

# Innovation for Food and Health!



OATS  
2016

The 10th International  
Oat Conference

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# CONFERENCE PROGRAM & LIST OF PARTICIPANTS

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11-15 July 2016    St. Petersburg, Russia





## The 10th International Oat Conference

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The 10th  
International Oat Conference  
11-15 July 2016  
St. Petersburg, Russia

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&  
LIST OF PARTICIPANTS

**Hosted by**

N.I. Vavilov Institute  
of Plant Genetic Resources (VIR)

**Organized by**

Russian Federal Agency  
of Scientific Organizations

Russian Academy of Sciences

N.I. Vavilov Institute  
of Plant Genetic Resources (VIR)

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## **INTRODUCTION**

The International and Local Organizing Committees of the International Oat Conference welcome the participants and guests of the 10th International Oat Conference. A decision concerning the venue for the meeting to be held in 2016 was taken by the International Organizing Committee of the International Oat Conference held in Beijing, China, in 2012. By the unanimous vote, St. Petersburg was chosen as the place where the next International Oat Conference will be held. The decision taken was influenced by the fact that Russia is the largest global producer of oat, and has been making a major contribution in the field of oat study, breeding and utilization. We all are very pleased that the Conference will be hosted by the famous Vavilov Institute of Plant Genetic Resources (VIR).

About 130 participants from 30 countries of all continents have registered at the Conference website. The major topics covered by the Conference include: Genetic Resources, Diversity and Breeding; Genomics, Bioinformatics and Molecular Assisted Selection; Physiology, Pest and Disease Resistance; Agronomy, Nutrition, Health Claims and Diets; Production and Processing; Sustainable Farming Systems, Commercialization, Seed Production, and Royalties. The book of Abstracts includes 122 abstracts of oral and poster presentation.

## HISTORY OF INTERNATIONAL OAT CONFERENCE

International Oat Conference - is the world's largest event for World Oat Community. Since 1982, the International Oat Conference has been held once in four years in different countries of the world.

### **AMERICAN OAT WORKERS' CONFERENCE and FIRST INTERNATIONAL OAT RESEARCH WORKSHOP University Park, Pennsylvania, June 20-23, 1982**



**Participants of the 1st International Oat (Research Workshop) Conference**

2nd International Oat Conference – Aberystwyth, United Kingdom, 15-18 July 1985,

3rd International Oat Conference – Lund, Sweden, 4-8 July 1988,

4th International Oat Conference – Adelaide, South Australia, 19-23 October 1992,

5th International Oat Conference – Saskatoon, Canada, 29 July – 6 August 1996,

6th International Oat Conference – Canterbury, New Zealand 13-16 November 2000,

7th International Oat Conference – Helsinki, Finland, 16-23 July 2004,

8th International Oat Conference – Minneapolis, USA 28 June – 2 July 2008,

9th International Oat Conference – Beijing, China, 20-23 June, 2012

10th Anniversary International Oat Conference is organized in St. Petersburg, Russia, using the facilities of the N.I. Vavilov All-Russian Institute of Plant Genetic Resources (VIR) in cooperation with Russian scientific and commercial organizations and with support of oat experts from all over the world.

More information is available on website: <http://oatnews.org/node/127>

## **ORGANIZERS OF THE CONFERENCE**

### **International Oat Conference Committee**

Pamela Zwer (head), Australia

Nicholas Tinker, Canada

Igor Loskutov, Russia

Elisabeth Zechner, Austria

Luiz Carlos Federizzi, Brazil

Pirjo Peltonen-Sainio, Finland

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Changzhong Ren, China

Liliana Wehrhahne, Argentina

Mohamed Chakroun, Tunisia

Nezha Saidi, Morocco

Toshinobu Morikawa, Japan

### **Local Organizing Committee**

Nikolai Dzyubenko (head), N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Igor Loskutov, N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Elena Gaevskaya, N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Galina Batalova, Research Institute of Agriculture of North-East Regions

Aleksei Konarev, N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Evgenii Radchenko, N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Elena Potokina, N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Tatiana Gagkaeva, Institute of Plant Protection

