

BIODATA

I. Personal Details

1. Name: Dr. Rajaram Vithoba Gurav

2. Residential Address:

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3. Address for Correspondence:

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4. Date of Birth : May 10, 1971.

5. Nationality : Indian

6. Qualification: M. Sc., B. Ed., SET, Ph. D., FIAAT.

II. Academic Details:

| Examination | Board/ University | Month & Year of Passing | Marks Obtained (%) | Class/ Grade |
|--|---------------------------------------|-------------------------|--------------------|--------------|
| S. S. C. | Pune Board | March, 1987 | 62.85 | First |
| H. S. C. | Pune Board | March, 1990 | 57.33 | Second |
| B. Sc. (Botany) | Shivaji University | April, 1993 | 62.64 | First |
| M. Sc. (Cytogenetics & Plant Breeding) | Shivaji University | April, 1996 | 60.00 | First |
| B. Ed. | Shivaji University | April, 1997 | 60.20 | First (A) |
| SET | Pune University | January, 1998 | ----- | Qualified |
| Ph. D. | Shivaji University | February, 2008 | ----- | Declared |
| FIAAT | Indian Assoc. for Angiosperm Taxonomy | Nov. 2014 | ----- | ----- |

III. Research Specialization: Cytogenetics and Plant Breeding; Biodiversity conservation and Plant tissue culture.

Topic of Ph. D.: Studies in Orchids from Western Ghats.

Prize: 3rd prize in Dr. G.V. Joshi Memorial Seminar Competition, 1996.

IV. Teaching Experience:

Under Graduate:

| Sr. No | Institution | Position held | Nature of Appointment | Subject Taught | | Period of Appointment |
|--------|--|---------------|-----------------------|----------------|---------|--------------------------------|
| | | | | Special | General | |
| 1 | Arts, Commerce and Science College, Chandgad, Dist.-Kolhapur | Lecturer | Temporary | ----- | Botany | 22-06-1998 To 05-09-1998 |

1. Post-Graduate:

| Institution | Position held | Nature of Appointment | Subject Taught | | Period of Appointment |
|---|----------------------|-----------------------|---|----------------------------|-----------------------------|
| | | | Special | General | |
| Dept. Botany, Shivaji University, Kolhapur. | Lecturer (Full Time) | Temporary | i) Cytogenetics & Plant Breeding. ii) Angiosperm Taxonomy, iii) Mycology & Plant Pathology. iv) Plant Biotechnology. | ----- | 07-09-1998 To 20-04-1999 |
| | | | | | 05-08-1999 To 30-04-2000 |
| | | | | | 29-06-2000 To 30-04-2001 |
| | | | | | 10-08-2001 To 30-04-2002 |
| | | | | | 04-07-2002 To 26-04-2006 |
| | | Permanent | ----,,---- | 27-04-2006 To This date | |

2. Inter-disciplinary Subjects:

| Institution | Position held | Nature of Appointment | Subject Taught | Period of Appointment |
|---|---------------|-----------------------|---|-----------------------|
| Dept. of Sericulture, Shivaji University, Kolhapur. | Lecturer | Contributory | Biochemistry | 1998-1999 |
| | | | | 1999-2000 |
| | | | | 2000-2001 |
| Dept. of Biotechnology, Shivaji University, Kolhapur. | Lecturer | Contributory | Tissue culture, Gene transfer techniques, Recombinant DNA technology. | 2004-2005 |
| | | | | 2005-2006 |

V. Training/ Seminar/ Symposium/ Conference/ Workshop/ etc. Attended:

| Sr. No | Course/ Seminar/ etc. | Organizing Institute and Place | Sponsored by | Date | Paper Presented Yes/No |
|--------|--|--|---------------------------------------|---|--------------------------|
| 1 | Course of Instruction in First Aid to the Injured | St. John Ambulance Association, Thane | St. John Ambulance Association, Thane | 11/01/1987 24/12/1989 03/01/1993 18/06/1995 | ----- |
| 2 | Genes and Politics: A Lecture by Nobel Laureate- J. D. Watson | TIFR, Mumbai | TIFR, Mumbai | 24/11/1997 | ----- |
| 3 | Herbarium Conservation Techniques (Training Course) | FRI, Dehradun | UNESCO | 16/03/2001 to 28/03/2001 | ----- |
| 4 | Orchid Diversity of India (National Seminar) | IHBT, Palampur (HP) | DBT, CSIR, DST, N. Delhi | 11/10/2001 to 14/10/2001 | Yes |
| 5 | Biodiversity Conservation (Training Course) | FRI, Dehradun | ---- | 03/02/2002 to 08/02/2002 | ----- |
| 6 | Human Genetics (Workshop) | RCSM Govt. Medical College, Kolhapur. | Indian Council of Medical Research | 11/10/2002 and 12/10/2002 | ----- |
| 7 | Patent Awareness (Workshop) | Shivaji University, Kolhapur | DST, New Delhi | 13/12/2002 | ----- |
| 9 | Flower Exhibition | Agriculture Dept Govt. of Maharashtra | Govt. of Maharashtra | 21/10/2003 and 22/10/2003 | Photographs presented |
| 10 | Refresher Course in Environmental Science | Pune University, Pune | UGC | 01/12/2003 to 21/12/2003 | ----- |
| 11 | Botany and Industry (State Level Seminar) | Dept. of Botany, Shivaji Uni. Kolhapur | Shivaji University | 21/02/2004 | Yes |
| 12 | Modern Techniques in Genome Analysis (Training Programme) | Dept. of Botany, Andhra Uni., Visakhapatnam | ---- | 02/03/2004 to 06/03/2004 | ----- |
| 13 | Bioinformatics (National Workshop) | Dept. of Genetics, Osmania Uni., Hyderabad | ---- | 01/11/2004 to 23/11/2004 | ----- |
| 14 | Bioinformatics (Seminar) | Dept. of Botany, Shivaji University, Kolhapur. | ----- | 30/11/2004 | Two lead lectures |
| 15 | The Wetlands (National Seminar) | Dept. of Botany, Shivaji University, Kolhapur. | ----- | 02/02/2005 | ----- |
| 16 | 16 th Annual Conference of IAAT and International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy | Agharkar Research Institute, Pune | ----- | 4 th to 6 th October 2006 | Yes |
| 17 | 17 th Annual Conference of IAAT and International Seminar on Changing scenario in Angiosperm Systematics | Shivaji University, Kolhapur | ----- | 19 th to 21 st November 2007. | Yes |

