



**ABSTRACTS
AND
PROGRAM**

**The Fifth Field Crops Conference
(Towards Food Security)**

18-20 Nov. 2014

Under auspices of His Excellency

**Prof. Dr. Adel El-Beltagy
Minister of Agriculture and Land Reclamation**

Organized by

**Field Crops Research Institute
Agricultural Research Center**

Giza, Egypt

Foreword

The Fifth Field Crops Conference sponsored by Field Crops Research Institute (FCRI), Agricultural Research Center (ARC) is being held during 18-20 November 2014 under the patronage of HE Prof. Dr. Adel El-Beltagy, Minister of Agriculture and Land Reclamation. The Conference aims at presenting the FCRI achievements as well as disseminating developed technologies for increasing crop production and quality. The theme of the Conference is "Towards Food Security" focusing on current and future challenging dilemma of food shortage with extraordinary annual population growth in Egypt. This will be delivered by keynote speakers featuring some important up-to-date topics such as MALR Policies and Strategies, Role of Seed Improvement in Crop Production, Achieving Food Security in Strategic Field Crops, Utilization of Genetic Resources for Food Security under Climate Change, and FCRI/ICARDA Cooperation in Field Crops.

More than 45 research papers from different disciplines were submitted to the Scientific Committee of the Conference, out of which, 39 were thoroughly selected and accepted for oral presentation during the course of the Conference. In addition, an Agricultural Exhibition is held along with the Conference events for three full days.

We would like to express our deep appreciation to all the support provided by H.E. Dr. Adel El-Beltagy, Minister of Agriculture and Land Reclamation. Thanks are also due to the president of ARC, Dr. Abdel Moneim El-Banna for his sincere support and backing up our research activities. Our truthful gratitude goes without saying to all the staff of FCRI and also to the members of the Organizing and Scientific Committees for their efforts and hard work they exerted to make this Conference successful. Finally we would like to express our deep appreciation to the seed private sector, especially Nile Seed Company, United Hybrids International, The Egyptian Agricultural Company for Seed Production and Misr Hytech seed Int. S.A.E. for their precious support.

We wish you very useful and fruitful discussions and recommendations out of this imperative Conference.

Program of the Conference
The Fifth Field Crops Conference
18-20 Nov. 2014

Time	Speaker	Topic
TUESDAY		
18/11/2014		
08:30 – 09:30 a.m.	REGISTRATION	
09:30 – 10:30 a.m.	OPENING SESSION	
	Dr. Mohamed Soliman Director, FCRI	Opening Remarks, FCRI Activities, Achievements & Future Outlook
	Dr. Abd El-Moneim El-Banna	Welcome Address
	HE Prof. Adel El-Beltagy (MALR)	Opening Statement
10:30 – 11:00 a.m.	Coffee Break	
11:00 – 12:00 p.m.	1st Session (Joint): Chairman: Dr. Abdel Salam Goma'a Rapporteur: Dr. Rashad Abu El-Enein	
11:00 – 11:30 a.m.	Dr. Saad Zaki Nassar	Ministry of Agriculture and Land Reclamation (Policies and Strategies for Food Security)
11:30 – 12:00 a.m.	General Discussion	
CONCURRENT SESSIONS		
12:00 – 02:00 p.m.	2nd Session (Concurrent): Room A: Agronomic Production Systems: Chairman: Dr. Mahmoud Zaki Hassan Rapporteur: Dr. Mohamed El-Borae	
12:00 – 12:20 p.m.	Nitrogen use efficiency and organic fertilizer effects on maize productivity El-Mekser, Hoda, Kh.A.; Zeinab, E. Ghareeb, and Hoda, E.A.	

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	Ibrahim
12:20 – 12:40 p.m.	Sowing method effects on barley yield under rainfed conditions in Egypt Ashmawy, H.A.; and A.A. El-Sayed
12:40 – 01:00 p.m.	Evaluation of pre-emergence and post-emergence herbicidal combinations in dibble-seeded rice Abou El Darag, I.H.; and S.M. Shebl
01:00 – 01:20 p.m.	Multiple cutting as affected by forage yield and growth index relationship in alfalfa Seiam, Mofeeda, A.; Mona, M.F. Ghazi; and Shereen M.A. El-Nahrawy
01:20 – 01:40 p.m.	Effect of some intercropping patterns of soybean with maize on growth, yield and yield components and water use efficiency Lamloum, M.M.; and M.M. Ewis
01:40 – 02:00 p.m.	General Discussion
02:00 – 03:00 p.m.	Lunch
Room A: Agronomic Production Systems (Cont'd)	
03:00 – 05:00 p.m.	3rd Session: Chairman: Dr. Sami Reda Rapporteur: Sadek El-Shahat
03:00 – 03:20 p.m.	Advantage of strip intercropping system and ridge position on yield of maize, soybean, and sorghum Eissa, Nadia, M.A.
03:20 – 03:40 p.m.	Influence of top leaf defoliation on growth and yield of rice under different sowing dates Metwally, T.F.; E.E. Gewaily; and M.M. El-Malky
03:40 – 04:00 p.m.	Seeding rate effects on yield and its components and grain quality of barley under new land conditions Shendy, M.Z.; Heba A. Goma'a; and K.A. Amer
04:00 – 04:20 p.m.	Trends and potential of Egyptian wheat germplasm for allelopathic activity against mono- and di-cot weeds. El-Maghraby, M.A.; Y.M. Mabrouk; and Maha, A. Gadallah

