

## Prof. Vijay D. Mendhulkar

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**Academic Qualification:-** M.Sc.,M.Phil., Ph.D.

**Specialization:-** Cytology and Genetics

- Recognized PG teacher and Ph. D. Guide for Botany (University of Mumbai).
- Recognized PG teacher and Ph.D. Guide for Biotechnology (University of Mumbai).
- Recognized PG teacher for the subject of Environmental Science.(University of Mumbai)
- Coordinator, RUSA, Institute of Science, Mumbai

Reviewer for the Journal of Material Science and Engineering-C , International Journal of Pharma and Biosciences, Journal of Applied Life Sciences International, Journal of Material Science and Nanotechnology International .Journal of Advances in Plant Sciences. Publications –63. Presentations in the Conferences - 60. Articles-02, Ph.D.awarded-07, Post Doctoral Student worked-01, Ph.D. Students ( Botany) working: 03 , Ph.D. Students (Biotechnology)-03, M.Sc. by Research awarded-01, minor research project complited -02 and Conferences Organized - 04. On the Panel of Editorial Board of International Journal of Advances in Plant Sciences published by Academy of Plant Sciences, India, Member on Ad-hoc Board of Studies in Biotechnology, Shivaji University, Kolhapur. On the Panel of Examiners for Ph.D. Programmes of Osmania University, Hyderabad; Bharathidasan University, Tiruchirappalli ; M.S.University, Baroda; Karnatak University, Dharwad; BAM University, Aurangabad ;SGB Amravati University; RTM University Nagpur; University of Mumbai, and M.S. University,Tirunelveli(T.N.).

### Area of Research work:-

Cytogenetics, Chemical mutagenesis Plant cell Culture studies , Elicitation of active Secondary Metabolites by In-Vitro Techniques , Screening of Bio-active metabolites mediated NSPs for their potentials of anti tumour activities using malignant cell lines.

