




Shivaji College Faculty Details Proforma

| Title | DR | First Name | PRABHAVATHI | Last Name | VENKATRAMAN | Photograph |
|--|---|------------|-------------|-------------|-------------|--|
| Designation | Assistant Professor | | | | |  |
| Address | Flat 1, Block 1, Type V, Teachers Quarters, University of Delhi-South Campus, Benito Juarez Road, New Delhi-110021 | | | | | |
| Office Phone No. | 25116644 | | | | | |
| Residence | 24110587 | | | | | |
| Mobile | 9818977807 | | | | | |
| Email | prabha5_udsc@yahoo.com | | | | | |
| Web-Page | http://shivajicollege.ac.in/Departments/Botanyctrl/faculty | | | | | |
| Educational Qualifications | M.Sc, Ph.D | | | | | |
| Degree | University/Institute | | | Year | | |
| Ph.D. | Department of Genetics, University of Delhi | | | 2004 | | |
| M.Phil./M.Tech. | NA | | | | | |
| PG (M.Sc.) | Sri Venkateswara University, Tirupathi, AP | | | 1989 | | |
| UG (B.Sc.) | Sri Venkateswara University, Tirupathi, AP | | | 1987 | | |
| Any Other Qualification | B.Ed, Annamalai University, Tamil Nadu. | | | 1993 | | |
| Career Profile | | | | | | |
| <p>After completing M.Sc. (1989) worked as lecturer in a junior residential college in Andhra Pradesh; Worked as technical assistant and research assistant in various research projects at the Department of Genetics, University of Delhi South Campus (Prof. MV Rajam) from 1994 to 1996 and from 1998 to 2001; Received Senior Research Fellowship from CSIR to complete Ph.D. from the Department of Genetics, University of Delhi South Campus (under Prof. MV Rajam in 2004); Undertaken independent research project under Young Scientist award from the Dept. of Science and Technology, Govt. of India (2004-2007) (also selected for Women Scientist Award); Joined as Reaserch Associate in PMB Dept. South campus (DBT Project. 2008). Joined as Assistant Professor in Shivaji College (University of Delhi) in 2008. Published several research papers and presented</p> | | | | | | |

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| papers in national/ international conferences; Undertaken innovative research project funded by Delhi University (2016-17). |
| Administrative Assignments |
| Teacher-in-Charge, Department of Botany, Shivaji College (2010-11 and 2017-18) Secretary, Staff Association, Shivaji College (2015-18) In-Charge, Garden Committee; Member of Several Committees for College Time Table, Culture & Sports, Roster for teaching posts etc... Organiser / Coordinator of Conferences |
| Areas of Interest/Specialisation |
| Molecular Biology, Plant Biotechnology, Genetics, Plant Physiology. |
| Subjects Taught |
| Molecular Biology, Plant Biotechnology, Genetics, Cell Biology, Biomolecules, Cell and Molecular Biology, Biology, Plant Systematics etc.. |
| Innovation Project/Research Projects (Major Grants/Research Collaboration) |
| Project Investigator INNOVATION PROJECT, 2015-16, (SHC 312), Funded by University of Delhi: (Session 2016-17), titled: <i>L- Asparaginase, an antitumor agent: production, characterization & molecular approaches</i> - Successfully Completed. |
| Publications Profile (Research Papers/Books) |
| <ul style="list-style-type: none"> ▪ Rashmi Wardhan, V. Prabhavathi, Shivangi Bansal, Deepshikha Singh, Bhavya, Amit Rana, Shrish, Shivani Dutt, Abhishek, Diksha Bisht, Ashutosh Singh, Vibhu Mishra. 2016. Isolation and Identification of Microorganisms with High Activity of L-Asparaginase: Anti Cancer Enzyme. <i>DU Journal of Undergraduate Research and Innovation</i>. 2 (1): 171-179. ISSN- 2395-2334. ▪ Prabhavathi V, Kiran Bamel and Seema Talwar. 2015. Polyamines: Role in Transgenic Plants. <i>Contemporary Plant Sciences</i>. 2(1): 4-12. ISSN: 2393-8676. ▪ Seema Talwar, Pamil Tayal, Sanjeev Kumar, Kiran Bamel and Prabhavathi V. 2015. Climate change: A Threat to Biodiversity. <i>Proceedings of the National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges In Indian Perspective</i>, New Delhi, 2-3 March. pp. 84-93. ISBN 978-93-5235-335-4. ▪ V. Prabhavathi. 2014. "Polymerase Chain Reaction". E-Module for Undergraduate Course for NME-ICT in BOTANY, under MHRD Project, Through ILL, University of Delhi. ISSN2349-154X. ▪ V. Prabhavathi and M.V. Rajam. 2007. Polyamine accumulation in transgenic eggplant confers high tolerance levels to multiple abiotic stresses as well as fungal resistance. <i>Plant Biotechnology</i>. 24 (3): 273-282. ISSN 1342-4580 |

