

BIODATA



Name : TIDKE JAYKIRAN ANANDRAO

Address (Off.) : Professor and Head
Department of Botany,
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Laddha Plot, Biyani Square, Camp,
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Date of Birth : 09.01.1962

E-mail : jai kirantidke@rediffmail.com,
jai kirantidke@gmail.com

Nationality : Indian

Academic Career : M.Sc. (Bot.); B.Ed.; M.Phil.(Bot.); Ph.D.

Teaching Experience: 25 years.

Administrative Experience:

- Head, Department of Botany, Sant Gadge Baba Amravati University, Amravati from 01/05/2005 to 25/03/2009.
- Head, Department of Botany, Sant Gadge Baba Amravati University, Amravati from 18.11.2010 to till this date.
- Co-ordinator, Internal Quality Assurance Cell, (NAAC), Sant Gadge Baba Amravati University, Amravati from 21.03.05 to 21.08.2007.

Research:

- **Area/Specialization** : Palynology, Pollination Biology,
Plant Reproductive Biology, Aerobiology,
Pollen Biotechnology, Bioinformatics.
- **Title of Ph.D. Thesis** : PALYNOLOGICAL INVESTIGATIONS ON SOME
PLANTS OF PAPILIONACEAE
- **Ph.D. Degree Year** : 1999
- **Recognized as Research Guide** : i) Ph.D. Supervisor in subject Botany,
Sant Gadge Baba Amravati University,
Amravati from 02.02.2001.
ii) Ph.D. Supervisor in subject Environ. Sci.

Sant Gadge Baba Amravati University,
Amravati from 21.07.2007.

- **Post-doctoral Fellow** : Laboratory of Pollination Ecology,
Institute of Evolution,
Haifa University, Haifa (Israel).
17.02.2004 – 30.06.2004
- **Research paper
Published** : 24
- **Book Edited** : 02
- **Paper Presented** : 48
- **Conferences Attended** : 45
- **International Conference
Organized as a Convener** : 01
- **Workshops Organized
as a Convener** : 03
- **No. of Students Awarded
Ph.D.** : 06
- **No. of Students Submitted
Ph.D. Thesis** : 02
- **No. of Students Working
for Ph.D.** : 08
- **No. of Ph.D. Thesis
Evaluated** : 04
- **No. of Students Guided for
M. Phil. Dissertation** : 04
- **Universities/Countries
Visited Abroad** : Israel, Austria, Spain, France and Switzerland.
- **Research Projects** : Completed 3 projects and worked as Post doc
Fellow on Multinational Project at
Haifa University, Israel.

1] Minor Research Project, UGC Unassigned Grants:

Title of the Project: *Pollen Flora and Melittopalynology of Amravati
University Campus, Amravati University, Amravati.*
(Period 2001-2003).

2] Major Research Project, UGC New Delhi (2005-2007):

Title of the Project: *Management of Wild Pollinators for Higher Crop Yields*
(Period: 01.01.2005 – 31.12.2007).

3] Major Research Project, Ministry of Forest and Environment (2000-2008):

Title of the Project: *Improvement of Infrastructure Facilities in Botanic Garden and Centre for Ex-situ Conservation of Rare/Endemic Plants.*

4] International Research Project on Pollination Ecology (1st Feb.2004-2009):

Title of the Project: *Assessing Large-scale Environmental Risk with tested Methods (ALARM)*

Conducted postdoctoral research work from 17.02.2004 to 30.06.2004 under the Multinational Research Project at Laboratory of Pollination Ecology, Institute of Evolution, Haifa University, Haifa (Israel) under the supervision of Prof. Amots Dafni and Prof. Gidi Neeman funded by European Union. The ALARM consortium combines the expertise of 54 partners from 26 countries and has a centrally funded programme for an initial period of five years, started from 1st February 2004.