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|----|--|---|--|--|-----------------|
| 18 | Orientation Course | North-Eastern Hill University, Shillong | UGC | 26 th February to 26 th March 2008 | Yes |
| 19 | National seminar on Environmental Assets and Threats | R. B. Madkholkar College, Chandgad | UGC | 16 th and 17 th March 2009 | Lead Lecture |
| 20 | 19 th Annual Conference of IAAT and International Symposium on Angiosperm Systematics and Phylogeny: Retrospect and Prospect | National Botanical Research Institute, Lucknow | CSIR | 12 th to 14 th November 2009 | Yes |
| 21 | One day state level workshop on NET/SET Examination Guidance | Y. C. Institute of Science, Satara (MS) | ----- | 14 th April 2010 | Lead Lecture |
| 22 | 11 th International conference of International Organization of Plant Biosystematists on Evolution of plants from tropical to high mountain ecosystems: Focus on Asia | Dr. B. A. M. U., Aurangabad | UGC, IAPT, DST, etc. | 2 nd to 4 th September 2010 | No |
| 23 | 33 rd Conference of Indian Botanical Society and International symposium on the New Horizons of Botany | Shivaji University, Kolhapur | UGC, CSIR, DST, etc. | 10 th to 12 th November 2010 | No |
| 24 | 20 th Annual Conference of IAAT and International Symposium on Taxonomy, Plant Diversity and Conservation | Bharthiar University, Coimbatore | ----- | 26 th to 28 th November 2010 | Yes |
| 25 | INSPIRE CAMP- 2010-11 | New Arts, Commerce and Science College, Shevgaon, Dist.- Ahmednagar | DST | 20 th to 24 th January 2011 | Lead Lecture |
| 26 | Lead College Workshop | Y. C. Warana College, Warananagar | Shivaji University | 2 nd February 2011 | Lead Lecture |
| 27 | National conference on Live Demonstration of Medicinal Plants. | Port Blair, Andaman | ----- | 4 th to 9 th February 2011 | Lead Lecture |
| 28 | Lead College Workshop | K. W. College, Sangali | Shivaji University | 13 th February 2011 | Lead Lecture |
| 29 | Conservation and Cultivation of Traditional Medicinal Plants | R. B. Madkholkar College, Chandgad | ----- | 17 th and 18 th February 2011 | Chaired session |
| 30 | National Science Day | Adarsh Gurukul Vidyalaya and Jr. college, Peth Vadgaon | ----- | 28 th February 2011 | Guest Lecture |
| 31 | Recent advances in research on RET species of Western Ghats | Dept. of Botany, Shivaji University | Dept. of Forests, Govt. of Maharashtra | 12 th January 2012 | Lead Lecture |
| 32 | Refresher Course | University of Jammu, Jammu, J&K | UGC | 15 th February to 6 th March 2012 | Yes |
| 33 | Workshop on Research Writings, Ethics, Plagiarism and Publishability | IQUAC, Shivaji University, Kolhapur | Shivaji University, Kolhapur | 26 th and 27 th July 2012 | ----- |
| 34 | Outcome Based Modular Syllabus | IQUAC, Shivaji University, Kolhapur | Shivaji University, Kolhapur | 6 th August 2014 | ----- |

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|----|---|--|---------------------|--|-----------------|
| 35 | Identification of RET mangrove species | Department of Botany, Shivaji University, Kolhapur | Forest Department | 22 nd – 24 th July 2014 | Yes |
| 36 | One day teachers workshop on Revised syllabus of botany for B. Sc.-III paper XIII to XVI | Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji | | 23 rd September 2015 | Resource person |
| 37 | State level workshop on Anukta Dravya | Ankur charitable Association, Kolhapur At. Kalase, Malvan | | 23 rd and 24 th October 2015 | No |
| 38 | Silver jubilee conference of IAAT and Council meeting of IAPT and International seminar on Advancements in Systematics and Conservation | Department of Botany, University of Calicut, Kerala | | 19 th to 21 st November 2015 | Yes |
| 39 | One day seminar on The role of student and teachers in conservation of biodiversity | Department of Botany, Shivaji University, Kolhapur | UGC | 30 th January 2016 | Chaired session |
| 40 | Workshop on Environment studies | Matoshree Bayabai Kadam Kanya Mahavidyalaya, Kadegoan | | 23 rd February 2016 | Lead lecture |
| 41 | One day workshop on plant Conservation through people's participation | Department of Botany, Shivaji University, Kolhapur | MoEF & CC | 14 th March 2016 | Chaired session |
| 42 | One day workshop on International day for biological diversity | Department of Botany, Shivaji University, Kolhapur | | 22 nd May 2016 | Resource person |
| 43 | XXVI Annual conference of IAAT and international seminar on conservation and sustainable utilization of biodiversity | Department of Botany, Shivaji University, Kolhapur | | 7 th to 9 th November 2016 | Yes |
| 44 | One day workshop on Maharashtra public university act 2016 | Shivaji University Post Graduate Teacher's Association, Kolhapur | | 6 th January 2017 | No |
| 45 | Science academies lecture workshop on Foundation lecture in biology | Department of Zoology and Environment Science, Shivaji University, Kolhapur | | 16 th to 18 th August 2017 | No |
| 46 | 27 th Annual conference of IAAT and symposium on plant systematics: Priorities and challenges | Department of Botany, University of Delhi | | 10 th to 12 th November 2017 | Yes |
| 47 | International symposium on Biodiversity of medicinal plants and orchids: Emerging trends and challenges | Department of Botany and microbiology, Acharya Nagarjuna University, Guntur (AP) | | 9 th to 11 th February 2018 | Invited Talk |
| 48 | Workshop on functioning of authorities | Shivaji University, Kolhapur | | 5 th April 2018 | ----- |
| 49 | Value added course on commercialization of important plants through tissue culture | Department of Botany, Shivaji University, Kolhapur | DST-PURSE, PHASE-II | 4 th to 10 th July 2018 | Resource person |

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|----|---|--|--|--|-------|
| 50 | International mangrove day | Department of Botany, Shivaji University, Kolhapur | | 26 th July 2018 | ----- |
| 51 | XXVIII Annual conference of IAAT and international symposium on conservation of angiosperm diversity: Hidden treasure of today and tomorrow | Department of Botany, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat | | 29 th to 31 st Oct. 2018 | Yes |
| 52 | Training course on classical and modern methods in plant taxonomy and biosystematics | CSIR-National Botanical Research Institute, Lucknow | | 14 th to 21 st Dec. 2018 | ----- |
| 53 | National conference on Mangroves and coastal resources | Department of Botany, Shivaji University, Kolhapur, MSI, Goa and Mangrove Foundation, Mumbai | | 12 th April 2019 | Yes |

VI. Research Schemes / Projects:

| Sr. No | Title of Project / Scheme | Funding Agency | Funds received (Rs.) | Date of starting | Date of ending | Worked as PI / Co-I |
|--------|--|----------------------------|----------------------|----------------------------|------------------------------|------------------------|
| 1 | Digitized Inventory of Under Utilized Potential Ornamental Plants (National Programme) | DBT | 4,47,293/- | March 2001 | November 2003 | Team Member |
| 2 | Survey and Enumeration of flowering plants of Sulgaon, Kasar Kandgaon (Tal. Ajara) and Chirambe (Tal. Patan). | Govt. of Maharashtra | 25,000/- | April 2006 | March 2007 | Co-Investigator |
| 3 | Recovery of two critically endangered plant species of Western Ghats through the application of Biotechnological tools. (National Programme) | DBT | 61, 60,000/- | July 2006 | Dec. 2011 | Co-Investigator |
| 4 | Studies on <i>in vitro</i> development of gametophyte, cytology and phytochemistry of <i>Ophioglossum</i> . | UGC | 1,00,000/- | April 2008 | March 2010 | Co-Investigator |
| 5 | Improvement of Infrastructural facilities to develop Botanical Garden as Lead Garden (Phase I) | MoEF | 51,54,540/- | 1 st Sept. 2008 | 30 th August 2011 | Co-Investigator |
| 6 | Transplantation and/ or cutting of trees and new plantation along 13 road sides in Kolhapur city. (Consultancy) | IRB company | 5, 50,000/- | Jan. 2009 | Jun. 2010 | Principal Investigator |
| 7 | Digitized inventory of medicinal plant resources of Maharashtra | RGSTC | 23,70,410/- | July 2009 | June 2012 | Team Member |
| 8 | Recovery of RET species of <i>Ceropegia</i> from Western Ghats | DBT | 93,55,000/- | Jan. 2010 | Dec. 2014 | Co-Investigator |
| 9 | Establishment of Arboretum of Medicinally Important Species of Western Ghats | DPDC, Kolhapur | 20,00,000/- | April 2010 | March 2011 | Co-Investigator |
| 10 | Collection of germplasm, domestication and conservation of Indian Palms | ENVIS Govt. of Maharashtra | 30,00,000/- | April 2013 | March 2016 | Principal Investigator |

