

CURRICULUM VITAE

Dr. Mahesh V. Kawale

Assistant Professor

Department of Botany

D. B. Science College, Gondia-441614.

E-mail: mvkawale@dbscience.org

kawalemahesh@gmail.com



EDUCATION

- Awarded Ph. D. in Botany on title “**Investigations on cultivation and *in vitro* multiplication of few medicinal plants.**” by RTM Nagpur University Nagpur on 16/04/2008.
- **M.Sc. (Botany)** from PGTD Botany, Nagpur University, Nagpur in the year 2001 securing 67.5% of marks with **Cytology & genetics** as specialization.
- **B.Sc. (Botany, Zoology and Chemistry)** from Nagpur University, Nagpur in the year 1999 securing 54.07% of marks.

EXPERIENCE

- Currently working as Assistant Professor, Dept. of Botany, D. B. Science College, Gondia (**December 2009- till date**)
- Worked as **Research Associate** at Plant Breeding Laboratory, Directorate of Medicinal and Aromatic Plants Research (ICAR), Boriavi, Anand, Gujarat. (**February 2009 - November 2009**)
- Worked as **Research Associate** at Discipline of Marine Biotechnology and Ecology, Central Salt & Marine Chemicals Research Institute (CSIR), Bhavnagar, Gujarat. (**August 2008 - January 2009**)
- Worked as Full time lecturer on contract basis at Post Graduate Dept. of Botany, Hislop College, Nagpur (**June 2006 - April 2008**).
- Worked as **Junior Research Fellow** at Department of Botany, RTM Nagpur University, Nagpur in a research project funded by Science and Technology Cell, Govt. of Maharashtra, Mumbai entitled ‘**Investigations on cultivation and industrial exploitation of novel medicinal plants.**’ (**July 2001 - March 2004**)

ACHIEVEMENTS

- ❖ A Minor Research Project is completed on ‘Collection and Characterization of *Andrographis paniculata* germplasm from Gondia district.’ Sanctioned by University Grant Commission, New Delhi.

- ❖ Research paper entitled '**Diversity of Macrofungi in Koka forest of Bhandara District, Maharashtra.**' Won best Poster award in the XII session of XXIII Conference of IAAT and National Seminar on 'Recent Advances in Plant Taxonomy Research' organized by PGTD of Botany, RTM Nagpur University, Nagpur on 27th -29th December 2014.
- ❖ Research paper entitled '**Report on minor forest products from Warashivani taluka of Balaghat district.**' Won the Consolation Prize for best Poster in National Seminar on 'Recent Trends in Bio-Geo Sciences' at Mohata Science College, Nagpur 14th Oct 2010 at Nagpur.

PAPERS

- * **Kawale MV & Choudhary AD (2009)** Phytochemical analysis of some medicinal plants from Nagpur region (Maharashtra state). **Bioinfolet** 6(2):108-109.
- * **Kawale MV & Choudhary AD. (2009)** *In vitro* multiple shoot induction in *Trichosanthes cucumerina* L. - A plant with high medicinal value. **Indian Journal of Plant Physiology** 14(2):116-123.
- * **Kawale Mahesh and Koche Deepak (2010)** Role of Phytochemicals in modern medicine : An Insight. **Hislopiya Journal** 3(2): 245-253.
- * **Kawale M., Saravanan R., Ankoliya S., Patel P.R., Srivastava A., Gajbhiye N., Patel S.L. and Manivel P. (2012)** Pharmacognostic Characterization Of *Desmodium gangeticum* (L.) DC - An Ayurvedic Medicinal Plant. **International Journal of Pharmacognosy and Phytochemical Research** 3(4):119-126.
- * **Kawale Mahesh (2012)** *Asparagus adscendens* Buch. Ham. ex Roxb. The original 'Safed Musali'- An update. **Journal of Science Information: Special Issue for National Conference on Biodiversity Conservation for a better Biosphere : 70-74.**
- * **Kawale Mahesh, Kogje K.K., Choudhary A.D., Makde K.H. (2012).** Influence of Fertilizers on Growth and Biomass of *Phyllanthus amarus* Linn. **In Proceedings of National Conference on Innovative Research Trends in Biological Sciences,** organized by Shri Shivaji College, Akola pp. 753-756.
- * Tagade Walay and **Kawale Mahesh (2012)** Investigation of Rhizosphere mycoflora diversity of *Eclipta alba* and *Spilanthes acmella*. **Hislopiya Journal** 5(1): 65-69.
- * Koche DK, **Kawale MV,** Borkar KM and Tagade WY (2013) Plant- Pathogen Interaction: A Biomolecular Insight. **New Interdisciplinary National Research Journal. II(I) ISSN : 2279-0349**
- * **Kawale Mahesh, Ankoliya Sandip, Saravanan R, Dhanani T and Manivel P (2014)** Pharmacognostical and phytochemical analysis of *Asparagus adscendens* Buch. Ham. Ex Roxb. (Shweta Musali). **Journal of Pharmacognosy and Phytochemistry** 3(4): 131-139.