- **V. Prabhavathi** and M.V. Rajam. 2007. Fungal resistance in eggplant transgenics exhibiting mannitol accumulation. *Plant Science*. 173 : 50-57. ISSN 0168-9452
- **V. Prabhavathi**, J.S. Yadav, P.A. Kumar and M.V. Rajam. 2002. Abiotic stress tolerance in transgenic eggplant (*Solanum melongena* L.) by introduction of bacterial mannitol phosphodehydrogenase gene. *Molecular Breeding*. 9: 137-147. ISSN 1380-3743
- **V. Prabhavathi** and M.V. Rajam. Enhanced stress tolerance in co-transformants of eggplant containing mannitol-phosphodehydrogenase and arginine decarboxylase genes (under Prepatation).
- **V. Prabhavathi** and M.V. Rajam. Development of marker-free transgenic tomato for tolerance to salinity, drought and fungal pathogens. (Under communication).

BOOK CHAPTERS

- Kiran Bamel and **Prabhavathi V.** 2017. Biological Control Methods and Agents. In *Biofertilizers*, Kojo press. ISBN. 978-81-927567-90.
- Seema Talwar, Kiran Bamel and **Prabhavathi V.** 2017. Mobile Phone: A new Environmental Threat. In *Environmental Concerns of 21st Century: Indian and Global Context*. Book Age Publications. ISBN 978-93-83281-65-7.
- Gurjeet Kaur, **V. Prabhavathi**, Kiran Bamel, Maryam Sarwat. 2017. "Phosphate Signaling in Plants: Biochemical and Molecular Approach". In "Stress Signaling in Plants: Genomics and Proteomics Perspective", Vol 2 (Pg.83-110) by Maryam Sarwat, Altaf Ahmad, M. Z. Abdin, Mohamed M. Ibrahim (Ed). ISBN: 978-3-319-42182-7 (Print) 978-3-319-42183-4 (Online). Springer International Publishing.
- **Prabhavathi V** and Sandeepa Singh. 2016. Polyamine: Role In Fungal Resistance. 2nd International conference on Public Health: Issues, Challenges, Opportunities, Prevention, and Awareness: Jawaharlal Nehru University.New Delhi. ISBN-978-93-85822-17-9
- Sandeepa Singh and **V.Prabhavathi**. 2016. Milestones in Standardization of Agrobacterium-mediated Transformation and Development of Citrus sinensis Transgenics. 2nd International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, and Awareness: Jawaharlal Nehru University.New Delhi. 3 (2): 155-159. ISSN-2350-0263
- Anuradha Mal and **Prabhavathi. V.** 2016. Meditation for Health and Peace. International conference on "Public Health: Issues, Challenges, Opportunities, Prevention, Awareness" Daulat Ram College. ISBN: 978-93-85822-10-0

- Kiran Bamel, Pamil Tayal and **Prabhavathi V.** 2016. Reproductive Biology for Conservation of Medicinal Plants. In *Medicinal Plants*. Edited by Suresh Kumar, Campus Books International Publications, New Delhi, pp. 93-102. ISBN: 978-81-8030-474-3