Nanobiotechnology

## Publications-69

1. Mendhulkar V.D. and Laukik Shetye (2017) Synthesis of Polyhydroxyalkonate [PHA] in cyanobacteria *Synechococcus elongates* under mixotrophic nitrogen and phosphate mediated stress conditions. *Ind. Biotech.* (Scopus indexed), Vol.13 (02), 85-93..
2. Nisha K and Mendhulkar V.D. (2018). An Investigation on Antigenotoxic effect of Vermiwash against Industrial Effluent on *Pisum sativum*. *Jou. of Bioremed. & Biodegrad.* Vol 9(1), 422.
3. Patil Reshma, V.D. Mendhulkar and Nisha K. (2017) - Synergistic impact of Vermicompost with chemical fertilizer and Garden Soil on some Physicochemical traits in Okra (*Abelmoschus esculentus*). *Ad. Plant Sci.* 30(II), 109-114.
4. V.D. Mendhulkar and Sopan Kharat (2017) HPTLC Assay Phytochemical, FTIR Characterization and Studies on Antioxidant activities of *Elephantopus scaber* (Linn.) using six different Soxhlet leaf extract. *Der Pharma Chemica.* 9(23), 18-28.
5. Mendhulkar V.D., LA Yeragi and Hemant Kumar (2017) "Bioassay of vector Larvae with Latex of blind eye Mangrove plant *Excoecaria agallocha* Linn". *Int. J. of Mosquito Res.* (Thomson Reuters/Copernicus indexed) Vol.4(1), 33-36
6. Piyanka Patade, Vijay D. Mendhulkar\* and Moinuddin Vakil (2017): Triton x-100 and DMSO induced cell permeability for the release of campesterol and flavonoids in cultured cells of *Blumea lacera* (Burm. f.) DC. *Int. J. Pharm. Bi. Sci.* Vol 8 (1) : (B) 476 – 483
7. Mendhulkar Vijay D. and Ashwini Shinde (2017) ; Anticancer activity on MCF-7 and SSC-40 cCancer Cell lines using Successive Solvent Extracts of *Phyllanthus acidus* [Linn.] leaves. *Int. J. Pharm. Bi. Sci.*, 8 (4): 36-42
8. Mendhulkar V.D. And Yadav Anu (2017). Anticancer activity of *Camellia sinensis* mediated copper nano particles against HT-29, MCF-7 and Molt-4 human cancer cell lines. *Asian J. of Pharmaceut. and Clin. Res.* Vol-10(2), 71-77
9. Mendhulkar V.D. and Swati Sakhare (2017) "Antimicrobial activity of the seed and callus biomass extract *Linum usitatissimum* Linn. against some strains of clinically important pathogens. *Int. J. Pharm. Bi. Sci.* Vol. 8 (4) : (B) 263-268
10. Sopan Namdeo Kharat and Vijay D Mendhulkar, (2016). Synthesis, Characterization and studies on Antioxidant activity of Silver Nanoparticles using *Elephantopus scaber* leaf extract. *Materials Science and Engineering - C* ( Elsevier Publication). 6-2, 719-724..
11. Aruna Shahaji Nangare, Vijay Damodhar Mendhulkar (2016). Allelopathic effect of *Swertia xanthone* extracts on protein profiling and protein quantity in *Vigna radiata* leaves. *Int. J. of Pharm Tech Research.* ISSN: 0974-4304. Vol.9(9), pp 437-443.
12. Mendhulkar V.D. and Hena Hayat (2016) Optimization of genomic DNA extraction from the leaf tissues of *Jatropha* species for molecular studies. *Asia. J. of Microbi, Biotech. and Environ. Sci.* Scopus indexed, Vol.8 (3); 69-72.
13. Patade P., V. D. Mendhulkar\* and M. Vakil (2016) - Campesterol elicitation in *Blumea lacera* (Burm.f.) DC. Cell culture using Salicylic acid and *Aspergillus niger*. *Int. J. of Green and Herbal Chemistry. Sec. B;* Vol.5(4), 308-318.
14. Mendhulkar Vijay D., Priyanka Patade and Moinuddin Vakil (2016) - Chitosan and *Penicillium expansum* mediated elicitation of campesterol in *Blumea lacera* (Burm. f.) DC. cell culture. *World J. of Phar. and Pharmac. Sci.* Vol.5 (12), 824-833
15. Mendhulkar Vijay D. \*, Priyanka Patade and Moinuddin Vakil (2016) - Elicitation of Flavonoids in *Blumea lacera* (Burm.f.) DC. Cell Culture using Chemical Elicitor, Salicylic Acid and Biological Elicitor, *Aspergillus niger*. *Int. J. of Cur. Res. in Biosciences and Plant Biology*, 3(11): 85-91.
16. Patade Priyanka, Mendhulkar Vijay D\*, Vakil Moinuddin (2016) - Studies on Comparative Impact of Chitosan and *Penicillium expansum* for Flavonoids Elicitation in *Blumea lacera* (Burm. f.) DC. cell culture. *Int. J. of Pharmacy and Biological Sciences.* Vol.6(4), 27-34.
17. Aruna Shahaji Nangare, Vijay Damodhar Mendhulkar (2016) - Advancement in Enzyme Activities in *Vigna radiata* by Allelopathic applications of Xanthone Extract of some *Swertia* species collected from Southwest Zone of Maharashtra. *Der Pharmacia Lettre*, [ Scopus indexed ] Vol.8 (8): 334-338

