



**NAME** : **DR. GANGADHAR BHAURAO SHINDE**

**DATE OF BIRTH** : 02-09-1955

**PRESENT DESIGNATION** : **PROFESSOR and HEAD**

**INSTITUTE & ADDRESS** : Post Graduate Department of Biochemistry  
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**EDUCATIONAL QUALIFICATION:**

DEGREE	UNIVERSITY/BOARD	YEAR	SUBJECTS	DIVISION
Ph.D.	RTM Nagpur University	1985	Biochemistry	---
M.Sc.	RTM Nagpur University	1977	Biochemistry	II
B.Sc.	RTM Nagpur University	1975	Chem/Zoo/Bot	I
S.S.C.	M.S.Board of Secondary Edn.	1971	Maths/Science	I

**TEACHING EXPERIENCE:**

POSITION	INSTITUTE/UNIVERSITY	PERIOD	SUBJECTS TAUGHT
Professor	P.G.Dept.of Biochemistry, RTM Nagpur University,Nagpur	2000-Contd.	Biochem.& Env.Toxicol. Clinical Biochemistry
Reader	P.G.Dept.of Biochemistry, RTM Nagpur University,Nagpur	1992-2000	Biochem.& Env.Toxicol. Clinical Biochemistry
Lecturer	P.G.Dept.of Biochemistry, RTM Nagpur University,Nagpur	1977-1992	Foods & Nutrition
Visiting Faculty	P.G.Dept.of Microbiology, RTM Nagpur University,Nagpur	1991-Contd.	Enzymology
Visiting faculty	P.G.Dept.of Pharma. Sciences, RTM Nagpur University,Nagpur	1997-2000	Metabolism
Visiting Faculty	P.G.Dept.of Zoology, RTM Nagpur University,Nagpur	1999-2000	Metabolism
Visiting faculty	P.G.Dept.of Biotechnology,RGBC, RTM Nagpur University,Nagpur	2000-2008	Enzymology

**RESEARCH SUPERVISION:**

**Ph. D. Degrees awarded under my supervision:**

Sr.No.	TOPIC	NAME OF STUDENT	YEAR
1.	Microbial transformation of Solasodine	Dr. Ajay Gawande	1992
2.	Microbial transformation of Tomatin	Dr. Sharad Wankhede	1992
3.	Microbial degradation of Naringin	Dr. Vidya Kathoke	1996
4.	Nutritional & Biochemical studies on different leaf protein concentrates	Dr. Milind Dudhane	1997
5.	Studies on the assessment of meat quality & its correlation with various	Dr. Rita Israni	1997

	spoilage indices		
6.	Fermentative production of single cell lipids	Dr. Pratima Jadhav	2000
7.	Microbial biopesticides against fish pathogens of major carps through biotechnological manipulations	Dr. Aarti Shanware	2002
8.	Screening the effect of microbial biotechnology on yield of soyabean (Var-JS335) grown in Wardha district	Dr. Archana Hiwalekar	2004

**SCHEMES/PROJECTS COMPLETED (as Principle Co-investigator)**

Sr.No.	SCHEME/PROJECT TITLE	FUNDING AGENCY	TOTAL FUND(Rs.)	DURATION
1.	Debitting of citrus & tomato products	DST	7,89,680	1986-1988
2.	Use of biopesticides for control of microbial diseases in major carps	DBT	14,85,163	1994-1998
3.	Support programme on development & demonstration of biofertilizer technology in backward region of Vidarbha	DBT	35,09,000	1998-2001
4.	Demonstration-cum-training on Biotechnology of biofertilizer as an integrated farming	DBT	13,49,000	2003-2006