- * Tagade WY and **Kawale MV** (2014) Diversity of Wild Macrofungi in forests of Bhandara District, (MS), India. **Int. J. of Life Sciences**, Special Issue A2: 125-127.
- * **Kawale MV** (2014) Population Dynamics and Genetics of Endangered Plant Species. In: Prof. A. D. Choudhary Commemoration Volume: A Glimpse of Current Vistas in Plant Science Research. Eds.: K. H. Makde & S. E. Pawar. Publ.- Hislop College Publication Cell, Nagpur, India. pp 109-122 ISBN: 978-81-910409-6-8.
- * **Koche DK, Shirsat R and Kawale MV (2016)** An overview of Major Classes of Phytochemicals: Their types and Role in Disease prevention. **Hislopia journal** 9(1/2): 1-11.

POSTERS /PARTICIPATION IN CONFERENCES

- * **Mahesh Kawale**, K.K. Kogje, A.D. Choudhary, K.H. Makde (2004). 'In vitro multiplication of *Phyllanthus niruri* L. A medicinal plant.' In National Symposium and First BRSI Convention entitled as "Developments in Biotechnology: Emerging Trends and Challenges" 25-27 November 2004 at Jalgaon.
- * Pooja Tiwari and **Mahesh Kawale** (2004). 'In vitro culture of *Datura metal* L.' In National Symposium and First BRSI Convention entitled as "Developments in Biotechnology: Emerging Trends and Challenges" 25-27 November 2004 at Jalgaon.
- * **Mahesh Kawale**, K.K. Kogje, A.D. Choudhary, K.H. Makde (2005). 'Studies on cultivation trials of *Phyllanthus niruri* L. in relation to NPK effects.' In National Seminar on Herbal Technology held at Vadodara on 28-29 January 2005.
- * **Mahesh Kawale**, BBSP Nag (2005) Study of secondary metabolites of *Catharanthus roseus* G. Don A valuable Medicinal Herb. In International Conference on "Modern trends in Plant Sciences with special reference to the role of Biodiversity in Conservation" 17-20 February 2005 at Amravati.
- * Sandip Ankolia, **Mahesh Kawale**, R. Saravanan and P. Manivel (2009) Pharmacognostic evaluation of *Desmodium gangeticum* (L.) DC, An important medicinal plant. In Golden Jubilee National Symposium on Medicinal & Aromatic Plants at CIMAP Resource centre, Bangalore, 26th June 2009.
- * **Kawale Mahesh** (2010) Indian source of Camptothecin *Nothapodytes nimmoniana* needs conservation. In National Conference on 'Current Scenario on Global Challenges in Germplasm Conservation and Biodiversity' at PGTD Botany, Nagpur University, 7-8th July 2010 at Nagpur.
- * Rana G. R., Udupure V. P., **Kawale M.V.** (2010) Report on minor forest products from Warashivani taluka of Balaghat district. In National Seminar on 'Recent Trends in Bio-Geo Sciences' at Mohata Science College, Nagpur 14th Oct 2010 at Nagpur.
- * **Kawale MV** & Choudhary AD. (2010) In vitro multiplication of *Tephrosia villosa* (Linn) – a lesser known medicinal plant. In National Conference on 'Biodiversity of Medicinal and Aromatic Plants: Collection, Characterization and Utilization' at DMAPR Anand 24-25th Nov 2010 at Anand.
- * **Kawale M.V.** & Choudhary A.D. (2011) Preliminary phytochemical analysis of few high potential medicinal plants of central India. In National Conference On Recent Advances in Plant Sciences at Dharm Samaj College, Aligarh (UP) 15th - 16th October, 2011.
- * **Kawale Mahesh** & Tagade Walay (2012) Reports on Treatment of Kidney Stone from Gondia District (Maharashtra). In National Symposium on Modern Research Trends

and Applications in Life Sciences organized by Elphinstone College, Mumbai on 7 January, 2012.