18. Aruna Shahaji Nangare, Vijay Damodhar Mendhulkar (2016) "Genotoxic and Cytotoxic Effects of Different Xanthone Extracts of *Swertia* Species in *Pisum sativum*" Int. J. of Pharmaceutical Sciences Rev. and Res. [ Scopus indexed ] .Vol.39 (1);255-259
19. Ranjana Singh, Sopan N. Kharat, Vijay D. Mendhulkar (2016)-Chromatographic analysis for diosgenin content in *Abutilon indicum* (L.) sweet. Int. J. of Pharmacy and Pharmaceutical Sciences ( Scopus, Elsevier indexed ) , Vol. 8 ( 2 ),178-182
20. Mendhulkar V.D., Yadav Anu, and Supriya Khemkar-(2016)-Photochemical decolorization of methyl violet dye using *Azadiracta indica* mediated silver nanoparticles. Der Pharmacia Letter,( Scopus indexed )Vol.8(7):119-128
21. Ranjana Singh and Vijay D. Mendhulkar (2016 )- Investigation on synergistic effect with antibiotics and antioxidant potential of synthesized AgNPs using *Abutilon indicum* leaf extract.( under communication)
22. Anu Yadav and Vijay D. Mendhulkar- (2016) .*Camellia sinensis* mediated synthesis and encapsulation of Iron nano particles for decolorization of dyes. Biochemistry-An Indian Journal. Vol. 10 ( 1 ) ,20-29.
23. Kharat Sopan and Mendhulkar V.D. (2017) --HPLC assay, Phytochemical, FTIR Characterization and studies on Antioxidant activity of *Elephantopus scaber* (Linn.) using six different soxhlet leaf extracts. Der Pharma Chemica,9(23),18-28.
24. Swati Sakhare and Mendhulkar V.D. (2016 )-Embryo exiced callus induction and rhizogenesis in *Linum usitassimum* ( Linn. ). Int. J. of Pharma and Bio-Sciences.( Scopus indexed )Vol.7 (3) B 507-511 L.A.
25. Yeragi and V. D. Mendhulkar ( 2016) Seasonal variations in antibacterial and antifungal activity of *Excoecaria agallocha*. Asian J. of Microbiology, Biotechnology & Environmental Sciences ( Scopus indexed, Communicated )
26. Hena Hayat and Mendhulkar V.D. ( 2016) -A Simplified approach to transesterification for GC-MS analysis in *Jatropha curcas*. Der Pharmacia Lettre [ Scopus indexed ] . Vol. 8 ( 10 ) : 233-237.
27. Ranjana Singh and Vijay D. Mendhulkar (2016) -- Sunlight-induced rapid synthesis of silver nanoparticles using *Abutilon indicum* leaf extract and their effects on *Vigna radiata* L.( communicated)
28. Bonny Sinhna Ray, L Pitale and V. D. Mendhulkar (2015) Effects of temperature stress on Soybean seeds .Der Pharmacia Lettre,( Scopus indexed )7 (11):141-46
29. Mendhulkar V.D., Anu Yadav and Raul Ankita (2015)-In vivo mitodepressive and genotoxic effect induced by herbal toothpastes in *Pisum sativum*. Int. J. of Pharm Tech Research. Vol 8 (6),[Scopus indexed] pp.186-191.
30. V.D. Mendhulkar and K Nisha (2015) - Physiological and biochemical effects of polyethylene glycol (PEG) induced drought stress condition in four varieties of Indian tomatoes ( *lycopersicum esculentum* ). Int. J. Pharm. Bi. Sci. (Scopus, Embase indexed , Elsevier ) ,6(4): (B) 971 – 980
31. Singh Ranjana and Mendhulkar V.D. (2015) - FTIR Studies and Spectrometric analysis of natural antioxidants, polyphenols and flavonoids in *Abutilon indicum* (Linn.) Sweet Leaf extract. J. of Chem. and Pharmace. Res. h. Vol. (6): 205-211.
32. Kharat Sopan, Singh Ranjana and Mendhulkar V.D. (2015) Quantitative analysis for Diosgenin content in *Elephantopus scaber* (Linn.) by HPTLC using successive solvent extraction method. Der Pharmacia Lettre. Vol.7 (5):236-244.[indexed in Elsevier Bibliographic Database SCOPUS, EMBASE]
33. Mendhulkar V.D., Yeragi Laxmikant and Sneha Kadam (2015) -Atomic Absorption Spectroscopic analysis of Heavy Metals in the Leafy Vegetables grown along the Central Railway Track in Mumbai. The J. of Adv in Plant Sci.. ISSN-0970-3586. Vol.28 (01):21-23.
34. Yadav Anu and Mendhulkar V.D. (2015). In-Vitro antiplatelet aggregation activity of the extract of *Camellia sinensis*. Res. in Biotec., Vol.(6 (3),10-16.
35. Mendhulkar Vijay D. and Sopan N. Kharat . (2015)-HPTLC assay for Quercetin and Rutin flavonoids in *Elephantopus scaber* [linn.] grown under induced heat stress condition. Int. J. Pharm. Bi. Sci Vol.6 (2) [B]-36-52 indexed in CAS (USA) Elsevier Bibliographic Database (SCOPUS, EMBASE).