**ORGANIZATIONAL EXPERIENCE/SYMPOSIA/LECTURE SERIES ORGANIZED:**

1. Joint Secretary of UGC sponsored symposium on "Popularizing biotechnological processes for rural and semiurban areas" held during February 7-9, 1991.
2. Contact person for "Popular lecture series in biotechnology by eminent scientists" sponsored by DST, Ministry of Science & Technology, Govt. of India, held on September 28, October 4, and October 7, 1991 and December 17-19, 1993.
3. Course Co-ordinator of "Refresher course in life sciences" organized by Academic Staff College, RTM Nagpur University during October 26 to November 18, 1998.
4. Chaired the session at UGC and Ministry of Environment and Forests sponsored seminar on "Impact of environmental pollution on biosphere and its control" organized by Dept. of Microbiology, D.B. Science college, Gondia during February 2-3, 2003.
5. Member of "Central Management Committee (CMC)" of Rajiv Gandhi Biotechnology Centre, RTM Nagpur University, Nagpur from October 9, 2003 onward.
6. Chairman of National Symposium on "Drug Design and Bio-informatics" organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur on December 20, 2003.
7. Member of "Panel for Marathi Shabdawali of Scientific Terminology", constituted by Commission for Scientific Terminology, Dept. of Secondary Education & Higher Education, Ministry of Human Resource Development, Govt. of India, New Delhi. Meeting held during July 26-30, 2004, and January 8-12, 2005, at RGBC, RTM Nagpur University, Nagpur.
8. Chairman of National Symposium on "Recent advances in Cancer research" organized by P.G. Dept. of Biochemistry, RTMNU, Nagpur on January 7, 2005.
9. Executive member of Organizing Committee of International Conference on "2<sup>nd</sup> Global Biotech Congress 2006 AD" organized by RGBC, RTMNU, Nagpur during December 18-21, 2006.
10. Organizing Secretary of National Conference on "Current Trends in Biochemistry-BIOCHEM'07" organized by P.G. Dept. of Biochemistry, RTM Nagpur University during December 27-29, 2007, on the eve of its Diamond Jubilee Celebration.
11. Chaired the Technical Session in International Conference on Molecular Tools in Environmental Toxicology (MOLTOX), organized by National Environmental Engineering Research Institute (NEERI), Nagpur on 23-24<sup>th</sup> September 2009.
12. Chaired the Technical Session in National Seminar on Advances in Cosmetics – A Biotechnological Concept jointly organized by Global Biotech Forum and Nikhalas Mahila Mahavidyalaya, Khamla, Nagpur, on 9<sup>th</sup> January 2010.

13. Organized Three day Workshop cum Training Program at the Deptt. of Biochemistry, RTM Nagpur University, Nagpur, during 22-24 Feb 2010.

#### **ACADEMIC / PROFESSIONAL EXPERIENCE:**

1. Subject expert on selection committee of RTM Nagpur and SGB Amravati Universities.
2. Member of Subject Examination Committee in Biochemistry, Biotechnology and Microbiology for undergraduate and post graduate and M.Phil courses of RTM Nagpur and SGB Amravati Universities.
3. Ph.D. Examiner of various universities within the state and out side state.
4. Paper setter and examiner in Biochemistry, Biotechnology and Microbiology (Undergraduate, Post graduate and M.Phil. courses) of various universities.
5. Member of Board of Studies (Biochemistry), Faculty of Science.
6. Member of 32/5 committee, Faculty (Biochemistry), Faculty of Science.
7. Member of Advoc Board of Studies (Forensic Sciences), Faculty of Science.
8. Member of Advoc Board of Studies (Mol. Biol. & Genetic Engg.), Faculty of Science.

#### **MEMBERSHIP OF SCIENTIFIC SOCIETIES / PROFESSIONAL BODIES:**

1. Life Member, Society of Biological Chemists (India), IISc, Bangalore.
2. Life Member, Nutrition Society of India, NIN, Hyderabad.
3. Treasurer, Society of Biological Chemists (Nagpur Chapter).
4. President, Association of University Teachers, RTM Nagpur University.
5. Member of Editorial Board of Memoir Journal published on the eve of 1<sup>st</sup> International Conference on "Global Sustainable Biotech Congress 2000 AD"
6. Member of Editorial Board of Memoir Journal published on the eve of International Conference on "2<sup>nd</sup> Global Biotech Congress 2006 AD".
7. Life Member, National Academy of Biological Sciences (NABS), Chennai, India.
8. Life member and Executive Member of Global Biotech Forum, Nagpur.

