

Tingyun Kuang
Congming Lu
Lixin Zhang

Photosynthesis Research for Food, Fuel and the Future

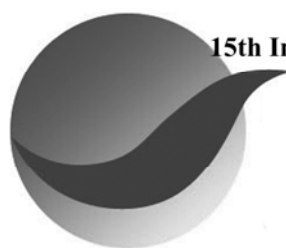
15th International Conference on Photosynthesis

**Tingyun Kuang
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Lixin Zhang**

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With 508 figures



**15th International Conference
on Photosynthesis
Beijing**

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Preface

Photosynthesis is a natural process that converts solar energy to chemical energy. It is widely distributed in many different organisms, ranging from plants to bacteria. It provides all the food we eat and all the fossil fuel we use. Photosynthesis has long been studied in order to understand its underlying mechanisms and then to apply this knowledge to produce energy and food for the needs of our society.

The 15th international conference on photosynthesis was successfully held on 22–27 August 2010, in Beijing, China. The conference was organized by the Institute of Botany, Chinese Academy of Sciences and International Society of Photosynthesis Research. The conference had a fantastic scientific program and featured eminent speakers and state-of-the-art symposium speakers who are at the cutting edge of discovery in their field. These speakers provided an exciting scientific program which covered the breadth and depth of photosynthesis from molecular to global.

Under the conference theme, “photosynthesis research for food, fuel and the future”, a total of 24 chapters were collected in this proceeding which contained twenty-three sections, each section representing one of the topics covered by plenary lectures and sessions at the conference. Therefore, the papers contained in this proceeding include all aspects of photosynthesis. We thank all conference participants and in particular those whose chapters are published here.

It is our belief that the Proceeding of the 15th International Conference on Photosynthesis will provide an opportunity for students, postdoctoral fellows and scientists from all over the world to enjoy the latest advanced developments on photosynthesis.

Tingyun Kuang
Chairman of Organizing Committee of
15th International Conference on
Photosynthesis, 2010, Beijing
10 January 2012

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