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|----|---|----------------------------------|-------------|---------------|---------------|------------------------------|
| 11 | Conservation of RET plant species from Western Ghats | ENVIS Govt. of Maharashtra | 30,00,000/- | April 2013 | March 2016 | Principal Investigator |
| 12 | Lead Garden Phase II | MoEF | 99,11,389/- | Nov. 2013 | Oct. 2018 | Co- Investigator |
| 13 | Baseline survey of flora and fauna around proposed nuclear power plant site at Jaitapur, Maharashtra | DAE-BRNS | 24,88,050/- | Dec. 2013 | March 2016 | Co-Principal Investigator |
| 14 | Survey of Production and consumption of Bamboos | Forest Dept. | 1, 30,000 | 2016 | 2018 | Principal Investigator |
| 15 | Conservation and development of Arboretum of RET and endemic tree species of Angiosperms of Western Ghats | RGSTC | 99,99,000/- | Jan. 2014 | Dec. 2019 | Principal Investigator |

VII: Experience of organizing Seminar/ Conference/ Workshop/ etc.

| No. | Title | Date | Funded by |
|-----|---|---------------------|--|
| 1 | 17 th Annual Conference of Indian Association for Angiosperm Taxonomy and International Seminar on Changing Scenario in Angiosperm Systematics | 19-21 Nov. 2007 | UGC, DST, DBT, ICAR, etc. |
| 2 | National workshop on “ <i>Ex-situ</i> plant conservation in Maharashtra” | 16/09/2009 | MoEF |
| 3 | Awareness programme on “Biodiversity Conservation” organized at Atpadi College, Atpadi, Dist. Sangli | 17/09/2010 | MoEF |
| 4 | Awareness programme on “Biodiversity Conservation” organized at R. B. M. College, Chandgad, Dist. Kolhapur | 25/09/2010 | MoEF |
| 5 | 33 rd Conference of Indian Botanical Society and International Symposium of the New Horizons of Botany | 10-12 Nov. 2010 | UGC, Earth Science Dept., DBT, DST, MoEF |
| 8 | Lead Garden Workshop, Y. C. Institute of Science, Satara | 23/08/2011 | MoEF |
| 9 | Workshop on Recent advances in research on RET species of Western Ghats | 12/01/2012 | Dept. of Forests, Govt. of Maharashtra |
| 10 | Workshop on Molecular Systematics | 2013 | --- |
| 11 | GIAN workshop on Evolutionary morphology of land plants | 18-25 Aug. 2016 | MHRD |
| 12 | XXVI Annual conference of IAAT and international seminar on conservation and sustainable utilization of biodiversity | 7 to 9 Nov. 2016 | --- |
| 13 | Workshop on Regional medicinal plants, their conservation and sustainable use | 18/3/2017 | ENVIS Govt. of Maharashtra |

VIII. Papers presented in Conferences:

1. **Gurav, R. V.** and Dixit, G. B. Multiplication of *Thunia venosa* Rolfe through *in vitro* germination of seeds. *6th National Seminar on the Orchid Diversity of India* at IHBT, Palampur (HP) on 11th to 14th Oct. 2001.
2. **Gurav, R. V.** and Dixit, G. B. Conservation of Orchids from Western Ghats of Maharashtra. *National Seminar on Advances in Forestry Education, Research and Extension* at Dr. B. Sawant K.K.V., Dapoli, Dist- Ratnagiri (MS) India on 28th & 29th March 2003.
3. **Gurav, R. V.** and Dixit, G. B. Orchids from Western Ghats of Maharashtra in Horticulture Industry. *State level seminar on Botany and Industry* at Department of Botany, Shivaji University, Kolhapur on 21st February 2004.
4. Kasarkar, A. R., Bhise, D. S., Desai, N. M., and **Gurav, R. V.** Ornamental Plant Industry in Kolhapur City: A Prospect for Botany Students. *State level seminar on Botany and Industry* at Department of Botany, Shivaji University, Kolhapur on 21st February 2004.
5. **Gurav, R. V.** and Dixit, G. B. Seed buoyancy and the distribution pattern in the orchids. *16th Annual Conference of IAAT and International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy* at Agharkar Research Institute, Pune from 4th to 6th October 2006.
6. **Gurav, R. V.** and Dixit, G. B. Adaptations in Orchids: New dimensions. *17th Annual Conference of IAAT and International Seminar on Changing scenario in Angiosperm Systematics* at Shivaji University, Kolhapur from 19th to 21st November 2007. (Abstract No. P2.10).
7. Shimpale, V. B. and **Gurav, R. V.** Biodiversity and floristic analysis of Jayanti nala in Kolhapur city, Maharashtra. *17th Annual Conference of IAAT and International Seminar on Changing scenario in Angiosperm Systematics* at Shivaji University, Kolhapur from 19th to 21st November 2007. (Abstract No. P3.29).
8. Chandore, A. N.; Kedage, V. V.; **Gurav, R. V.** and Yadav, S. R. Restoration of critically endangered and endemic plant, *Hubbardia heptaneuron* Bor. In Western Ghats. *17th Annual Conference of IAAT and International Seminar on Changing scenario in Angiosperm Systematics* at Shivaji University, Kolhapur from 19th to 21st November 2007.
9. Kedage, V. V.; Chandore, A. N.; **Gurav, R. V.** and Yadav, S. R. Regeneration of critically endangered, endemic plant, *Hubbardia heptaneuron* Bor through *in vitro* culture. *17th Annual Conference of IAAT and International Seminar on*

Changing scenario in Angiosperm Systematics at Shivaji University, Kolhapur from 19th to 21st November 2007.

10. Chandore, A. N., Nimbalkar, M. S., **Gurav, R. V.** and Yadav, S. R. Reintroduction of critically endangered species *Hubbardia heptaneuron* Bor in the Western Ghats. *19th Annual Conference of IAAT and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Prospects* at Shivaji National Botanical Research Institute, Lucknow from 12th to 14th November 2009.
11. **Gurav, R. V.** and Nandikar, M. D. Successful transplantation of trees: Phase- I. *19th Annual Conference of IAAT and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Prospects* at Shivaji National Botanical Research Institute, Lucknow from 12th to 14th November 2009.
12. Nandikar, M. D. and **Gurav, R. V.** Critical studies on systematics of *Murdannia lanuginosa* (Wall. Ex C. B. Cl.) Brueck (Commelinaceae). *19th Annual Conference of IAAT and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Prospects* at Shivaji National Botanical Research Institute, Lucknow from 12th to 14th November 2009.
13. Chandore A. N., Gund, S. M., **Gurav, R. V.** and Yadav, S. R. Reintroduction of *Ceropegia fantastica* Sedw., a critically endangered and endemic species in Western Ghats through biotechnological tools. *National Conference on Plant Biodiversity* at Y. C. Institute of Science, Satara (MS) India on 23rd and 24th April 2010.
14. Deshpande, S., Nalawade, A., Chavan, S. S., Dongare, M. M., **Gurav, R. V.** and Yadav, S. R. Nursery techniques for conservation of some endemic tree species of Western Ghats, India. *National Conference on Plant Biodiversity* at Y. C. Institute of Science, Satara (MS) India on 23rd and 24th April 2010.
15. Nandikar, M. D. and **Gurav, R. V.** Cladistic analysis of genus *Murdannia* Royle (Comelinaceae) of Western Ghats of India. *National Conference on Plant Biodiversity* at Y. C. Institute of Science, Satara (MS) India on 23rd and 24th April 2010.
16. Nandikar, M. D. and **Gurav, R. V.** Family Commelinaceae in India- Diversity and Threats. *20th Annual Conference of IAAT and International Symposium on Taxonomy, Plant Diversity and Conservation* at Bharthiar University, Coimbatore on 26th to 28th November 2010.
17. Chandore, A. N.; Gund, S. M.; Patil, S. M., **Gurav, R. V.** and Yadav, S. R. *20th Annual Conference of IAAT and International Symposium on Taxonomy, Plant*

Diversity and Conservation at Bharthiar University, Coimbatore on 26th to 28th November 2010.

