



**Name: CHINCHANIKAR GANESH SHRIDHAR**

Qualification: **M.Sc., Ph.D.**

Designation: **Professor of Botany, Department of Botany, University of Pune.**

- A) Areas of Teaching and Research: **Developmental Botany, Phytodiversity, PBT**  
B) Research Guidance: **Developmental Botany, Phytodiversity, PBT**  
No. of students guided/ guiding: 8 **PhD**, 4 **M. Phil**, and 35 **M.Sc. Projects**  
C) Publications: 16 publications  
D) Research Projects carried out / on going: 7 [funded by UGC - 4, DBT (NBDB) - 1, DST - 1, UoP - 1, GMDC - 1] Co-ordinator UGC ASIST  
E) Developed protocols for micropropagation of tree species and medicinally important plants with commercial potential.  
F) Seminars: **Attended as participant / Resource person in 39 state/ national / international seminars.**  
G) Conferences: **Attended as participant / Resource person in 11 state/ national conferences.**  
H) Symposia: **Attended as participant / Resource person in 7 state/ national symposia.**  
I) Workshops: **Attended as participant / Resource person in 37 state/ national / international workshops.**  
J) Resource Person for 18 state/ national level Summer Institute, Refresher Courses, Training Programmes  
K) Co-ordinated 4 Refresher Courses.

L) Teaching Experience: **35 Years**

**M) Innovations / Contribution in Teaching:**

- (a) **Design of curriculum :**  
B.Sc. Botany ,M.Sc. Botany ,M. Phil. Botany ,M.Sc. Biotechnology, Certificate Course in Plant Tissue Culture,Certificate Course in Gardening , Credit System Courses (Credit) Botany, M.Sc. Biotechnology. 5 years integrated course. IBB,Laboratory exercises.  
(b) **Laboratory experiments:** designed new laboratory experiments and developed protocols for the experiments in Developmental Botany, Plant tissue culture systematics. Plant Cell Biology, Histochemistry and Cytochemistry.  
(c) **Preparation of Resource Material:**  
Audio tapes on topics in botany,Laboratory manual for experiments in Plant Tissue Culture ,Protocols for Experiments in Botany. Developmental Botany,Plant Tissue Culture: Plant Cell Biology, Histochemistry Cytochemistry, Laboratory materials – micropreparations , Audio visual film on the Plant Cell for Yashwantrao Chavan Open University, Audio visual film on Plant Tissue Culture, EMRC, Pune. Laboratory protocols for characterization and standardization of crude drugs, Overhead projector and slide projector transparencies.

**N) Positions Held:**

- i. Member of working group for establishing 'Science and Technology Park' on PU Campus 1986 to 1989.
- ii. Member of the group of formulating objectives and participation of University departments – Memorandum of Association and Rules & Regulations of Society for Science and Technology Park.
- iii. Chairman, PG Students' Welfare Committee.
- iv. Cultural coordinator AIU-Inter University Youth Festivals.
- v. Contingent In-charge Pune University Youth Festival.

**O) Participation in Corporate Life:**

- A] Planning, designing and developing of Botanical Garden – Herbarium Plant Tissue Culture laboratory, students' (Dept.) Library, Department of Botany, Pune University; Assistance to HOD, as a member of Departmental Committee and Subcommittee.Revision of B.Sc., M.Sc., M.Phil. Syllabi.  
B] As a member of Task Group and Advisory Committee for establishment and activities of 'Center for Performing Arts' on the campus.  
Subsequently as a member of Adhoc Board of Studies in Performing Arts I participated in framing syllabi for performing Arts.  
As a coordinator of CPA (additional charge) (1989-1995). I developed the center with adequate infrastructural facilities and introduced novel short term programmes such as workshops by eminent artists for teachers and students, lecture demonstrations, Demonstration discussions.

**As a coordinator I proposed and started post graduate courses in Performing Arts.**

- a. Co-curricular Activities –

- i. Coordinated and led the students' groups for Purushottam Karandak, Youth Festival, Firodiya Karandak and other cultural activities.
- ii. Botany Club – Lectures exhibitions, wall papers on topics of plant sciences.
- b. Enrichment of campus life – As one of the founder members of the Arts Circle MUDRA, on the campus, organized and promoted performing arts activities on campus by active participation (1983-1986).
- c. Students' Welfare – Coordinated the activities of students' welfare as a Chairman and Member, PG Students' Welfare Committee.