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04:20 – 05:00 p.m.	General Discussion
ROOM B: (Crop Breeding & Genetics)	
12:00 – 02:00 p.m.	2nd Session: Chairman: Dr. Abd Rabu Ismail Rapporteur: Dr. Mostafa Azab
12:00 – 12:20 p.m.	Heterosis and combining ability for seed yield and its components of sesame in South Egypt Abo Elezz, A.A.; Ghada, B. Abd El-Aziz; and Fadia, H.A. Ahmed
12:20 – 12:40 p.m.	Genetic behavior of brown spot disease in some rice genotypes Abo Youssef, M.I.; M.S. Sultan; M.A. Abdel-Moneam; M.M. El-Shenawy
12:40 – 01:00 p.m.	Genetical studies on barley productivity in relation to leaf rust infection Mansour, M.; A.G. Abdel-Hafez; KH. A. Amer; and E.E. El-Shawy
01:00 – 01:20 p.m.	Combining ability and gene action of grain yield and its components for some parental lines used in hybrid rice production Awad-Allah, M.M.A.; A.A. Kotb; A.A. El-Gohary; and B.B. Mikhael
01:20 – 01:40 p.m.	Combining ability for grain yield and its attributing characteristics under water deficit in rice Gaballah, M.M.
01:40 – 02:00 p.m.	General Discussion
02:00 – 03:00 p.m.	Lunch
Room B: Crop Breeding & Genetics (Cont'd)	
03:00 – 05:00 p.m.	3rd Session: Chairman: Mohamed El-Nahrawy Rapporteur: Abou Bakr Abou Warda
03:00 – 03:20 p.m.	Generation mean analysis for some quantitative traits in bread wheat: I-Agronomic characteristics Abd El-Hamid, E.A.M and M.N.A. El-Hawary
03:20 – 03:40 p.m.	Combining ability estimates for grain yield and its components of yellow maize inbred lines El-Refaey, R.A.; A.M. Shehata; and A.M. Abu Shosha
03:40 – 04:00 p.m.	Combining ability estimates for grain yield and its components of white maize inbred lines El-Refaey, R.A.; A.M. Shehata; and A.M. Abu Shosha
04:00 – 04:20 p.m.	Estimate of combining ability of new yellow maize inbred lines using top crosses Gamea, H.A.A.

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04:20 – 05:00 p.m.	General Discussion	
WEDNESDAY 19/11/2014		
09:00 – 10:30 a.m.	4th Session (Joint): Chairman: Dr. Fawzi Naem Rapporteur: Dr. Galal Mahgoub	
09:00 – 09:30 a.m.	Dr. Abd Rabou Ismail Maize Res. Dep., FCRI	Achieving Food Security in Strategic Field Crops
09:30 – 10:00 a.m.	Dr. Ahmed Kamel Chairman and Manager of United Hybrids International	Role of Seed Improvement in Crop Production
10:00 – 10:30 a.m.	General Discussion	
10:30 – 11:00 a.m.	Coffee Break	
11:00 – 01:30 p.m.	5th Session (Concurrent Sessions): Room A: Genomics, Molecular Genetics & Biotechnology: Chairman: Dr. Maher Noaman Rapporteur: Dr. Ahmad Hamdy	
11:00 – 11:20 a.m.	Molecular markers associated with resistance to leaf rust in barley Samah, A. Mariey; I.A.Khatab; and K. Toshihiro	
11:20 – 11:40 a.m.	Yield, quality, and molecular markers of new lentil mutant lines Hamdi, A.; Aziza M. Hassanein; M. Shaaban; and Zakia M. Ezzat	
11:40 – 012:00 p.m.	Development of some dihaploid rice lines under salinity and water deficit conditions using anther culture technique El-Moghazy, A.M.	
12:00 – 12:20 p.m.	Salinity tolerance in some doubled haploid bread wheat lines Khaled, I.G. and Ola, M. Mohamed	
12:20 – 12:40 p.m.	Biochemical markers associated with soil-born and foliar disease resistance of high-yielding canola mutants Azzam, Clara, R.; M.M.A. Khalifa; and Doaa, A. Imara	
12:40 – 01:30 p.m.	General Discussion	
01:30 – 02:30 p.m.	Lunch	
02:30 – 05:00 p.m.	6th Session (Concurrent Sessions): Room A: Soil Fertility and Water Management Chairman: Dr. Rashad Abou El-Enein Rapporteur: Dr. Mossad Abdul Aleem	
02:30 – 02:50 p.m.	Effect of salinity on yield and its components of some hull-less barley genotypes Khedr, Rania, A.; and Sahr, H. Rashed,	
02:50 – 03:10 p.m.	Performance of some rice cultivars under saline and sodic conditions	