18. Adsul A, Kamble S. S., Chavan J. J., Dixit G. B., **Gurav R. V.**, Gaikwad N. B. and Yadav S. R. Reintroduction and restoration of the *Ceropegia mohanramii* Yadav, Gavade et Sardesai: A critically endangered species of Western Ghats. *XXI Annual Conference of Indian Association for Angiosperm Taxonomy & National Seminar on Biodiversity Conservation and Climate Change* at Institute of Minerals and Materials Technology, Bhubaneshwar, Odisha on 2 – 4 December 2011.
19. Gund S. M., Chandore A. N., **Gurav R. V.** and Yadav S. R. Somaclonal variations in *in-vitro* regenerated *Ceropegia fantastica* Sedgw.: A critically endangered plant species of Western Ghats. *XXI Annual Conference of Indian Association for Angiosperm Taxonomy & National Seminar on Biodiversity Conservation and Climate Change* at Institute of Minerals and Materials Technology, Bhubaneshwar, Odisha on 2 – 4 December 2011.
20. Kamble S. S., Gaikwad N. B., **Gurav R. V.**, Dixit G. B., and Yadav S. R. Conservation and multiplication of medicinally important tree species of of Western Ghats. *XXI Annual Conference of Indian Association for Angiosperm Taxonomy & National Seminar on Biodiversity Conservation and Climate Change* at Institute of Minerals and Materials Technology, Bhubaneshwar, Odisha on 2 – 4 December 2011.
21. Dangat B. T., **Gurav R. V.** and Nandikar M. D. Hawkmoth pollination in *Habenaria longicorniculata* J. Grahm (Orchidaceae). *International symposium and XXII Annual conference of Indian Association for Angiosperms Taxonomy* at Department of Botany, Sant Gadge Baba Amravati University, Amravati on 28 – 30 October 2012.
22. Dangat B. T. and **Gurav R. V.** Flowering Phenology of Genus *Habenaria* Willd. from Western Ghats. *International conference on Biosciences with Special Reference to Environmental Issues, Department of Zoology, Shivaji University, Kolhapur* at Department of Zoology, Shivaji University, Kolhapur on 19 – 21 December 2013.
23. Shirur Dhananjay and **Gurav R. V.** Stomatal Studies in some species of genus *Ceropegia*. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research* at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.

24. **Gurav R. V.** and Nandikar M. D. The Commelinaceae of India: Diversity, Endemism and Geographic Distribution. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research* at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.
25. Nandikar M. D. and **Gurav R. V.** Systematic Studies on the Genus *Murdannia* (Commelinaceae) in India. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research* at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.
26. Desai M. T., Nalawade A. S., Gaikwad N. B., **Gurav R. V.**, Dixit G. B. and Yadav S. R. In vitro Propagation of *Ceropegia jainii* Ansari and B. G. Kulk., and *Ceropegia fimbriifera* Beddome Endangered, Endemic Plants from Western Ghats. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research* at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.
27. Desai M. T., Nalawade A. S., Gaikwad N. B., **Gurav R. V.**, Dixit G. B. and Yadav S. R. In Vitro propagation of *Ceropegia anjanerica* Malpure, Kamble and Yadav- A rare endemic plant from Maharashtra. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research* at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.
28. Desai V. R., Dangat B. T. and **Gurav R. V.** Diversity of labellum and Spur in genus *Habenaria* Willd. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research* at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.
29. Shinde A. A., Jagtap D. N., Dangat B. T. and **Gurav R. V.** Mineral analysis of *Averrhoa bilimbi* L. A Potential Fruit. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research* at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.
30. Shinde P. B., Dangat B. T. and **Gurav R. V.** Inorganic status of tubers of *Habenaria longicorniculata* J. Graham. *23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant*

Taxonomy Research at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 -29 December 2013.

31. Dangat B. T. and **Gurav R. V.** Pollination in *Habenaria foliosa* var. *foetida* (Blatt. & McCann) Bennet. 23rd Conference of Indian Association for Angiosperms Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research at Post Graduate Dept. of Botany, Rashtrasant Tukadoji Mhahraj Nagpur University, Nagpur on 27 – 29 December 2013.
32. Dangat B. T. and **Gurav R. V.** Karyotype analysis in *Habenaria longicornu* Lindl. 12th Conference of Society of Cytologists and Geneticists and National Symposium on Challenges for Biologists in 21st Century at Department of Botany, Shivaji University, Kolhapur on 22 – 24 December 2014.
33. Nalawade A. S. and **Gurav R. V.** Stomatal studies in genus *Chlorophytum* Ker Gawl. (Asparagaceae). 12th Conference of Society of Cytologists and Geneticists and National Symposium on Challenges for Biologists in 21st Century at Department of Botany, Shivaji University, Kolhapur on 22 – 24 December 2014.
34. Desai M. T., Nalawade A. S., Gaikwad N. B., **Gurav R. V.**, Dixit G. B. and Yadav S. R. Study of Micropropagation and *in vitro* flowering of *Ceropegia media*- A rare, endemic plant from Western Ghats. 12th Conference of Society of Cytologists and Geneticists and National Symposium on Challenges for Biologists in 21st Century at Department of Botany, Shivaji University, Kolhapur on 22 – 24 December 2014.
35. Mohite A. V. and **Gurav R. V.** Total Phenolic and Flavonoid contents and Antioxidant activity in two species and one form of *Abelmoschus* Medik. 12th Conference of Society of Cytologists and Geneticists and National Symposium on Challenges for Biologists in 21st Century at Department of Botany, Shivaji University, Kolhapur on 22 – 24 December 2014.
36. Dangat B. T. and **Gurav R. V.** Studies on seed morphometry of Genus *Habenaria* Willd. from Western Ghats. 24th Annual Conference of Indian Association for Angiosperms Taxonomy and International Conference on Trends in Plant Systematics at Department of Plant Sciences, Bharathidasan University, Tiruchirappalli on 31 October – 2 November 2014.

