

BIODATA



NAME : Dr. VIJAY SHAMARAO
SAWANT
DATE OF BIRTH: 11, November 1965
OFFICE ADDRESS: Dept. of Botany, Arts, Science and
Commerce College Naldurg. Tal.
Tuljapur, Dist. Osmanabad, (M.S), India.
Pin 413 602
AFFILIATION: Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad
DESIGNATION: Associate Professor and
Head of the Department
CONTACT NO.: Office No. (02471) 246042
Mobile No. 8275210387
E-MAIL : drsawant26314@gmail.com
EDUCATION QUALIFICATION : M.Sc. Ph.D. (Botany)
COUNTRY VISITED: United Arab Emirate
Malaysia and Singapore

Title of Ph. D. Thesis: OCCURRENCE AND QUANTIFICATION OF ARBUSCULAR
MYCORRHIZAL FUNGI OF SOLANACEOUS VEGETABLE CROPS IN MARATHWADA.
(Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)

Teaching Experience:

Under Graduate (Botany) : 30 Years
Post Graduate (Botany) : 2 Years
Post Graduate (Biotechnology) : 2 Years
Research Experience : 10 Years

Board of studies in Botany:

Elected Member of Board of Studies In Botany of Dr. Babasaheb
Ambedkar Marathwada University, Aurangabad From 2000–2005

Solapur University:

P.G. Teaching: P. G. teaching for M. Sc. Botany at DBF Dayanand College, Solapur for two years.

P.G. Practical examiner: P.G. Practical examiner for one year

P.G. Theory Paper Assessment: P.G. Theory Paper Assessment for one year

Shivaji University Kolhapur:

One year full time lecturer appointment in 1987-88 at Khedgi's Akkalkot College, Akkalkot.

Dr BAM University Aurangabad:

Chairman & Member of Theory Paper setting since last 15 years

Member of theory examination paper assesment panel

Member of practical examination panel

College coordinator AISHE

College coordinator AISHE for Six years 2010-11 to 2016-17

IQAC Contribution

Chairman Teaching learning and evaluation committee for IQAC

Research Papers Published :

1. Bhale,U.N.,[V.S.Sawant](#),D.S.Surayawanshi and D.S.Jadhav (2008).
Botanicals to control *Fusarium oxysporum f. spinaciae* incitant of wilt of spinach. *Bioinfolet*, 5 (3):200-203.
2. Bhale,U.N., [V.S.Sawant](#),, P.P.Sarwade and J.N.Rajkonda (2008).
Thermophilic fungi from different substrates of Osmanabad District. *Bioinfolet*, 5(3):248-251.
3. Bhale,U.N., [V.S.Sawant](#), P.P.Sarwade and J.N.Raikonda (2009).
Arbuscular mycorrhizal colonization in ornamental plants. *Bioinfolet*, 6(2):145.
4. Bhale,U.N., [V.S.Sawant](#),V.S.Chatage and J.N.Rajkonda (2009). A New Disease Record of Phylloidy in *Catheranthas roseus* in Maharashtra, India, *J.Mycol Plant Pathol*, 39(2):358-359.

5. Bhale,U.N., [V.S.Sawant](#), J. N. Rajkonda and D. S. Jadhav (2010). Influence of different nutrients sources on fungicide resistant and sensitive *Alternaria spinaciae* the incitant of leaf spot of Spinach (*Spinacea oleracea* L.) Ad. Plant Sci. 23:459-462,
6. Chatage, V. S., [V.S.Sawant](#), J.N.Rajkonda and U.N.Bhale (2011). Morphology and Pathogenic variability of *Macrophomina phaseolina* (Tassi)Goid incitant of fruit rot of Ivy gourd in Maharashtra,India. Bioscience Discovery, 2(1):85-89.
7. Sarwade,P.P., [V.S.Sawant](#), and U.N.Bhale (2011).Arbuscular Mycorrhizal (AM) fungi in some timber yielding plant of Maharashtra, India, Proceeding of UGC sponsored National Conference on "Role of non agricultural Institution in the important of Agricultural technology" held at Dept of Botany, Shrikrishna Mahavidyalaya gunjoti on 23-24th Jan.2011. *BIONANOFRONTIER*, Special issue, 39-40.
8. Rajkonda, J. N., P. P. Sarwade [V.S.Sawant](#), and U.N.Bhale (2011). Effect of *Trichoderma* species on biomass production of cereal crops. Proceeding of UGC sponsored National Conference on "Role of non agricultural Institution in the important of Agricultural technology" held at Dept of Botany, Shrikrishna Mahavidyalaya gunjoti on 23-24th Jan.2011. *BIONANOFRONTIER*, Special issue, 70-72.
9. Rajkonda,J.N., [V.S.Sawant](#), M.G.Ambuse and U.N.Bhale (2011). Inimical potential of *Trchoderma* species against pathogenic fungi. Life Science Feed, 1(1): 10-13.
- 10.Bhale,U.N., [V.S.Sawant](#), M.G.Ambuse and V.S.Chatage (2011). Physiological Studies on Sensitive and Resistant isolates of *Alternaria spinaciae* inciting leaf spot of spinach (*Spinacea oleracea* L.).Biosci.Biotech.Res.Comm.4 (2):188-193.