P)

**Membership:**

- \*Member, Indian Society of Developmental Biologists.
- \*Member, Indian Drug Research Association and Laboratory.
- \*Member, International Society of Plant Morphologists, New Delhi.
- \* Member, IAAT India
- \*Member, Vidyalaya Management Committee, KV Ganeshkhind.
- \*Member, PUTF.
- \*Member Syllabus revision committee Botany (UoP)
- \*Member Syllabus revision committee Biotechnology (UoP)
- Editorship – Biologia Indica.
- Member, Board of studies in Botany, University of Pune, 1989-92.
- Member, Faculty of Science, University of Pune, 1989-92.
- Member, Academic Council, University of Pune, 1991-94.
- Member, BOS (Adhoc) in Performing Arts, University of Pune, 1989-94.
- Member, Faculty of Arts and Fine Arts, University of Pune, 1989-94.

**Q) Other contributions:**

Gave consultancy for designing and erecting Plant Tissue Culture Laboratory to SYNTHOZYME, Jalgaon and INDUS BIOTECH, Pune.

Involved as a consultant for setting up and functioning of PTC laboratories at:

- ❖ Jawaharlal Nehru Ayurvedic Medicinal Plants' Garden and Herbarium, Kothrud, Pune.
- ❖ Central Potato Research Station, Rajgurunagar, Pune.

Involved as a resource person for imparting instructions to Research Officer at JNAMP & G, Kothrud, in Plant Tissue Culture Techniques.

Gave training to students working at National Chemical Laboratory under the project "Somatic embryogenesis, encapsulation & clonal propagation in rice" in the area of plant histology.

Consultancy & practical training to scientist I of NARP, Ganeshkhind, Pune.

Sci-Tech Presentations on Plant Tissue Culture tools for mass production of timber and medicinal plants at Maratha Chamber of Commerce Industries and Agriculture (MCCIA) on 20<sup>th</sup> September, 2001

Contributed to:

- Dictionary of Biological Terms (English to Marathi): Revised Edition. Jeevshastra Paribhasha Kosh
- Directorate of Languages, Government of Maharashtra.
- Gazetteer – Botany and Flora of Maharashtra – Revised Marathi Version.
- Maharashtra Wanaspatishastra aani Wanasampada.
- Gazetteers Department, Government of Maharashtra.
- Consultant for Medicinal herbs project related to medicinal herb cultivation, Janakidevi Bajaj Gram Vikas Sanstha, Pune, 35. September 2000 onwards.
- Reviewed the "Farmers' Manual for Medicinal Plants" by Dr. Bhapkar, Dr. Nawale and Dr. Deokar for JBGVS, Pune-35.
- Contributed as senior advisory editor for "Fertilizer Encyclopedia" (AGovernment of India Project), Chief editor – Dr. Vasant Gowarikar.
- At present engaged in writing Gazetteer – Timber Plants of Maharashtra
- Associated with NCSTC-NETWORK (DST), Maharashtra Chapter in Capacity of: Resource person/Judge for project presentations at state and national level, as a resource person for science teachers.
- Resource person and supervisor for the students of Exploratory, B.Sc. (vocational) Biotechnology. PICC
- Expert member and Member of Monitoring Committee for Rajeev Gandhi Science and Technology Commission project Entitled "Digitized inventory of Medicinal plant resources of Maharashtra. 2008 onwards.
- Member, R&R Committee, Dr. D Y Patil Biotechnology and Bioinformatics Institute, Pune, 2008-2011
- Appointed as a member of Governing Body of Indian Drug Research Association, Shivajinagar, Pune 411007 on 10th October 2010.
- Member of Expert committee of University of Pune for reviewing and revision of UG and PG SYLLABI in BOTANY and BIOTECHNOLOGY – 2007- 08
- Assistant director, Central Assessment Programme, PG Science subjects, University of Pune. October-November and April-May Examination