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	Zayed, B.A.; T.F. Metwally; S.M. Bassiouni; and E.S. Naeem
03:10 – 03:30 p.m.	Nitrogen fertilizer and planting method effects on growth characteristics of rice Srour, F.A.; I.S. El-Refae; M.H. Ibrahiem; and I.A. Sheta
03:30 – 03:50 p.m.	Rice grain yield and water productivity as influenced by N fertilizer and compost under flooded and non-flooded conditions El-Rafae, I.S.; A.M. Ghoneim; and W.H. El-Kallawy
03:50 – 04:10 p.m.	Effect of nitrogen fertilizer and planting method on grain yield and quality of rice El-Refae, I.S.; F.A., Srour; M.H. Ibrahiem; and I.A. Sheta
04:10 – 05:00 p.m.	General Discussion
11:00 – 01:30 p.m.	5th Session (Concurrent Sessions): Room B: Crop Breeding and Genetics Chairman: Dr. Tag El-Din Shehab Rapporteur: Abdul Salam Draz
11:00 – 11:20 a.m.	Using marker-assisted selection to improve allelopathic activity in spring wheat Gadalla, Maha A.; Y.M. Mabrouk; M.A. El-Maghraby
11:20 – 11:40 a.m.	Genetical and molecular analysis of rice yield and some anatomical root traits under water deficit conditions El-Gamal, W.H.; A.E. Draz; M.M. Abd El-Maksoud; and A.M. El-Moghazi
11:40 – 12:00 a.m.	Selection efficiency and environmental sensitivity for grain yield of durum wheat under normal and deficit irrigation Soliman, G.M.M.; M.A. El-Morshidy; K.A. Kheiralla; and I.A. Amin
12:00 – 12:20 p.m.	Mean performance and stability of some sesame genotypes under six different environments Sedeck, F. Sh.; M.W.Sh. Mahmoud; and R.E.A. El-Shaayi
12:20 – 12:40 p.m.	Earliness, yield, and heat sensitivity in bread wheat under natural heat stress Menshawy, A.M.; A.A. Al-Soqeer; and S.M. Al-Otayk
12:40 – 01:00 p.m.	Genetical parameters of barley under different environments in Egypt Shendy, M.Z.; A.A. El-Sayed; and K.A. Amer
01:00 – 01:30 p.m.	General Discussion
01:30 – 02:30 p.m.	Lunch
02:30 – 05:00 p.m.	6th Session Room B: Various Topics Chairman: Dr. Mahmoud El-Emery Rapporteur: Dr. Esam Amer
02:30 – 02:50 p.m.	Salinity problem and rice development in Egypt (Review article)

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	Zayed, B.A.; S.M. Shehata; A.E. Draz; and H.F. El-Mowafi	
02:50 – 03:10 p.m.	Seed priming in relation to germination and field emergence of onion seed Kishk A.M.S.; and Abeer El-Ward A. Ibrahim	
03:10 – 03:30 p.m.	Using yield-stress model in irrigation water management in Egypt Ouda, S.A.; R.A. Abou El-Enein; T.A. Noreldin; and F.A. Khalil	
03:30 – 03:50 p.m.	Pathogenicity and molecular diversity of new isolates of rice blast fungus collected from different hosts El-Shafey, R.A.S.; A.A. Kotb; R.M. El-Amawi; A.F. Abdlkhalak; and S.A.A. Hmoudi	
03:50 – 04:10 p.m.	'Giza 29': A new high-yielding lentil cultivar Hamdi, A.; Zakia M., Ezzat; M. Shaaban; T.A.A. Selim; E.K. Gendy; E.M. Rabeia; Kh.M. El Yamany; M.A. Raslan; M.A. Bakheit; G.A. Abdel-Hafez; H.T. Abd El-Aal; Nagat S.A. Abdalla; and M.A. Ibrahim	
04:10 – 05:00 p.m.	General Discussion	
THURSDAY 20/11/2014		
09:00 – 10:30 a.m.	7th Session (Joint Session), Room A: Chairman: Dr. Mohamed Khalifa Rapporteur: Dr. Samia Mahmoud	
09:00 – 09:30 a.m.	Dr. Haneya Al-Atreby Director, National Gene Bank	Utilization of Genetic Resources for Food Security under Climate Change
09:30 – 10:00 a.m.	Dr. Marawan Owaygen ICARDA/ Cairo Office	FCRI/ICARDA Cooperation in Field Crops
10:00 – 10:30 a.m.	General Discussion	
10:30 – 11:30 a.m.	Coffee Break	
11:30 – 01:00 p.m. 11:30 – 12:00 p.m.	8th Session: (Joint Session) Room A: Chairman: Rashad Abou El-Enein Dr. Hamdy El-Mowafi Closing Remarks and Recommendations	
12:00 – 01:00 p.m.	Room B: Roundtable Discussion (Future Prospects of FCRI) (for invited participants) Mediator: Dr. Mohamed Soliman Rapporteur: Dr. Maher Noaman	