- * Tagade Walay and **Kawale Mahesh (2013)** Investigation of Rhizosphere mycoflora of *Eclipta alba* and *Spilanthus acmella*. In National Seminar on Fungi and Human Welfare organized by Ramnarain Ruia College in association with Mycological Society of India on 8-9th February 2013.
- * Tagade Walay and **Kawale Mahesh (2013)** Diversity of Macrofungi in Koka forest of Bhandara District, Maharashtra. In XXIII Conference of IAAT and National Seminar on 'Recent Advances in Plant Taxonomy Research' organized by PGTD of Botany, RTM Nagpur University, Nagpur on 27th -29th December 2013.
- * Tagade Walay and **Kawale Mahesh (2014)** Fungal Diversity in Soil Samples of Hiwra KVK, Gondia. In 37th All India Botanical Conference of Indian Botanical Society and National Symposium on 'Biodiversity and Climate Change' held at KET's V.G. Vaze College, Mulund (East) Mumbai-400 081 from 7th-9th November 2014.
- * Tagade WY and **Kawale MV (2014)** Diversity of Wild Macrofungi in forests of Bhandara District, (MS), India. In UGC sponsored National Conference on 'Biodiversity conservation and Role of microbes in sustainable environmental management' organized by Jawaharlal Nehru Science College, Wadi Nagpur on 18th October 2014.
- * Charje R, Nagpure R and **Kawale MV (2015)** Characterization of *Andrographis paniculata* germplasm collected from Gondia district. In UGC sponsored National Seminar on 'Modern Tools and Techniques in Plant Sciences' organized by SM Mohta College of Science, Nagpur on 14th March 2015.
- * Gawali Pallavi, Tagade Walay and **Kawale MV (2015)** Pharmacognostic Characterization of Sita Ashok (*Saraca asoca*) and Khota Ashok (*Polyalthia longifolia*). In UGC sponsored National Conference on 'Advances in Bio-science and Environmental Science : Present and Future' organized by BP Arts, SMA Science and KKC Commerce College, Chalisgaon on 22nd and 23rd Sept. 2015.
- * Lihare TK and **Kawale MV (2015)** Phytochemical and Nutritional studies of *Amaranthus tricolor* Linn. In UGC sponsored National Conference on 'Sustainable Development and Green India' organized by Hislop College, Nagpur on 17th Oct. 2015.
- * Lihare TK and **Kawale MV (2015)** Survey of Nutritionally important wild medicinal plants of Gondia district Maharashtra. In National Seminar on 'Recent Advances in Research and Development in Medicinal and Aromatic Plants- A country Scenario' organized by SFRI, Jabalpur on 27-28th November 2015.
- * **Kawale MV** and Tagade WY (2016) Variability of Kalmegh (*Andrographis paniculata*) in Gondia district assessed using Morphological and Biochemical markers. In UGC sponsored National Conference on 'Innovations in Agri-Biosciences' organized by Dr. Ambedkar College, Deekshabhoomi Nagpur on 26-27th February 2016.
- * **Kawale MV (2017)** Pharmacognostic and Phytochemical studies on *Holarrhena antidysenterica*. In 40th All India Botanical Conference of the Indian Botanical Society and National symposium on 'Evaluation and conservation of Plant Germplasm' organized by Department of Botany, Punjabi University, Patiala on 15th - 17th September 2017.
- * Lihare TK and **Kawale MV (2018)** Micro-morphology and preliminary phytochemical study on *Rorippa indica*. In National seminar on 'Natural Heritage and Biodiversity' organized by Hislop College, Nagpur on 17th January 2018.

- * Tagade WY and **Kawale MV** (2018) Seed borne fungi associated with some pulses in Gondia. In State level seminar on 'Current Scenario of Botanical Research' organized by Shivaji College, Akola on 2nd February 2018.

*

TECHNIQUE DEMONSTRATION

- * **Kawale Mahesh** (2012) Column Chromatography. In UGC funded Motivational Workshop on 'Techniques in Taxonomy: Classical to Molecular Approach' organized by Shri Mathuradas Mohota College of Science, Nagpur on 30-31st March 2012.

MEMBERSHIP

- ❖ Life member of Indian Science Congress Association, Calcutta, India.
- ❖ Life member of Medicinal & Aromatic Plants Association of India (MAPAI).
- ❖ Recognized as Supervisor for Ph.D. in the subject of Botany under faculty of Science by RTM Nagpur University.
- ❖ Life member of Indian Botanical Society (IBS).