#### **CONFERENCES / SEMINARS / SYMPOSIA ATTENDED:**

1. Society of Biological Chemists (India) Conference held in 1982 at Chandigarh.
2. Nutrition Society of India Conference held in 1982 at NIN Hyderabad.
3. National Seminar on "Gums and Stabilizers in food industry" held in 1983 at MAU, Parbhani.
4. International Food Convention "IFCON 88" held in 1988 at CFTRI, Mysore.
5. Nutrition Society of India XXIVth Annual Meeting held in 1991 at Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow.
6. Inter-University Workshop on Applied Courses in Biochemistry/Biotechnology held in Dec. 1991 at Dept. of Chemistry, Division of Biochemistry, Shivaji University, Kolhapur.
7. Association of Microbiologists of India, 36<sup>th</sup> Annual Conference held in Nov. 1995 at CCS, Haryana Agricultural University, Hissar.
8. National Workshop on "Sexually transmitted Diseases and AIDS Control" sponsored by Ministry of Health and Family Welfare, Govt. of India, held on March 28, 1997 at Govt. Medical College, Nagpur.
9. Association of Clinical Biochemists of India, Maharashtra State Conference held in Sep. 1997 at Hotel Tuli International, Nagpur.
10. Indian Council of Chemists, 18<sup>th</sup> Conference held in 1999 at Jalgaon.
11. National Conference on "Recent Trends in Biotechnology" held in Feb. 2000 at P.G. Dept. of Biotechnology, SGB Amravati University, Amravati.
12. 1<sup>st</sup> National Conference on "Recent Trends in Life Management" held in Oct. 22-23, 2000 at Bipin Bihari Post Graduate College, Jhansi – 284 001 (UP), India.
13. 1<sup>st</sup> International Conference on "Global Sustainable Biotech Congress 2000 AD" held during 27<sup>th</sup> Nov. to 1<sup>st</sup> Dec. 2000 at Post Graduate Dept. of Microbiology, RTM Nagpur University, Nagpur.
14. 27<sup>th</sup> Annual Conference of Association of Clinical Biochemists of India, held during 11-14<sup>th</sup> Jan. 2001 at Hotel Centre Point, Nagpur.

