

Curriculum vita

DR. SUSHIL KUMAR SHAHI, M.Sc, Ph.D, FIYSA, FPSI, FSPP, FBSI

Associate Professor & Head

Department of Botany

Guru Ghasidas Vishwavidyalaya, Bilaspur

09479230418 (M), 07752-260472 (O)

sushilkshahi@gmail.com



Name in full:	DR. SUSHIL KUMAR SHAHI
Designation:	Associate Professor of Botany
Nationality:	Indian
Father's Name:	Shri. Ram Shahi
Mother's Name:	Smt. Kamla Shahi
Official Address:	Department of Botany Guru Ghasidas Vishwavidyalaya Campus Koni, Bilaspur- 495009 (CG), India. 09479230418 07752-260472 (O) sushilkshahi@gmail.com
Residential Address:	K-02, TYPE-II, Residential Colony Guru Ghasidas Vishwavidyalaya Campus Koni, Bilaspur- 495009 (CG), India 07752-260472 (office)
Area/ Group of Specialization:	Microbial Technology, Mushroom nutraceuticals, Nano-biotechnology, phyto-medicine, lichen metabolites synthesis, Microbial product research, Bio-energy and quorum sensing.
Patents:	Four on herbal products USA (US6312698) JAPAN (3304029) UK (GB2360705A) INDIA (IN 226628)
Research experience:	19 year-till date
Teaching Experience:	14 year-till date
Publications:	
Awards:	

Academic Qualifications

Year	Degree	University/Institute/College
1993	B.Sc	Chaudhary Charan Singh University, Meerut Formally Meerut University, Meerut
1995	M.Sc	Dr. Ram Manohar Lohia Avadh University, Faizabad formally Awadh University, Faizabad
1998	D.Phil	University of Allahabad, Allahabad thesis entitled ' Antimycotic studies of some plants (control of dermatophytosis in human beings)

Teaching & Research Experience:

Duration	Institute/University/College	Nature of duties
2013 to date	Botany Department, Guru Gasidas Vishwavidyalaya, Bilaspur.	Teaching, Research, Practical and project of UG and PG classes
2007 - 2013	Department of Microbiology, Chaudhary charan Singh University, Meerut.	Teaching, Research, Practical and project of PG and M.Phil classes
2005 - 2007	Department of Microbiology, Janta Vedic College, Baraut.	Teaching, Research, Practical and project of UG and PG classes
2000 - 2004	Department of Botany, Allahabad University, Allahabad.	Research, Teaching , Practical of PG classes.
1997 - 2000	Department of Botany, Allahabad University, Allahabad.	Research.

Research Projects Completed / ongoing/Submitted:

Title of Project	Funding Agency	Duration/ Status
Identification of fungitoxic principle(s) at morphological and cytological levels from some selected macrolichens and their synthesis for commercial viability.	Council of Scientific and Industrial Research, New Delhi, India	3 year 1997-2000
Isolation and Identification of Active Antifungal Principle(s) from some selected Indian Lichens and their Synthesis for commercialization as sustainable herbal chemotherapy against fungal infections.	Department of Science and Technology, New Delhi, India	3 year 2001-2004
Studies on impact of primary and secondary pollutants on crops growing around NTPC, Sipat.	NTPC, Sipat, Bilaspur (CG), India	3 year 2015-2018
Bioactive metabolites(s) synthesis through mycobiont culture of lichens from Chhattisgarh region and their metabolites profiling as potential source for bioprospection.	SERB, Department of Science and Technology, New Delhi, India	3 year 2017-2020

Membership/Fellowship of the Professional Bodies:

Fellow:

1. Indian Botanical Society
2. Indian Phytopathological Society
3. Indian Society of Plant Pathologist
4. International Young Scientist Association
5. Indian Lichenological Society, Lucknow

Life Member:

1. Indian Science Congress Association
2. International Young Scientist Association
3. Indian Botanical Society
4. Indian Phytopathological Society
5. Indian Society of Plant Pathologist
6. Indian Lichenological Society, Lucknow

Developed Techniques

Two techniques for antifungal evaluation of natural chemotherapeutants.

(a) Modified spore germination inhibition technique (MSGIT)

Presented in International Symposium at Boon, Germany (1996). Diagnosis and Identification of Plant Pathogens. Kluwer Academic Publisher 11: 257-263. (Netherlands).

(b) Mathematical Synthesis-2000 (MS-2000).

Presented in National Symposium of Indian Phytopathological Society and awarded **IPS Medal**, Aurangabad (1998).

One technique for microbial cells counting:

(c) Modified Cytometer Technique (MCT).

Presented in International Symposium at Boon, Germany (1996). Diagnosis and Identification of Plant Pathogens. Kluwer Academic Publisher 11: 257-263. (Netherlands).

One technique for determination of minimum killing action of antifungal compounds:

(d) Mycelial Disc Killing Technique (MDKT)

Presented in National Botanical Conference and **awarded IBS Merit Certificate**, Haridwar (1996).

Developed Herbal Products

Product name	Worked against	Status of the product
SKINGUARD	Dermatophytosis (fungal skin infection)	Awarded by CST, 1998
BSAD	Dermatophytosis	Published in Current Science, 1999
SKINPRO	Dermatophytosis	<u>PATENT</u> in USA and pending in India, UK and Japan, 2002
BSHT	Dermatophytosis	Published in Skin Pharmacology and Applied skin Physiology, Germany, 2000
FUNGIGONE	Dermatophytosis	Awarded during National conference at Lucknow, 2002
NAILGUARD	Onchomycosis (fungal nail infection)	Awarded Indian Botanical Society, Meerut, 2000
DENDROCARE	Dandruff (fungal scalp infection)	Awarded by CST, 1998
PROTECTON	Post harvest spoilage in fruits (apple and Grapes)	Awarded by DRDO, 1998
FERTIPESTI	Fertilizer cum pesticide active against soil and seed born disease	Awarded by CST, 1998
PESTOBAN	Herbal pesticide for post harvested food grains	Awarded by CST, 1998
STOREDALL	Herbal pesticide for post harvested food grains	Accepted for the presented in 7 th International congress of plant pathology, Edunburg, UK, 1998
EUCALEON	Dermatophytoses (fungal disease)	Awarded by Mycological Society of India, Gorakhpur, 2001
SEB-2002	Post harvest spoilage in fruits	Published in <u>BIOCONTROL</u> Journal, Netherlands, 2002
CANDIN-PRO	Candidiasis	Awarded by DAM (Biotechnology) Allahabad, 2010