36. Mendhulkar V.D. , Bhatti Tejprakash and Kharat Sopan (2015)-Cytogenetical and Morphological Variations in EMS treated *Glycine max* Linn. (Merr.).Res. in Biotechnology.Vol.6(4),19-26.
37. Yadav Anu and Mendhulkar V.D. (2015)- Repellency and toxicity of *Couroupita guianensis* leaf extract against Silver leaf Whitefly (*Bemisia tabaci*).Int. J. of Sci.and Res. Publi..Vol.5 (3),249-252.
38. Singh Ranjana and Vijay D. Mendhulkar (2015)-*Abutilon indicum* (Linn.), Sweet leaves, a natural source of Saponin-A Spectrometric assays. Int.J. of Pharm Tech Research. Vol.8 (4),725-729.[indexed in Elsevier Bibliographic Database SCOPUS, EMBASE]
39. Raut Vidya, Kharat Sopan and. Mendhulkar V. D. (2015 ) -Electrophoretic Protein profile of few Pulses consumed locally in Mumbai region. Int. J.of Pure & Applied Bioscience .Vol. 3 (2), 156-161.
40. Yeragi L.A. and Mendhulkar V. D. (2015)- Biodiversity around Garbage area in Kannamwar nagar, Vikhroli Suburb, Mumbai. Int. J.I of Res. in Envi. Scie. and Tech..Vol.5 (2):43-48
41. Mendhulkar V.D, Mayekar Abhijit, Nagare Aruna. (2015) - Callus Cytology and Electrophoretic Protein Profiling in Cultured cells of *Andrographis paniculata* (Linn.) .Int.J. of Pharmace. Sci., Review and Research.34(1),158-161.
42. Nangare Aruna and Mendhulkar V.D. (2014) - Studies on In-vitro Antimicrobial Activity in *Swertia* species Collected from South West part of Maharashtra. The J. of Adv in Plant Sci.. .ISSN-0970-3586. Vol.27 (02),pp 287-290.
43. Yeragi Laxmikant and Mendhulkar V.D. (2014). IPA-AES Analysis for Bioaccumulation of Heavy Metals in Mangrove Plants *Excoecaria agallocha* Linn. Collected from Polluted area in Mumbai. The J. of Adv in Plant Sci.. . ISSN-0970-3586. Vol.27 (02),pp 497-500
44. Nangare Aruna and Mendhulkar V.D. (2014) - Mangiferin quantification in some *Swertia* species collected from south-west zone of Maharashtra. Int. J. of Bioassays ISSN: 2278-778X. 3 (11) pp 3488-3491
