

1st Circular

**International Conference
on
Triticale Biology, Breeding and Production**

July 2-5, 2017

Organized by

Triticale Group of Cereal Section of EUCARPIA

at



**PLANT BREEDING AND ACCLIMATIZATION
INSTITUTE, NATIONAL RESEARCH INSTITUTE,
IHAR , Radzików, 05-870 Błonie, Poland**

In collaboration with:

**European Association For Research On Plant Breeding
(EUCARPIA)**



**International Foundation for Sustainable Development in
Africa and Asia (IFSDAA), Goettingen, Germany**

INVITATION

Dear Colleague,

Triticale is a man-made cereal crop that can be synthesized by hybridizing wheat (AABB/AABBDD with rye (*Secale cereale*, RR). Among the various types of triticale, hexaploid triticale (AABBRR) has been the most successful because of its superior vigor and reproductive stability. Triticale can be used as grain for human food and animal feed (mainly for pigs and poultry), as well as forage for livestock in the form of silage, fodder, grazing, and hay. In general, triticale combines the high yield potential of wheat with the biotic and abiotic stress tolerance of rye, making it more suitable for the production in marginal areas (acidic, saline, or soils with heavy metal toxicity). Despite having many advantages over wheat, global triticale production is still very low.

World triticale production in 2014 was 17.1 million metric tons, Top producers included Poland with 5.2 million metric tons (m mt) production followed by Germany 3.0 m mt, Belarus 2.1 m mt, France 2.0 m mt. (FAO Stat). Relatively low of Farmers' for triticale is due to factors including production and quality concerns, lack of stable end-use markets, unfavourable pricing compared to wheat, political strategic decisions and competition from other cereals. Among the production factors, susceptibility to diseases, such as ergot, Fusarium head blight (FHB), and leaf spots, pose major threats. Poor end-use quality for human consumption compared to wheat has been a major hindrance to widespread adoption of the crop. Specifically, the gluten strength of triticale is lower than wheat, which contributes to poor bread-making quality. Other production constraints include late maturity, preharvest sprouting, lower economic returns, lack of crop insurance coverage in some countries, limited research investment, lack of technology transfer, perception about triticale end-uses, lack of good-quality pedigreed seed, limited marketing options for farmers, and economic risks involved with triticale production.

Since the 1990s, many triticale cultivars have been developed that have gained widespread popularity across Europe. As a man-made crop, triticale relies on the incorporation of new variability through the creation of new primary and secondary triticale populations using various wheat, rye, and triticale accessions. Through germplasm exchanges, the genetic resources developed at CIMMYT and other breeding programs have become an integral part of modern breeding programs. To make triticale a successful crop, the primary objectives for breeding programs relate to lowering the production risks and costs of production, while increasing the economic returns per hectare. Production risks include losses due to various diseases and pests, and environmental factors such as weather-related damages. Enhancement of genetic variability in Triticale accessions through prebreeding, accumulation of favourable alleles in improved populations through recombination breeding, multilocation testing for adaptability have been the major strategy for triticale improvement in most programmes. In addition, the use of doubled haploids can increase selection efficiency through the expression of recessive alleles in completely homozygous lines. Likewise use of genomics can further accelerate breeding efficiency for target traits through precise characterization of genes controlling traits of interests through reliable screening and selective gene transfer strategies

Keeping these facts in view, EUCARPIA –Cereals section in collaboration with Plant Breeding and Acclimatization Institute (IHAR), Radzikow, Blonie, Poland and International Forum for Sustainable Development in Africa and Asia (IFSDAA), Goettingen, Germany have planned to organize an **International Conference on “Triticale Biology, Breeding and Production** at the beautiful campus of IHAR, Radzikow, Poland from July 2 to 5, 2017. We cordially invite researchers from various disciplines, development functionaries and policy planners from public, private and NGO sectors to discuss above stated issues and draw a coherent strategy for strengthening Triticale Research and Development as an integral component of food and feed security. We believe that Triticale can play an important role in sustainable crop production systems particularly in fragile environments and regions under the influence of climate change. We will be delighted to welcome you and your colleagues at Plant Breeding and Acclimatization Institute – National Research Institute (IHAR-PIB), Radzikow, Poland.

Prof.Rishi K.Behl
Secretary,IFSDAA
Convener,

Prof.Geert Haesaert
President,
IFSDAA

Dr.Andreas Boerner
Head of Cereal Section
EUCARPIA

Prof.Dr.Edward Arseniuk
Triticale Group Leader, Chair
IHAR

INFORMATION ABOUT THE CONFERENCE

The technical programme of the International Conference will consist of **plenary lectures, lead papers, contributory papers, poster presentations, discussions with scientists, policy planners, representatives from Industry and NGO's, and an exciting exhibition.**

Venue:	IHAR-PIB, Radzików, Poland
Dates:	July 2-5, 2017
Official Language:	English

OBJECTIVES:

1. Review the current global status of Triticale production and identify long term challenges for Triticale to be an integral component of food, feed, and nutritional security as well as sustainability;
2. Suggest strategies using modern biotechnological and conventional plant breeding techniques to achieve Triticale genotypes with high grain yield, better end use quality and stress tolerance.;
3. Provide an opportunity to exchange knowledge and technologies on Triticale production, improvement and marketing ;
4. Establish international Triticale consortium/forum/network of researchers and development functionaries in a global network mode for international cooperation

MISSION

IHAR-PIB, Radzikow, Poland, Eucarpia and IFSDAA, Germany being scientific and Developmental organizations, are primarily interested in science-based and policy-related contributions in all areas of relevant research on Sustainable Development, Food, Feed and nutritional Security, Bio-energy, Environmental and agricultural sustainability as defined in per UN Millennium goals..