37. Gaikwad S. V. and **Gurav R. V.** Stomatal study in Genus *Mucuna* Adans. from India. 24th Annual Conference of Indian Association for Angiosperms Taxonomy and International Conference on Trends in Plant Systematics at Department of Plant Sciences, Bharathidasan University, Tiruchirappalli on 31 October – 2 November 2014.
38. Nalawade A. S. and **Gurav R. V.** Comparative seed morphology in Genus *Chlorophytum* Ker Gawl. 24th Annual Conference of Indian Association for Angiosperms Taxonomy and International Conference on Trends in Plant Systematics at Department of Plant Sciences, Bharathidasan University, Tiruchirappalli on 31 October – 2 November 2014.
39. Nalawade A. S. and **Gurav R. V.** Biomolecular analysis in Genus *Chlorophytum* Ker Gawl. by GCMS. 24th Annual Conference of Indian Association for Angiosperms Taxonomy and International Conference on Trends in Plant Systematics at Department of Plant Sciences, Bharathidasan University, Tiruchirappalli on 31 October – 2 November 2014.
40. Jadhav D. C., Giranje P. T., **Gurav R. V.** and Nandikar M. D. Spathe diversity and its taxonomic significance in the genus *Commelina* L. (Commelinaceae). Silver jubilee conference of IAAT and Council meeting of IAPT and International seminar on Advancements in Systematics and Conservation at Department of Botany, University of Calicut, Kerala on 19 to 21 November 2015.
41. Dangat B. T. and **Gurav R. V.** Genus *Habenaria* from Western Ghats. Silver jubilee conference of IAAT and Council meeting of IAPT and International seminar on Advancements in Systematics and Conservation at Department of Botany, University of Calicut, Kerala on 19 to 21 November 2015.
42. Gaikwad S. V., **Gurav R. V.** and Yadav S. R. Karyotype studies in two endemic *Mucuna* species (Fabaceae) from India. Silver jubilee conference of IAAT and Council meeting of IAPT and International seminar on Advancements in Systematics and Conservation at Department of Botany, University of Calicut, Kerala on 19 to 21 November 2015.
43. Dangat B. T. and **Gurav R. V.** Studies on pollination biology of some *Habenaria* species (Orchidaceae) from Western Ghats. Silver jubilee conference of IAAT and Council meeting of IAPT and International seminar on

Advancements in Systematics and Conservation at Department of Botany, University of Calicut, Kerala on 19 to 21 November 2015.

44. Gaikwad S. V., **Gurav R. V.** and Yadav S. R. Comparative fruit and seed morphology in some species of genus *Mucuna* (Fabaceae) from India. *Silver jubilee conference of IAAT and Council meeting of IAPT and International seminar on Advancements in Systematics and Conservation* at Department of Botany, University of Calicut, Kerala on 19 to 21 November 2015.
45. Nandikar M. D. and **Gurav R. V.** Family Commelinaceae in India: New taxa, interspecific taxa and new additions. *XXVI Annual conference of IAAT and International Seminar on Conservation and Sustainable Utilization of Biodiversity* at Department of Botany, Shivaji University, Kolhapur on 7 to 9 November 2016.
46. Dangat B. T. and **Gurav R. V.** Biology of genus *Habenaria* Willd. from Western Ghats. *XXVI Annual conference of IAAT and International Seminar on Conservation and Sustainable Utilization of Biodiversity* at Department of Botany, Shivaji University, Kolhapur on 7 to 9 November 2016.
47. Nandikar M. D. and **Gurav R. V.** The genus *Commelina* L. (Commelinaceae) in India. *XXVI Annual conference of IAAT and International Seminar on Conservation and Sustainable Utilization of Biodiversity* at Department of Botany, Shivaji University, Kolhapur on 7 to 9 November 2016.
48. Nalawade A. S. and **Gurav R. V.** Analysis of genetic diversity in genus *Chlorophytum* from India. *XXVI Annual conference of IAAT and International Seminar on Conservation and Sustainable Utilization of Biodiversity* at Department of Botany, Shivaji University, Kolhapur on 7 to 9 November 2016.
49. Nandikar M. D. and **Gurav R. V.** Use of capsule and seed morphology to key out the *Murdannia* species (commelinaceae). *XXVI Annual conference of IAAT and International Seminar on Conservation and Sustainable Utilization of Biodiversity* at Department of Botany, Shivaji University, Kolhapur on 7 to 9 November 2016.
50. Nandikar M. D., Kumbhalkar B. B. and **Gurav R. V.** GC-MS analysis of phytochemical compounds in the crude methanolic extract of roots of *Murdannia lanuginosa* and *M. simplex* (commelinaceae). *XXVI Annual conference of IAAT and International Seminar on Conservation and Sustainable Utilization of Biodiversity* at Department of Botany, Shivaji University, Kolhapur on 7 to 9 November 2016.

51. Wadkar S. S., Shete C. C., Inamdar F. R., Wadkar S. S., **Gurav R. V.**, Patil K. S. and Ghosh J. S. Phytochemical screening and antibacterial activity of *Cryptocoryne spiralis* var. *spiralis* and *Cryptocoryne retrospiralis* (Roxb) Kunth. *XXVI Annual conference of IAAT and International Seminar on Conservation and Sustainable Utilization of Biodiversity* at Department of Botany, Shivaji University, Kolhapur on 7 to 9 November 2016.
52. Nalawade A. S. and **Gurav R. V.** Proximate analysis and elemental composition of seventeen species of *Chlorophytum* from the Western Ghats. *27th Annual conference of IAAT and symposium on plant systematics: Priorities and challenges* at Department of Botany, University of Delhi on 10 to 12 November 2017.
53. Mohite A. V. and **Gurav R. V.** Total phenolics, flavonoids and antioxidant properties of five taxa of *Abelmoschus*. *27th Annual conference of IAAT and symposium on plant systematics: Priorities and challenges* at Department of Botany, University of Delhi on 10 to 12 November 2017.
54. Gaikwad S. V. and **Gurav R. V.** The cytological studies of *Mucuna laticifera* Ingalhalikar, Page & Gaikwad (Fabaceae): A new endemic species from Sikkim, North East India. *27th Annual conference of IAAT and symposium on plant systematics: Priorities and challenges* at Department of Botany, University of Delhi on 10 to 12 November 2017.
55. Gaikwad S. V. and **Gurav R. V.** Cytological studies in the genus *Mucuna* Adans. from India. *XXVIII Annual conference of IAAT and international symposium on conservation of angiosperm diversity: Hidden treasure of today and tomorrow* at Department of Botany, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat on 29 to 31 October 2018.
56. Ashwini V. Mohite and **Rajaram V. Gurav** Baseline vegetation survey of proposed power plant site at Jaitapur, Maharashtra. *National conference on Mangroves and Coastal Resources* on 12/ 04/2019.

IX. Research Publications:

1. **Gurav, R. V.** and Dixit, G. B. 2002. Multiplication of *Thunia venosa* Rolfe. Through *invitro* germination of seeds. *Orchid News- A News Letter of 'The Orchid Society of India'*, 18 (1-2): 12-13.
2. **Gurav, R. V.** and Dixit, G. B. 2004. Multiplication of Some Ornamental Orchids. In: *Orchids: Biodiversity and Conservation- a tissue culture approach* (Dr. S. John Britto, ed), Institute of Natural Resources, St. Joseph's College, Tiruchirappalli- 620 002 (TN) India. 58- 103. [Article in Book]