11. [Sawant, V.S.](#), P.P.Sarwade, V.S.Chatage, J.N.Rajkonda and U.N. Bhale (2011). Arbuscular mycorrhizal fungal status in *Cassia tora* L. Biosci.Biotech.Res.Comm.4(2):216-218.
12. Bhale, U.N., [V.S.Sawant](#) and P.P.Sarwade (2011). Arbuscular Mycorrhizas of some plants growing in Marathwada Region of Maharashtra, *KAVAKA*, 39:33-36
13. Rajkonda, J.N. S.L Korekar, [V.S.Sawant](#) and U.N.Bhale (2012). Biopriming of seeds for improving germination behavior and biomass production of oilseed crops. Proceedings of the National conference on "Plant Science for Sustainable Agriculture and Rural Development" held at Dept of Botany, ASC College Naldurg (Bhale and Sawant Eds) pp.76-80.
14. [Sawant, V.S.](#), P. P. Sarwade, V. S. Chatage, J. N. Rajkonda and U.N.Bhale (2012). Mycorrhiza: Biofertilizer for *Solanum melongena* L. Proceedings of the National Conference on Plant Science for Sustainable Agriculture and Rural Development" held at Dept of Botany, ASC College Naldurg (Bhale and Sawant Eds) pp.81-85.
15. Sarwade, P.P., [Sawant, V.S.](#) and U.N.Bhale (2012). Diversity of Arbuscular Mycorrhizal (AM) fungi in some common plants of Marathwada. Proceedings of the National Conference on "Plant Science for Sustainable Agriculture and Rural Development" held at Dept of Botany, ASC College Naldurg (Bhale and Sawant Eds) pp.145-148.
16. Bhale U.N., [V.S. Sawant](#), V.S.Chatage and J.N.Rajkonda (2012). *In vitro* evaluation of *Trichoderma* strains against *Macrophomina phaseolina* causing fruit rot of *Coccinia indica*. J. Mycopathol Res., 50(2):255-259.
17. [Sawant, V.S.](#), K.G.Bansode, S.N.Bawachkar and U.N.Bhale. (2013). Potential of Various Fungi for Biomass Production of Castor. *Pakistan Journal of Biological Sciences*. 16 (21): 1378-1382.