➤ Research Papers Published in International /National Journals

1. **Tidke, J.A.** and G.V.Patil (2000). Reproductive ecology of flower colour morphs of *Clitoria ternatea* Linn. *Inter. J. Trop. Agri.* 1118(3): 211-218.
2. **Tidke, J.A.** and G.V.Patil (2000). Floral biology and pollination biology of *Crotalaria serisea* Retz. *Environment and Ecology* 18(4): 1020-1022.
3. Dhore, M. M., D.U.Pochhi and **J. A.Tidke** (2000). Amino acids and sugars from floral nectars of some local plants. *J. Phytol. Res.*13(2):171-174.
4. Maurya, M.R., V.V.Parate, **J.A.Tidke** and P.R.Rajput (2003). Synthesis and growth promoting effects of some newly synthesized chlorosubstituted heterocycles on agricultural crop plants. *Asian Journal of Chemistry* 5(3) and (4): 1759-1763.
5. **Tidke, J.A.** and R.O.Dharmkar (2003). Flowering phenology, pollen production and insect behaviour in some ornamentals. *Journal of Phytochemical Research* 16 (1):73-76.
6. **Tidke, J.A** (2003). Pollinator diversity, behaviour and floral rewards. *Amravati University Research Bulletin.*1 (2): 71-73.
7. **Tidke, J.A.** and S.G.Gawande (2005). Pollination ecology of *Lagerstroemia speciosa* Pers. *International Journal of Tropical Agriculture* 23(1-4): 55-59.
8. **Tidke, J.A.** (2005). Pollination ecology of *Crotalaria serisea* Retz. *J. Indian Botanical Society* 84:80-84.
9. Nathar, V.N., D.M. Kale, **J.A. Tidke**, S.R. Manik and U.S. Chaudhari (2005). Bio-chemical changes effected by 'Boron' on growth and development of Potato (*Solanum tuberosum* L.). *J. Comp. Toxicol. Physiol.* 02 (I and II): 18-27.
10. Dahat, A.S. and **J.A. Tidke** (2005). Crop pollination, diversity, behaviour and role of insect pollinators in *Gossypium hirsutum* L. and *Cajanus cajan* L. *Proc. ICPSBC-05*:197-200.
11. **Tidke, J.A.** and R.O. Dharamkar (2006). A study on some aspects of the pollination biology of winter ornamental plant. *Advances in Pollen-Spore Research* XXIV: 117-127.
12. **Tidke, J.A.** and R.O. Dharamkar (2006). Pollination ecology of some seasonal ornamental plants. *Advances in Pollen-Spore Research* XXIV: 129-139.