Patents

- [1] **Shahi SK**, Shukla AC, Dikshit A, Bajaj AK, Singh AK, Kumar S (2001) Antifungal formulation active against a broad spectrum of dermatophytoses. US6312698 (USA)
- [2] **Shahi SK**, Shukla AC, Dikshit A, Bajaj AK, Singh AK, Kumar S (2001) New antifungal composition active on dermatophytoses of broad spectrum. 3304029 (Japan).
- [3] **Shahi SK**, Shukla AC, Dikshit A, Bajaj AK, Singh AK, Kumar S (2001) Antifungal formulation. GB2360705A (UK)
- [4] **Shahi SK**, Shukla AC, Dikshit A, Bajaj AK, Singh AK, Kumar S (2009) Antifungal formulation. IN 226628 (India)

List of Publications

Paper published in International Journal

- [1] **Shahi SK**, Shukla AC, Dikshit S and Dikshit A (1997) Modified spore germination inhibition technique for evaluation of candidate fungitoxicants (*Eucalyptus spp.*). *Diagnosis and Identification of Plant Pathogens*. Kluwer Academic Publisher. 257-263.
- [2] **Shahi SK**, Shukla AC, Bajaj AK, Midgely G, Benerjee U, Rimek D and Dikshit A (2000) Broad spectrum Herbal therapy against superficial fungal infections. *Skin Pharmacology and Applied Skin Physiology*. 13: 60-64.
- [3] **Shahi SK**, Shukla AC, Dikshit A and Uperti DK (2001) Broad spectrum antifungal properties of the lichen, *Heterodermia leuocomela*. *Lichenologist*, 33(2): 177-179.
- [4] Patra M, **Shahi SK**, Midgely G and Dikshit A (2002) Utilization of essential oil as natural antifungal against nail infective fungi. *Flavor and Fragrance Journal*, 17: 91-94.
- [5] Pandey KP, **Shahi SK**, Dutta S, Singh R and Dikshit A (2002) Antifungal efficacy of *Taxodium* and *Mentha* oils against some human pathogenic fungi. *Flavour and Fragrance Journal*. 17: 443-444.
- [6] Shukla AC, **Shahi SK**, Tewari DS and Dikshit A (2002) Control of fusarial wilt diseases of pigeonpea by *Trachyspermum ammi*. *Tropical Agriculture* 79: 88-93.
- [7] Shukla AC, **Shahi SK**, Dikshit A and Saksena VC (2002) Plant product as a fumigant for the management of stored product pests. *Int. Conf. on Controlled Atmosphere and Fumigation in Stored Products*. 125-132.
- [8] **Shahi SK**, Patra M, Shukla AC and Dikshit A (2003) Use of essential oil as biopesticide against post harvest spoilage in fruits, *Malus pumilo*. *Bio-Control* 48: 223-232.
- [9] **Shahi SK**, Patra M, Dikshit A and Upreti DK (2003) *Parmelia cirrhatum*: a potential source of broad spectrum natural antifungal. *Phytotherapy Research* 17: 399-400.
- [10] **Shahi SK** and Patra M (2003). Microbially synthesized bioactive nanoparticle and their formulation active against human pathogenic fungi. *Review of Advance Material Science* 5: 34-40.
- [11] **Shahi, SK** and Shahi MP (2006) Broad Spectrum Herbal Therapy against Superficial Fungal Infections. 1st International Conference on Natural Resources Engineering & Technology, 45-53.
- [12] **Shahi SK** and Shahi MP (2011) Assessment of broad spectrum control potential of *Eucalyptus citriodora* oil against post harvest spoilage of *Malus pumilo* L. *Journal of Stored Product and Post harvest Research*, 2(8): 170-175.
- [13] Soam A, Singh AK, Singh R, Kumar K, **Shahi SK** (2011) Antimicrobial activity of *Psidium guajava* l. Leaf extract against multi-drug resistant microbes. *International Journal of Universal Pharmacy and Life Sciences* 1(3): 66-73.
- [14] **Shahi SK**, Sharma PK, Kumar S and Sharma PK (2012) Evaluation of antifungal activity of the extracts of wild fruiting bodies and cultured Basidiomycete macrofungi- *Pleurotus sapidus* and *Pleurotus flabellatus* on several azole-resistant *Candida* spp. *International Journal of Microbial Resource Technology*, 1(1), 5-10.

- [15] Shahi MP, **Shahi SK**, Dikshit A and Upreti DK (2012) Broad spectrum antifungal activity of Indian lichen *Peltigera praetextata* extracts to control fungal. Current Discovery (International Journal of current discoveries and innovations) 1(1): 1-6.
- [16] Singh AK, Singh R, Soam A and **Shahi SK** (2012) Degradation of textile dye orange 3R by *Aspergillus* strain (MMF3) and their culture optimization. Current Discovery (International Journal of current discoveries and innovations) 1(1): 7-12.
- [17] Shukla AC, Yadav RS, **Shahi SK** and Dikshit A (2012) Plant secondary metabolites as an effective source for the management of post harvesting fungal pests: A Review. Current Discovery (International Journal of current discoveries and innovations) 1(1): 33-45.
- [18] **Shahi SK**, Shahi MP and Prakash D (2012) Use of Cumin oil as herbal pesticide for enhancing shelf life of apples by protecting from post harvest spoilage pathogens. Current Discovery (International Journal of current discoveries and innovations) 1(1): 19-26.
- [19] Singh R, Singh AK, Soam A and **Shahi SK** (2013) Antifungal screening of various spice extracts on azole resistant strains of *Candida*. Current Discovery (International Journal of current discoveries and innovations) 2(1): 46-51.
- [20] **Shahi SK** and Shahi MP (2013) Pesticidal activity of *Ginger* oil against post harvest spoilage in *Malus pumilo* L. Journal of Natural Products 6: 67-72.
- [21] Pal GK, Kumar B and **Shahi SK** (2013) Antifungal activity of some common weed extracts against seed borne phytopathogenic fungi *Alternaria* spp. International Journal of Universal Pharmacy and Life Sciences 3(2): 6-14.
- [22] Prakash D, **Shahi SK**, Shahi MP and Ali Zahid (2013) Antibiotic resistance, sensitivity profiling and detection of ESBL producers in urinary tract pathogens isolated from urine samples of UTI patients in Meerut (India). International Journal of Universal Pharmacy and Life Sciences 3(3): 88-101.
- [23] Javeria S, Shahi **SK**, **Shahi MP**, Yadava YK. (2014) Isolation of Lichen Forming Fungus of *Everniastrum cirrhatum* and Evaluate its Antagonistic and Antimicrobial Activity, *American Journal of Ethnomedicine*, 1(5), 361-367
- [24] Kumar P, Shahi SK and Sharma PK (2014) Isolation of lipid producing *Spirulina starin* WS-41 and effect of various cultural factors on their lipid accumulation. Discovery Science. 9(21) 41-49.
- [25] **Shahi SK**, Shahi MP and Prakash D (2015) *Syzygium aromaticum*: potent antidandruff agent with thermo-tolerance, quick killing action and long shelf life. Indo American Journal of Pharm Research : 5(02).
- [26] Sharma PK, **Shahi SK**, Sharma PK Kumar M, Lawaniya R and Balhara M,(2015) Antimicrobial potential of *Ganoderma* spp. Fruiting bodies and cultured mycelium, African Journal of Microbiology Research. 9(5) 265-274, 2015.
- [27] Irfan M, **Shahi SK**, Sharma PK. (2015) In vitro synergistic effect of biosurfactant produced by *Bacillus subtilis* MTCC 441 against drug resistant *Staphylococcus aureus* J App Pharm Sci. 2015; 5(3): 113-116.
- [28] Agrawal N, Shahi SK (2016). Ligninolytic activity of white rot fungi from GGv campus as bioremediation of organic pollutants. *Cryptogam Biodiversity and Assessment* 1(2) doi:10.21756/cab.v1i2.6894.