**INVITED Resource Person to:**

- Keynote address at UGC sponsored Seminar on Role of Biotechnology for Mankind. Topic – Biotechnology for Conservation of Natural Resources on 5<sup>th</sup> January 2006. organized by Walchand College of Arts & Science, Solapur

- Resource person - refresher course in Life Sciences. 17<sup>th</sup> January – 6<sup>th</sup> February 2006
- Resource person for seminar on Vision 2025 – Ayurved at Department of Ayurved, university of Pune, organized by Department of Ayurved, university of Pune and Dabur India Ltd. Topic – Ayurved Vision 2025 – Raw Plant Materials. On 25<sup>th</sup> February 2006
- National seminar on Molecular and biochemical characterization of Plant diversity with special reference to Secondary Metabolites at Department of Botany, University of Pune on 28<sup>th</sup> March 2006
- Resource person for Vacation Training Programme (DBT) organized by Department of Environmental Sciences, UoP. Topic – Botanical gardens for *ex situ* conservation on 9<sup>th</sup> May 2006
- Resource person for SET workshop in Life Science (22<sup>nd</sup> May to 27<sup>th</sup> May 2006) at Department of Botany, University of Pune
- Reviewer and subsequent co-author of "Maharashtra State Gazetteer (2006). Botany & Flora of Maharashtra (Marathi), Department of Gazetteer, Government of Maharashtra.
- Contributed as an expert for initiating a Pilot project on Environmental Education (focusing on water) at ARI, Pune. 3<sup>rd</sup> May 2006
- Resource person - refresher course in Life Sciences. Recent advances in Experimental Biology. 7-27 September 2006. ASC, UoP
- Resource person & Chair-person - XVI Annual Conference of Indian Association for Angiosperm Taxonomy and International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy (4-6 October 2006) at ARI, Pune
- Attended & participated in Quality Parameters for Ayurvedic Drugs – State Level seminar at IDRA & L, Pune (7-8 October 2006)
- Academic interaction session with staff and students of Biotechnology Department, Padmashree Dr. DY Patil Arts, Commerce & Science College, Pimpri, Pune. December 2006
- Resource person - Workshop on Recent Trends in Biotechnology, under Quality Improvement Programme, UoP. 17-18 January 2007. Modern College of Arts, Science and Commerce, Ganeshkhind
- Resource person for Workshop on Biotechnology syllabus (Quality Improvement Programme UoP) (16-17 February 2007) at Modern College of Arts, Science and Commerce Shivajinagar, Pune
- Member Organizing Committee and Editorial Committee for National Seminar on Current Trends in Plant Bioresource Utilization (February 26-27, 2007) UGC, UoP at Department of Botany, University of Pune.
- Expert guidance for Ayusoft Project at Department of Ayurveda, University of Pune, Pune.
- Guest Lecture at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune for B.Sc./ M.Sc. (Biotechnology) students
- Guest Lecture at Modern College of Arts, Science and Commerce, Shivajinagar, Pune for B.Sc./ M.Sc. (Biotechnology) students
- Concluding address for BiotechFest 2007- A State level oral research paper and poster presentation, Department of Biotechnology, Modern College of Arts, Science and Commerce Shivajinagar, Pune
- Contributory guest faculty for B.Sc./ M.Sc. Biotechnology at Fergusson College, 2007-2008
- Resource person for PICC – Science Promotion Programme for the projects "*In vitro* multiplication of *Eulophia nuda* Lindl., a medicinal orchid, using immature inflorescence axis and immature capsule" and "*In vitro* multiplication of *Eulophia nuda* Lindl., a medicinal orchid, using tubers". 2007 and 2008
- Member of Expert committee of University of Pune for revision of UG and PG SYLLABI in BOTANY and BIOTECHNOLOGY – 2007- 08
- Expert member and Member of Monitoring Committee for Rajeev Gandhi Science and Technology Commission project Entitled "Digitized inventory of Medicinal plant resources of Maharashtra.2008 onwards.
- Guest faculty – B. Sc Biotechnology Fergusson College Pune-411004 at 18<sup>th</sup> August 2007
- Co-ordinator Remedial coaching programme at Department of Botany, university of Pune, January 2008
- Resource person at Modern College of Arts, Science and Commerce, Shivajinagar, Pune. Under Quality Improvement Programme, UoP. Topic – Plant science in context of Plant Biotechnology today on 1<sup>st</sup> February 2008
- Guest lecture at Dr. D.Y. Patil Arts, Science and Commerce College Pimpri Pune 18 under Quality Improvement Programme, UoP. Topic – Differentiation, Competence and Plasticity on 8<sup>th</sup> February 2008.
- Guest lecture – at Dr. D.Y. Patil Arts Commerce, and Science college Akurdi topic- Differentiation, competence and plasticity on 22<sup>nd</sup> Feb. 2008 under Quality Improvement Programme, UoP.
- Seminar attended at Department of Botany, University of Pune, Pune. Seminar on Emerging Trends in Biodiversity Management on 3<sup>rd</sup> – 4<sup>th</sup> March 2008
- Chairman Technical session – I Dr. D.Y. Patil Biotechnology and Bioinformatics Institute- Biotechnology and Bioinformatics Industry Academic Linkage meet 6<sup>th</sup> March 2008
- Guest lecture at Department of Microbiology, University of Pune. Saturday Meet lecture on "Conservation biotechnology" on 19<sup>th</sup> April 2008
- Project Guide for Summer Training for UG Biotechnology student for the project on Techniques of Plant Tissue Culture, for the Student from Ahmednagar, College, Ahmednagar. May-June 2008
- Guest Lecture at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune for B.Sc./ M.Sc. (Biotechnology) students
- Guest Lecture at Modern College of Arts, Science and Commerce, Shivajinagar, Pune for B.Sc./ M.Sc. (Biotechnology) students
- Member, R&R Committee, Dr. D Y Patil Biotechnology and Bioinformatics Institute, Pune, 2008-2011