13. Dahat, A.S., **J.A.Tidke** and P.J. Kale (2007). Flowering phenology and insect pollination in *Brassica campestris* L. **J. Comp. Toxicol. Physiol.** 4(I-IV) 85-89.
14. Pund, S.B., **J.A.Tidke** and P.J. Kale (2007). Preliminary observation on aeromicrobiota at Amravati City (M.S.). **J. Comp. Toxicol. Physiol.** 4(I-IV) 69-74.
15. Gomase V.S. and **Tidke J.A.** (2008). Prediction of antigenic MHC binders of Calreticulin protein from *Parthenium argentatum*. *International Journal of Bioinformatics*.1 (1):37-44.
16. E.V.Upadhye, **J.A.Tidke** and G.V.Patil (2008). A petrified female strobilus from Mohgaonkalan, Madhya Pradesh, India. **The Palaeobotanist** 57: 443-448.
17. **J. A. Tidke**, S. S. Nagarkar and S. S. Rokade (2009). Biochemical analysis of pollen grains of *Ipomoea fistulosa* L.; **Ind. J. Aerobiology**, 22(1 and 2):17 – 20.
18. S. S. Rokade, **J. A. Tidke** and N. J. Chikhale (2010). Antigenic and allergic character predictions of putative cup s 1 pollen allergen protein from *Oryza sativa* pollen grains. In pre-conference proceeding of National Conference on “**Trends in Plant Sciences: Today and Tomorrow**” , Department of Botany Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India).
19. S. S. Rokade, **J. A. Tidke** and N. J. Chikhale (2010a). *In-Silico* characterization of pollen –specific protein Bnm 1 from *Arabidopsis thaliana* L. **International Journal of Genomics and Proteomics**, 1(1): 1-8.
20. S. S. Rokade, **J. A. Tidke** and N. J. Chikhale (2010b). Computational analysis of SRK protein from *Brassica oleracea* L. for allergic and antigenic characters. **International Journal of Genomics and Proteomics**, 1(1): 25-33.
21. **J. A. Tidke**, S. S. Rokade and N. J. Chikhale (2010). Prediction of allergic and antigenic characters of major pollen allergen Pha a 1 from phalaris aquatica (Canary grass); **Ind. J. Aerobiology**, 23 (1 and 2): 24-33.
22. **J. A. Tidke**, S. S. Nagarkar and S. S. Rokade (2010). Biochemical analysis of pollen grains of allergic pollen producing plant *Moringa oleifera* Lamk. Souvenir and Proceeding of “**Golden Jubilee National Symposium on Plant Diversity Utilization and Management**” during 27th to 29th May 2010, pp. 110-114.
23. **J. A. Tidke** and S. S. Nagarkar (2010). Honey as a regional bee floral indicator - A palynological assessment; **J. Indian Bot. Soc.** 89(3 and 4):234-333.
24. **J. A. Tidke** and S. B. Thorat (2011). Observations on reproductive biology of *MAdhuca longifolia* Koen Macbr; **The International Journal of Plant Reproductive Biology**, 3(1):47-54.

➤ **Research Papers Presented in Conferences:**

1. Palynological investigations in *Artabotris odoratisimus* R.Br. Fifth all India Symposium on Palynology, Department of Botany, Institute of Science, Nagpur, Oct.7th-9th, 1987.
2. Pollination Ecology and floral Biology of *Crotalaria serisea* Retz. Conference on Recent Trends in Botany, Department of Botany, Amravati University, Amravati, Dec., 6th-8th, 1993.

3. Pollination Ecology of *Crotalaria serisea* Retz. 22nd All India Botanical Conference. Shri Vile Parle Kelvani Mandals Mithibai College of Arts, Chauhan Institute of Science and A.J.College of Com. and Eco. and local organising Committee, Vile Parle (W), Mumbai 400056, Oct.23rd-25th 1999.
4. Floral Biology and pollination of *Crotalaria serisea* Retz. 10th National Conference on Aerobiology and its Applications. Department of Botany, Andhra University, Visakhapatnum 530003, A.P., Dec.20th-22nd, 1999.
5. Pollinator diversity, behaviour and floral rewards. National Conference on Frontiers in Biotechnological Aspects of Plant Sciences, organised by Department of Botany, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad-431004 (M.S.) 30th-31st Jan.2002.
6. Observations on floral visitors of some local plants. International Conference and world Apixio-2002, Century Foundation Bangalore, India, Feb.24th-Mar. 01st, 2002.
7. Role of mycorrhizal mushroom in forest ecosystem. Seminar on Mushroom Technology. Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Shri Shivaji Agriculture College, Amravati, 21st-22nd March 2002.
8. Observations on pollen flora of Pohara Forest (Amravati). Silver Jubilee Conference of Indian Botanical Society and National Symposium on Biosciences: Advance Impact and Relevance. Department of Plant Sciences, MJP Rohilkhand University, Bareilly. 27th-29th Oct.2002.
9. Chemical analysis of honey collected from Pohara Forest. XVIII National Symposium on Recent Trends in Life Sciences with Special Reference to Wildlife and Conservation. Post Graduate Department of Zoology, Amravati University, Amravati 444602, Nature Conservation Society, Amravati (MS) and Indian Society of Life Sciences, Kanpur (UP) 16th-19th November, 2002.
10. Flowering phenology, pollen production and insect behaviour in some ornamentals. National Conference on Biodiversity-Past and Present organized by The Botanical Society, Lucknow 28th-29th November 2002.
11. Bio-chemical changes effected by 'boron' on growth and development of potato (*Solanum tuberosum* L.). International Congress of Plant Physiology on Sustainable Plant Productivity Under Changing Environment, organized by Indian Society for Plant Physiology and International Association for Plant Physiology at Indian Agriculture Research Institute, New Delhi, India 8th-12th January, 2003.
12. Synthesis and growth promoting effects of some newly synthesized chlorosubstituted heterocycles on agriculture crops. National Conference on Ethnobotany, Biodiversity and Conservation, organized by Department of Botany, Shri Shivaji College of Arts, Commerce and Science, Akola, 18th-19th January 2003.
13. Preliminary observations on some qualitative analysis of airborne biocomponents at Amravati. 13th National Conference on Aerobiology (Silver Jubilee Celebration), Department of Botany, Institute of Science, Nagpur, 31st Jan.-2nd Feb., 2005.
14. Aspects of the pollination biology of winter ornamental plants, presented at International Conference on "Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation, Department of Botany, Amravati University, Amravati, 17th-20th Feb., 2005.
15. Crop pollination: diversity, behaviour and role of insect pollinator in *Gossypium hirsutum* L. and *Cajanus cajan* L. International Conference on Modern Trends in