- [29] Agrawal N, Shahi SK (2017). Degradation of polycyclic aromatic hydrocarbon (pyrene) using novel fungal strain *Corioloropsisbyrsina* strain APC5. *International Biodeterioration & Biodegradation* **122**: 69-81.
- 30] Agrawal N, Verma P, Singh RS, Shahi SK (2017). *Ganoderma lucidum*: A potent source of Ligninolytic enzyme production. *International Journal of Advanced Research* **5**(5): 1977-1981.
- [31] Agrawal N, Verma P, Singh RS, Shahi SK (2017). Ligninolytic enzyme production by white rot fungi *Podoscyphaelegans* strain FTG4. *International Journal of Current Microbiology and Applied Sciences* **6**(5): 2757-2764.
- [32] Verma P and Shahi SK (2015). Characterization of plant growth promoting rhizobacteria associated with potato rhizosphere. *International Journal of Advanced Research* **3**(6): 564-572.
- [33] Singh RS & Shahi SK, (2017). Diversity of medicinal plants of Ratapur region of Bilaspur district (Chhattisgarh). *Journal of medicinal plants studies*, **5**(2), 276-281.
- [34] Singh RS, Shahi SK, Kanwar LD, Soni DK & Yadaw RK (2017). Ethnomedicinal plants diversity of Belgahna region, Bilaspur district (Chhattisgarh). *International journal of Botany studies*, **2**(5), 01-05.

Papers published in National Journal

- [1] Shukla AC, **Shahi SK** and Dikshit A (1999) *Eucalyptus pauciflora*: a potential source of sustainable ecofriendly storage pesticide. *Biotechnology of Microbes and Sustainable Utilization*, Scientific Publishers. RC Rajak (ed) 94-107.
- [2] **Shahi SK**, Shukla AC, Bajaj AK, Midgely G and Dikshit A (1999) Broad spectrum antimycotic drug for the control of fungal infections in human beings. *Current Science*. **74**, 836-839.
- [3] **Shahi SK**, Shukla AC and Dikshit A (1999) Antifungal studies of some essential oils at various pH levels for betterment of antifungal drug response. *Current Science*. **77**, 703-706.
- [4] Singh R, Mishra RC, **Shahi SK**, Shukla AC and Dikshit A (1999) Insect repellent activity of *Asfostida* to prevent yellow vein mosaic virus in okra crop. *Plant Protection Bulletin*. **51** (3+4) 35-37.
- [5] Mishra RC, Singh R, **Shahi SK**, Singh HB and Dikshit A (2000) Biological management of patchouli (*Pogostemon cablin*) wilt caused by *Rhizoctonia solani*. *Current Science*. **78**: 230-232.
- [6] Shukla AC, **Shahi SK** and Dikshit A (2000) Epicarp of *Citrus sinensis*- a potential source of herbal pesticide. *Indian Phytopathology*. **53**(4): 468-471.
- [7] **Shahi SK**, Shukla, AC, Upreti DK and Dikshit A (2000). Use of lichens as antifungal drugs against superficial fungal infections. *National Seminar on the Frontiers of Research and development in Medicinal Plants*. Kumar et al (eds): 22/4A, 23/1A: 169-172.
- [8] **Shahi SK**, Patra M, Shukla AC and Dikshit A (2001). Botanical drug for therapy against fungal infection in human beings. *National Academy Science Letters* **24**: 73-78.
- [9] **Shahi SK**, Shukla AC and Dikshit A (2002) *Eucalyptus pauciflora*: A potential source of eco-friendly pesticide the PROTECTON. *Plant Biotechnology for Sustainable Hill Agriculture*. Defense Agriculture Research Laboratory, Pithoragrah. Kumar et al (eds): 149-152.