Olga Afanasenko, Institute of Plant Protection

Valery Krasilnikov, Company "Protein plus", Food and Trading Institute

Alexander Rodionov, Komarov Botanical Institute RAS

Ekaterina Badaeva, N.I. Vavilov Institute of General Genetic RAS

Nikolai Bityutskii, St-Petersburg State University

Natalia Loskutova, N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Sergei Shuvalov, N.I. Vavilov Institute of Plant Genetic Resources (VIR)

Vladimir Metelitcyn, Company FAREXPO

# CONFERENCE PROGRAM

## 11 JULY, MONDAY

<b>17.00 – 19.00</b>	<b>REGISTRATION</b> Foyer of Congress-hall, Park Inn Pulkovskaya hotel
<b>20.00 – 22.00</b>	Welcome reception "Get together" Restaurant "Atrium", Park Inn Pulkovskaya hotel

## 12 JULY, TUESDAY

### CONGRESS-HALL, PARK INN PULKOVSKAYA HOTEL

<b>08.30 – 09.15</b>	<b>REGISTRATION</b> Foyer of Congress-hall, Park Inn Pulkovskaya hotel
<b>09.15 – 10.00</b>	<b>OPENING CEREMONY</b>
<b>10.00 – 11.00</b>	<b>PLENARY SESSION 1</b> <i>Chair: Pamela Zwer</i> <i>Nikolai Dzyubenko</i> – VIR: strategy and problems. <i>Igor Loskutov</i> – Assessment of Avena Genepool for Main Breeding Directions <i>Galina Batalova</i> – Oats Breeding in Russian Federation: Results and Problems
<b>11.00 – 11.30</b>	<b>COFFEE BREAK</b>
<b>11.30 – 13.10</b>	<b>PLENARY SESSION 2</b> <b>GENETIC RESOURCES, DIVERSITY AND BREEDING</b> <i>Chairs: Igor Loskutov, Catherine Howarth</i> <i>Axel Diederichsen</i> – Changes in Utilization of the Oat Genepool Preserved by Plant Gene Resources of Canada <i>Steffen Beuch et al.</i> – Breeding for Hybrids – a Real Option in Oats? <i>Marcelo Pacheco et al.</i> – Genetic Progress in a Subtropical Oat Germoplasm <i>Changzhong Ren</i> – China Oats Research System <i>Toshinobu Morikawa et al.</i> – Assessment of Genetic Diversity and Adaptation of Oat ( <i>Avena sativa L.</i> ) Collection from North Africa and Central Europe
<b>13.10 – 14.00</b>	<b>LUNCH</b>
<b>14.00 – 15.40</b>	<b>PLENARY SESSION 3</b> <b>GENOMICS, BIOINFORMATICS AND MOLECULAR ASSISTED SELECTION</b> <i>Chairs: Nicholas Tinker, Elena Potokina</i> <i>Nicholas Tinker</i> – Haplotype Genotypes: Your Passport to Anywhere in the Oat World <i>Tim Langdon</i> – An Oat Nested Association Mapping Population <i>Elena Prats et al.</i> – Oat Adaptation to Mediterranean Climate: a Critical Analysis for Association Studies <i>Julio Isidro Sánchez</i> – How Should I Select the Individuals of My Training Population to Make Selections in GS? <i>Catherine Howarth</i> – Developing Enhanced Breeding Methodologies for Oats
<b>15.40 – 16.00</b>	<b>COFFEE BREAK</b>

<b>16.00 – 17.40</b>	<b>PLENARY SESSION 4</b> <b>PHYSIOLOGY, PEST, DISEASE RESISTANCE</b> <i>Chairs: Toshinobu Morikawa, Luiz Carlos Federizzi</i>
	<i>Pamela Zwer et al.</i> – Stress Sensitive Stages in Oat
	<i>Gracia Montilla-Bascón</i> – Revealing a Polyamine-ethylene Regulatory Node Linked to Drought Tolerance/Susceptibility in Oat
	<i>Åsmund Bjørnstad et al.</i> – Resistance to Fusarium Infections in Oats: Infection Process and Parameters in Resistance Breeding
	<i>Irene M. Griffiths et al.</i> – The Use of Disease Resistance Alleles in the UK Oat Breeding Programs
	<i>Kathy Esveld Klos et al.</i> – Pc58a QTL Sequence from a Bacterial Artificial Chromosome (BAC) Library of the Oat Cultivar Ajay