- Plant Sciences with Special Reference to the Role of Biodiversity in Conservation. Department of Botany, Amravati University, Amravati, 17th-20th Feb. 2005.
16. Pollination ecology of *Adhatoda zeylanica* (Acanthaceae). International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation. Department of Botany, Amravati University, Amravati, 17th-20th Feb., 2005.
 17. Computational analysis for programs and databases used in DNA sequencing. International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation, Department of Botany, Amravati University, Amravati, 17th-20th Feb., 2005.
 18. Three new Ascomycetes from Maharashtra. International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation. Department of Botany, Amravati University, Amravati, 17th-20th Feb., 2005.
 19. Observation on Pollination Ecology of Seasonal Ornamental Plants. XVII International Botanical Congress, Austria Centre Vienna, Austria, 18th-23rd, July 2005.
 20. Petrified female strobilus from Mohgaonkalan, M.P., India. Diamond Jubilee International Conference Changing Scenario in Palaeobotany and Allied Subjects, organized by Birbal Sahni Institute of Palaeobotany, Lucknow, November 15th-7th, 2006.
 21. Preliminary Observations on Aeromicrobiota at Amravati City (M.S.). School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh 15th-17th Jan., 2007
 22. Flowering Phenology and Insect Pollination in *Brassica campestris* L. and *Sesamum indicum* L. National Conference on Recent Advances in Biology organized by S.N. Mor Arts, Comm. And Smt. G. D. Saraf Science College, Tumsar, Dist. Bhandara, 2nd and 3rd Feb. 2007.
 23. Observations on some aspects of pollination in *Cajanus cajan* (L.) Millsp. (Fabaceae). XXXth Botanical Conference (Indian Botanical Society) National Seminar, "Emerging trends in Plant Science: Biodiversity, Biotechnology and Environmental Conservation, 28th-30th November, 2007. Organized by School of Studies in Botany, Jiwaji University, Gwalior, (M.P.).
 24. Nectar dynamics, flower visitors and foraging behaviour in *Citrus limon* (L.). XXXth Botanical Conference (Indian Botanical Society) National Seminar, "Emerging trends in Plant Science: Biodiversity, Biotechnology and Environmental Conservation, 28th-30th November, 2007. Organized by School of Studies in Botany, Jiwaji University, Gwalior, (M.P.).
 25. Qualitative analysis of trapped pollen and spores from spider webs. XXXth Botanical Conference (Indian Botanical Society) National Seminar, "Emerging trends in Plant Science: Biodiversity, Biotechnology and Environmental Conservation, 28th-30th November, 2007. Organized by School of Studies in Botany, Jiwaji University, Gwalior, (M.P.).
 26. Observations on nectar production and flower visitors in *Bignonia unguis-cati* L. (Bignoniaceae). National Conference on Recent Trends in Biosciences, Deptt. of Bot., Zoo. and Enviro.Sci., Institute of Science, Nagpur, 20th-21st January, 2009.
 27. Insect Pollination, Fruit Set and Seed Yield in *Coriandrum sativum* L. (Apiaceae). National Conference on Recent Trends in Biosciences, Deptt. of Bot., Zoo. and Enviro.Sci., Institute of Science, Nagpur, 20th-21st January, 2009.