- [10] Patra M, **Shahi SK**, and Dikshit A (2003) Utilization of pericarp of *Citrus sinensis* oil for the development of natural antifungal against nail infection. *Current Science*, 84: 1512-1515.
- [11] **Shahi SK**, Patra M, Dikshit A and Upreti DK (2003) Botanical antifungal drug fight fungal infections. *National intertective meet on Medicinal and Aromatic Plants, Scope and Opportunities in Research and Business of Medicinal and Aromatic Plants*. Mathur et al (eds) 302-307.
- [12] Dikshit A, **Shahi SK**, Pandey KP, Patra M and Shukla AC (2004) Aromatic plants- a source of natural chemo-therapeutants. *National Academy Science Letters*, 27: 145-164.
- [13] Roa GN, Roa SJ, Ananthanarayanan K, **Shahi SK**, Patra M, Shukla AC and Dikshit A (2005) Antifungal activity of some chemicals against human pathogenic fungi (Dermatophytes). *Proceedings of the National Academy of Science. Section B, Biological Sciences*, 75(4): 288-293.
- [14] Shahi, MP, **Shahi SK**, Kumar, M and Chaudhary S (2007) Evaluation of clove oil for the development of natural antifungal against onychomycosis. *Plant Archives*, 7 (2) 327-331.
- [15] **Shahi SK**, Shahi MP, Chaudhary S and Kumar M (2007) Broad spectrum herbal antifungal compound for the cure of human dermatophytosis. *Plant Archives*, 07 (2) 332-334.
- [16] Kumar M, **Shahi SK**, Shahi MP and Chaudhary S (2007) Myco-parasitism of *Trichoderma harzianum* against *Fusarium oxysporum* and *Aspergillus niger* in vitro. *Plant Archives*, 07 (2) 321-323.
- [17] Kumar M, **Shahi SK**, Shahi MP and Chaudhary S (2007) Standardization of different substrate for the mass production of conidial yield of entamopathogenic fungus, *Metarhizium anisopliae*. *Plant Archives*, 07 (2) 324-326.
- [18] **Shahi, SK** and Shahi MP (2009) Biological Synthesis of bioactive nanoparticles: A future molecules for fungal cure. *National Seminar on Nano Science and Technology*. Singh et al (eds) 67-76.
- [19] Kumar J, Ali D, **Shahi SK** and Shahi MP (2011) Antifungal activity of the essential oil of *Eucalyptus laveopinea* against skin infective fungi. *Advance in Plant Sciences*, 24 (II) 667-668.
- [20] **Shahi SK**, Shahi MP and Upreti DK (2011) Utilization of lichen metabolites as natural antifungal drug against dermatophytosis. *Journal of Pharmaceutical Research and Opinion*, 1 (1) 34-36.
- [21] **Shahi SK**, Shahi MP Shukla AC and Dikshit A (2013) Essential oil therapy: broad spectrum treatment against superficial fungal infections. *Science and Technology Journal*, 1(1): 45-49.

Paper presented and published in conferences/symposia/seminar/workshop proceedings:

- [1] **Shahi SK**, Shukla AC and Pandey MC (1996) *In vitro* and *in vivo* studies of *Trachyspermum ammi* against human pathogenic fungi. *Proc. Nineteenth All India Botanical Conference*. Haridwar (abs): 75.
- [2] **Shahi SK**, Shukla AC, Bajaj AK and Dikshit A (1997) *Cymbopogon flexuosus* vis-a-vis dermatophytoses in human beings. *Proc. Eighty Forth Indian Science Congress*. New Delhi (abs): 68.
- [3] **Shahi SK**, Shukla AC and Dikshit A (1997) Increased toxicity of the essential oil of some *Eucalyptus Spp.* at different pH levels. *Proc. Seminar on herbal and pesticide*. Varanasi (abs): 3.
- [4] Shukla AC, **Shahi SK** and Dikshit A (1997) Fungicidal toxicity of the essential oil of *Cymbopogon flexuosus* against some storage fungi. *Proc. 49th Annual meeting of IPS and National Symposium*. Jabalpur (abs): 20.

- [5] Shukla AC, **Shahi SK** and Dikshit A (1997) Efficacy and potentiality of *Eucalyptus citriodora* as a biopesticide. *Proc. TCDC International Workshop on application of biotechnology in biofertilizer and biopesticide*, New Dehli (abs): 81.
- [6] Shukla AC, **Shahi SK**, Upreti DK and Dikshit A (1997) In vitro studies of some macrolichen extracts on the growth of storage fungal pests. *Proc. National Symposium on Biodiversity, Conservation and Evolution of Plants*. Allahabad (abs): 34.
- [7] **Shahi SK**, Shukla AC and Dikshit A (1997) Epicarp of *Citrus sinensis* vis-a-vis dermatophyte. *Proc. National Symposium on Biodiversity, Conservation and Evolution of Plants*. Allahabad (abs): 57.
- [8] Pandey MC, **Shahi SK**, Shukla AC and Dikshit A (1997) Antidermatophytic bioassay of *Cymbopogon pendulus* oil at different pH levels. *Proc. National Symposium on Biodiversity, Conservation and Evolution of Plants*. Allahabad (abs): 78.
- [9] **Shahi SK**, Shukla AC, Upreti D and Dikshit A (1997) Macrolichens: alternative source of synthetic antimycotic drugs. *Proc. Twentieth All Indian Botanical Conference*. Mysore (abs): 36.
- [10] **Shahi SK** and Shukla AC (1998) MS-97: express method for the evaluation of natural fungitoxicants (*Trachyspermum ammi*). *Proc. 50th annual Meeting and National Symposium on Present Scenario in Disease of oil seeds and pulses, Indian Phytopathological Society*. Aurangabad (abs): 39.
- [11] **Shahi SK**, Shukla AC and Dikshit A (1998) Protectall: a ecofriendly biopesticide from *Eucalyptus* plants. *Proc. National Symposium on Agricultural Scenario and emerging Issues For 21st Century*. Allahabad (abs): 27.
- [12] Mishra RC, Singh R, **Shahi SK**, Shukla AC and Dikshit A (1998) Use of *Trichoderma harzianum* as biopesticide. *Proc. National symposium on plant diversity pattern and Bio-resources Technology*. Gorakhpur (abs): 37.
- [13] **Shahi SK**, Shukla AC, Mishra R, Singh R and Dikshit A (1998) Broad spectrum antimycotic drugs for the cure of fungal infection in human beings. *Proc. National symposium on plant diversity pattern and Bioresources technology*. Gorakhpur (abs): 38.
- [14] **Shahi SK**, Shukla AC and Dikshit A (1998) *Eucalyptus pauciflora*: A potential source of eco-friendly pesticide the PROTECTON. *Proc. of National Seminar on Plant Biotechnology for Sustainable Hill Agriculture*, Defense Research and Development Organization, Pithoragarh (abs): 63.
- [15] Shukla AC, **Shahi SK** and Dikshit A (1998) *Citrus medica*: a potential source of herbal pesticides. *Proc. Int. Symposium on Environmental Management in Mountainous Region*. Rishikesh (abs): 82.
- [16] Mishra R, Singh R, **Shahi SK**, Shukla AC and Dikshit A (1998) Impact of AM bio-fertilizer on agricultural produce of Patcholi. *Proc. Int. Symposium on Environmental Management in Mountainous Region*. Rishikesh (abs): 87.
- [17] **Shahi SK**, Shukla AC, Upreti DK and Dikshit A (1998) In vitro studies of some macrolichens extracts against human pathogenic fungi. *Proc. Int. Symposium on Environmental Management in Mountainous Region*. Rishikesh (abs): 98.
- [18] Shukla, AC, **Shahi, SK** and Dikshit, AC (1998) *Citrus medica*: A potential source of an ecofriendly storage pesticides. *Proc IFCON 98 4th International Food Convention*, Mysore (abs): 78.