45. Mendhulkar VD, Yadav Neetu, Yadav Anu and K. Nisha. (2014)-Cytological and physiological effects of *Couroupita guianensis* leaf extracts on *Pisum sativum* seeds. Indian J. of Fund. and App. Life Sciences.kant and Pandey Preeti (2014). - ICP-AAS Analysis for heavy metals in *Avicennia officinalis* .Int.J. of Res. in Envi. Sci. and Tech.. ISSN No 2249-9695 .Vol .5 (1); 35-37.
46. Raut. R. W, Mendhulkar V.D., Kashid S.B. (2014)-Photosensitized synthesis of Silver Nanoparticles Using *Withania somnifera* leaf powder and Silver nitrate .J.of Photochem. and Photobio. .B-Biol. Elsevier Publications .Vol 132,P 45-55.
47. Vakil M. A. and Mendhulkar V. D. (2013) -Salicylic acid and Chitoson mediated abiotic stress in cell suspension culture of *Andrographis paniculata* ( Burm.F.) Nees. For Andrographolide synthesis. Int. J.Pharm Sci. Res. 4 (9), p. 3453-3459.[indexed in Elsevier Bibliographic Database SCOPUS, EMBASE.
48. Mendhulkar V. D. and Vakil M. A. (2013)-Chitoson and *Aspergillus niger* mediated elicitation of Total flavonoids in suspension culture of *Andrographis paniculata* (Burm.F.) NEES.Int. Jou.of Pharma and Bio. Sciences 4 (4), 731-740. [Indexed in Elsevier Bibliographic Database SCOPUS, EMBASE
49. Vakil M. A. and Mendhulkar V. D. (2013) -Salicylic acid and Chitoson mediated abiotic stress in cell suspension culture of *Andrographis paniculata* ( Burm.F.) Nees.for Andrographolide synthesis. Int. J.Pharm Sci. Res. 4 (9), p. 3453-3459.[indexed in Elsevier Bibliographic Database SCOPUS, EMBASE
50. Mendhulkar V. D. and Vakil M. A. (2013)-Chitoson and *Aspergillus niger* mediated elicitation of Total flavonoids in suspension culture of *Andrographis paniculata* (Burm.F.) NEES.Int. Jour.of Pharma and Bio. Sciences 4 (4), 731-740. [Indexed in Elsevier Bibliographic Database SCOPUS, EMBASE
51. Mendhulkar V. D. and Moinuddin M. (2013)-Elicitation of flavonoids by Salicylic acid and *Penicillium expansum* in *Andrographis paniculata* (Burm.. f.) Nees. Cell culture. Research in Biotechnology 4 (2), p.01-09.
52. Moinuddin M. and Mendhulkar V. D. (2013) -Enhanced synthesis of andrographolide by *Aspergillus niger* and *Penicillium expansum* elicitors in cell suspension culture of *Andrographis paniculata* (Burm. f.) Nees. Bota. Bulle.of Acad. Sinica. ( Springer publication)54 (2), 1-8

