

Symposium on Recent Advances in Biotechnology for Food and Fuel

India Habitat Center, Lodhi Road, New Delhi 19-20th November, 2014

Organized by "The Energy and Resources Institute, New Delhi, India"

Since last few years, biotechnologists have taken great interest in the food sector and have made tremendous advances in food biotechnology. Applications of biotechnology have reached to a point where one cannot imagine any food item without it. Through biotechnology we can develop crops which are resistant to pests, diseases & adverse climatic conditions and yield more in terms of desired quality as well as quantity. A number of flavors and tastes we get using different types of recipes are all attributed to the desired use of biotechnological tools. Biotechnology is the only means through which we would be in a position to provide food security to all. We can develop those traits in crops which are of high nutrient value, for example crops like golden rice with source of Vitamin A require less resource such as water and fertilizers, are free from pests and diseases and are harvested in lesser time period.

Biofuels are also the leading source of sustainable and renewable energy. These fuels are a

great platform for the future of the world's energy supply. There is a need to develop new eco-friendly and cost-effective solutions which can fulfill the world's energy demand. Biomass is an ecofriendly and renewable energy source that can provide us cost competitive and high performance bio-power and biofuel products. First generation biofuels have been developed by microorganisms using their enzymatic potential on sugars, transesterification of oils and combustion of biomass in the form of bioalcohols, biodiesel, bio-ethers, biogas and syngas. However, the second generation biofuels are under development such as cellulosic ethanol, algal fuel, bio-hydrogen, bio-methanol, biohydrogen and wood diesel and researchers are working on their sustainability and impact on the environment and economy.



Hence it is expected that in the coming years advancement in biotechnology will perform more and more in the area of food and fuel biotechnology and will play a significant role in





food and fuel supply. In the symposium we will discuss various technical, environmental and economic issues related to fuels and foods of the future.

Topics to be covered:

- 1. Food security, sustainability and climate change.
- Understanding the link between agriculture-related investments, policies, and measures with climate smart agriculture.
- 3. Application of biotechnology and nanotechnology to increase agricultural productivity.
- 4. Food security, food safety and poverty alleviation.
- 5. Biotechnology in Pest Management.
- 6. Value addition of foods through bioactive compounds and nutraceuticals.
- 7. Food safety issues related to processing, process validation and remedial technologies.
- 8. Plant foods and their by-products as a valuable ingredient for functional foods and nutraceuticals.
- 9. Biomass feed stocks and biofuels.
- 10. Conversion and processing methods for bio-based products and their energy application.
- 11. Biofuels and their sustainability.
- 12. Biofuel: impact on environment and economy.
- 13. Recent trends in biofuel Industry.
- 14. Biomass supply and sustainability.

Abstract Submission:

Participants are requested to submit their abstract for presentation via e-mail as a word file attachment to <u>kaushikn@teri.res.in</u> before 10th October 2014 along with name, address, phone numbers and e-mail of the corresponding author. The scientific committee will review abstracts, and acceptance will be communicated.

The abstract should be typed in MS Word, Times New Roman, limited to a maximum of 300 words as: Title of the abstract 12 font size, running and bold; name of the authors and affiliation in 11 font size), centrally aligned, with the presenting author's name underlined; the text in 10 font size and single-spaced.

At least one of the authors must register for inclusion of Abstract in the Proceedings of the Conference.





Important dates:

- Submission of Abstract- 10th October 2014
- Confirmation of Abstract-15th October 2014
- Early Registration- 20th October 2014

Registration fees:

	Early (Rs)	Late (Rs)
Academia	5000	7000
Industry	7000	10000
Student	3000	5000

The registration fee may be paid in the form of demand draft/ cheque favoring "**The Energy** and **Resources Institute**, **New Delhi**" or can be paid through bank transfer through following bank details. While remitting fees through demand draft/cheque or bank transfer please mention "**Registration fee for Recent Advances in Biotechnology for Food and Fuel**".

Organizer:

Website: www.teriin.org

Bank details:

Name of the A/c hold	ler: The Energy and Resources Institute	Dr Nutan Kaushik
Name of the Bank:	State Bank of Hyderabad	Senior Fellow and Area Convenor,
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Registration Form

E-mail address:	Phone:
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If you are presenting, would you prefer a post	
(Note: Oral presentations are 15 min, with 5 more mi	
If your choice of oral presentation is not available wou	ald you be prepared to give a poster
instead? Yes No	
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Author(s):	
Registration Type: StudentAcademia	Industry (check on
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