- [19] **Shahi SK** (1999) Dermalguard: herbal remedy for the control of dermatophytoses in human beings. *84th Indian Science Congress, Chennai* (abs): 16.
- [20] **Shahi SK**, Shukla AC and Dikshit A (1999) Powdery mildew pathogens considered as obligate parasite: a biological puzzler. *Proc. Int. Conf. on Frontiers in fungal Biotechnology and Plant Pathogen relations*, Hyderabad (abs): 8.
- [21] Shukla AC and **Shahi SK** (1999) Control of storage pests with biopesticide : progress and prospects. *Proc. Int. Conf. on Frontiers in fungal Biotechnology and Plant Pathogen relations*, Hyderabad (abs): 56.
- [22] **Shahi SK**, Shukla AC and Dikshit A (1999) Culture of obligate parasite *Erysiphe cichoracearum* D.C in synthetic medium and their use as bio control agent. *Proc Int. Sym. on Tropical Mycology*, Chennai (abs): 68.
- [23] **Shahi SK**, Shukla AC, Bajaj AK and Dikshit A (1999) Antimicrobial activity of the essential oil of *Eucalyptus* sp. with broad spectrum . *Proc. National Conf on Plant Biotechnology: Towards Strategic Agriculture and drug development*. Lucknow (abs): 78.
- [24] **Shahi SK**, Shukla AC, Upreti DK and Dikshit A (2000) Use of lichens as antifungal drugs against superficial fungal infections. *Proc. National Seminar on the Frontiers of Research and development in Medicinal Plants*. Lucknow (abs): 30.
- [25] Patra M and **Shahi SK** (2000) Utilization of essential oil as natural antifungal against nail infective fungi. *Proc. 23rd All India Botanical Conference*, Meerut (abs): 53.
- [26] **Shahi SK**, Shukla AC, Singh R, Mishra RC, Pandey KP, Patra M, Dutta S, Bajaj AK and Dikshit A (2000) Broad spectrum antifungal therapy against dermatophytosis. *Proc. 70th Annual Session of the National Academy of Sciences*, Allahabad (abs): 49.
- [27] **Shahi SK**, Patra M, Shukla AC and Dikshit A (2001) Mixed crop storing: ideal technology for integrated food product protection. *Proc. National Symposium on Eco-Friendly Approaches for Plant Disease Management*. Chennai, India (abs): 21.
- [28] **Shahi SK**, Shukla AC, Singh R, Mishra RC, Pandey KP, Patra M, Dutta S, Bajaj AK and Dikshit A (2001). Botanical antifungal therapy against fungal infection in human beings. *Proc. 27th Annual Meeting of Mycological Society of India*, Gorakhpur (abs): 91.
- [29] **Shahi SK**, Patra M, Shukla AC, Dikshit A, Bajaj AK and Upreti DK (2001) Utilization of lichen metabolites as natural antifungal drug against dermatophytoses. *Proc. 71st Annual session of National Academy of Science*, Pune (abs): 4.
- [30] **Shahi SK**, Patra M, Dikshit A and Upreti DK (2002) Utilization of lichen as natural antifungal drug against superficial fungal infection in humans. *Proc. 89th Session of Indian Science Congress Association*, Lucknow (abs): 84.
- [31] **Shahi SK**, Patra M, Dikshit A and Upreti DK (2002) Botanical antifungal drug fight fungal infections. *Proc. National Seminar on the Scope and Opportunities in Research and Business of Medicinal and Aromatic Plants*. Lucknow (abs): 302.
- [32] **Shahi SK** and Patra M (2002). Microbially synthesized bioactive nanoparticle active against pathogenic fungi. *Proc. National Symposium on Nanostructured Materials*, New Delhi (abs): 93.

- [33] **Shahi SK**, Patra M, and Dikshit A (2003) Broad-spectrum botanical pesticide fight post harvest spoilage in fruits, *Malus pumilo*. *Proc. National Symposium on Plant Biotechnology: Role in sustainable Development*. Jaipur (abs): 25.
- [34] **Shahi SK** and Shahi MP (2006) Broad spectrum antifungal treatment for the cure of human dermatophytoses. *Proc. National Conference on Medicinal and Aromatic plants: Global perspective*. Baraut (abs): 170.
- [35] Shahi, MP and **Shahi SK** (2006) Natural antifungal against nail infective fungi. *Proc. National Conference on Medicinal and Aromatic plants: Global perspective*. Baraut (abs): 157.
- [36] **Shahi SK**, Patra M, and J Mohan (2006) Broad spectrum herbal therapy against superficial fungal infections. *Proc. National Symposium on Biotechnology in Genomic Era: Industrial Priorities*, Greater Noida (abs): 19.
- [37] **Shahi SK** and Shahi, MP (2006) Antifungal evaluation of clove oil for the development of natural antifungal against fungal nail infection. *Proc. International Seminar on Forest, Forest Products and Services: Research, Development and Challenges Ahead*, Srinagar (abs): 57.
- [38] **Shahi SK**, Shahi MP and Upreti, DK Antifungal activities of Great Himalayan National Park Lichens against human pathogenic fungi. *Proc. International Seminar on Forest, Forest Products and Services: Research, Development and Challenges Ahead*, Srinagar (abs): 58.
- [39] **Shahi SK**, Baliyan A and Sharma PK (2008) Antibacterial activity of *Punica granatum* epicarp extracts against pathogenic bacteria. *Proc. International Symposium on Plant Biology and Environment: changing Scenario*, Allahabad, India.
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- [71] Sahrawat A and **Shahi SK** (2013) Antibacterial potentiality of *Daucus carota* extracts against multi drug resistant microbes. 1st International conference on new horizons in pharmaceutical and biomedical sciences, Dehradun (abs): 63.
- [72] Shahi MP and **Shahi SK** (2013) Production of polyhydroxybutyrate (biopolymer) by *Bacillus* species isolated from municipal waste. 1st International conference on new horizons in pharmaceutical and biomedical sciences, Dehradun (abs): 121.
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- [75] Javeria S, Rawat M and **Shahi SK** (2013) Isolation, cultivation and antimicrobial activity of lichen forming fungus of *Parmotrema nilgherrense*. 1st International conference on new horizons in pharmaceutical and biomedical sciences, Dehradun (abs): 189.
- [76] Sahrawat A, Pal S and **Shahi SK** (2013) Antibacterial activities of *Sapindus mukorossi* L extract against pathogenic bacteria, *Shigella flexneri*. 1st International conference on new horizons in pharmaceutical and biomedical sciences, Dehradun (abs): 286.