53. Mendhulkar V.D. and Moinuddin M. Ali (2011).Colorimetric Determination of Cell Growth Phase and detection of andrographolide in suspension culture of *Andrographis paniculata*. Nees. J. of Adv.in Plant Sci., India vol. 24 No. 02. 425—427.
54. Mendhulkar V.D. and Moinuddin M. Ali. (2011)- Treatment of Salicylic acid to the Cell Suspension of *Andrographis paniculata* for the evaluation of Andrographolide, The J. of Adv in Plant Sci., India vol. 24 No. 02, 413-416.
55. Mendhulkar, V.D .Tushar Mane and Priyanka Patade (2011) - EMS induced biochemical variations in cultured cells of *Vigna radiata* L. The J. of Adv in Plant Sci., India vol. 24 No. 02, 405-407.
56. Mendhulkar V.D. Priyanka Patade and Sandeep Singh (2011)-DMSO induced cell permeability in cell suspension culture of *Bacopa monnieri* Linn. Int.J. of Pharmace. Sci. and Res.. Vol 2(11), 3006-3009.[indexed in Elsevier Bibliographic Database SCOPUS, EMBASE]
57. Raut Rajesh W., Lakkakula Jaya R., Kolekar Niranjana S., Mendhulkar Vijay D.and Kashid Sahebrao B. (2010)- "Extracellular synthesis of Silver Nanoparticles Using Dried Biomass of *Pongamia pinnata* (L) Pierre. Nano Micro Letters. Quahost Publication, China Vol,2 No.2,106-110.[indexed in Elsevier Bibliographic Database SCOPUS, EMBASE]
58. Raut Rajesh W., Lakkakula Jaya R., Kolekar Niranjana S, Mendhulkar Vijay D.and Kashid Sahebrao B.(2009).- Phytosynthesis of Silver Nanoparticles Using *Gliricidia sepium* (Jacq.) Cur. Nanoscience, (Bentham Science Publisher), U.K.( imfa -2.793). Vol. 5, No. 1. Pp117-121.[indexed in Elsevier Bibliographic Database SCOPUS, EMBASE]
59. Mendhulkar V.D., Shaikh Asif and Raut R.W. (2009) -Comparative Assessment for Nutritional Quality of Sprouted and Dried legume seeds. The J. of Adv in Plant Sci..Vol.22 (I), 85-88
60. Raut R. W. Sunil Kolvekar and Mendhulkar V. D. (2008)- Effect of Chromium from Tannery Effluent on some Physiological and Biochemical Parameters in *Vigna radiata* Linn. Seedlings Grown under In-vitro Conditions.The J. of Adv in Plant Sci. 20(II), 21-24, 2008.
61. Mendhulkar V.D, Moinuddin M. Ali and Raut R.W. (2007) - Saponin Estimation in *Vigna radiata* cell culture treated with Cell Permeabilizing Agent ,Triton X-100. The J. of Adv in Plant Sci.. Vol.22 (I), 1-5.
62. Raut R.W; Taraporwala Nancy and Mendhulkar V.D. (2007)-Effect of pharmaceutical effluent of Morphological and Biochemical parameters in *Vigna radiata* (Linn). The J. of Adv in Plant Sci..Vol.20 (I) 289-293.
63. Mendhulkar V.D., Panchal Shailesh and Raut R.W. (2006) – Chlorophyll estimation and Raphide quantification in *Colocasia esculenta* (L.) Schott. Grown in polluted and unpolluted condition. The J. of Adv in Plant Sci.. Vol. 19 No. 1. 69-73.
64. Raut R.W.,Shabeena Yassen and Mendhulkar, V.D.(2005)-Callus Induction from leaf and stem explants of Medicinally Important Plant *Blumea lacera* Linn. In: Proc. of Tenth all India Conf. of Society of Cyto. and Gene.,Vishakapattana
65. Mendhulkar, V. D; Siddiqui, U. and Raut R. W. (2005)-Palmer Dermatoglyphy in Mentally Retarded Individuals. The J. of Cyto. and Genet.. Vol. 6,p.11-18
66. Mendhulkar, V.D., Gupta D. and R.W. Raut (2005)–Mitotic Depression in *Trigonella foenum-graecum* treated with Sodium azide. The J. of Adv in Plant Sci. Vol. 18 (II), 529-532.
67. Mendhulkar, V.D (2002)-Synergistic Effect of Sodium azide (SA) in Combination with Maleic hydrazide (MH) in *Triticum aestivum* Linn. The J. of Adv in Plant Sci..Vol.15 (I):213-219.
68. Mendhulkar, V.D. (2000)-Effect of Maleic Hydrazide on Somatic cells and Nuclear Size in *Triticum aestivum* Linn. The J. of Adv in Plant Sci. Vol. 13 (II):567-572.
69. Patil, B.C. and Mendhulkar, V.D. (1993)-Occurrence of Cytotoxic Cells and Mini pollen Grains in EMS Induced Sterile Mutant of *Desmodium tortuosum* (SW.) DC. The J. of Cyto. and Genet..Vol.28 (2):131-135.

