated biotech approach. **Ind. J. Chem. Tech.** 10 : 470-476 **(IF = 0.513).**

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3. Practical Biochemistry : P.H. Agarkar, Y. A. Kulkarni, V.L. Maheshwari and S J Surana (2018) Nirali Pralashan, Pune, First Edition (ISBN 978-93-87686-03-8).

4. Endophytes : Potential source of compounds of commercial and therapeutic applications (2021) R. H. Patil and V. L. Maheshwari (eds), Springer Nature, Singapore (ISBN: 978-981-15-9371-0 ebook)

➢ Research project completed :

Sr.	Title of Project	Dura-tion	Amount Sanctioned	Funding Agency
1.	Photoregulation of Maize leaf phosphoenolpyruvate carboxylase.	2 Year	Rs. 0.15 lacs (Minor)	UGC, New Delhi
2.	Modernization of Plant Tissue Culture Laboratory in the School of Life Sciences.	3 Year	Rs. 08 lacs (Eight lacs)	AICTE, New Delhi
3.	Plant Tissue culture studies in *V. mungo, V. radiata* and *V. unguiculata*.	3 Year	Rs. 4.00 lacs	CSIR, New Delhi
4.	Minimization of losses in five major pulses during storage. (Co-investigator)	3 Year	Rs 7.40 lacs	CSIR (TMO&P), New Delhi
5.	Isolation, Characterization and applicability exploration of a natural dye from the waste pseudo stem of banana after harvesting. (Co-investigator)	3 Year	Rs. 8.00 lacs	DST, New Delhi
6.	Plant tissue culture technology for a few medicinally important plants.	3 Year	Rs. 4.10 lacs	AICTE, New Delhi
7.	A simple technology for post-harvest preservation of pulses using botanical pesticides.	3 Year	Rs. 15.00 lacs	CSIR (TMO&P) New Delhi
8.	Botanical pesticides for post-harvest preservation of pulses	3 Year	11.5 lacs	DST, New Delhi
9.	Plant cyclotides : An alternative and sustainable approach to storage pest management In grain legumes (pulses)	3 Year	Rs. 26 lacs approx..	DBT, New Delhi
10.	Bioprospecting and pesticidal property of circular proteins against *H. armigera*	3 Year	17.2 lakhs	DST, New Delhi
11.	Plant Tissue culture studies in some medicinally important plants. (co-investigator)	3 Year	7.8 lakhs	UGC, New Delhi
12.	Lipase producing microbes as biopesticides : Novel approach to mealybug control (co-investigator) (30/6/2010)	3 years	12.31 lakhs	DBT, New Delhi
13.	Studies on interaction of Plant α-amylase inhibitors with insect amylase (PI and Coordinator) (31/8/2012) (In collaboration with NCL, Pune)	3 Year	17.82 lakhs	DBT, New Delhi
14.	UGC-BSR Mid-Career Award Grant (1/4/2017) (For two years)	UGC, New Delhi	Rs.10.00 lakh	-
15.	Application of plant proteinaceous α–amylase inhibitor in food processing and post-harvest preservation (in collaboration with SU, Kolhapur and CSIR-NCL, Pune	RGSTC, Mumbai	Rs. 68 lakhs (NMU Share = 20.5 lakh)	Feb. 2019 to Feb 2022

➢ Consultancy Projects:

- Transferred a technology on “Biopesticide processing and formulation form a plant origin” (2004)
- Consultant to M/s Krishna Anti-oxidants Pvt. Ltd., Mumbai and M/s Naturally Yours Biotech Ltd., Jalgaon for evaluating their botanical pesticides formulations.
- Consultancy and analytical services provided to industries in and around Jalgaon

➢ Scientific collaborators :

- Dr. A. P. Giri, National Chemical Laboratory, (NCL) Biochemical Division, Pune (India).
- Dr. P. K. Pawar, Dept of Biochemistry, Shivaji University, Kolhapur

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Efficacy of flavonoids in controlling Callosobruchus chinensis (L.)(Coleoptera: Bruchidae), a post-harvest pest of grain legumes BK Salunke, HM Kotkar, PS Mendki, SM Upasani, VL Maheshwari Crop Protection 24 (10), 888-893	136	2005
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Identification of AFLP markers linked to resistance of cowpea (Vigna unguiculata L.) to parasitism by Striga gesnerioides JT Ouédraogo, V Maheshwari, DK Berner, CA St-Pierre, F Belzile, ... Theoretical and Applied Genetics 102 (6-7), 1029-1036	111	2001
In vitro antidiarrhoeal activity and toxicity profile of *Aegle marmelos* Correa ex Roxb. dried fruit pulp PV Joshi, RH Patil, VL Maheshwari CSIR	61 *	2009
Agrobacterium rhizogenes mediated hairy root induction in two medicinally important members of family *Solanaceae* PK Pawar, VL Maheshwari CSIR	53	2004
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Biological activities and identification of bioactive metabolite from endophytic Aspergillus flavus L7 isolated from Aegle marmelos MP Patil, RH Patil, VL Maheshwari Current microbiology 71 (1), 39-48	40	2015

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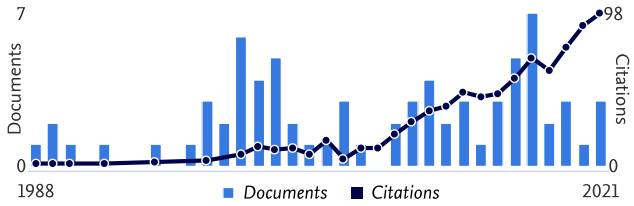

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