Training Courses, Teaching-Learning-Evaluation Technology, Faculty Development Programmes

Duration	Programs
Apr 21- Apr 24, 1999	Eastern Zonal Workshop on Scanning Electron Microscopy, University of Burdwan, Gopalbag, Burdwan.
Jan 11- Jan 12, 2003	International Workshop on Nanotechnology and Health Care, Department of Biotechnology, SASTRA, Tanjavur.
Dec 11- Dec 15, 2006	Biotechnology for proteinous food, cattle feed and bio-fertilizer production, New Delhi, Indian Institute of Technology, New Delhi.
Jan 30- Feb 05, 2011	US-India Research training on intracellular pathogens, Jawaharlal Nehru University, New Delhi.
Mar 07- Mar 12, 2011	National WORKSHOP On Techniques for in vitro Pharming, isolation and characterization of secondary metabolites for sustenance of medicinal plants, Meerut.

Academic distinctions, awards received

Month & Year	Work awarded	Giving agency
Dec. Yr. 1996	IBS awards for best research work in the field of medical mycology	Indian Botanical Society, Haridwar
Jan. Yr. 1998	Active participation and formulation of herbal antimicrobial agents	Council of Science and Technology, Lucknow
Feb. Yr. 1998	IPS medal awarded for best research work in the field of mycology, developed new mathematical basis technique (MS-97) for antifungal evaluation	Indian Phytopathological Society, Aurangabad
May. Yr. 1998	First prize for best research work in the field of market pathology, formulation of pesticide 'Protecton' from the plant for the control of post harvest disease	Defense Research and Development Organization, Pithoragarh
Mar. Yr. 1999	Best paper award for the formulation of antifungal drug	CIMAP, Lucknow

Sep. Yr. 2000	Best paper award for the formulation of antifungal drug	Council of Scientific and Industrial Research, New Delhi
Oct. Yr. 2000	Best paper award for the formulation of antifungal drug	Indian Botanical Society, Meerut
Jan. Yr. 2001	ISCA young scientist award for best research in herbal biotechnology	Indian Science Congress Association, Kolkata
Feb. Yr. 2001	Best paper award for the formulation of antifungal drug against dermatophytosis	Mycological Society of India, Gorakhpur
May. Yr. 2002	Best poster paper presentation award for antifungal drug from lichen	National Interactive Meet 2002, Lucknow
Nov. Yr. 2008	Best poster presentation award for research on Algal Biofuel	National Symposium on Biotechnology: Vision 2020, Meerut
Oct. Yr 2009	Best poster paper presentation award for mixed crop storing technology	International Conference on current trends in Biotechnology and Implications in Agriculture, Meerut
Feb. Yr 2010	Best poster paper presentation award for antifungal drug against vaginal candidiasis	National Conference on Bio prospecting: Access for sustainable development, Allahabad
Dec Yr. 2010	Best poster paper presentation award for the development of antifungal drug against onychomycosis	National Conf. on Traditional conservation of plant Biodiversity and Energy Resource vis-avis Biotechnology Tools for sustainability, Meerut

Opportunities Received

Month & Year	Received	Giving agency
Apr. Yr. 2000	Research Interview published Title: Eucalyptus Oil may be Effective Fungal Therapy.	DERMATOLOGY TIMES (leading newsmagazine for dermatologists, USA.
Dec. Yr. 2000	Biography published	18th edition of WHO'S WHO IN THE WORLD, USA Publication
Aug. Yr. 2001	Research Interview published Title: Eucalyptus leaves fungi reeling	NEWS INDIA (leading newsmagazine of India associated with NATURE Journal)
Feb. Yr. 2002	Selected for a Lecture on 'Herbal health Education: make green India in this millennium	Indian Science Congress Association
Mar. Yr. 2002	Selection for IMC7 Travel Grant by International Mycological Association for giving a lecture on herbal product during 7th International Mycological Congress in Oslo, Norway	International Mycological Association

Sep. Yr. 2003	Research Interview published Title: Plant based pesticide fights fungus that causes rotten apples	NEWS INDIA (leading newsmagazine of India associated with NATURE Journal)
Mar. Yr. 2010	Selection for IMC9 Travel Grant by International Mycological Association, International Mycological Congress in Edinburg, Scotland.	International Mycological Association

Referee of International Journals

1. Flavour and Fragrance, UK.
2. Biological Agriculture and Horticulture, UK.
3. Journal of Biotechnology and Biomedicine, PR China.
4. African Journal of Microbiology Research. South Africa.
5. Medical Mycology, USA.
6. World Journal of Biotechnology,
7. Mycoses, Germany

M.Sc, M.Phil & Ph.D Thesis Guided

M.Sc Thesis

Year	Title of the thesis
2008	Effect of soil and rhizosphere passages on plant growth promoting (PGP) activities of <i>Azotobacter</i> spp
2008	Isolation of dental pathogens from patients and their inhibition through plant metabolites
2009	Effect of Chloride and sulphate salts of calcium on plant growth promoting activities and exopolysaccharide production by <i>Azotobacter</i> spp
2009	Isolation and screening of thermophilic-alkaline proteases producing bacteria for leather industry, its production and characterization.
2009	Comparative antimicrobial activity of meropenem and meropenam + sulbectum against different microorganism.
2009	Isolation and screening of thermophilic-alkaline a amylases producing bacteria for leather industry, its production and characterization.
2012	Isolation and screening of textile dyes degrading microbes and optimization of culture conditions for better degradation
2012	Antifungal evaluation of plant essential oils against nail infective fungi

