

## Report on the photobiology conference

To present our research achievements, on November 24-26, 2008, I attended the “4<sup>th</sup> Asia Oceania Conference on Photobiology” held in Varanasi, India with a support from the BMC of Osaka University. On the conference, various strategies of photobiological components of physiological rhythm, light signaling, photosynthesis model and dynamics were discussed. All of these subject areas were very much related to my present research. I discussed my research achievements and results as well as my idea and future prospects with many international scientists. At the same time, listening the critical mass of science from other scientists was also a great opportunity. It was a great chance for me to attend the conference. After the conference, having a collaborative work, I visited Rajshahi University, Bangladesh, for about 3 weeks. In Osaka University, I have gained some experience observing living and fixed plant cells. So I taught how to use a fluorescence microscope in the Genetic Engineering Laboratory, Rajshahi University, Bangladesh. It was also a great experience for me as well as my colleagues..

I sincerely thank the association for this support.



At Delhi University, with attendants for the conference

### Contents of the presentation

#### **Title: Light-Dependent Intracellular Positioning of Mitochondria in *Arabidopsis thaliana* Mesophyll Cells**

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Mitochondria are one of the most dynamic cell organelles. There are so many reports on actin- or microtubule-dependent movement of mitochondria in plant cells. But light-dependent mitochondria intracellular positioning and redistribution have not been elucidated anywhere. Using *Arabidopsis thaliana* stably expressing green fluorescent protein fused with mitochondria-targeting signal, we aim to ask whether mitochondria in leaf mesophyll cells change their intracellular positions depending on different light conditions. To our knowledge, this report is the first one on light-induced mitochondria redistribution in plant cells.

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