PROFESSIONAL TRAININGS

- ◆ Participated in BRNS-DAE sponsored Hands on Training program on '**Mutation Breeding for Crop Improvement**' at IGKVA Raipur from 6th -15th November, 2017.
- ◆ Participated in UGC sponsored Special Winter School on '**Innovations in Teaching and Research**' from 1st to 21st December 2013 organized by Academic Staff College, Pt. Ravishankar Shukla University, Raipur (CG).
- ◆ Participated in UGC sponsored 84th Orientation Programme from 23rd July 2012 to 18th August 2012 organized by Academic Staff College, Rani Durgavati Vishwavidyalaya Jabalpur (MP).
- ◆ Attended training programme on "Introduction of ArcGIS 9" conducted by ESRI India, during 16th July - 17th July 2009.
- ◆ Attended workshop on "Taxonomy, Reproductive Biology and Taxonomy" sponsored by MOEF, Govt. of India & organized by CEMDE, University of Delhi, Delhi during 18th February - 27nd February 2009.
- ◆ Attended training programme on "Methodologies for Soil, Plant and Climatic analysis" sponsored by CSIR, New Delhi & organized by CSSRI, Karnal during 13th December - 22nd December 2008.
- ◆ Attended one day training on Intellectual Property Rights conducted by NIIPM Nagpur.
- ◆ Attended workshop on "Hands on Training on Biotechnological Techniques for Monitoring Quality, Multiplication and Conservation of Medicinal Plants"

sponsored by DBT, New Delhi & conducted by TERI, New Delhi during 30th June - 11th July 2008.

PROGRAMME ATTENDED

- * Attended three days Enrichment Program for Teachers under CPE-UGC organized by Dhote Bandhu Science College, Gondia between 10th -12th January 2018.
- * Attended Commission for Scientific and Technical Terminology sponsored Two day National Seminar on 'Biodiversity, Biology, New Trends in Biological Sciences and Terminology in Science Writing' organized by Anand Niketan College, Anandwan Warora (MS) on 03rd October to 4th October 2012.
- * Attended Theme meeting of BRNS-DAE Govt. of India on 'Applications of Radiations and Radioisotopes in Life and Medical Sciences' hosted by RTM Nagpur University, Nagpur on 20th -21st February 2014.
- * Attended workshop on Teaching Learning skills in **Plant Molecular Biology** under **Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT)** at Department of Botany, Savitribai Phule Pune University, Pune on 1st March 2018.
- * Attended workshop on Teaching Learning skills in **Plant Physiology and Biochemistry** under **Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT)** at Department of Botany, Savitribai Phule Pune University, Pune on 3rd -4th March 2018.

PROGRAMME ORGANIZED

- * UGC Sponsored One day National Seminar on 'Effect of Climate Change on Biodiversity' in collaboration with Forest Department, on 27th January 2013.

UNIVERSITY RELATED EXPERIENCE

- * Set Question Papers for M. Sc. Sem I - (MAF) and III (Angi) for the 2017 winter examination for Gondwana University Gadchiroli
- * Worked as Chief Supervisor in Winter 2016 RTM Nagpur University Theory Examination.
- * Set University Question Paper for B. Sc. Sem III Paper II for the 2014 winter examination.
- * Worked as Valuer for various papers of Botany B. Sc. in University Examination since winter 2011.
- * Performed Invigilation duties for every University Examinations since summer 2010.

- * Worked as an Internal examiner for B. Sc. And M. Sc. Botany Practical examinations in all semesters since Summer 2011.
- * Worked as an External examiner for B. Sc. And M. Sc. Botany Practical examinations in every semester since Summer 2011.

COLLEGE RELATED EXPERIENCE

- * Handled Science Forum Committee for Four Years from 2010-2014.
- * Conducted various activities of Social Gatherings, every year as a Incharge from 2011.
- * Guided 3 M. Sc. Sem Iv Students for project work in 2014.
- * Working as member of purchase committee from 2014.
- * Take over the charge of Head of Botany Department from 1st July 2014.

OTHER EXPERIENCE

- * Worked as Jury member for Poster presentation session in In National seminar on 'Natural Heritage and Biodiversity' organized by Hislop College, Nagpur on 17th January 2018.
- * Worked as Rapporteur in first technical session at State level seminar on 'Current Scenario of Botanical Research' organized by Shivaji College, Akola on 2nd February 2018
- * Chaired Technical Session at One day National seminar on Biodiversity in Forest Ecosystem at SP College, Dasgaon, Gondia on 4th February 2018.