2012	Study on plant metabolites used as bio-pesticide against crown rot pathogens isolated from <i>Musa paradisiaca</i> L
2012	Antifungal screening of some common weed extracts against dominant plant pathogenic fungi
2012	Isolation and optimization of culture conditions for bio-polymer producing bacteria from environmental samples
2012	Antidandruff evaluation of plant metabolites and effect of various factors on their antidandruff activity

M.Phil Thesis

Year	Title o the thesis
2008	Study on various factors affecting the growth of white rot fungi for betterment of bioremediation process.
2008	Study on <i>Pleurotus sajar caju</i> for bioremediation of diesel contaminated soil by phytotoxic monitoring and various factor affecting their growth.
2008	Study on Antibacterial Screening of Some Plants Extracts against causing Pathogens.
2008	Study on biological control of <i>Fusarial</i> wilt by <i>Trichoderma spp</i> and various factors affecting their growth.
2008	Study on antibacterial screening of some plant metabolites against multi drug resistant <i>Staphylococcus aureus</i> .
2009	Study on susceptibility of some clinical isolates of UTI to herbal extracts.
2009	Study on enhancement of antibiotic susceptibility and suppression of multi-drug resistant <i>S. aureus</i> by biosurfactant.
2009	Study on antifungal screening of mushroom metabolites on azole resistant strains of <i>Candida</i> .
2009	Study on cultivation of lichen forming fungi for synthesis of bioactive metabolites and their antimicrobial screening.
2010	Study on mycelial cultivation of <i>Ganoderma</i> fungi for <i>in vitro</i> synthesis of bioactive metabolites and their antimicrobial screening.
2010	Study of virulence factors in <i>Candida</i> species and antimicrobial activity of plant extracts.
2010	Isolation of lipids producing Cyanobacteria and extraction of lipids for biofuel production.
2011	Isolation of polythene degrading microbes from municipal solid waste and their characterization.
2011	Isolation of PHB producing microbes from municipal solid waste and their characterization.
2012	Isolation and optimization of culture conditions for poly- β -hydroxy butrate (bio-polymer) producing bacteria.

2012 Production of bio-surfactant from isolated strain and their role in enhancement of antibiotic activity against drug resistant microbes.

2012 Antiquorum sensing activity of some medicinal plants by the use of reporter strains.

Ph.D. Thesis

Year	Title o the thesis
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2014 Evaluation of potent PGPR from different Rhizosphere soil and their formulation as biofertilizer.

2014 Degradation of organic pollutants (PAHs) by white rot fungi and their molecular characterization

2014 Studies on the floristic diversity of Bilaspur district (Chhattisgarh)

2015 Mycogenic synthesis and characterization of organic metal nanoparticles as potential pharmaceutical agents.

2015 Triglycerol profiling of microalgae from Chhattisgarh as potential biofuel feed stock.

2015 Studies of micropropagation of some RET orchids of Chhattisgarh.

2015 Metabolic profiling of lichens from achanakmar- amarkantak biosphere reserve as potential source for bioprospection

Seminar/ Symposia/ Conference attended

Duration	Title of Seminar/ Symposia/ Conference
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Dec. 26-28 Yr. 1996: 19th Annual conference of Indian Botanical Society, Haridwar.

Feb. 15-17 Yr. 1997: National symposium and 49th Annual meeting of Indian Phytopathological Society, Jabalpur.

Nov. 27-29 Yr. 1997: National Symposium on Biodiversity, Conservation and Evolution of Plants, Allahabad.

Feb. 17-19 Yr. 1998: National Conference and 50th Annual Meeting of Indian Phytopathological Society, Aurangabad.

Feb. 21-22 Yr. 1998: National Symposium on Agricultural Scenario and Emerging Issues for 21st Century, Allahabad.

Mar. 25-26 Yr. 1998 National Symposium on Plant Diversity patterns and Bio-resources Technology, Gorakhpur.

May. 06-08 Yr. 1998 National Seminar on Plant Biotechnology for Sustainable Hill Agriculture, Pithoragarh.

Oct. 04-07 Yr. 1998 Mountain Meet 98: International Symposium on Environmental Management in Mountainous Regions, Reshikesh.

Oct. 23-25 Yr. 1998 National Seminar organized by International Society for Conservation of Natural Resources, Shillong.

Jan. 03-07 Yr. 1999	86 th Session of Indian Science Congress, Chennai.
Jan. 16-18 Yr. 1999	International Conference on Frontiers in Fungal Biotechnology and Plant Pathogens Relations, Hyderabad.
Jan 20-22 Yr. 1999	International Conference on Tropical Mycology, Indian Mycological Society, Chennai.
Mar 15-17 Yr. 1999	National Conference on Plant Biotechnology: towards Strategic Agricultural and Drug Development, Lucknow.
Jul 30-31 Yr. 1999	National seminar on research and development in aromatic plants: current trends in biology, production and marketing, uses of essential oils, Lucknow.
Nov 05-05 Yr. 1999	National Roving Seminar on Patenting in Biotechnology, Lucknow.
Jan 03-07 Yr. 2000	87 th Session of Indian Science Congress, Pune.
Sep 16-18 Yr. 2000	National Symposium on the Frontiers of Research and Development in Medicinal Plants, Lucknow.
Oct 14-16 Yr. 2000	23 rd Annual conference of Indian Botanical Society, Merrut.
Jan 03-07 Yr. 2001	88 th Session of Indian Science Congress, New Delhi.
Jan 22-24 Yr. 2001	National symposium and 53 rd Annual Meeting of Indian Phytopathological Society and National symposium and 12 th Annual Meeting of Indian Society of Plant Pathologists, Chennai.
Feb 09-11 Yr. 2001	International Symposium and 27 th annual meeting of Mycological Society of India, Gorakhpur.
Oct 05-07 Yr. 2001	National Symposium and 71 st Annual Session of National Academy of Science, Pune.
Jan 03-07 Yr. 2002	89 th Session of Indian Science Congress, Lucknow.
May 17-18 Yr. 2002	National Interactive Meet on Scope and Opportunities in Research and Business of Medicinal and Aromatic plants, Lucknow.
Dec 05-06 Yr. 2002	National Symposium on Nano-structured Materials, New Delhi.
Feb 17-19 Yr. 2003	National Symposium on Plant Biotechnology: Role in Sustainable Development and 25 th meeting of Indian Plant Tissue Culture Association, Jaipur.
Jan 03-07 Yr. 2005	92 nd Session of Indian Science Congress, Ahmedabad.
Feb 17-18 Yr. 2006	National Conference on Medicinal and Aromatic plants: Global Perspective, Baraut.
Apr 27-28 Yr. 2006	National Symposium on Biotechnology in Genomic Era: Industrial Priorities, Greater Noida.
Jan 28-28 Yr. 2007	National Symposium on Integrated disease management of planmts in service of mankind, New Delhi
Dec 12-13 Yr. 2008	Proc. National Symposium on Biotechnology: Vision 2020, Meerut.
Dec 17-19 Yr. 2008	Proc. International Symposium on Plant Biology and Environment: changing Scenario, Allahabad, India.