Conference/Seminar/Faculty Development Programme/Workshop

- Webinar on “ Medicinal Plants: Eternal Source of Health and Wellness” organized by Swami Shraddhanand College, DU on 17th June, 2020
- Webinar on “Biodiversity and Man” organized by Botany Department, Dayal Singh College, DU on 5th June 2020
- International Webinar on “Biodiversity and Environmental Health ” organized by Department of Environmental Studies, Shivaji College, DU on 20th May 2020
- National Webinar on “e-Content Development Methodology : Four Quadrant Model, OERs and Copyright issues ” organized by Guru Angad Dev Teaching Centre SGTB Khalsa College, DU under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD held on May 15, 2020
- Webinar on “Evolution of Science seen from historical perspective” organized by Department of Botany, Deshbandhu College, DU on 12th and 13th May 2020
- Webinar on “Biodiversity and Public Health” organized by Eco-Club, Shivaji College, DU on 19th May 2020
- National Webinar on “ Corona Pandemic and Economic Challenges in India” organized by Guru Angad Dev Teaching Centre SGTB Khalsa College, DU under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD held on May 4, 2020
- Webinar series on “ Quality Assurance in Higher Education: Practices and Issues” organized Jointly with IQAC, Hansraj College,DU under PARAMARSH, a UGC scheme on 4th – 8th May, 2020
- Webinar on “ Strengthening the immune system with Naturopathy” Organised by Department of Botany and IQAC, Hansraj College, DU on 6thMay, 2020
- International Webinar on “Importance of Cyber Security in the World of Pandemics and Social Media ” organized by Kamala Nehru College, DU, on 6th May 2020
- National Webinar on “Challenges & Opportunities before Indian Higher education due to Covid-19 ” organized by Guru Angad Dev Teaching Centre SGTB Khalsa College, DU under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD held

on May 2, 2020

- National Webinar on “Towards Excellent in Higher Education in India in the 21st Century: Challenges and opportunities” organized by Guru Angad Dev Teaching Centre SGTB Khalsa College, DU under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD held on May 1, 2020
- Member, Organising Committee, Webinar on “Presentation Tools”, organised by Department of Botany, Shivaji College, University of Delhi, on April 28, 2020
- Webinar on “Teachers and Technology: The Road Ahead” organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, DU on 25th April 2020
- Webinar on “Empowering Teaching through Online Mode” organized by JNU-WETOM on 18th and 19th April, 2020
- National Workshop on “Techniques in Plant Sciences” organised by Department of Botany, Sri Venkateswara College, University of Delhi, December 4th and 5th 2019
- Co-Convenor, one-day workshop on “Plant Physiology”, at Department of Botany, Shivaji College, University of Delhi, on September 24, 2019
- Member, Organising one-day workshop on “Algae and Microbiology”, at Department of Botany, Shivaji College, University of Delhi, in collaboration with CCUBGA, division of Microbiology, ICAR-Indian Agricultural Research Institute, New Delhi, on October 1, 2019
- Workshop on “Advance Excel for Teaching and Research Data Management and Data Analysis” at Guru Angad Dev Teaching Centre of MHRD, SGTB Khalsa College, University of Delhi on August 30, 2019
- National Seminar cum Workshop on “e-CONTENT, MOOCS (SWAYAM) and ARPIT” organised by All India Council for Technical Education (AICTE) and Guru Angad Dev Teaching Centre of MHRD, SGTB Khalsa College, University of Delhi, on August 31, 2019
- Co-Convenor, one-day Seminar on “Traditional Knowledge and Recent Trends in Plant Sciences” at Department of Botany, Shivaji College, University of Delhi, on August 27, 2019
- Paper presented in National seminar on : Recent Trends of Research in Medicinal Plants and Applied sciences. Paper: Dhanvantari: an approach to contribute towards the society: organized by Ramjas College, University of Delhi on 27th March 2019
- International seminar on “Science, Environment and Spirituality” poster presented on “Yoga: An Ancient Therapy for Healthy Mind and Body” organised by Eco Club, Shivaji College, University of Delhi, on September