- Project Guide for Science Talent Search Competition (Dr. Homi Bhabha Bal Vaidnyanik) 2007-2008 for the project on "Collecting the Natural World - Herbarium"
- Expert – Panelist for brain storming workshop on Medicinal plant of Maharashtra. 2008 RGSTC and ARI Pune
- Resource person – Revised syllabus of F.Y.B.Sc Botany – Theory at H.V. Desai College of Commerce, Arts, and Science Pune- 411002. on 26<sup>th</sup> July 2008
- Invited lecture at University of Mumbai, Relevance and Importance of Gazetteers for Contemporary Research and History". Topic - "Gazetteers and Flora" August 2008.
- Guest lecture at New Arts, Commerce & Science College, Ahmednagar. Topic – Plant Biotechnology on September 2008
- Resource person for Workshop on revised syllabus of M. Sc I (Biotechnology), and Chairman for the session on subject wise discussion for semester -II at Modern College of Arts, Science and Commerce Ganeshkhind Pune, Pune-411007. On 5<sup>th</sup> Sept. 2008
- Invited lecture at Re-Orientation Programme (September 2008) at RRI (JNAMP&H), Pune Department of AYUSH, Govt. of India, Topic - "Pharmacognosy – Retrospect and Prospect" September 20, 2008
- Resource person – Workshop on Revised Syllabus for F.Y. B Sc Biotechnology – Fergusson College Pune-411004. on 4<sup>th</sup> October 2008
- Contributed to XVIII Annual Conference of Indian Association for Angiosperm Taxonomy and International Seminar on Multidisciplinary Approaches in Angiosperm Systematics (11-13 October 2008). Co-authored – "Numerical Plant Accession Code system based on Bentham & Hooker's Classification of Seed Plants." (Presented by: Ms. Smita Puneekar)
- Invited lecture at Re Orientation Training Programme (ROTP) Sponsored by Department of AYUSH, Ministry of Health and Family welfare Govt. of India. conducted by Tilak Ayurved Mahavidyalaya, Topic – "Macroscopic & Microscopic Authentication of Powdered Drugs" Pune, 16/10/2008
- Invited lecture at Fergusson College, Pune for M.Sc. students. Topic – i) *In vitro* embryogenesis, ii) Somaclonal variations, iii) Tissue Culture studies in algae and bryophytes on 18<sup>th</sup> October 2008
- Guest Lecture at HPT Arts & RYK Science College, Nashik. Topic – Application of Tissue Culture in Agrobiotechnology on 25<sup>th</sup> October 2008
- Resource person (faculty) under RoTP (Dravyaguna) at PDEA's College of Ayurved & Research Centre, Nigdi Pradhikaran, Pune on 24<sup>th</sup> – 29<sup>th</sup> November 2008 Topics- 1) "Demonstration on specimen preservation Techniques and Preparation of Herbarium" on 26<sup>th</sup> Nov. 2008 2) Demonstration of Macroscopic and Microscopic authentication of Power Drug" 27<sup>th</sup> Nov 2008
- Invited lecture at P.D.E. Association's Annasaheb Magar Mahavidyalaya, under "Quality Improvement Program", Topic "Botany to Plant Science to Plant Biotechnology" 27<sup>th</sup> December 2008.