### Key Note Address /Guest /Lead lectures:-

- Guest Lecture under DST –Inspire Science Scheme on the topic Bioplastics – The Next Generation Biopolymers at PG Autonomous College, Durg (C.G.on Nov.- 24<sup>th</sup>, 2017
- Inspire Guest Lecture on- *Plant Cell-A factory of Natural Metabolites* in Gov. P.G. Autonomous College , Durg, Chattisgarh on 22-10-2016

- Lead Lecture on the Topic " *Bioactive Constituents and their Elicitation using In-Vitro Techniques*" in Babasaheb Ambedkar Marathwada University, Aurangabad on 2-03- 2017
- Key Note Address on topic- Biological Synthesis of Nanoparticles and their applications in Agriculture and Health Care. APSI National Conference, Padalia College of Pharmacy, Ahmadabad, 1-2 Feb, 2015
- Key Note Address on topic---Significance of Bioactive Metabolites and their Enhancement under in- vitro Condition "In National conference on Biodiversity and Ecological Sustainability, Puri, Odisha 15th-16th, 2014
- Guest Speaker under DST sponsored programme, Inspire Science. Delivered a talk on "Youthful Era of Scientific Innovations at P.G. College Bhilai, Chhattisgarh on 19-09-2013
- Guest Lecture on the topics, " Secondary Metabolites and its Elicitation " in National Conference at Vellar College, Erode, Tamil Nadu. Oct. 10th-12 th, 2004
- "Secondary Metabolites and In-Vitro Techniques" at ENBIOT-09 in Indian Institute of Environmental Management SIES, Nerul, Navi Mumbai, on 3<sup>rd</sup> Dec-2009
- Delivered a talk on "Advances in Biotechnological Research" for Biotechnological Society, Department of biotechnology, Shivaji Mahavidyalaya, Amravati. , 18 th August, 2010.
- "Biostatistical Applications" in Workshops at Academic Staff College, Nagpur University, Nagpur
- "Mutation Methodology" in Refresher course, Academic Staff College, Nagpur University, Nagpur.

### **Conferences/ Workshops Organized-----**

1. 17<sup>th</sup> APSI Scientists Meet and National Conference on "Perspectives and Present Scenario in Plant Science Research" (NCPSPSR-08), 20<sup>th</sup> -21<sup>st</sup> November 2008 ,organized in collaboration with the Academy of Advances in Plant Sciences India, Muzaffarnagar and Department of Botany, Institute of Science, Mumbai.

2. "Bionics-09"---A workshop on Bioinformatics, 28<sup>th</sup> Dec. 2009.

3. "Bionics-10"---A seminar on Carrier Guidance for the students of Biotechnology, 28<sup>th</sup> - 29<sup>th</sup> Jan 2011.

4. Convener---"National Conference on Conservation of Medicinal Plant". Organised by Department of Botany and Biotechnology, Institute of Science on Dec. 14-15<sup>th</sup> 2012.

### **Awards/Citations**

- Best Conference Organizing Secretary for 17<sup>th</sup> APSI Scientists Meet and National Conference on "Perspectives and Present Scenario in Plant Science Research" (NCPSPSR-08), 20<sup>th</sup> -21<sup>st</sup> November 2008 ,organized in collaboration with the Academy of Advances in Plant Sciences India, Muzaffarnagar.
- APSI Certificate of Excellence presented by Honorable Minister for Minor Irrigation, Govt. Of Andhra Pradesh, on 30<sup>th</sup> September 2010 in 19<sup>th</sup> APSI Scientists Meet 2010 and National Conference on Plant Biotechnology towards Nutritional and Nutraceutical Potential. Sep. 30<sup>th</sup> to Oct. 1<sup>st</sup> 2010. Sarojini Naidu Mahavidyalaya, Hyderabad.

### **Presentations in Conferences--**

1. Anticytotoxic effect of vermiwash against industrial influent on *Pisum sativum* Nisha K and Vijay D. Mendhulkar ---In International Conference on Biotechnology and Biotherapeutics-Organized by International Research Centre, Satyabama University, Chennai, 8-10 March, 2017
2. *Antimicrobial activity of the seeds and callus biomass extract of Linum usitatissimum L. against some important clinical pathogens* ---Swati Sakhare and Vijay Mendhulkar. In 9<sup>th</sup> National Conference on New Biological Researches, at School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai , 11 - 12 th Aug , 2016.