18. [Sawant, V.S.](#), [J.N. Rajkonda](#) and [U.N. Bhale](#) (2013). Interface between Arbuscular Mycorrhizal Fungi and Plant growth promoting fungi in tomato, Plant Biotechnology for Agriculture Development and Human welfare', Wizcraft publications and Distribution Pvt Ltd. Solapur, Maharashtra. pp-138-140.
19. [Bhale, U.N.](#), [V.S. Sawant](#), and [S.A. Bansode](#) (2014). River sedimentary soils retort to biomass production of Soybean (*Glycine max*) and Arbuscular mycorrhizal fungal (AMF) status. Int. J. Adv. Lif. Sci., 6(5):510-515.
20. [Bansode S.A.](#), [Sawant, V.S.](#), and [Bhale U.N.](#) (2014). Reclamation of degraded land through pond sedimentary soil and impact of biomass production and Arbuscular Mycorrhizal Fungal (AMF) status of soybean field. International Journal of Biotechnology and Allied Fields, 2(1): 33-41.
21. [Bhale, U.N.](#) and [Sawant, V.S.](#) (2014). Status of arbuscular mycorrhizal fungal (AMF) root colonization in brinjal (*Solanum melongena* L.). *Indian Journal of Advances in Plant Research* (IJAPR), 1(5): 4-7.
22. [Sawant, V.S.](#) and [Bhale, U.N.](#) (2014). *Acaulospora soloidea* a new report of arbuscular mycorrhizal fungal species from black cotton soils of Maharashtra, India. *J Mycol Pl Pathol.*, 44 (4):258-59.
23. [Bansode S.A.](#), [V. S. Sawant](#) and [U. N. Bhale](#) (2016) Influence of organic fertilizers and AM on Groundnut (*Arachis hypogea* L.) productivity. Proceeding of international conference on Plant research and resources management and 25th APSI Silver Jubilee Scientists Meet 2016 pp.145-148.
24. [Sawant, V.S.](#) and [Bhale, U.N.](#) (2016). Physico-Chemical Analyses and Status of Arbuscular Mycorrhizal Fungi from Rhizosphere Soils of Solanaceous Vegetables. *IOSR Journal of Pharmacy and Biological Sciences* (IOSR-JPBS) 11(6)(IV):97-104.

25. Vipool Thorat, Udhav Bhale, [Vijay Sawant](#), Vijay More, Praveen Jadhav, Shamsundar Shioram Mane, Ravindra Shyamrao Nandanwar, Savarni Tripathi and Amit Yadav (2016) Alternative weed hosts harbors 16SrII group phytoplasmas associated with little leaf and witches' broom diseases of various crops in India. *Phytopathogenic Mollicutes*. 6 (1), 50-55. doi: 10.5958/2249-4677.2016.00009.8
26. Bhale, U. N. and [V. S. Sawant](#) (2016). Mycorrhizal Association Of Solanaceous Vegetables From Vast Deccan Plateau Zone Of India. *J. Mycopathol. Res.* 54(1) : 19-24, ISSN/ISBN - 0971-3719, Refereed & UGC Approved in Care List.(14)
27. U. N. Bhale, and [Sawant, V. S.](#) (2019). Effect of mycorrhizae and PGPF on growth of tomato CV. TO1389 *Bioinfolet*, 16 (1+ 2):8-11.

No. of Conferences / Seminar / Symposia/Workshop/Training attended:

1996-97

1. Second Seminar on Environmental Conservation organized by Shri Chatrapati Shivaji College, Omerga, Dist Osmanabad on 16-17, August 1996.
2. National Symposium on Plant Pathogens and Environment and IX Western Zonal Meeting of Indian Phytopathology organized by Dr. Babasahed Ambedkar Marathawada University, Aurangabad on 10, January 1997.
3. Annual Conference of Society of Mycology and Plant Pathology Udaipur organized by Dr. Babasahed Ambedkar Marathawada University, Aurangabad on 11-13, January 1997.
4. National seminar on biomass; productivity and utilization (UGC SAP-DRS Programme) organized by Dr. Babasahed Ambedkar Marathawada University, Aurangabad on 6-8, February 1997.

1997-98

1. Ninth National Conference on Aerobiology (Theme: Environment and Health) organized by Aurora's Degree College Hyderabad on 27-30, November 1997.

2002-03

1. National Seminar on Vistas of Computer in Life Sciences organized by D.B.F. Dayanand College Solapur on 9-10, August 2002.
2. Seminar Cum Workshop on NAAC's Process of Assessment and Accreditation organized by Arts, Science and Commerce College Naldurg on 2, February 2003
3. Regional Workshop on New Syllabus in Botany: Scope and Limitations organized by Vasant Rao Naik Mahavidyalaya, Aurangabad on 2, March 2003.

2003-04

1. Workshop on Wild life and Conservation organized by Arts, Science and Commerce College Naldurg on 1-7 October, 2003.

2004-05

1. Regional Workshop on New Syllabus in Botany organized by Deogiri College, Aurangabad on 11, July 2004.
2. UGC sponsored State Level Seminar on Plant Biotechnology for Human Welfare organized by Balbhim Arts, Science and Commerce College, Beed on 24, October 2004.
3. Workshop on Molecular Biology Techniques organized by Department of Biotechnology Dr. Babasaheb Ambedkar Marathwada University, Subcentre Osmanabad on 18, November 2005.