- Member of Expert committee of University of Pune for revision of UG and PG SYLLABI in BOTANY and BIOTECHNOLOGY – 2008- 09
- Invited lecture at Modern College Shivajinagar, Pune, under quality improvement Program, UoP, Topic - Carrier opportunities in Botany 30<sup>th</sup> January 2009.
- Participated as resource person at N. Wadia College Pune for Workshop on "Restructuring of S Y B Sc Botany Theory Syllabus on 24<sup>th</sup> Jan 2009. Subject : Plant Systematics
- Participated as resource person at K.T.H.M College Nasik for Workshop on "Reconstruction of S Y B Sc Botany Theory Syllabus" on 9<sup>th</sup> Feb 2009
- Resource person at HPT Arts & RYK Science College, Nashik. For Students as well as teachers. Topic – Project work for life science student and scientific report writing on 9<sup>th</sup> February 2009
- Resource person – for a workshop with the theme "Research: Concept to Completion" for M. Sc students in Life Science Subjects at KTHM College Nasik on 7<sup>th</sup> March 2009.
- Guest Lecture at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune for B.Sc./ M.Sc. (Biotechnology) students
- Guest Lecture at Modern College of Arts, Science and Commerce, Shivajinagar, Pune for B.Sc./ M.Sc. (Biotechnology) students
- Resource person for UGC, CSIR SET, NET Orientation Workshop Department of Botany, University of Pune , Pune 411007. 6-12 July 2009
- Participated as resource person for Workshop implementation of revised syllabus (Practical for S.Y.B.Sc Botany- Plant Systematics) Abasaheb Garware College, Karve Road, Pune-411004. on 11 July 2009
- Resource person for Workshop on Revised syllabus of S.Y.B.Sc. (Biotechnology), Modern College of Arts, Science & Commerce, Shivajinagar, Pune on 4<sup>th</sup> December 2009.
- Resource person for Workshop on syllabus for practicals for S.Y.B.Sc. & T.Y.B.Sc. (Biotechnology), Abasaheb Garware College, Karve Road, Pune-411004 on 10<sup>th</sup> December 2009.
- Seminar on Plant Secondary Metabolite Production – Emerging Technologies, Department of Botany, university of Pune, 8-9 January 2010.
- Invited for the lecture on Agricultural Biotechnology at Modern College of Arts, Science & Commerce, Ganeshkhind, Pune on February, 2010.
- Resource person for workshop on Modern Techniques in Biology (Botany, Zoology, Biotechnology Departments) Department of Botany, university of Pune, 15-25 February, 2010
- Resource person for Histochemical & Cytochemical Techniques in the seminar on "Tools & Techniques", Department of Botany, University of Pune , Pune 411007 on 25<sup>th</sup> & 26<sup>th</sup> March 2010
- Resource person for seminar on "Tools & Techniques", Department of Botany, University of Pune , Pune 411007 on 30<sup>th</sup> March 2010
- Member, Monitoring Committee (Expert Panel) Rajiv Gandhi Science & Technology Commission funded project "Digitized Inventory of Medicinal Plant resources of Maharashtra", ARI, Pune