28. *In-silico* characterization of pollen-specific protein Bnm1 from *Arabidopsis thaliana* Advances in Biosciences: From Darwin to Dolly and Beyond.. held at Yeshwant Mahavidyalaya, Nanded - 431 602 (M.S.) India, 12th-14th February, 2009.
29. Biochemical analysis of pollen grains of dominant allergenic pollen producing plant *Ipomoea fistulosa* L. 15th National Conference on Aerobiology and National Symposium on Plant, animal and Human Health, Deptt. of Life Sciences, Manipur University, Imphal. 6th-8th March 2009.
30. Prediction of allergic and antigenic characters of major pollen allergen pha 1 from *Phalaris aquatica* (Canary grass). 15th National Conference on Aerobiology and National Symposium on Plant, animal and Human Health Deptt. of Life Sciences, Manipur University, Imphal. 6th-8th March 2009.
31. Free amino acids from pollen grains of some *Asteraceae* plants producing allergic pollen. XIV Annual Conference of Indian Association for Angiosperm Taxonomy and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Propects, held at National Botanical Research Institute (NBRI), Lucknow. 12th-14th November 2009.
32. Computational analysis of SRK protein from *Brassica oleraceae* L. for allergic and antigenic characters. XIV Annual Conference of Indian Association for Angiosperm Taxonomy and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Propects, held at National Botanical Research Institute (NBRI), Lucknow. 12th-14th November 2009.
33. Characterization of oleosin protein from *Arabidopsis thaliana* pollen. XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario, Organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajasthan). 28th-30th Dec. 2009
34. Nectar production, flower visitors and foraging behavior in *Quisqualis indica* L. (Combretaceae). XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario, Organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajasthan). 28th-30th Dec. 2009.
35. Insect pollination, fruit set and seed yield in *Helianthus annuus* L. (Asteraceae). XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario, Organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajasthan). 28th-30th Dec. 2009.
36. Honey as a regional bee floral indicator – a palynological assessment through regional honey samples. XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario, Organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajasthan). 28th-30th Dec. 2009.
37. Antigenic and allergic character predictions of putative cup s 1 pollen allergen protein from *Oryza sativa* pollen grains. National Conference on “Trends in Plant Sciences: Today and Tomorrow” organized by Department of Botany Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) during 22nd – 23rd February, 2010. during 22nd-23rd February, 2010.

