



KG COLLEGE OF ARTS AND SCIENCE

(affiliated to Bharathiar University and Accredited by NAAC)

Research and Development Cell

Faculty Researcher Profile



R & D CELL - KGCAS
co-Kreating Genius

FACULTY RESEARCHER PROFILE TEMPLATE

| Name | Dr.D.SHALINI | Degrees | Ph.D | | | | | | | | | | | | | | | | | | | | |
|--|---|--|-----------------|-----------------|--------------------|-------------|-----------------|---|--|-----------------------|---|------|--|----------------------|-----------------------|---|------|----|----------------------|-----------------------|--|------|----|
| Image for home page | https://drive.google.com/file/d/1roJ6GPghoU95CVMfSMhBKuos7VWmuAAj/view?usp=sharing | | | | | | | | | | | | | | | | | | | | | | |
| Faculty Profile (200 Words Minimum) | <p><u>Teaching/ Research Experience</u></p> <ul style="list-style-type: none"> ➤ Responsible Teacher with excellent communication skills demonstrated by more than 9 years of teaching and 3 years of research. ➤ Life Science graduate with team spirit and a positive, can-do attitude. Highly organized with well-developed communication and time management skills. ➤ Working as Assistant Professor, Department of Biotechnology in KG College of Arts and Science, Coimbatore. (Feb 2019 – Till Date) ➤ From June 2014 to April 2018 worked as Assistant professor in Department of Science and Humanities, SNS College of Engineering, Coimbatore. ➤ From June 2011 to April 2014 worked as Lecturer in Department of Science and Humanities, Ranganathar Institute of Technology, Coimbatore. ➤ From October 2008 to March 2011 worked as Junior Research fellow, CSIR funded Project in UPASI Tea Research Institute, Valparai, Coimbatore Dist, TN. <p><u>Academic Details</u></p> <table border="1"> <thead> <tr> <th>Degree/Standard</th> <th>University / Board</th> <th>Institution</th> <th>Year of passing</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Ph.D Plant Physiology and Biotechnology</td> <td>Bharathiar University</td> <td>UPASI Tea Research Institute, Valparai.</td> <td>2013</td> <td></td> </tr> <tr> <td>M.Sc Biochemistry</td> <td>Bharathiar University</td> <td>Kongunadu Arts & Science College, Coimbatore.</td> <td>2007</td> <td>75</td> </tr> <tr> <td>B.Sc Biochemistry</td> <td>Bharathiar University</td> <td>Shri Nehru Maha Vidyalaya College of Arts & Science, Coimbatore.</td> <td>2005</td> <td>72</td> </tr> </tbody> </table> | | | Degree/Standard | University / Board | Institution | Year of passing | % | Ph.D Plant Physiology and Biotechnology | Bharathiar University | UPASI Tea Research Institute, Valparai. | 2013 | | M.Sc Biochemistry | Bharathiar University | Kongunadu Arts & Science College, Coimbatore. | 2007 | 75 | B.Sc Biochemistry | Bharathiar University | Shri Nehru Maha Vidyalaya College of Arts & Science, Coimbatore. | 2005 | 72 |
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| Keywords | Life Science, Tea ,Biochemistry | | | | | | | | | | | | | | | | | | | | | | |

RESEARCH PROJECTS / FOCUS AREAS

Dynamics of certain enzymes involved in tea (*Camellia sps.*) plant metabolism”

- Tea is a small, evergreen, woody perennial tree, cultivated for the production of leaves, which are

manufactured into a beverage.

- Characterization of tea clones with respect to quality and productivity is an important criterion in order to develop markers for plant breeding and improvement programs. Productivity related enzymes (RUBISCO, MDH and PEPC), quality related enzymes (PPO,POX, PAL and Chlorophyllase), stress related enzymes (APOX,CAT, SOD and GR) were analysed in thirty UPASI clones in all seasons.
- Relationship between enzyme and their substrate ratio, clonal and seasonal variation in enzyme activity, yield and quality variations between clones were analysed.
- Classifies the tea clones drought tolerant and susceptible depends their antioxidative enzyme activity, and also analysed antioxidative enzymes in disease and pest infested leaves.
- Unexploited tea accessions were classified depends chemotaxonomy. Trail experiments were carried out for drought and quality improvement.

PUBLICATIONS

1. G. Yashodha and D. Shalini, An integrated approach for predicting and broadcasting tea leaf disease at early stage using IoT with machine learning – A review, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.05.458>
2. N.Nandakumar, D.Shalini, S.Suresh, Dr.Manimehalai.P 2020. Early finding of cervical cancer with the help of arousal fluid. International Journal of Psychosocial Rehabilitation,Vol.24. Issue 6. <https://doi.org/10.37200/IJPR/V24I6/PR261188>
3. Shalini.D 2020.Screening of High Yielding Tea (*Camellia Sinensis*) Clones using Enzymes and Canonical Discriminate Analysis with Yield .IJRASET.8(IV) p2033-2042
4. Shalini D and Raj kumar R 2017.Exogenous Foliar Application of Phenolic Acids on Quality Constituents of Tea. IJRASET.5(vII)p505-510.
5. Shalini D and Raj kumar R 2017.Changes in antioxidative enzymes and isozyme pattern due to Exobasidium vexans (blister blight) infection in tea cultivars. Malaya Journal of biosciences 4(1)p11-16.

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