15. Participated as Faculty Speaker in AICTE-ISTE Short Term Training Program on Emerging Areas in Pharmaceutical Education & Practice, organized by Nagpur College of Pharmacy during 21<sup>st</sup> Oct. to 1<sup>st</sup> Nov. 2002.
16. UGC Sponsored State Level Symposium on "Current Trends in Biochemistry" held on Dec. 29, 2002 at Dept. of Biochemistry, Dr. Ambedkar College, Nagpur.
17. Symposium on "Science in Nagpur University-Retrospect and Prospect" on the eve of Nagpur Tercentenary Celebrations held on Dec. 30, 2002 at Institute of Science, Nagpur.
18. National Seminar on "Impact of Environmental Pollution on Biosphere and its Control" sponsored by UGC and Ministry of Environment & Forests, held on 2<sup>nd</sup> and 3<sup>rd</sup> Feb. 2003 at Dept. of Microbiology, D.B. Science College, Gondia.
19. National Science Day Celebrations held on 28<sup>th</sup> Feb. 2003 at Institute of Science, Nagpur.
20. National Science Day Celebrations "Encouraging Scientific Awareness in the Community" Jointly supported by National Council for Science & Technology communication, Govt. of India and Science & Technology Cell, Govt. of Maharashtra, held on 28<sup>th</sup> Feb. 2004 at Institute of Science, Nagpur.
21. Workshop on "New Education Paradigm" organized by RTM Nagpur University and Maharashtra Knowledge Corporation Ltd., Mumbai on 23-24<sup>th</sup> July 2003.
22. A Symposium on "Stem Cell Technology" BIOTALK-2, 2003, organized by Hislop School of Biotechnology and Biotechnology Society on 16<sup>th</sup> Nov. 2003 at IMA Hall, Nagpur.
23. National Symposium on "Drug Design and Bio-informatics" organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur on 20<sup>th</sup> Dec. 2003.
24. National Symposium on "Recent Advances in Cancer Research" organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur on 7<sup>th</sup> Jan. 2005.
25. International Conference on "Antioxidants, Oxidative Stress and Inflammation – Inflammation 2006" jointly organized by Dept. of Biochemistry, Dr. Ambedkar College, Nagpur; IMA and Society for Free Radical Research, Nagpur Chapter on 12<sup>th</sup> and 13<sup>th</sup> Jan. 2006.
26. UGC sponsored National Seminar on, "Microbiological Developments & Biochemical Research" organized by Dept. of Microbiology and Biochemistry, L.A.D. College, Nagpur, on 29<sup>th</sup> & 30<sup>th</sup> Nov. 2007.
27. National Conference on 'Current Trends in Biochemistry' organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur on the eve of Diamond Jubilee Celebration during 27 – 29<sup>th</sup> Dec. 2007.
28. Capacity Building Program Jointly organized by IQAC and UGC Academic Staff College, RTMNU on 10<sup>th</sup> & 11<sup>th</sup> Jan 2010.

#### **TECHNICAL / SCIENTIFIC SESSIONS CHAIRED:**

1. Chaired the session at UGC and Ministry of Environment and Forests sponsored seminar on "Impact of environmental pollution on biosphere and its control" organized by Dept. of Microbiology, D.B. Science college, Gondia during February 2-3, 2003.
2. Chaired the Technical Session in International Conference on Molecular Tools in Environmental Toxicology (MOLTOX), organized by National Environmental Engineering Research Institute (NEERI), Nagpur on 23-24<sup>th</sup> September 2009.
3. Chaired the Technical Session in National Seminar on Advances in Cosmetics – A Biotechnological Concept jointly organized by Global Biotech Forum and Nikhalas Mahila Mahavidyalaya, Khamla, Nagpur, on 9<sup>th</sup> January 2010.
4. Chaired the technical session titled, "Microbial nanoparticles and its medical applications" in UGC sponsored national seminar on recent advances in medical microbiology and immunology, organized by Deptt. of Microbiology, Arts, Commerce & Science College, Koradi, Nagpur on 18<sup>th</sup> October 2011.

#### **GUEST LECTURES DELIVERED:**

1. "Nutrition during pregnancy and lactation, Health care of pregnant and lactating women" at Indian Instt. of Youth Welfare, Nagpur in 1988.
2. "Drugs and Poisons and its Toxicological Aspects" at Dept. of Biochemistry, Shivaji University, Kolhapur in Dec. 1991.