3. **Gurav, R. V.** and Dixit, G. B. 2004. Conservation of Orchids from Western Ghats of Maharashtra. *Bioinfolet* 1 (1-4):16- 18.
4. Yadav, S. R., Chandore, A. N., Nimbalkar, M. S. and **Gurav, R. V.** 2009. Reintroduction of *Hubbardia heptaneuron* Bor, a critically endangered endemic grass in Western Ghats. *Current Science* 96 (7): 880.
5. Nandikar, M. D., Lekhak, M. and **Gurav, R. V.** 2010. Karyotype analysis of a new cytotype of *Callisia fragrans* (Lindl.) Woodson (Commelinaceae). *Nucleus*. 53 (3): 95 -97.
6. Chandore, A. N., Nimbalkar, M. S., **Gurav, R. V.**, Bapat, V. A. and Yadav, S. R. 2010. A protocol for multiplication and restoration of *Ceropegia fantastica* Sedgw.: a critically endangered plant species. *Current Science* 99 (11): 1593 – 1596.
7. M. D. Nandikar and **R. V. Gurav**. 2010. Critical studies on systematics of *Murdannia lanuginose* (Wall. Ex C. B. Cl.) Brueck. (Commelinaceae). *Nature Precedings*<<http://dx.doi.org/10.1038/npre.2010.4619.2>>
8. **Gurav, R. V.**, Nandikar, M. and Dangat, B. T. 2011. On the occurrence of the jewel orchid *Hetaeria oblongifolia* Blume in Western Ghats of India. *Richardiana* 12 (1): 39 – 45.
9. Nandikar, M. and **Gurav, R. V.** 2011. A new species of *Murdannia* Royle (Commelinaceae) from Northern Western Ghats of India. *Taiwania* 56 (3): 227 – 230.
10. Nandikar, M. D., **Gurav, R. V.** and Umesh, D. 2011. Rediscovery of *Murdannia striatipetala* (commelinaceae)- a little known species from southern India with a note on its identity and distribution. *J. Bombay Nat. Hist. Soc.* 108 (1): 67 – 68.
11. Chavan, J. J., Nimbalkar, M. S., Adsul, A. A., Kamble, S. S., Gaikwad, N. B., Dixit, G. B., **Gurav, R. V.**, Bapat, V. A. and Yadav, S. R. 2011. Micropropagation and *in vitro* flowering of endemic and endangered plant *Ceropegia attenuata* Hook. *J. Plant Biochem. Biotechnol.* 20 (2): 276 – 282.
12. Wadkar, S. S., Shete, C. C., **Gurav, R. V.**, Patil, K. S. and Dixit, G. B. 2011. Cytotaxonomical studies in *Cryptocoryne* Fisch. ex. Wydl. from Maharashtra. *J. Cytol. Genet.* 12 (NS): 37 – 42.
13. Chandore, A. N., Gosavi, K. V. C., Gund, S. M., **Gurav, R. V.** and Yadav, S. R. 2012. *Hubbardia diandra*, a new species of Poaceae from Northern-Western Ghats with note on tribe Hubbardieae. *Kew Bulletin* 67:1 – 5.
14. Nandikar, M. and **Gurav, R. V.** 2012. *Murdannia brownii* (Commelinaceae). In: Plant Discoveries 2011- New Genera, Species and New Records. Botanical Survey of India, Kolkata: 12.

15. **Rajaram Gurav** and Mayur Nandikar. 2012. Paschim Ghatatil Nadi-tatiy Vanaspati (Riparian plants in Western Ghats) In: Sahyadricha Varasa (special edition 20/08/2012). *Lokmat Media Pvt. Ltd., Kolhapur*.
16. Ramana, M. V., Nandikar M., **Gurav, R. V.**, Tagore, J. K. and Sanjappa, M. 2013. *Murdannia saddlepeakensis* (Commelinaceae)- a new species from Andaman and Nicobar islands, India. *PhytoKeys* 20: 9-15.
17. Nandikar Mayur, Singh Rajdeo, **Gurav Rajaram** and Shinde Rajendra. 2013. Lectotypification and notes on the identity of *Christisonia calcarata* (Orobanchaceae). *Rheedeia* 23 (1): 26-29.
18. Gaikwad, N. B., **Gurav, R. V.** and Kamble, V. R. 2013. Leaf spot of *Ophioglossum* in India- a new report. *Bionano Frontier* 6 (2): 260.
19. **Rajaram Gurav** and Mayur Nandikar. 2013. Paschim Ghatatil Nadi-tatiy Vanaspati (Riparian plants in Western Ghats) In: Sahyadricha Varasa. *Lokmat Media Pvt. Ltd., Kolhapur*: 133-134 (Article in Book).
20. Desai M. T., Kamble S. S., Nalwade A. S., Gaikwad N. B., **Gurav, R. V.**, Dixit G. B. and Yadav S. R. 2014. In vitro propagation of *Ceropegia fimbriifera* Bedd., an endangered, endemic plant of south India. *Journal of International Academic Research for Multidisciplinary* 2(1): 124 – 132.
21. Mayur D. Nandikar and **Rajaram V. Gurav**. 2014. *Commelina beddomei* (Commelinaceae), a new name for endemic Beddome's *Commelina hirsuta* from Western Ghats of India. *Plant Sciences Feed* 4 (1): 1-5.
22. Bhaurav T. Dangat and **Rajaram V. Gurav**. 2014. Inorganic status of tubers of *Habenaria longicorniculata* J. Graham. *Asian Journal of Pharmaceutical and Clinical Research* 7 (2): 172-173.
23. Mayur D. Nandikar and **Rajaram V. Gurav**. 2014. A taxonomic account of *Amischotolype* (Commelinaceae) and notes on the occurrence of *Porandra* in India. *Journal of Threatened Taxa* 6 (5): 5774-5780.
24. Bhaurav T. Dangat and **Rajaram V. Gurav**. 2014. Pollination in *Habenaria foliosa* var. *foetida* (Orchidaceae). *Richardiana* 14: 219-228.
25. Chavan J. J., Nalawade A. S., Gaikwad N. B., **Gurav R. V.**, Dixit G. B. and Yadav S. R. 2014. An efficient *in vitro* regeneration of *Ceropegia noorjahaniae*: an endemic and critically endangered medicinal herb of Western Ghats. *Physiol Mol boil Plants* 20 (3): 405 – 410.
26. Bhaurav T. Dangat, Anuja S. Shinde, Dipali N. Jagtap, Varsharani R. Desai, Prachi B. Shinde and **Rajaram V. Gurav**. 2014. Mineral analysis of *Averrhoa bilimbi* L.- A potential fruit. *Asian Journal of Pharmaceutical and Clinical Research* 7 (3): 10-11.

27. Mayur D. Nandikar and **Rajaram V. Gurav**. 2014. A Revision of the Genus *Cyanotis* D. Don (Commelinaceae) in India. *Taiwania* 59 (4): 292 – 314.
28. Wadkar, S. S., Shete, C. C., **Gurav, R. V.**, and Patil, K. S. 2014. Micropropagation of *Cryptocoryne spiralis* var. *Cognatoides*. *J. Cytol. Genet.* 15 (NS): 147 – 149.
29. Varsha Dawande and **Rajaram Gurav**. 2015. Effect of Cytokinins on Shoot Induction From Seed Derived Rhizomes in *Eulophia Nuda* Lindl. *International Journal of Current Research.* 7 (5): 16383-16386.
30. Mayur D. Nandikar and **Rajaram V. Gurav**. 2015. Lectotypification of *Streptolirion* (Commelinaceae). *Phytotaxa* 213 (1): 069–069.
31. Varsha Dawande and **Rajaram Gurav**. 2015. *In-vitro* germination and effect of growth regulators on subsequent development of protocorms of *Eulophia Nuda* Lindl. *International Journal of Applied Sciences and Biotechnology* 3(2): 243-247.
32. Mayur D. Nandikar and **Rajaram V. Gurav**. 2015. Revision of the genus *Murdannia* (Commelinaceae) in India. *Phytodiversity* 2(1): 56-112.
33. Mayur D. Nandikar and **Rajaram V. Gurav**. 2015. *Commelina badamica* (Commelinaceae), a new species from India. *Telopea* 18: 513–518.
34. Bhaurav T. Dangat and **Rajaram V. Gurav**. 2016. Studies on seed morphometry of *Habenaria* species from Western Ghats, India. *Richardiana* 16: 174 – 188.
35. Bhaurav T. Dangat and **Rajaram V. Gurav**. 2016. Stomatal studies in the genus *Habenaria* (Orchidaceae). *Richardiana* 16: 232 – 240.
36. **R. V. Gurav**. 2016. A report on XXVI annual conference of Indian Association for Angiosperm Taxonomy (IAAT) and International Seminar on Conservation and Sustainable Utilization of Biodiversity. *Rheedea* 26(2): 171-173.
37. Varsha Dawande and **Rajaram Gurav**. 2017. Total phenolics, flavonoids content and antioxidant activities of *some Eulophia* species. *Journal of Medicinal Plants Studies* 5(2): 106-111.
38. Wadkar S. S., Shete C. C., Inamdar F. R., Wadkar S. S., **Gurav R. V.**, Patil K. S. and Ghosh J. S. 2017. Phytochemical screening and antibacterial activity of *Cryptocoryne*