38. Nectar production, chemical composition and flower visitors in *Butea monosperma* (Lamk.) (Papilionaceae) National Conference on “Trends in Plant Sciences: Today and Tomorrow” organized by Department of Botany Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) during 22nd-23rd February, 2010. during 22nd – 23rd February, 2010.
39. Biochemical analysis of dominant pollen types represented by local honey samples. XVIII Congress of the Federation of European Societies of Plant Biology (FESPB) 2010 Organized by Grupo Geyseco. c/Universidad, 4 46003 Valencia, Spain.
40. Biochemical analysis of pollen grains of allergenic pollen producing plant *Moringa oleifera* Lamk. ; Golden Jubilee National Symposium on Plant Diversity Utilization and Management, Organized by Department of Botany, University of Kerala.
41. Insect pollination, fruit set and seed yield in *Capsicum annum* L. (Solanaceae); First Global Congress on Plant Reproductive Biology, Organized by The Society of Plant Reproductive Biologist, Agra.
42. Observations on reproductive biology of *Madhuca longifolia* (Koen.) Macbr. First Global Congress on Plant Reproductive Biology, Organized by The Society of Plant Reproductive Biologist, Agra.
43. Pollen spectrum and physicochemical properties of local Honey samples. XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, Organized by Department of Botany, Shivaji University Kolhapur, Maharashtra.
44. Studies on pollination and reproductive biology of *Pongamia pinnata* L. (Fabaceae). XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, Organized by Department of Botany, Shivaji University Kolhapur, Maharashtra.
45. The studies on pollen biology of *hamelia patens* Jacq. (Rubiaceae). XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, Organized by Department of Botany, Shivaji University Kolhapur, Maharashtra.
46. Studies on pollen morphology of four species of *Ipomoea* (Convolvulaceae). XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, Organized by Department of Botany, Shivaji University Kolhapur, Maharashtra.
47. Comparative Study for allergenicity of pollen specific protein from *Zea mays* using computational tools; 16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine, organized by Department of Biotechnology and Environmental study center of Bapuji Institute of Engineering and Technology, SS Institute of Medical Sciences and Research Center and JJM Medical College Davangere, Karnataka.
48. Monitoring Environment for airborne pollen and its relation to climatic factors; 16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine, organized by Department of Biotechnology and Environmental study center of Bapuji Institute of Engineering and Technology, SS Institute of Medical Sciences and Research Center and JJM Medical College Davangere, Karnataka.

Technical Sessions Chaired:

- i) Technical session: Section I, Biotechnological Issues in Medicinal Plants,

- 05.01.2007 at Emerging Trends in Medicinal Plants and Their Biotechnological Advances, Department of Botany Dr. Ambedkar College, Nagpur, 5th-6th Jan.2007.
- ii) Technical session I :IV-B (E 16 –E 21), 16.01.2007 at 14th National Conference on Aerobiology, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, 15th-17th Jan.2007.
 - iii) Chaired the technical session at State level seminar on “Emerging Trends in Biotechnology” organized by Shri Shivaji College of Biotechnology, Amravati 24th Jan. 2008.
 - iv) Technical Session Reportear at National Conference on Recent Trends in Biosciences organized by Department of Botany, Zoology and Environmental Science, Institute of Science, Nagpur during 20th-21st January 2009.
 - v) Technical Session Reportear at National Conference on “*Trends in Plant Sciences: Today and Tomorrow*” organized by Department of Botany Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) during 22nd – 23rd February, 2010. during 22nd-23rd February, 2010

Guest Lectures delivered at Refresher Courses/Departments : More than 30
Guest Lecture delivered at Valencia University, Spain : 01

Honors and Recognitions:

- Honored as a Regular Library Reader, Vidya Bharti Mahavidhyalaya, Amravati.
- Certificate of Merit for Academic proficiency by Vidyabharti Shaikshanik Mandal, Amravati.
- Letter of Recognition from University of Haifa, Israel.
- Certificate of Appreciation from Ministry of Tourism, Israel.
- Letter of Appreciation for successful organization of International Conference ICPSBC-05 as a Convener from Hon’ble Management Council Sant Gadge Baba Amravati University, Amravati.
- Letter of Appreciation for successful conduction of ‘Ashwamedh-2003’.
- **P.H.Gregory Award (Third) 2009** for research paper entitled “Prediction of allergic and antigenic characters of major pollen allergen pha a 1 from *Phalaris aquatica* (Canary grass) presented at 15th National Conference on Aerobiology and National Symposium on Plant, animal and Human Health jointly organized by Indian Aerobiological Society and Department of Life Sciences, Manipur University, Imphal. 6th-8th March, 2009.
- Felicitation at the hands of Prof. M. Muniyamma and Prof. C. M. Gohil in appreciation of research contribution at “XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario”, organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajastan)), during 28th-30th Dec. 2009.