3. "Changing Concepts of Cooking Oils with special reference to Hearth Diseases and Diabetes" under the banner of Nutrition Society of India, Nagpur Chapter, at Dharampeth Science College, Nagpur in Sep. 1993.
4. "Assessment of Toxicity" at Academic Staff College, RTM Nagpur University, Nagpur in 1997.
5. "Environmental Pollution and its ill effects" on All India Radio, Nagpur in 1997.
6. "Environmental Protection – A public concern" on All India Radio, Nagpur in 1997.
7. "Kinetic aspects of enzymes" at P.G. Dept. of Microbiology, SGB Amravati University, Amravati in 1999.
8. "Biochemical basis of Health Sciences" at AICTE – ISTE sponsored short-term training program on emerging areas in pharmaceutical education and practice, organized by Nagpur College of Pharmacy, Wanadongari, Nagpur on Oct. 23, 2002.
9. "Drawing line of demarcation between Drugs and Poisons" at Central Agmark Laboratory, Nagpur in 2002.
10. "Importance of Diet in human life" at National Service Scheme (NSS) camp organized by RTM Nagpur University and Santaji College, Nagpur on Dec. 27, 2003.
11. "ELISA Techniques" at UGC sponsored Refresher Course in Life Sciences organized by Academic Staff College, RTM Nagpur University, Nagpur in 2003.
12. "Drugs and Poisons" at UGC sponsored Refresher Course in Life Sciences organized by Academic Staff College, RTM Nagpur University, Nagpur on July 22, 2004 at P.G. Dept. of Botany, RTMNU, Nagpur.
13. "Toxicological Assessment of Chemicals" at UGC sponsored Refresher Course in Chemistry organized by Academic Staff College, RTM Nagpur University, Nagpur during Oct. 18 to Nov. 7, 2004 at P.G. Dept. of Chemistry, RTM Nagpur University, Nagpur.
14. "Importance of nutrition in health & diseases" at Three day Workshop cum Training Program organized by Deptt. of Biochemistry, RTM Nagpur University, Nagpur, during 22-24 Feb 2010.
15. "Selective toxicity – a boon to pharmacist" at three week workshop on Immunological, Molecular and Animal cell culture techniques, organized by Biochemistry Research Laboratory, CIIMS, Nagpur, during 1<sup>st</sup> to 21<sup>st</sup> June 2011.

#### **ABSTRACTS PUBLICATIONS:**

1. An individual & combined supplementary effects of some essential amino acids and B-vitamins on nutritional quality of raw & autoclaved moth bean seeds in male albino rats, (GBS & CHC).  
Proc. 15<sup>th</sup> Annual Meetg., Nutrition Society of India, Vol.28, Abstr.No. 3, 1983.
2. Isolation & characterization of solasodine from Solanum surettence, (AG,KVS,SW,GBS)  
Proc. 2<sup>nd</sup> International Food Convention, Abstr.No. BAS-2, 1988.
3. Removal of bitterness from citrus juice by an indigenously isolated Aspergillus niger, (SBD,KVS,GBS).  
Proc. 2<sup>nd</sup> International Food Convention, Abstr.No. BAS-3, 1988.
4. Evaluation of nutritional efficacy of cauliflower leaf protein and its supplementary relationship to jowar protein, (GBS,MND).  
Proc. XXIV<sup>th</sup> Annual Meetg., Nutrition Society of India, 1991.
5. Rapid p-nitroaniline test to assess microbial quality of refrigerated minced meat, (RI,GBS).  
Proc. 36<sup>th</sup> Annual Conference of AMI, 1995.
6. Evaluation of lethal potency (LDt-50) of biopesticide against fish pathogens, (SUM,GBS,SAP,ASS,RRK).  
Proc. 37<sup>th</sup> Annual Conference of AMI, Chennai, Pg.No.163, Dec. 1996.
7. Studies in genetic assay of Bacillus thuringiensis in aquaculture, (SUM,GBS,SAP,ASS,RRK).  
Proc. 38<sup>th</sup> Annual Conference of AMI, New Delhi, Pg.No. 186, Dec. 1997.
8. Fermentative production of single cell oils (microbial lipids) using agro-industrial wastes and its comparison with groundnut oil, (PSJ,GBS).  
Proc. 18<sup>th</sup> Annual Conference of Indian Council of Chemists, Jalgaon, Abstr.No. 42, Pg.No. 114, 1999.