spiralis var. *spiralis* and *Cryptocoryne retrospiralis* (Roxb) Kunth. *Medicinal and Aromatic Plants* 6(2): 2-7.

39. Nalawade A. S. and **Gurav R. V.** 2017. Stomatal studies in the genus *Chlorophytum* (Asparagaceae). *Bioscience Discovery* 8(3): 574-581.
40. Nalawade A. S. and **Gurav R. V.** 2017. Proximate analysis and elemental composition of seventeen species of *Chlorophytum* from the Western Ghats. *International Research Journal of Pharmacy* 8(7): 131-136.
41. Ingalhalikar S., Page N., Gaikwad S. and **Gurav R. V.** 2017. *Mucuna laticifera*, a new species from north-eastern India. *Phytotaxa* 319(1): 118-122.
42. Gaikwad S. V., **Gurav R. V.** and Yadav S. R. 2017. Karyotype studies in *Mucuna macrocarpa* wall and *Mucuna sanjappae* Aitawade et Yadav (Fabaceae) from India. *Chromosome Botany* 12(3):52-55.
43. Gaikwad S., Lawand P. and **Gurav R.** 2018. *Muccuna yadviana* sp. Nov. (Leguminosae: Papilionoideae) from the Andaman Islands, India. *Phytotaxa* 348(2): 153-158.
44. Pratik S. Kamble, Aditya B. Magdum, Sulochana V. Kate, Mayuri D. Jikre, Snehal S. Biranje, Mamata A. Jagtap, Praneeta A. Doke, Ashwini V. Mohite, **Rajaram V. Gurav** and Swaroopa A Patil. 2018. Bioprospecting of *Thuja orientalis* L. *Electronic International Interdisciplinary Research Journal* VII (XIII): 427-432.
45. Gaikwad S. V., Mujaffar S., Tiwari A. P., **Gurav R. V.** and Uikey S. K. 2017. *Mucuna nigricans* (Leguminosae: Papilionoideae): An addition to Madhya Pradesh state, India. *Journal of Economic and Taxonomic Botany* 41(3-4): 126-128.
46. Mayur D. Nandikar, Bhagyashri B. kumbhalkar and **Rajaram V. Gurav.** 2018. GC-MS analysis of phytochemical compounds in the crude methanolic extract of roots of *Murdannia lanuginose* and *M. simplex* (Commelinaceae). *Indian Journal of Natural Product and Resources* 9(3): 229-234.
47. Mayur D. Nandikar and **Rajaram V. Gurav.** 2018. Additions to the family Commelinaceae in flora of India. *Journal of Asia-Pacific Biodiversity* 12(2019): 333-340.

48. P. R. Lawand, S. V. Gaikwad, **R. V. Gurav** and V. B. Shimpale. 2018. Karyomorphological studies in three species of *Argyreia* Lour. (Convolvulaceae) from India. *Nucleus*. 10.1007/s13237-018-0252-9.
49. Mayur D. Nandikar and **Rajaram V. Gurav**. 2018. A new species of *Commelina* (Commelinaceae) from India. *Webbia: Journal of Plant Taxonomy and Geography* 73(2): 233-237.
50. Ashwini Venkatrao Mohite and **Rajaram Vithoba Gurav**. 2019. Nutraceutical and antioxidant evaluation of *Abelmoschus* taxa. *International Journal of Vegetable Science*. <https://doi.org/10.1080/19315260.2019.1597801>.
51. M. Rane, S. Suryawanshi, R. Patil, C. Aware, R. Jadhav, S. Gaikwad, P. Singh, S. Yadav, V. Bapat, **R. Gurav** and J. Jadhav. 2019. Exploring the proximate composition, antioxidant, anti-Parkinsons and anti-inflammatory potential of two neglected and underutilized *Mucuna* species from India. *South African Journal of Botany*. 124(2019): 304-310.

X. Extension Services:

1. Guided teachers of Saraswati High School, Ichalkaranji for various experiments and preparation of Science Exhibition for school students.
2. Delivered lecture on the subject 'Orchids' in the "Gardening and Nursery Management" course in G. K. G. College, Kolhapur on 31/12/2004.
3. Slide show and lecture delivered on 'Biodiversity of Western Ghats' in Late Damodar Pednekar Vidyalaya, Peth-shivapur, Tal- Bhudargad, Dist- Kolhapur (28/02/2005).
4. Slide show and lecture delivered on 'Tissue Culture' in Krantisingh Nana Patil High school, Khanapur, Tal- Bhudargad, Dist- Kolhapur (22/07/2005).
5. Participation in the exhibition and competition organized by the Garden's Club, Kolhapur. The Orchids were presented in two items of competition. The first prize was received for "Flowering Plants" and second prize for "Hanging Baskets".
6. Slide show and delivered lecture on "Orchids of Western Ghats" in New College, Kolhapur on the occasion of inauguration of Nature Club (18/10/2007).
7. Delivered lecture on Biodiversity in summer camp for school students at Kalamba High School, Pachgaon (April, 2008).

8. Delivered Lead Lecture in National Seminar on Environmental Assets and Threats on Biodiversity Conservation at R. B. Madkholkar College, Chandgad (16th & 17th March, 2009).
9. Delivered lecture on “Orchids of Western Ghats” in Devchand College, Arjunnagar on 23/11/2009.
10. Field visit and guidance to the students of Srujan-Anand Vidyalaya, Kolhapur (18/04/2010).
11. Worked as a Resource Person for the State Level Workshop on NET/ SET Examination Guidance organized by Y. C. Institute of Science, Satara (14th April 2010).
12. Delivered lecture on “Biodiversity of India” in Yashwantrao Chavan Warana College, Warananagar on 21/08/2010.
13. Delivered lecture on “Rare Medicinal Plants from Western Ghats- Past, Present and Future” in District Level workshop for Master Trainers, National Green Corps (Rashtriya Harit Sena) organized by Department of Forests (Social Forestry), Sindhudurg, Govt. of Maharashtra at Kudal on 14/09/2012.
14. Delivered lecture on “Importance of ----- in Biodiversity” organized by Department of Environmental Science on 27/10/2012.
15. Delivered lecture on “Clonal Propagation” in the workshop organized by Social forestry, Govt. of Maharashtra and Dept. of Botany, SUK on 31/10/2015.
16. Delivered lecture in a workshop for coordinators Avishkar Research competition organized by Department of Technology, Shivaji University Kolhapur on 7/09/2016.
17. Worked as University Convener in Youth Parliament Group National Group level ‘F’ competition organized by Ministry of Parliamentary Affairs, Government of India New Delhi in collaboration with Shivaji University, Kolhapur on 14/9/2016.
18. Delivered lecture on “Mendel’s contribution in genetics” at Department of Botany, Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji on 20/10/ 2016.
19. Worked as chairperson on the theme of “Environment problems” in the 21st annual conference and international seminar on 2/12/2016.

