Cereal production dramatically increased after the green revolution (1960-1990), but the production rate is now decreasing (see http://www.wheatinitiative.org/about-wheat/factsheets-infographics). The reason is a slight decrease of the surface cultivated with cereals because of competition with other crops or non-agricultural uses. Another reason is a slower yield progression, partially attributed to climate change. To face the challenge of food security for an ever growing world population, cereal yield must be pushed upward, but not at any cost. Indeed, intensive production systems using fertilizers and pesticides are increasingly questioned for their negative impacts on the environment or human health. Consumers and citizens are also more and more demanding for sustainable farming systems and safe products.

Plant breeding is often presented as a sustainable way to produce more and better. Recent developments in genomics, genotyping, phenotyping and breeding methodologies open new perspectives to design future varieties, with higher performance or resilience, targeting more specific conditions and utilizations, and more environmentally friendly.

The cereal section congress of EUCARPIA (www.eucarpia.org) is the opportunity to learn about recent developments in genetics and cereal breeding, from basic research on quantitative genetics, breeding methodology, crop modelling, genome organization and evolution to applied research on genome editing, QTL detection for marker assisted selection, plant-micro-organism interaction, biotic and abiotic stresses.

The 2nd edition of the International Wheat Innovation Workshop (IWIW2) is the opportunity to present complementary results obtained in major wheat programmes and pave the way for future collaborations and funding opportunities.
**REGISTRATION FEES**

Registration fee includes admission to all sessions, welcome reception, symposium lunches and dinners, coffees and refreshments in the breaks, excursion, volcanic event and electronic abstract book.

<table>
<thead>
<tr>
<th></th>
<th>Registration until November 30th, 2017</th>
<th>Registration until January 31st, 2018</th>
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<tbody>
<tr>
<td><strong>EUCARPIA Members</strong></td>
<td>400.00 €</td>
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<td><strong>Non EUCARPIA Members</strong></td>
<td>440.00 €</td>
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<tr>
<td><strong>Accompanying Persons</strong></td>
<td>150.00 €</td>
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Participation to the IWIW2 on March 22 is free.

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**PRACTICAL INFORMATION**

**Early bird registration**  June 1st - November 30th 2017  
**Late registration**  December 1st 2017 - February 28th 2018  
**Abstract submission**  August 1st – December 1st 2017  

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**EUCARPIA PRE-PROGRAMME**

**Key-note speakers**  
**19 – 21 March 2018**

**Introduction**  
*Catherine Feuillet - Bayer, USA*

**Session I**  
Characterization and use of genetic resources  
*Andreas Graner - IPK, Germany*

**Session II**  
Genomics and epigenomics in the post sequence era  
*Scott Allen Jackson - U Georgia, USA*

**Session III**  
Yield potential and resource efficiency  
*John Foulkes - U Nottingham, UK*

**Session IV**  
Improving tolerance to biotic and abiotic stress  
*Heribert Hirt - KAUST, Saudi Arabia*

**Session V**  
High quality and safe cereals for food, feed and industrial use  
*Tatsuya Ikeda - NARO, Japan*

**Session VI**  
Future challenges and innovations  
*Peter Rogowski - INRA, France*

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**IWIW2 PRE-PROGRAMME**

**22 March 2018**

**Introduction**  
*Achievements of the Wheat Initiative, Progress update on major multi-country/institutions wheat research programs, European Commission funding opportunities, Future important breeding targets*

**Session I**  
Genetic resources and pre-breeding

**Session II**  
Phenotyping and adaptation

**Session III**  
Bio-informatics

For each session, presentations and exchanges around results from major wheat programs

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For further information:  
CerealesEucarpia2018@inra.fr