13, 2019

- International seminar on “Science, Environment and Spirituality” poster presented on “Meditation: Antidote to Chemical Imbalance” organised by Eco Club, Shivaji College, University of Delhi, on September 13, 2019
- One-day National Seminar on “Intellectual Property Rights” organised by Shivaji college, University of Delhi, on November 6, 2019
- Participated in National Workshop titled “*Emerging Pollution Challenges on Earth Ecosystem–SAFAR, India’s Novel Initiative*” on Tuesday 26th March 2019 at the Conference Centre, University of Delhi & was organized by Environment Pollution Laboratory, Department of Environmental Studies, University of Delhi and is sponsored by the Ministry of Earth Sciences, Government of India
- National Conference on “Trends in Life Sciences & Biotechnology: Innovative Paradigms” organized by Department of Botany, Maitreyi College, University of Delhi on February 19-20, 2019
- International Entrepreneurial Summit on the theme “Entrepreneurship Development through Ecotourism in Northeast India” organized by Entrepreneurship Development Cell (EDC), Shivaji College on 14-15 February, 2019
- Resource Person, Inter-college Laboratory Skill Training Programme for Assistant/ Attendants in Chemical and Life Science Laboratories at Shivaji College, University of Delhi, from November 27-December 3, 2019
- Resource person for Intra College Laboratory Skill Training Program for Assistants/ Attendants in chemical and life science laboratories organised under DBT-Star College Scheme at Shivaji College, University of Delhi, from May 20-24, 2019
- Resource Person for four week Summer Training Programme on “Microscopy and Herbarium Techniques”, organised by the Department of Botany, Shivaji College, University of Delhi, under DBT Star College Scheme from June 21 –July 19, 2019
- Resource person in INSPIRE Science Camp, organized by Shivaji College, funded by the Department of Science and Technology, 16th-20th July, 2018
- Workshop on ‘Introductory Evolutionary Biology and Phylogenetics’ held on January 4 & 5, 2018 at Department of Botany, University of Delhi, Delhi
- Workshop on “Microscopy for College Teachers” organized by Department of Genetics, Delhi University, South Campus on 27th March 2018
- National Seminar on ‘Identifying and avoiding publishing in Predatory journals: A lesson for researchers’, Department of Botany, University of Delhi, 18th March, 2017

- Symposium on 'Awareness programme on Intellectual Property Rights', Shivaji College, University of Delhi on 26th September, 2017
- Conference on "Plant Biotechnology, Molecular Medicine & Human Health" Dept. of Genetics, University of Delhi, South Campus, 18-20th October 2013
- National Symposium on "Catenanes, Molecular Cell Biology". Shivaji College, Delhi University. 24-25th Nov. 2009
- National Symposium on "Biotechnology in the Post Genomic Era", Dept. of Biochemical Technology, Sri Venkateswara College, University of Delhi. 9-10th, April, 2009
- Organized National Symposium on "Frontiers and Avenues in Plant Sciences" Shivaji College, University of Delhi, 20-21st Jan., 2011 (As Coordinator)
- Workshop cum Training on 'Bioinformatics Training Programme for College Teachers, Sri Venkateshwara College, 27-28th July, 2017
- National workshop on "Medicinal Botany and Drug Discovery" Ramjas College, 30-31st January, 2017
- Workshop on "Biofertilizers" Department of Botany, Zakir Husain College, University of Delhi. 14-16th July, 2016
- Workshop on "Environmental Pollution and Health in Urban Ecosystems". Department of Botany and Department of Zoology in collaboration with Department of Environmental Studies (EPHUE), University of Delhi. 23rd June, 2016
- Workshop on "Training the Trainees: IPR Workshop" Miranda House, University of Delhi. 15th January, 2016
- Workshop on "DNA Fingerprinting" Hindu College, University of Delhi. 22nd January, 2016
- Presented Poster "*L-asparaginase* , an antitumor agent: production ,characterization and molecular approaches" in research display at the convocation ceremony, 2016 ,Organized by university of Delhi on 19th November, 2016
- Presented Poster "*Isolation, identification, purification and optimization of different parameters of L-Asparaginase from microorganism Alcaligene faecalis*" in Innovation conclave 2016, Nurturing research at UG level, organized by ANDC, University of Delhi, held on 25th -26th October, 2016
- Presented Poster "*Screening, isolation and confirmation of L-Asparaginase*

from microorganisms in sewage water” in National Symposium on Trends in Research and Innovation in Life Sciences at undergraduate level at DDU College, University of Delhi, on 30th March, 2015

