



**EUCARPIA Cereals Section**  
**Wrocław University of Environment and Life Sciences**  
**International Conference on Rye Breeding and Genetics**  
**24<sup>th</sup> - 26<sup>th</sup> June 2015, Wrocław, Poland**



**FINAL PROGRAMME**

***Tuesday, 23<sup>th</sup> June 2015***

From 16.00 Arrival, Hotels: Jan Paweł II, Wrocław, 2 Św. Idziego St. or  
DS Labirynt, ul. Sopocka 23 or DS Raj ul. Pautscha 5/7

18.00 – 19.00 Participant registration (Jan Paweł II Hotel)

19:00 Dinner & welcome meeting (Jan Paweł II Hotel)

***Wednesday, 24<sup>th</sup> June 2015***

Conference at Wrocław University of Environmental and Life Sciences, 24A Pl. Grunwaldzki

8.30 – 9.00 Participant registration

9:00 Addresses of Welcome  
Welcome by Wrocław University of Environmental and Life Sciences authorities  
Presentation of information about city of Wrocław

9:30 Welcome of the head of EUCARPIA Cereal Section, A. Börner, Gatersleben, Germany

9:40 Lucjan Madej: A personal reminiscence by J. Zimny, IHAR Radzikow, Poland

***Session 1: Thirty years of hybrid rye cultivars***

Chair: H.H. Geiger, University of Hohenheim, Germany

9:50 T. Miedaner, University of Hohenheim, Germany  
From phenotype to genomics (and back) - Breeding research in the last three decades

10:20 P. Wilde, KWS, Bergen, Germany  
Genetic gain from hybrid rye breeding: achievements and challenges

**10:50 - 11:20 Coffee & Tea Break**

***Session 2: General breeding methods***

Chair: P. Wilde, KWS LOCHOW GMBH, Bergen, Germany

11:20 J. Larsen, Lethbridge Research Centre, Lethbridge, Canada  
Historical, current and potential future trends for rye production and breeding in Canada

11:50 M. Pomomareva, Tatar Research Institute of Agriculture, Kazan, Russia  
A.A Goncharenko, Agricultural Research Institute of Central Region Non-Chernozem Zone, Nemchinovka, Russia  
Breeding progress and trends of winter rye yield in Central Russia

12:15 Z. Banaszak, Danko, Poland  
Rye varieties in Poland

12:35 E. Urban, I. Hardzei, SPCAF, Minsk, Belarus  
Breeding trends and cultivation of rye in Belarus



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**13:00 - 14:00 Lunch at the University**

***Session 3: Genomic prediction and selection***

Chair: M. Sorrells, Cornell University Ithaca, USA

- 14:00 M. Sorrells, Cornell University Ithaca, USA  
Genomic Selection in Plants: Training Population Design and GxE
- 14:30 M. Schönleben, TUM Munich, Germany  
Genomic prediction across breeding cycles in rye
- 15:00 K. Schmid, University of Hohenheim, Germany  
RYE-Select: Genomic differentiation and artificial selection in the two German rye (Secale cereale) breeding pools
- 15:20 Y. Wang, Univ. Hohenheim/IPK Gatersleben, Germany  
Genome-wide prediction of testcross performance and phenotypic stability for important agronomic and quality traits in elite hybrid rye

**15:40 – 16:10 Coffee & Tea Break**

***Session 4: Emerging molecular tools***

Chair: P. Masojc, West Pomeranian University of Technology, Szczecin, Poland

- 16:10 E. Bauer, TUM, Freising, Germany  
Rye – Don't be afraid of an 8 gigabase genome jigsaw
- 16:40 B. Hackauf, Julius-Kühn-Institute, Groß Lüsewitz, Germany  
Approaching complex traits in the rye genome by association mapping and comparative genomics
- 17:10 V. Korzun, KWS LOCHOW GMBH, Germany  
Genomics and molecular breeding in rye - Current view and future development
- 17:30 P. Masojć, West Pomeranian University of Technology, Szczecin, Poland  
Bidirectional selective genotyping – a method to reveal molecular mechanisms underlying preharvest sprouting in rye
- 17:50 S. Stojakowski, West Pomeranian University of Technology, Szczecin, Poland  
Towards localization of restorer genes for the C source of cytoplasmic male sterility in rye
- 18:10 J. Zimny, IHAR Radzikow, Poland  
Androgenesis in rye
- 18:30 End of the first day
- 19:30 Gala dinner**



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**Thursday, 25<sup>th</sup> June 2015**

Conference at Wrocław University of Environmental and Life Sciences, 24A Pl. Grunwaldzki

**Session 5: *Use of genetic resources and cytogenetics***

Chair: A. Börner, IPK Gatersleben, Germany

- 9:00 P. Dopierała, KWS LOCHOW POLSKA, Kondratowice, Poland  
Use of inbred lines from ancient Polish population varieties to broaden genetic diversity for hybrid rye breeding
- 9:20 A. Houben, IPK Gatersleben, Germany  
Origin and regulation of rye B chromosomes
- 9:50 A. Lukaszewski, Univ. California, Riverside, USA  
Introgressions from wheat to rye
- 10:20 E. Gacek, COBORU Słupia Wielka, Poland  
Legal bases and new trends in DUS testing in cereals

**10:50 – 11:20 Coffee & Tea Break**

**Session 6: *Disease resistance and tolerance to abiotic stresses***

Chair: T. Miedaner, Univ. Hohenheim, Germany

- 11:20 K. Flath, Julius-Kühn-Institute, Kleinmachnow, Germany  
Pathosystem analyses of rye/leaf rust and stem rust populations
- 11:50 B. Fowler, Univ. Saskatchewan, Canada  
Breeding for frost tolerance in rye
- 12:20 M. Rakoczy-Trojanowska, Warsaw University of Life Sciences, Poland  
Association analysis of benzoxazinoid-related traits in rye
- 12:40 A. Gordillo, KWS LOCHOW GMBH, Germany  
Evaluation of backcross progenies followed by molecular breeding approaches to develop rye hybrids adapted to new environments

**13:00 – 14:00 Lunch**

**14:00 – 15:00 Poster session & discussion**



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***Session 7: Nutritional and technological quality***

Chair: H. Bujak, Wrocław University of Environment and Life Sciences, Poland

Keynote speakers:

- 15:00 D. Boros, IHAR Radzikow, Poland  
European rye for enhanced food and feed
- 15:30 V. Kobylanskii and O. Soloduchina, VIR, St. Petersburg Russia  
Rye breeding for low water soluble pentosans and possibility of its use in animal feeding

***16:00 Closing Session (New location for next meeting in 2020 etc.)***

**16:30 – 18.30 Wrocław Sightseeing Tour**

**19:00 Dinner & social meeting in a restaurant**

***Friday, 26<sup>th</sup> June 2015***

A coach trip to the Breeding Station KWS LOCHOW POLSKA to Kondratowice

- 8:15 Meeting in the hotel lobby (Jan Paweł II Hotel)
- 8:30 – 9:30 Transfer to Kondratowice
- 9:30 – 10:15 Welcome in KWS LOCHOW POLSKA company  
Presentation KWS CEREALS activities in Poland  
Presentation of rye breeding work of KWS LOCHOW in Poland
- 10:15 – 10:45 Coffee & Tea Break
- 10:45 – 12:15 Tour on the breeding fields and facilities in Kondratowice
- 12:15 – 13:00 Rye Belt activities presentation
- 13.00 – 14:00 Lunch in Kondratowice
- From 14:00 Departure of participants