9. An analysis of various fermentation substrates for single cell oil production (microbial lipids), (PSJ,GBS).  
Proc.1<sup>st</sup> National Conference on Recent Trends in Life Management, Pg.No. 21, Oct. 2000.
10. Development of probiotic vaccine in aquaculture, (ASS,SUM,GBS).  
Proc.1<sup>st</sup> International Conference on "Global Sustainable Biotech Congress 2000 AD", Pg.No. 109, Nov. 2000. **(Received Best Paper Award)**
11. Augmentation of microbial technology for sustainable crop productivity in Vidarbha region, (SUM,GBS,ASS,RRK).  
Proc. 1<sup>st</sup> International Conference on "Global Sustainable Biotech Congress 2000 AD", Pg.No. 121, Nov. 2000.
12. Correlation of ATP:citrate lyase, malate dehydrogenase in homogenate of fungi grown in optimized Evans mineral media containing agro-industrial waste, (PSJ,GBS).  
Proc. 1<sup>st</sup> International Conference on "Global Sustainable Biotech Congress 2000 AD", Pg.No. 122, Nov. 2000.
13. Comparative study of fatty acid profile of fungal lipid and groundnut oil, (PSJ,GBS).  
Proc. 69<sup>th</sup> Annual Meetg. Society of Biological Chemists (India), Calcutta, Abstr.No. C1, Pg.No. 95, Dec. 2000.
14. Effect of various chemical fermentation parameters singly and in combination on lipid producing capacity of soil moulds, (PSJ,GBS).  
Proc. 27<sup>th</sup> Annual Conference of Association of Clinical Biochemists of India, Nagpur, Abstr.No. PJ-1, 2001.
15. Microbial transformation of naringin – a bitter alkaloid of citrus juice, (VRK,GBS).  
Proc. 27<sup>th</sup> Annual Conference of Association of Clinical Biochemists of India, Nagpur, Abstr.No. PJ-12, 2001.
16. Environment – ultimate receptacle of pollutants, (GBS), Souvenir of National Seminar on "Impact of environmental pollution on biosphere and its control", Feb. 2003.
17. Isolation, screening and optimization of soil microflora for oleagenicity, (PSJ, S.Sarkar, GBS).  
Proc. 10<sup>th</sup> Congress of Federation of Asian And Oceanian Biochemists and Molecular Biologists (FAOBMB) held at Bangalore during Dec 7-11, 2003, Abstr.No.P10-11, Pg.No. 71, 2003.
18. Hepatoprotective and antioxidant property of *Tridax procumbens* Linn. (Asteraceae) against paracetamol induced hepatic damage in rats, (SSW,GBS).  
Proc. National Seminar on Emerging horizons of Biotechnology, organized by School of Biotechnology, Guru Ghasidas University, Bilaspur (CG) during Nov. 10-12, 2006. Pg.No.37. **(Winner of Best Oral presentation)**.
19. Preliminary studies on protective effect of *Tridax procumbens* Linn. Against paracetamol induced hepatotoxicity in albino rats, (SSW,GBS).  
Memoir Journal of 2<sup>nd</sup> Global Biotech Congress, organized by RGBC, RTM Nagpur University during Dec 18-21, 2006, Pg.No. 211.
20. Ascorbic acid measurement in follicular fluid in lead follicles can predict pregnancy outcome in in vitro fertilization (IVF). (NS,MB,NC,MC,GBS,NN).  
Abstr. Book of Current Trends in Biochemistry (BIOCHEM-07) organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur during Dec. 27-29, 2007, Pg.No.20.
21. Differential diagnosis of latent from active tuberculosis: A preliminary study, (MSP,RSK,GBS,HJP,GMT,HFD).  
Abstr. Book of Current Trends in Biochemistry (BIOCHEM-07) organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur during Dec. 27-29, 2007, Pg.No.26.
22. Fecundity of eumenorrhic non-PCOS healthy women is essential in selecting them as normal control in an infertility center, (MB,NS,NN,NC,GBS).  
Abstr. Book of Current Trends in Biochemistry (BIOCHEM-07) organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur during Dec. 27-29, 2007, Pg.No.29.
23. Preliminary studies on the hepatoprotective activity of *Tridax procumbens* Linn. Against rifampicin (RIF) induced hepatic damage in albino rats, (SW,GBS).  
Abstr. Book of Current Trends in Biochemistry (BIOCHEM-07) organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur during Dec. 27-29, 2007, Pg.No.42.