- Convener of ‘Lab Skill Training Workshop for Laboratory Assistants in Chemical and Life Sciences’ was organized on 10th-14th July, 2017, in shivaji college
- Resource person in INSPIRE Science Camp, organized by Shivaji College, funded by the Department of Science and Technology, 14th-18th December, 2016
- **Faculty Development Programme** in “ Open Source Tools for Research” organized by Teaching Learning Centre Ramanujan College, DU, Sponsered by MHRD, PMMMNM On Teachers and Teaching, from June 8th to June 14th 2020 .
- **Faculty Development Programme** in “ Managing Online Classes and Co-creating MOOCS:2.0” organized by Teaching Learning Centre Ramanujan College, DU, Sponsered by MHRD, PMMMNM On Teachers and Teaching, from May 18th to June 03rd 2020
- **Faculty Development Programme (online)** in “ Experiential Learning Methodology- Gandhiji’s Naitalim” organized by Faculty Development Centre, Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Human Resource Development, Govt. of India. Sponsered by PMMMNM On Teachers and Training, from May 11th to May 15th 2020
- **Faculty Development Programme** in “Biomathematics” conducted by Mahatma Hansraj Faculty Development Centre of MHRD, Hansraj College, University of Delhi, organised by Shivaji College, University of Delhi, from August 1-7, 2019
- **Faculty Development Programme** in “e- learning, Pedagogy and ICT tools in Higher Education” organized by Guru Angad Dev Teaching Learning Centre of MHRD, SGTB, Khalsa College, University of Delhi from November 26, 2018 to December 7, 2018
- **Faculty Development Programme** in “University functioning and Blended learning” conducted by Guru Angad Dev Teaching Learning Centre of MHRD, SGTB, Khalsa College, University of Delhi from December 8, 2018 to December 20, 2018
- **Faculty Development Program in Biostatistics:** Theoretical and Practical aspects. DDU College under DBT Star College Scheme. 14 - 18th March, 2018. (5 Days)
- UGC Sponsored **Refresher Course** on “Environmental Sciences”, Academic Staff Colleges, JNU, New Delhi. 6th April to 1ST May 2015. (3 Weeks)
- UGC Sponsored **Refresher Course** on “Life Sciences/ Biological Sciences/ Bio-informatics”, CPDHE, University of Delhi (South Campus) New Delhi. 25th Feb., to 16th March 2013 (3 Weeks)

- UGC sponsored **Orientation Course**, Academic Staff Colleges, JNU, New Delhi. 6th Feb. to 2nd March, 2012 (4 Weeks)

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

NA

Awards and Distinctions

- **Young Scientist** Award from the Department of Science and Technology, Government of India for an independent research grant of more than one million rupees) (25 September, 2004 to 24th September 2007)
- Was also selected under **Women Scientist Scheme** project proposal (but opted for Young Scientist award): Project proposal on Development of Brinjal Transgenic Plants Tolerance to Salinity, Drought, and Fungal Pathogens. (2004)
- **Senior Research Fellow**, Council of Scientific and Industrial Research (CSIR), Government of India_(Aug., 2002 to May 2004)
- **Best Teacher Annual Award (1992)**, Ratnam Residential College, Andhra Pradesh
- Received **Best Poster** certificate for project titled "*L-Asparaginase, an anti tumor agent: Production, Characterization and Molecular Approach*", at the Research Display by the University of Delhi, 19th November, 2016
- Received **Certificate of Appreciation** awarded to project '*L-Asparaginase, an anti tumor agent: Production, Characterization and Molecular Approach*' for being selected for research display by University of Delhi on 19th November, 2016
- **Best poster award** for " Isolation ,identification ,purification and optimization of different parameters of L Asparaginase from microorganism *Alcaligene faecalis* in Innovation conclave 2016, Nurturing research at UG level, organized by ANDC, University of Delhi ,held on 25th -26th Oct. 2016

Memberships

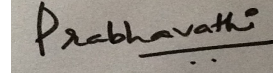
Membership in Delhi University Botanical Society

Other Academic Activities

- Organised a 3-Day Educational Excursion with B.Sc (Hons.) and B. Sc. (P) Life Science students to Dehradun and Chakrata from October 19-21, 2019

Cultural/Extracurricular Activities

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Signature of Faculty Member