4. National Conference on Emerging Trends in Mycology, Plant Pathology and Microbial Biotechnology organized by Osmania University Hyderabad on 29-31, December 2004.

2005-06

1. Workshop on Curriculum in Botany organized by Vasantrya Naik Mahavidyalaya, Aurangabad on 26, June 2005.
2. Scope and Limitations of Syllabus of Botany at B.Sc.III rd Year organized by S.M.D.M.College Kallam 21, August 2005

2007-08

1. National conference on Modern Trends in Plant Sciences organized by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 6-7, October 2007.
2. Second Asian Congress of Mycology and Plant Pathology (Microbial Diversity for Asian Prosperity) organized by Osmania University Hyderabad, India on 19-22, December 2007 (Poster presentation "Botanicals to control *Fusarium oxysporum f.sp. spinaciae* incitant of wilt of spinach (*Spinacea oleracea* L.")).

2008-09

1. Regional Workshop on "Limitations and Scope of revised Syllabus Of B.Sc. II Year Botany" organized by Shivchatrapati College Aurangabad (MS) on 17, Feb. 2009 (Lead lecture - Scope and Limitations of B.Sc. II paper I Biodiversity of Microbes and cryptogams)
2. National workshop on "Techniques in Arbuscular Mycorrhizal (AM) fungal research" organized by Goa University, Goa on 25-27, Feb. 2009.

2009-10

1. Regional workshop on “Revised syllabus of B Sc (Botany) based on semester pattern” organized by Vivekanand College Aurangabad on 10, Sept. 2009.
2. National Seminar on Frontiers in biotechnological aspects of plant sciences, Jan. organized by Chandmal Tarachand Bora College Shirur, Pune, Maharashtra on 9-10, Jan 2010.

2010-11

1. XXXIII Conference of Indian Botanical Society and International Symposium on The New Horizons of Botany, organized by Shivaji University Kplhapur on 10-12 November 2010. (Poster presentation “Diversity of AM fungal association in some medicinal plants of Maharashtra, India”).
2. National conference on Frontiers in Plant Sciences: Diagnosis and Management organized by Shri Madhavrao Patil Mahavidyalaya, Murum (MS) on 17-18 Jan. 2011.
3. National conference on Role of Non-Agricultural Institution in the improvement of Agricultural Technology, organized by Shrikrishna Mahavidaya, Gunjoti on 22-23, Jan. 2011.
4. National Conference on Bhartiya Bhashaon Me Takniki Shabdavali organized by HRD ministry New Delhi on 27-29 April 2011.

2011-12

1. National conference on Mycodiversity with its sustainable Exploration and Biotechnological Applications and 38th Annual meeting of Mycological Society of India organized by Shri Shivaji Science College Amravati on 6-7, Feb. 2012.
2. Econisave Akhil Bhartiya Navodit Marathi Sahitya Sammelan organized by Akhil Bhartiya Maraathi Sahitya Parishad Ani Jayawant Shikshan Prasarak Mandal Pune on 18-20, May 2012.

2013-14

1. National Symposium of IPS (WZ) on Plant Diseases: Diagnostics and Integrated Disease Management For Food Security organized by Department Of Plant Pathology, College of Agriculture, Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani, Maharashtra on 27th and 28st December, 2013.

2014-15

1. National Conference on Life Sciences: An Outlook and Challenges organized by Dahiwadi College Dahiwadi on 12-13th Sept.2014.
2. National Conference on Research Streams in Science - chemistry organized by D. G. Tatkare Mahavidyalaya, Mangaon Dist Raigad (MS) on 3, March 2014.

2015-16

2016-17

1. International conference on Current Trends in Science, Social Science sand Management at Kuala Lumpur, **Malaysia** organized by SNDLS Aurangabad, IDOSI, Dubai & IJSI06-11 Nov. 2016.
2. One Day National conference on Scope in Interdisciplinary Sciences at Baburao Patil College of Arts and Science, Angar. 25 Jan. 2017.

2017-18

1. National Workshop on Role of Marathi Terminology in Science Education organized by Commission for Scientific and Technical Terminology, Department of Higher Education, Ministry of Human Resource Development, Government of India at Guru Nanak College Mumbai. 08 & 09/12/2017.

