



# 4th International Workshop

on

## Next Generation Genomics and Integrated Breeding for Crop Improvement

ICRISAT, Patancheru, India

February 19 - 21, 2014



Department of Biotechnology  
Ministry of Science and Technology  
Government of India

NGGIBCI-2014

### About the Program

Better communication and sharing of the ideas between scientists and stakeholders is the key to achieve the goal of global food security. This workshop will provide the platform for scientists to interact with each other and present their work and discuss different aspects of modern genomics and breeding for crop improvement. The workshop will be organized under well-structured technical sessions that will include invited lectures by eminent speakers in the fields of genetics, genomics, breeding and allied sciences. A poster exhibition on major themes may also be arranged during the workshop.

### Key Speakers/ Participants

Gary Atlin, *Bill and Melinda Gates Foundation, USA*  
Kailash Bansal, *National Bureau of Plant Genetic Resources, India*  
Jacqueline Batley, *University of Queensland, Australia*  
Colin Cavanagh, *CSIRO, Australia*  
Wang Chuangtang, *Shandong Peanut Research Institute, China*  
Doug Cook, *University of California-Davis, USA*  
Jose Crossa, *CIMMYT, Mexico*  
Swapan K Datta, *ICAR - New Delhi, India*  
HS Dhaliwal, *Eternal University, India*  
Dave Edwards, *University of Queensland, Australia*  
Fred van Eeuwijk, *Wageningen University, The Netherlands*  
Jeffrey Ehlers, *Bill and Melinda Gates Foundation, USA*  
Jeffrey Endelman, *University of Wisconsin, USA*  
Andreas Graner, *IPK-Gatersleben, Germany*  
Baozhu Guo, *USDA-ARS, University of Georgia*  
HS Gupta, *Indian Agricultural Research Institute - New Delhi, India*  
PK Gupta, *CCS University - Meerut, India*  
Vidya Gupta, *National Chemical Laboratory - Pune, India*  
John Hickey, *University of Edinburgh, UK*  
Shailaja Hittalmani, *UAS-Bangalore, India*  
Scott Jackson, *University of Georgia - Athens, USA*  
Andrzej Kilian, *DARt Pty Ltd, Australia*  
Peter Langdrige, *ACPFPG Pty Ltd, Australia*  
\*Hei Leung, *IRRI, The Philippines*  
Zhikang Li, *CAAS - Beijing, China*  
Xuanqiang Liang, *Guangdong Academy of Agricultural Sciences, China*  
Aaron Lorenz, *University of Nebraska-Lincoln, USA*  
David Marshall, *The James Hutton Institute, UK*  
Ramil Mauleon, *IRRI, The Philippines*  
Graham McLaren, *GCP, Mexico*  
Kenneth McNally, *IRRI, The Philippines*  
\*Albrecht Melchinger, *University of Hohenheim, Germany*  
T Mohapatra, *Central Rice Research Institute, India*  
T Nopoulos, *Indian Agricultural Research Institute - New Delhi, India*  
Frank Ordon, *Julius Kuehn-Institute Quedlinburg, Germany*  
Deepak Pental, *University of Delhi South campus, India*  
Jesse Poland, *Kansas State University, USA*  
K Vinod Prabhu, *Indian Agricultural Research Institute - New Delhi, India*  
BM Prasanna, *CIMMYT, Kenya*  
Jochen C. Reif, *IPK-Gatersleben, Germany*  
EA Siddiq, *ANGRAU, India*  
AK Singh, *Indian Agricultural Research Institute - New Delhi, India*  
NK Singh, *National Research Center on Plant Biotechnology, India*  
Tim Sutton, *ACPFPG, University of Adelaide, Australia*  
Roberto Tuberosa, *University of Bologna, Italy*  
\*Richard Visser, *Wageningen University, The Netherlands*  
Peter Wenzl, *CIMMYT, Mexico*  
Yunbi Xu, *CIMMYT, China*  
Shanlin Yu, *Shandong Peanut Research Institute, China*  
\* yet to be confirmed

### Inaugural Speaker

Wang Jun,  
Executive Director  
BGI-Shenzhen, China  
Digital Revolution of Agriculture-What omics can do?

### Concluding Speaker

Jean-Marcel Ribaut,  
Director, Generation Challenge Program  
GCP, Mexico  
Adoption of modern breeding tools in developing countries: challenges and opportunities



### Workshop Topics

- Next generation genomics
- Novel mapping approaches and QTLs
- Advances in phenotyping and trait mapping
- Marker-assisted selection / backcrossing
- Genomic Selection
- Decision support tools for breeding
- New horizons for Crop improvement

### Workshop Organizer

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