3. *Green Synthesis, Characterization and Optical Properties of Zinc Oxide Nanosheets using Elephantopus scaber L. Leaf Extract* - V.D.Mendhulkar and A.S.Shinde. International Conference on Plant research and resource management and 25<sup>th</sup> APSI Silver Jubilee Scientists Meet, T.C.C.Baramati.(M.S.), -11 -13<sup>th</sup> Feb. 2016
4. International Conference on Advances in Plant Sciences, Empress Hotel, Chiang-Mai, 14-11-2012 to 18-11-2012. Stimulation of andrographolide synthesis in suspension culture of *Andrographis paniculata* (Burm. f.) Nees. using Salicylic acid, Chitosan *Aspergillus niger* and *Penicillium expansum* elicitors. "Moinuddin M. Ali Vakil and Vijay D. Mendhulkar Chaired a Scientific session on \Genetics and Molecular Biology
5. *Seasonal antifungal activity of Exoecaria agallocha* -Laxmikant Yeragi and V. D. Mendhulkar International Conference on Plant research and resource management and 25<sup>th</sup> APSI Silver Jubilee Scientists Meet, T.C.C.Baramati.(M.S.),-11 -13<sup>th</sup> Feb. 2016."
6. *Latex of Exoecaria agallocha Linn. –A Potent Larvicidal agent.*L.A.Yeragi, V. D. Mendhulkar and Hemanthkumar, National Conference on Biodiversity,16-18 Feb,2016, Vikas College, Mumbai
7. *A simplified method for preparation of fatty acid methyl esters for gas chromatography in Jatropha curcas.* Hena Hayat and Vijay D.Mendhulkar . Biofuels and Bioenergy,- International Conference and Exhibition,Department of Chemical Engineering, MANIT, Bhopal, India. 23-25<sup>th</sup> Feb,2016.
8. *Physiochemical characterization of Jatropha seed oil for Industrial applications* - Hena Hayat and V.D. Mendhulkar. International Conference on Plant research and resource management and 25<sup>th</sup> APSI Silver Jubilee Scientists Meet –T.C.C.,Baramati.(M.S.),11 -13<sup>th</sup> Feb. 2016.
9. *Antimicrobial activity of the seeds and callus biomass extract of Linum usitatissimum L.. against some important clinical pathogens---* Swati Sakhare and Vijay Mendhulkar at 9<sup>th</sup> NABS National Conference on New Biological Researches, which was held at School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai , 11 th and 12 th Aug 2016.
10. *Green Synthesis, Characterization and Optical Properties of Zinc Oxide Nanosheets using Elephantopus scaber L. Leaf Extract* - V.D.Mendhulkar and A.S.Shinde. International Conference on Plant research and resource management and 25<sup>th</sup> APSI Silver Jubilee Scientists Meet, T.C.C.Baramati.(M.S.), -11 -13<sup>th</sup> Feb. 2016
11. *Effect of phytosynthesized silver nanoparticles on seed germination and physiology of Vigna radiata-* Ranjana Singh and Vijay D. Mendhulkar. International Conference on recent advances in Biotechnology and Nanobiotechnology, Amity Institute of Biotechnology, Amity University, Gwalior ,10-12<sup>th</sup>Feb,2016.
12. *Synthesis of Polyhydroxyalkanoates (PHA) – A biodegradable polymer in Cyanobacteria Synechococcus elongates using synthetic carbon sources-* Laukik Shetye and Vijay Mendhulkar .In Targeted Proteomics workshop and international symposium ,IIT Pawai,Mumbai ,Dec. 10- 14 th Dec.,2015.-
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  51. *Production of Desirable Mutant Lines-A good Source of Genetically Improved Plant Variety Conservation."*- Mendhulkar V.D.- In National Symposium on Conservation of Biological Resources. Institute of Science, Mumbai., Dec. 16th –17th 1996.
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  54. *Effect of Maleic Hydrazide on Somatic cells and Nuclear Size in Triticum aestivum Linn.*- Mendhulkar V.D and Khalatkar. A.S. "In 12th All India Botanical Conference, Nagpur. Jan, 8th –10th, 1990.
  55. Participated in National Symposium on Biodiversity, Conservation and Commercial Exploitations of Medicinal Plants. Osmania University Hyderabad. November, 8th -10th , 2003.
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## Topics taught—

Cytogenetic, Plant biotechnology, Biostatistics, Instrumentation, Molecular Biology, Nanobiotechnology

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