



# SABIT MOHAMMAD ASLAM

Junior Research Associate

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## About Me

As a biologist, I conduct in-depth studies using a range of chlorophyll fluorescence techniques on coral endosymbiont algae from the family Symbiodiniaceae. The complexity of photosynthetic electron transport, as well as the underlying causes and mechanism of coral bleaching under stress conditions, are the main focuses of my research. This work holds tremendous potential to significantly impact the protection of coral reefs and the overall marine ecology.

## Expertise

Chl Fluorescence study :

- Fluorimeter FL-3000
- Dual-PAM

## Languages

English, Hindi & Urdu

## Professional Experience

### Junior Research Associate

2022- Present

Institut of Plant Biology, Biological Research Center, Szeged, Hungary

- Employing various chlorophyll fluorescence techniques such as Flash induced fluorescence decay, P700+ reduction, etc. on normal as well as digested cells along with inhibitors, in order to study the mechanism of linear and alternate electron transport under stress condition in Symbiodiniaceae

### Research Assistant

2020 - 2022

Institut of Plant Biology, Biological Research Centre, Szeged, Hungary

- Characterized the differences in Photosynthetic parameters in response to heat stress within the Symbiodiniaceae family using a range of chlorophyll fluorescence techniques such as Flash induced fluorescence decay, OJIP, light curve, Chl & NADPH fluorescence, etc.

### Project Fellow

2019 - 2020

Department of Plant Sciences, School of Life sciences, University of Hyderabad

- Acquired new skills and conducted several Chl fluorescence techniques and blotting experiments while working on a Project which was entitled as "Importance of Cyclic Electron Transport in acclimation of Photosynthetic machinery to High light of Chlamydomonas reinhardtii in Photoautotrophic growth condition".

### Summer Intern

2016

Path-Heal Diagnostics and Research labs Pvt. Ltd, New Delhi

- Learned plating techniques, gel electrophoresis, SDS-PAGE, and other lab procedures, in due course of time.

## Publications

### International Journal of Molecular Sciences

- Characterization of the Flash-Induced Fluorescence Wave Phenomenon in the Coral Endosymbiont Algae, Symbiodiniaceae. Mohammad Aslam, S., Vass, I., & Szabó, M. May, 2023

### Frontiers in Marine Science

- Heat-Induced Photosynthetic Responses of Symbiodiniaceae Revealed by Flash-Induced Fluorescence Relaxation Kinetics. Mohammad Aslam, S., Patil, P. P., Vass, I., & Szabó, M. July, 2022

### Photosynthesis Research

- Characterization of the wave phenomenon of flash-induced chlorophyll fluorescence in Chlamydomonas reinhardtii. Patil, P. P., Mohammad Aslam, S., Vass, I., & Szabó, M. February, 2022
- Role of cyclic electron transport mutations pgr1 and pgr5 in acclimation process to high light in Chlamydomonas reinhardtii. Yadav, R. M., Aslam, S. M., Madireddi, S. K., Chouhan, N., & Subramanyam, R. April, 2020

## Education and Training

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PhD candidate, Doctoral School of Biology University of Szeged, Hungary	2020 - Present
M.Sc. Plant Biology and Biotechnology University of Hyderabad	2017 - 2019
B.Sc. Biotechnology Jamia Millia University, New Delhi	2014 - 2017
GIAN workshop on "Chloroplast structure and function" University of Hyderabad, India	2019

## Award, Certificated and Fellowship

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Young Researchers Award 11th International Conference Photosynthesis and Hydrogen Energy Research for Sustainability, Turkey.	July, 2023
Junior Research Fellowship COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (CSIR), INDIA (NET& JRF)- Life sciences	June, 2019
GATE GRADUATE APTITUDE TEST IN ENGINEERING (GATE), INDIA, in Life Sciences	February, 2019

## Conference

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- 11th International Conference Photosynthesis and Hydrogen Energy Research for Sustainability, Turkey. July, 2023
- 18th International Congress on Photosynthesis Research, New Zealand. August, 2022
- "Straub-Napok" at Biological Research Centre (BRC), Szeged, May 2022
- National conference on Biotechnology and Environment, New Delhi. April, 2017

## Extracurricular Activities

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### School Councilor

Elected as "School Councilor" for the School of Life Sciences, University of Hyderabad, in the student union election. 2017-2018

### Ambassador of Peace

Conferred as "Ambassador of Peace" in a training workshop in Jamia Millia Islamia in collaboration with British High Commission, New Delhi February, 2017