20. Present as a Chief Guest and delivering a lecture on “Environment” in National service scheme camp organized by Department of Electronics, Shivaji University, Kolhapur at Warnangar on 25/01/2017.
21. Delivered lecture on “Greenhouse and nursery” at Social Forestry, Kagal on 4/2/ 2017.
22. Worked as examiner for the Sangali district level Avishkar Research Mohotsav organized by Deshbhakt Anandrao balwantrao Naik Arts & Science College, Chikhali and Shivaji University, Kolhapur on 27th Dec. 2017.
23. Evaluate M.Phil. Dissertation of research student Miss. Yadnaseny Dilip Nikam from P.G. Department of Botany, K. T. H. M. College, Nashik.
24. Present as a Chief Guest in Workshop on Plant Taxonomy: Basics and synthesis of data organized by Department of Botany, Shivaji University, Kolhapur on 3rd July, 2017.
25. Worked as External Referee for Ph. D. open defense examination at School of Life Science, North Maharashtra University, Jalgaon on 27th Nov. 2017.
26. Worked as examiner for the Avishkar Mohotsav 2017-2018 organized by School of Nano science and Technology, Shivaji University, Kolhapur on 5th Jan. 2018.
27. Delivered lecture on “Conservation of Biodiversity” at Department of Botany, Shivraj College, Gadhinglaj on 30/1/ 2018.
28. Guided students in one day workshop of “Industrial Development” at Shahji Law College, Kolhapur on 09/03/2018.
29. Worked as examiner for M. Sc. Botany- IV semester at G. S. Science College, Belagavi on 4th July 2018.
30. Delivered lecture on “Career Opportunities in Botanical Sciences” at department of Botany, Shikshanmaharshi Dr. BApuji Salunkhe College, Miraj on 11/08/ 2018.
31. Worked as examiner for “Agriculture and animal husbandary” in Avishkar Sanshodhan Mohotsav 2018-19 at Y. C. Institute of Science College, Satara on 20/12/ 2018.
32. Worked as external Referee for the Ph. D. Viva-voce at Department of Environment Science, Savitribai Phule Pune University, Pune on 30/03/2019.

XI. Co-curricular and extra-curricular activities carried out:

1. Worked as resource person for four Refresher Courses conducted by Dept. of Botany, Shivaji University, Kolhapur.
2. Conducted SET/NET Coaching Programmes in the Dept. of Botany, Shivaji University, Kolhapur for every academic year from 1998 to 2003.
3. Delivered two lectures in the one day seminar on '**Bioinformatics**' organized by Department of Botany, Shivaji University, Kolhapur on 30th Nov. 2004.
4. Worked as an examiner for Late Prof. G. V. Joshi Memorial Essay Competition.
5. Active participation in Remedial Teaching Scheme for SC and ST category students.
6. Active participation in the celebration of National Science Day every year.
7. Participated in the organization of 'Sankalp' for P. G. students in the Shivaji University, Kolhapur.
8. Participated in "Campaign on University Research and Training" for research students in Shivaji University, Kolhapur.
9. Life Member of "The Orchid Society of India" and
10. Life Member of "Indian Association for Angiosperm Taxonomy".
11. Active participation in the organization of Seminars, workshops and conferences in the Department. Worked on various Departmental Committees.
12. Completed certificate course in Modi Script organized by Chhatrapati Shahu Maharaj Centre for Studies of Maratha History, Shivaji University, Kolhapur.
33. Worked as Team Manager during 10th South Asian Universities Festival-2017 at Devi Ahilya University, Indore on 28th Feb. to 4th Mar. 2017.
34. Organized University level one day workshop on "Save girl child campaign: One identity" under Director, Student's Development, Shivaji University, Kolhapur on 22nd Dec. 2017.
35. Organized "Save girl child campaign" on the occasion of International Women's Day under Director, Student's Development, Shivaji University, Kolhapur on 8th Mar. 2018.

36. Present as a President in Late. Shivajirao Desai memorial lecture series organized by KIT College of Engineering, Kolhapur on 13/03/2018.
37. Present as a President in prize distribution program of monochrome competition organized by Gayan Samaj Deval Club, Kolhapur on 16/08/2017.
38. Organized 37th Kolhapur district level youth festival under Director, Student's Development, Shivaji University, Kolhapur on 14th to 27th Sept. 2017.
39. Participated as Director, Student's Development, Shivaji University, Kolhapur in "Jashn-E-qawwali" 2nd Interuniversity national quwwali compitation on 10/11/ 2017.
40. Present as a President in prize distribution program at Shankarrao Jagtap Arts and Commerce College, Wagholi on 14/02/2018.
41. Present as a Chief Guest in prize distribution program in Private High school and Junior College, Kolhapur on 20/08/2018.
42. Guided to students on "Independence of India and Biodiversity " at Swa. Sheth Rambilas Kisanlal Lahoti Kanyaprashala, Karad on 8/9/2018.
43. Present as Chief Guest for the Valedictory function of National workshop on Monocot Systematics at Department of Botany Shivaji University, Kolhapur on 6/01/2019.

XII. Recognition:

1. President, Shivaji University Post-Graduate Teacher's Association (2009 – 2011 and 2013 – 2015).
2. Fellow of the Indian Association for Angiosperm Taxonomy in 2014.

XIII. Research Guidance:

1. M. Phil. declared:

| Sr. No | Name of the student | Year of Declaration | Title of the work |
|---------------|----------------------------|----------------------------|---|
| 1. | Mr. Nandikar M. D. | Jan 2010 | Cytomorphological studies in Commelinaceae R. Br. |

2. Ph. D. Declared:

| Sr. No | Name of the student | Year of Declaration | Title of the work |
|--------|---------------------|---------------------|--|
| 1. | Mr. Nandikar M. D. | Dec. 2013 | A Taxonomic Revision of Indian Spiderworts. |
| 2. | Mr. Dangat, B. T. | Sept. 2015 | Studies on systematics of the genus <i>Habenaria</i> wild. (Orchidaceae) in Western Ghats. |
| 3. | Mr. Wadkar S. S. | June 2017 | Studies in genus <i>Cryptocoryne</i> from Western Ghats of Maharashtra |
| 4. | Smt. Dawande V. R. | July 2017 | Studies in genus <i>Eulophia</i> from Western Ghats |
| 5. | Mr. Nalawade A. S. | Feb. 2019 | Genetic diversity and phytochemical analysis of <i>Chlorophytum</i> Ker-Gawl. species. |

3. Ph. D. Working:

| Sr. No | Name of the student | Year of Joining | Title of the work |
|--------|---------------------|-----------------|--|
| 1. | Mr. Shirur, D. S. | July 2010 | Anatomical studies in <i>Ceropegia</i> from India. |
| 2. | Mr. Gaikwad S. V. | July 2013 | Studies in the genus <i>Mucuna</i> Adans. from India |
| 4. | Miss. Mohite A. V. | July 2013 | Cytogenetical studies in the genus <i>Abelmoschus</i> Medik. |

Present Position:

**Director,
Students' Development,
Shivaji University, Kolhapur**

(Dr. R. V. Gurav)