2. Attended Teacher Training Workshop on Human Microbiology and Biotechnology, Vivekanand Education Society's College of Arts, Genetics organized by Department of Science and Commerce Chembur, Mumbai. 15 to 17/01/2018

2018-19

1. Attended two Days National workshop on La-Tex: A Document preparation system at Department of Electrical engineering, Sanajay Ghodawat Group of Institutes, Atigre, Kolhapur. 15 & 16/03/2019.

2019-20

Research papers presented at conferences:

1996-97

1. Airborne jowar diseases at Omerga read at Annual Conference of Society of Mycology and Plant Pathology Udaipur organized by Dr. Babasahed Ambedkar Marathawada University, Aurangabad on 11-13, January 1997.

2016-17

1. 'Biochemical changes in tomato plant due to Arbuscular Mycorrhizal Fungi and other fungal treatments' presented at International conference on Current Trends in Science, Social Sciences and Management at Kuala Lumpur, Malaysia organized by SNDLS Aurangabad, IDOSI, Dubai & IJSI on 06-11 Nov. 2016.
2. 'Occurrence and vigour growth ofAsian Pigeonwings' presented at National conference on Scope in Interdisciplinary Sciences. Organized by Baburao Patil College of Arts and Science, Angar on 25 Jan. 2017.

2017-18

1. 'Potential of monocotyledonous hosts for mass multiplication of AM fungi' presented at National Conference on Aquatic Biodiversity, Yeshwantrao Chavan Mahavidyalaya Tuljapur (MS) India. 19 & 20/01/2018.

2. 'Impact of AM fungi and Trichoderma herzeanum on chlorophyll and protein content of Ricinus communis' presented at Multidisciplinary International Conference on Innovative Ideas in the fields of Sciences, Social Sciences and Management, JKT University, JWS Girls College Uluhasnagar and Udayana University **Bali Indonesia**.

Orientation Course :01

1. Orientation Course organized by Academic Staff College, Marathawada University, Aurangabad during 12, October 1992 to 07, November 1992.

Refresher Courses: 03

1. Refresher Course in Botany organized by Botany Department, Shivaji University, Kolhapur during 22, June 1994 to 19, July 1994.
2. Refresher Course in Botany organized by Academic Staff College, Dr Babasaheb Ambedkar Marathawada University, Aurangabad during 02, February 1999 to 28, February 1999.
3. Refresher Course in Environmental Science organized by Academic Staff College, Dr Babasaheb Ambedkar Marathawada University, Aurangabad during 05, June 2002 to 26 June 2002.

Completed Major & Minor Research Projects :

Minor Research Project:

1. "Occurrence and Quantification of Arbuscular Mycorrhizal (AM) fungi in the vicinity of solanaceous vegetable crops in Marathwada." funded by UGC, WRO, Pune [**Sanctioned No:F.No.47-1301/09 (WRO) dated 29/01/2010**].

Memberships/Life Membership /Editorial Board:

1. Life member of Indian Aerobiological Society, New Delhi, India.
2. Life Member of the Journal of Mycological Society of India, Patiala
3. Life member of Indian Society of Mycology, Kolkata.
4. Life member of Marathwada Botanical Society Aurangabad.

5. Member of the International Journal of Bioscience Biotechnology
Research communications, Bhopal
6. Member of Mycorrhiza News, New Delhi.

Research Skill Developed in Plant Pathology :

VAM technology, Identification of the plant diseases (Pathogens), Isolation of Pathogens, MIC (Minimum Inhibitory Concentration), Fungicide resistant, Induction of Mutation, Biochemistry, Physiological activities, Synergistic effects, Enzymes and toxins, Bio-Pesticides effects, Biological control (*Trichoderma*), etc.

National Conference Organized: 01

Frontiers of plant sciences for Sustainable Agriculture and Rural Development on 28-29, Jan.2011 at Dept. of Botany, Arts, Science and Commerce College Naldurg. Tal. Tuljapur, Dist. Osmanabad, (M.S), India.

Books:

“Plant Science for Sustainable Agriculture and Rural Development” Daya Publishing House, New Delhi (2012). (ISBN-978-81-7035-784-1).

NSS Programme Officer:

Programme officer of National Service Scheme (NSS) for the period of 1997-2000 in college

Dr. V S Sawant

Head, Botany Department

ASCN