24. Isolation and screening of cellulolytic fungi, (RK,GBS).  
Abstr. Book of Current Trends in Biochemistry (BIOCHEM-07) organized by P.G. Dept. of Biochemistry, RTM Nagpur University, Nagpur during Dec. 27-29, 2007, Pg.No.58.
25. Novel drug designing exploiting putative rationale, (RDS, SP, GBS, KG, MVRR)  
Abstr. Book of International Conference on Advances in Free Radical Research : Natural Products, Antioxidants and Radioprotectors, held during 8<sup>th</sup> Annual Meeting of the Society for Free Radical Research - India, Jointly organized by Deptt. of Biochemistry, C.S.M. Medical University, Lucknow and Era's Lucknow Medical College, Lucknow, on March 19-21, 2009, Abstr. No. P-198, Page No. 171.
26. Incidence of sickle cell disease and hematological assessment of rural children of Wardha district in Maharashtra, India, (HN, SUM, GBS)  
Abstr. Book of International Conference on microbial biotechnology for sustainable development, organized by Association of Microbiologists of India, Deptt. Of Microbiology, Punjab University, Chandigarh-160014 during Nov 3-6, 2011, Abstr. No. ==  
Page No. =====.

#### RESEARCH PUBLICATIONS:

1. Effect of methionine supplementation on BV, DC and NPU of lentil protein in male albino rats (GBS,CHC), Ind. J. Nutr. Dietet. 17, 205-210, 1980.
2. An individual and combined supplementary effects of some essential amino acids and B-vitamins on nutritional parameters of autoclaved horse gram protein in male albino rats (GBS,CHC), Ind. J. Nutr. Dietet. 20, 80-94, 1983.
3. Nutritional evaluation of raw and autoclaved lentil protein after supplementation with essential amino acids and B-vitamins (GBS,CHC), J. SPANS, 1, 4-10, 1985.
4. Kinetic considerations for degradation of limonin by various microorganisms, (SBD,KVS,GBS). J. Microbial Biotechnology, 2(2), 83-88, 1987.
5. Isolation, purification and characterization of solasodine – a steroidal alkaloid from Solanum surattense berries, (AG,SW,KVS,GBS).  
Indian Drugs, 28(3), 149-150, 1990.
6. Isolation, purification and characterization of tomatine - a steroidal glycoalkaloid from tomato (*Lycopersicon esculentum*) leaves, (SW,GBS,AG,KVS).  
Indian Drugs, 28(8), 375-376, 1991.
7. Isolation and characterization of tomatine transforming organisms, (SW,GBS,AG,KVS).  
Ind. J. Microbiology, 31(3), 263-266, 1991.
8. Isolation and characterization of solasodine transforming organisms, (AG,KVS,SW,GBS).  
Ind. J. Microbiology, 31(3), ---, 1991.
9. Kinetic considerations for transformation of solasodine by using moulds, (AG,SW,KVS,GBS).  
J. Microbial Biotechnol., 6(2), 1-7, 1991.
10. Nutritional evaluation of moth bean (*Phaseolus aconitifolius* Jacq.) protein using male albino rats, (GBS).  
Nagpur University Journal (Science), 7, 5-10, 1995-96.
11. Biocontrol of fish pathogens associated with polluted aquaculture, (SUM,GBS,ASS,RRK).  
Poll. Res. 18(4), 369-371, 1999.
12. Strategic priming in fish vaccine development, (SUM,ASS,GBS).  
Asian J. Microbiol. Biotechnol. & Env. Sci., 5(2), 193-196, 2003.
13. The expository aspects of biotrophic status by VAM fungi in Vidarbha region, (SUM,GBS,SSP,ASS,RRK).  
J. Current Sciences, 5(2), 425-432, 2004.
14. Production of linoleic and gamma linolenic acid by *mucor plumbeus* NCIM 981, (PSJ,GBS).  
An International Research J. Biol. Sciences, Flora & Fauna, 13(1), 224-228, 2007 (June).
15. Effect of temperature and pH on lipid accumulation by *Rhodosporidium toruloides*, (PSJ,GBS).  
Internatl. J. of Bioscience Reporter, 5(2), 663-667, 2007 (Dec).
16. Transgenic tomato plants expressing a wheat endochitinase gene demonstrate enhanced resistance to *Fusarium oxysporum* f. sp. *lycopersici* (PVG, GBS).