Themes: Contributors are requested to specify topic of the Conference for which their intended presentation from among the following themes and related topics.

- Triticale biology , taxonomy , biodiversity and genetic resources
- Genetics , breeding and biotechnology for Triticale improvement ;
- Physiology , tolerance to biotic and abiotic stresses and maximizing input use efficiency
- Production , crop management through judicious agronomy and plant protection
- End use and nutritional quality ,value addition , food and feed products, industrial uses;
- Marketing , policy and socio-economic issues,
- Seed production, participatory plant breeding, and international cooperation.

INFORMATION

About IHAR-PIB

Research focus. The Plant Breeding and Acclimatization Institute—National Research Institute (IHAR-PIB) is the largest Research Center in Poland in the multi-disciplinary area of plant improvement, biotechnology, germplasm conservation and enhancement. Established in 1951, the Institute is recognized as a leading research center for crop improvement and food security not only in Central Europe, but also at the international scale. Research achievements of IHAR-PIB reflected in released cultivars and frequently cited publications in highly respected for scientific merit in highly respected journals, resulted in wide contacts with international community of researchers and plant breeders. The Institute has build up units that work on GMO testing, biosafety and basic research with the use of GMO. IHAR-PIB continues to develop an extensive collaboration in the field of plant breeding, seed science and certified seed production technologies to be a competitive agricultural research center, not only in Europe but also worldwide.

About Radzikow:

Radzikow is situated in the central part of Poland's lowland. IHAR-PIB is a Research Center located between trees and fields. Among attractions, a few kilometers distant from IHAR-PIB headquarters at Radzikow, is a primeval forest "Puszcza Kampinowska" and Fryderyk Chopin Museum at Żelazowa Wola.

Climate and weather: Month of July is generally pleasant. Plenty of bright, sunny days are present. Average air temperature ranges between------. Windy weather and rains happen occasionally.

REGISTRATION FEE:

500 EUR (including accommodation in a single room)

450 EUR (including accommodation in a double room)

Payment of registration fee should be made through bank transfer up to May 30, 2017.

For participants from Poland:

Bank: BGŻ S.A. w Warszawie

Beneficiary: Instytutu Hodowli i Aklimatyzacji Roślin-PIB, Radzików, 08-870 Błonie, NIP: 529-000-70-29

Account no. 47 2030 0045 1110 0000 0094 2390

Note, remark: Conference July 2-5,2017 + name of participant(s)

For participants from EU and other countries:

Bank: PEKAO SA I Oddzial w Bloniu

Beneficiary: Instytutu Hodowli i Aklimatyzacji Roślin - PIB, Radzików, 08-870 Błonie,
NIP (VAT): PL 529-000-70-29

Account no. (IBAN): PL 54 1240 2164 1111 0000 3561 7204

Note, remark: Conference 10-12.09.2012 + name of participant(s)

BOARD AND LODGING:

Accommodation of a standard class rooms (1,2-bed) and full board for all participants is offered in a Hotel in Warsaw and the Conference site.

A free bus shuttle between the hotel and the IHAR Conference site will be available for transportation during the convention hours.

The Conference programme will take your time from 8:00 am to even 9:00 pm (some days)

The registration fee paid entitles everyone to participation in all conference events. Within the registration fee participants will receive:

Accommodation (4 nights)

Transport from hotel to conference site and back,

Conference party, lunches and suppers from **Sunday through Wednesday**,

Conference coffee and tea at breaks,

Conference materials, book of abstracts including.

Social programme - Conference dinner and Warsaw sightseeing tour

Cancellation and refund:

Cancellation of participation must be send via e-mail to k.mitura@ihar.edu.pl **before June 15, 2017** for a full refund less the bank charges 50 PLN. No refunds are available after June 15, 2017.

Liability:

The Conference fees DOES NOT include provisions for the insurance of participants against personal injuries, sickness, theft or property damage. Participants are advised to take whatever insurance they consider necessary.

PRESENTATIONS

Paper/Poster of registered participants will be published. One registrant can submit only one paper.

ORAL PRESENTATION:

Oral presentations will be limited to **15 minutes**, including 2-3 minutes for discussion. The Scientific Program Committee may invite a speaker to extend the length of a presentation, authors will be contacted in advance. The customary audiovisual: notebook and projector, will be available. If other facilities would be required, please notify local organizers in advance, so perhaps we will be able to assist you with our help.

Poster Presentation:

Posters (80cm x120 cm) should include title, name and address of the author(s), short introduction, method and material, results and conclusions. The poster sessions will be arranged thematically around the main Conference themes.

Abstract:

Maximum one page (A4 size, 12 Times New Roman font), **up to June 15, 2017..**

Full paper for publication:

Preferably up to July 2, 2017. Exact guidelines and a deadline to submit manuscripts will be specified and mailed to you with the 2nd Circular.

PATRONAGE:

MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT

International Advisory Committee

Prof. Edward Arseniuk, Poland, Chair
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REGISTRATION FORM

International Conference
on
Triticale Biology , Breeding and Production
July 2-5, 2017

1	Family Name (in block letters)	
2	First Name	
3	Title	
4	Gender	
5	Institution and Mailing Address	
6	Phone & fax	
7	E-mail	
8	Title of	presentation: presentation:

9	Registration Fee	
10	Accommodation (required)	Single room: Yes No Double room: Yes No
11	Place & Date	Signature

Please complete, sign and return this form before May 15, 2017 **to:**
 Karolina Mitura on e-mail: k.mitura@ihar.edu.pl or -----
 This preregistration form is available on IHAR homepage: www.ihar.edu.pl/.....