Membership of Learned Societies/Associations:

Life Member:

- Indian Botanical Society, Meerut.
- Indian Science Congress Association, Kolkata.
- Indian Aerobiological Society, Kolkata.
- Indian Association for Angiosperm Taxonomy (IAAT) Calicut.
- The Society of Plant Reproductive Biologists, Agra.

- All India Beekeeper's Association, H.O.B 25, Sadashiv Peth, Pune 411 003.
- Botanical Society, Dept. of Botany Dr.H.S.Gour University, Sagar 470003 (M.P.).
- International Association of Pollination Ecologists and Palynologists.
- Alumni Association Amravati University, Amravati.
- Nagpur University Teachers Association, Nagpur
- New Gramin Vikas Shikshan Sanstha Pardi (Devi), Dist. Amravati Regi. No.9036.
- Shri Sant Pundlic Maharaj Sewa Mandal Sangvi (Durgwada), Regi.No.754 F 841.
- Indian Farmers Agrobiotech Association, Amravati.

Executive Member:

- Indian Aerobiological Society, Kolkata.
- Gramin Vikas Shikshan Sanstha Pardi (Devi), Dist.Amravati Regi. No.9036.
- Secretary, IFAA, Amravati.

Editorial Board Member:

- Editor in Chief : Journal of Botanical Research
- Member : Indian Journal of Aerobiology
- Member : International Journal of Bioinformatics
- Member : International Journal of Biotechnology Research
- Councilor : International Journal of Plant Reproductive Biology

Memberships on Statutory Bodies/Committees:

- **Member**, Exhibition Committee, Ashwamegh-2003, VII Maharashtra State inter-University Sports Meet (2003).
- **Member**, Academic Service Unit, Sant Gadge Baba Amravati University, Amravati (2005-11).
- **Member**, Board of University Teaching and Research Committee, Sant Gadge Baba Amravati University, Amravati (2005-09 and 2011 onwards).
- **Member**, Research Recognition Committee, Sant Gadge Baba Amravati University, Amravati (2007).
- **Member**, Board of Studies in Subject Botany, Sant Gadge Baba Amravati University, Amravati (2005-09 and 2011 onwards).
- **Member**, Board of Studies in Subject Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (From 2011 onwards for five years).
- **Coordinator**, IQAC, Sant Gadge Baba Amravati University, Amravati (2005-07).
- **Coordinator**, NSD-06, Sant Gadge Baba Amravati University, Amravati (2006).
- **Chairman**, Subject Examination Committee in Subject Botany, Sant Gadge Baba Amravati University, Amravati (2006, 07 and 08).
- **Chairman**, Subject Examination Committee in Subject Environmental Science, Sant Gadge Baba Amravati University, Amravati (2006,07 and 08).
- **Co-ordinator**, Avishkar 2006, Research Festival. Sant Gadge Baba Amravati University, Amravati (2006).
- **Convener**, Science and Tech. Exhibition, NSD- 07, Sant Gadge Baba Amravati University, Amravati (2007).
- **Subject Co-ordinator** M.Phil. (Botany) (2008-2009).
- **Member**, Local Project Advisory Committee DST project (2009).
- **Member**, Science and Technology exhibition, NSD-08.
- **Member**, XIth Plan Presentation Committee (2008-2009).
- **Member**, Secretary, University Academic Audit (2009-2010).
- **Chairman**, Science and Technology exhibition, NSD-10.
- **Chairman**, Subject Examination Committee for M.Phil., Botany (2009).

- **Convener**, Project related to S&T, NSD 2010.
- **Member**, Local Project Advisory Committee, DST project (2009-10).
- **Chairman**, NAAC subcommittee for Criteria VII Innovative Practices (2009-10).