- Plant Cell Tiss Organ Cult 105(2), 243-249, 2011. DOI 10.1007/s11240-010-9859-5.
17. Effect of explant injury on regeneration and transformation efficiency in tomato (*Solanum lycopersicon*). (PG, GBS, GN).  
Asian J. Microbiol. Biotech. & Env. Sci. 12(1), 79-84, 2010.
  18. Antioxidant and hepatoprotective activity of *Tridax procumbens* Linn. against paracetamol induced hepatotoxicity in male albino rats. (SSW & GBS).  
Advanced studies in biology, 2(3), 105-112, 2010.
  19. Novel drug designing rationale against *Brugia malayi* microfilariae using herbal extracts. (RD Sharma, S Petare, GB Shinde, Goswami Kalyan & MVR Reddy).  
Asian Pacific Journal of Tropical Medicine, Vol. 3, Issue 11, Nov. 2010, Pages 846-850.  
DOI:10.1016/S1995-7645(10)60204.0 Copyright @ 2010 Hainan Medical College  
Published by Elsevier (Singapore) Pte. Ltd.
  20. Water conservation due to grey water treatment and reuse in urban setting with specific context to developing countries. (D Mandal, P Labhashetwar, S Dhone, AS Dubey, G Shinde & S Wate).  
Resources, Conservation and Recycling. 55(3), 356-361, Jan. 2011,  
DOI 10.1016/j.resconrec.2010.11.001, Copyright @ 2010 Elsevier B.V.
  21. Computational identification of cell surface antigens in *Streptococcus pneumoniae*. (D. Gore, Khushbu Gupta & GB Shinde).  
Biomirror, 2(4), 1-5, 2011. (Accepted on 4<sup>th</sup> April 2011, Available online 16-02-2011)
  22. A systematic review of pharmacological therapies for sickle cell disease, (HS Nikhar, SU Meshram, GB Shinde).  
Biomedical and Pharmacology Journal, Vol 4, No.1, Pg 75-85, 2011,
  23. A comprehensive review of diverse issues related to Sickle cell disease, (HS Nikhar, SU Meshram, GB Shinde).  
Tanzania, (In press)
  24. Protective effect of *Tridax procumbens* Linn against isoniazid induced hepatic damage (SS Wagh & GB Shinde)  
Journal of Pharmacy Research, Oct. 2011, (In press)

#### BOOKS EDITED:

A book entitled, “**SUSTAINABLE BIOTECHNOLOGY**” First Edition 2003, Editors- S.U. Meshram and G.B. Shinde, Publisher – Discovery Publishing House, New Delhi.

A book entitled, “**APPLIED BIOTECHNOLOGY**” First Edition 2009, Editors- S.U. Meshram and G.B. Shinde, Publisher – I.K. International Publishing House Pvt. Ltd., New Delhi.

#### PATENTS GRANTED: (by patent office, Govt. of India)

Sr. No.	Title	Appl. No.	Dt.of Filing Patent	Dt.of Grant of Patent	Patent No.	Patent Term
1.	A method for determination of Biopotency by Lethal Dose titre - 50 (LDt-50) of live antagonist against pathogen	1148/ DEL/2001	13.11.2001	12.07.2008	221967	20 Years

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