Feb 19-21 Yr. 2009	Proc. International Conference on Current Trends in Biotechnology and Implications in Agriculture, Meerut.
Feb 19-20 Yr. 2010	Proc. National Conference on Bio prospecting: Access for sustainable Development, Allahabad.
Dec 25-26 Yr. 2010	Proc. National Conference on Traditional conservation of plant Biodiversity and Energy Resource vis-a vis Biotechnology Tools for sustainability, Meerut.
Jan 03-07 Yr. 2011	Proc. 98 th Indian Science Congress, Chennai.
Jan 12-13 Yr 2013	Proc. 1 st International conference on new horizons in pharmaceutical and biomedical sciences, Dehradun.
Nov 16-17 Yr 2013	Proc. International conference on Global IPR system and WTO Issues, Meerut.
Feb 18-19 Yr 2014:	Proc. National workshop on particle accelerators for interdisciplinary Research, Bilaspur
Aug 03-08 Yr 2014:	Proc. 10th International mycological congress, Bangkok.
Nov 19-22 Yr 2014:	Proc. 8th International conference on mushroom biology and Mushroom Products, New Delhi.
Feb 24-27, Yr 2015:	Proc. Fifth International on plant and Environmental pollution, Lucknow.
Mar 29-30 Yr 2015:	Proc. National seminar on innovation and research in science, management and technology, Bilaspur.
Apr 10-11 Yr 2015:	Proc. National seminar on ethno-medicine and new drug discovery: opportunities and challenges, Bilaspur.
Sep 12-13 Yr 2015:	Proc. National conference on recent advances in microbiology and bio-fuels, Bilaspur.
Sep 28-29 Yr 2015:	Proc. National seminar on cryptogam research in India: progress and prospects, Lucknow.
Oct 26-28 Yr 2015:	Proc. XXXVIII all India conference of Indian botanical society & national symposium on emerging trends in plant Sciences, Jaipur.
Jul 12-14 Yr 2016:	Proc. International seminar on new education policy and NAMODI Framework, Amarkantak.
Nov 26-27 Yr 2016:	Proc. National conference on Novel approaches in cell Science & stem cell research, Bilaspur
Jan 12-13 Yr 2017:	Proc. National workshop on current trends in Mushroom cultivation & Culture techniques, Bilaspur.
Jan 23-24 Yr 2017:	Proc. National seminar on Advance in Environmental Science & Technology, Rajnandgoan.

Seminar/ Symposia/ Conference/Workshop organized

Duration	Title of Seminar/ Symposia/ Conference/workshop
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Feb 22-24 Yr 2016	Skill development Training Workshop on carrier opportunities in Microbial Technology.
Oct 20-22, 2016	Skill development Training workshop on entrepreneur development in herbal drug industry.
Mar 21-23, 2017	National conference on Plant Science Technologies: current status and future prospects (NCPST-2017).
Sep 22-24, 2017	Skill development Training workshop on Entrepreneur Development in Nutraceuticals Mushroom technology as functional food.

Extra-Curricular activities

Candidate provide various training programmes such as **Mushroom cultivation training programme**, **Environmental protection programme**, awaring village people for **medicinal plant cultivation**, use of **biofertilizer**, **biopesticide** and **vermicomposting** for rural development under IYSAARD Allahabad.

Candidate also delivers special Lecture on **GREEN TECHNOLOGY** as **invited speaker** on **National Science Day** Organized by Indian Science Congress Association, Kolkata.

Candidate also awaring people, scientist, educated person, village people for the importance of vermicomposting, Biofertilizer, Biopesticide in a special public lectures organized by JEEVAN HERBS, Sagar MP.

Candidate also delivers various lectures as **invited scientist** for agriculture problem shooting for village people organized by Company Garden SRE, UP under UP govt. Scheme.

For moral education in rooting among students candidate participate in Bal Vikas Guru Training programme organized by Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantpur, AP.

In various social service programme candidate actively participate in **free human service programme in Kumbha Mela Khoya Paya Shivir Allahabad**, organized by SRI SATHYA SAI Samiti Lucknow.

Developed Herbal Products

Herbal drug for the control of dermatophytoses



Rabdosia melissoides
Family: Lamiaceae



Essential oil



Before treatment



After 10 weeks treatment



1% ointment
Rs. 1.0/gm

•Shahi et al (2003) Patent in USA, Japan, UK and India

Antifungal drug for Onychomycosis



Foeniculum vulgare
Family: Apiaceae



Before treatment



4 week



10 week



Fruits



Essential oil



2% lotion
Rs. 2.0/ml

•Shahi et al (2000) Flavor and Fragrance Journal , UK
•Awarded IBS Medal for best research work (2000)

Antifungal drug for fungal hair infection



Trachyspermum ammi
Family: Apiaceae



Essential oil



Before treatment



2 weeks treatment



2% lotion
Rs. 2.0/ml

•Awarded by CST, Lucknow for eco-friendly development (1999)

Antifungal formulation against *Pityriasis versicolor*



Trachyspermum ammi
Family: Apiaceae



Essential oil



Before treatment



3 weeks treatment



2% ointment
Rs. 2.0/gm

•Awarded IBS Medal for best research work (1997)
•Awarded by CST for commercialization (1998)
•Patent in progress

Antifungal drug for Onychomycoses



Eugenia caryophyllata
Family: Myrtaceae



Baths



Essential oil



Before treatment



4 week



10 week



2% lotion
Rs. 1.0/gm

Botanical-pesticide for the control of post harvest losses in fruits



Cymbopogon flexuosus
Family: Poaceae



Essential oil



Control



Treatment



2% solution
Rs. 15.0/L

•Shahi et al. (2003), Bio-Control, Netherland
•Shahi et al (2013) Journal of Natural Products
•Awarded by DRDO for eco-friendly development (2001)