ABHILASHA

Department of Biology, IISER Tirupati | abhilashaphd@students.iisertirupati.ac.in

EDUCATION

DOCTOR OF PHILOSOPHY | 2021- ONGOING | DEPARTMENT OF BIOLOGY, IISER TIRUPATI

· CGPA: 9.8/10

MASTER OF SCIENCE | 2018-2020 | SCHOOL OF LIFE SCIENCES, UNIVERSITY OF HYDERABAD

- · Major: Plant Biology and Biotechnology
- · GPA: 9.16/10

BACHELOR OF SCIENCE (HONOURS) | 2014-2017 | HANSRAJ COLLEGE, UNIVERSITY OF DELHI

- · Major: Botany
- · Percentage: 83.2%

INTERMEDIATE | 2014 | KENDRIYA VIDYALAYA NO. 2, JODHPUR

- · Major: Science
- · Percentage: 89.8%

PROJECTS AND INTERNSHIP

PHD RESEARCH | DEPARTMENT OF BIOLOGY, IISER TIRUPATI | 2021 - ONGOING

Under the supervision of Dr. Swarup Roy Choudhury, IISER Tirupati

<u>Dissertation</u>: "Deciphering the role of R2R3-type MYB transcription factors in drought stress response and oil production in *Brassica sp*"

MASTER'S PROJECT | DEPARTMENT OF PLANT SCIENCES, UNIVERSITY OF HYDERABAD | JULY 2019- MAR 2020

Under the supervision of Prof. AS Raghavendra, University of Hyderabad

Dissertation: "Protective role of proline in plants against high light stress"

Description: My work involved the use of leaf discs of *Pisum sativum* to study the modulation of proline with reactive oxygen species like superoxide and hydrogen peroxide generation under the exposure of different light conditions. I was trying to understand the relation of proline accumulation with reactive oxygen species (ROS) generation under high light stress and its function in anti-oxidative defense mechanisms.

INTERNSHIP | INDIAN COUNCIL OF AGRICULTURAL RESEARCH- CENTRAL ISLAND AGRICULTURAL

RESEARCH INSTITUTE, PORT BLAIR, ANDAMAN, INDIA | JUN 2016-JULY 2016

Under the supervision of Dr. Pooja Bohra, Scientist, Division of Horticulture & Forestry

Title: "An orientation to selected botanical techniques"

Description: The aim was to standardize the procedure for aseptic culture establishment using leaf and nodal explants of *Haematocarpus validus* and the study of the effect of different carbon sources like glucose, fructose and sucrose on culture response in *Withania somnifera* leading to obtaining multiple shoot induction and callus.

Biochemical analysis like chlorophyll and carotenoid estimation was done for some endemic species of Andaman in addition to its morphological characterization.

BACHELOR'S PROJECT | HANSRAJ COLLEGE, UNIVERSITY OF DELHI

Under Plant Physiology course

Title: "The effect of auxin on root initiation in Coleus sp."

Description: The project involved the use of twigs of *Coleus sp.* of same size and number of leaves and were dipped into the different concentration solutions of Indole-3-acetic acid to observe the number of roots emerged and their average length.

ACHIEVEMENTS AND ACCOLADES

- Awarded for academic excellence for the performance in Ph.D. (Biology) courses at IISER Tirupati
- Qualified the prestigious Joint Council of Scientific & Industrial Research (CSIR)-University Grants Commission (UGC) Junior Research Fellowship & Eligibility for Lectureship (National Eligibility Test), June 2019

· Awarded for securing first position in 1st and 2nd semester examinations in Masters at School of Life Science, University of Hyderabad

TEACHING ASSISTANTSHIPS

· BIO213 Biology for Society – Undergraduate Course, IISER Tirupati

 BIO121 Introductory Biology IV: Biology of Systems – Undergraduate Course, IISER Tirupati

PUBLICATION

 Abhilasha Abhilasha, Swarup Roy Choudhury (2021) Molecular and physiological perspectives of Abscisic acid mediated drought adjustment strategies. *Plants* (https://doi.org/10.3390/plants10122769)