<b>18.30</b>	TRANSFER TO THE OFFICIAL CONFERENCE DINNER Meeting point – reception hall of Park Inn Pulkovskaya hotel
<b>19.00 – 22.30</b>	OFFICIAL CONFERENCE DINNER Restaurant "Metropol" (Sadovaya street, 22)
<b>23.00</b>	ARRIVAL TO PARK INN PULKOVSKAYA HOTEL

## 13 JULY, WEDNESDAY

### RED ROOM A+B

<b>08.30 – 10.00</b>	<b>PARALLEL SESSION 1</b> <b>GENETIC RESOURCES, DIVERSITY AND BREEDING</b> <i>Chairs: Axel Diederichsen, Ekaterina Badaeva</i>
	<i>Elina Kiviharju et al.</i> – Oat Genetic Resources in Finland
	<i>Ben Schmehe et al.</i> – On Farm Organic Oat Breeding
	<i>Antonio Costa de Oliveira et al.</i> – Breeding oats for grain quality in Southern Brazil
	<i>Liliana Wehrhahne et al.</i> – Oats in Argentina
	<i>Alfredo do Nascimento et al.</i> – A Brazilian Overview About Oat Cultivars for Ground Cover and Grazing
	<i>Bogusław Łapiński et al.</i> – The Ways of Oat Winterhardiness Improvement in Poland

### RED ROOM D

<b>08.30 – 10.00</b>	<b>PARALLEL SESSION 1</b> <b>AGRONOMY, NUTRITION, HEALTH CLAIMS AND DIETS</b> <i>Chairs: Michael McMullen, Trond Buraas</i>
	<i>Maja Boczkowska et al.</i> – Genotypic, Phenotypic and FTIR-based Metabolic Fingerprint Diversity in Oat Landraces in Relation to the Environment at the Place of Origin.
	<i>Tatiana Shelenga et al.</i> – Protein Markers and Metabolomics Approach for Identification of Oat Cultivars
	<i>Danuta Boros et al.</i> – Nutritional and Bioactive Properties of Hulled and Naked Genotypes of Oat Intended for Cultivation in Poland
	<i>Vadim Polonskiy et al.</i> – The Express Method of Oats Genotypes Evaluating on Beta-glucan Content

*Junyong Ge et al.* – The Breeding of High Yield High β-glucan Disease-resistant Naked Oat Strains – “Bayou 18” by Interspecific Hybridization  
*Aigul Abugaliyeva et al.* – The Quality and Productivity of All Russian Genetic Resources Institute Collection Naked Oats in Kazakhstan Conditions

10.00 – 10.30

COFFEE BREAK

## RED ROOM A+B

10.30 – 12.30

### PARALLEL SESSION 2

#### GENOMICS, BIOINFORMATICS AND MOLECULAR ASSISTED SELECTION Chairs: Tim Langdon, Julio Isidro Sánchez

*Nick Tinker* – Oat Global: Partners in Oat Research Initiatives

*Ziya Dumluipinar et al.* – High-throughput SNP Genotyping of Oat Landraces Originated from Turkey

*Andreas Katsiotis et al.* – A Close Look at the *Avena ventricosa* Populations of Cyprus

*Alexander Rodionov et al.* – The Origin of Few Polyploid *Avena* Species Inferred from the ITS Polymorphism Study.

*Leona Lejšová-Svobodová et al.* – Diversity of Oat Genetic Resources

*Ekaterina Badaeva et al.* – Karyosystematics of *Avena* L. Based on C-banding and FISH Analyses

*Yerlan Turuspekov et al.* – Genotype-environment Interaction Patterns in Oat Collection Grown in Kazakhstan

*Yuanying Peng et al.* – Genetic Mapping and a New PCR-based Marker Linked to Dwarfing Gene in Oat (*Avena sativa* L.)

## RED ROOM D

10.30 – 12.30

### PARALLEL SESSION 2

#### PHYSIOLOGY, PEST, DISEASE RESISTANCE

Chairs: Åsmund Bjørnstad, Tatiyana Gagkaeva

*XiaoYu Zhang et al.* – Identification and Biological Characteristics of *Glomerella graminicola* in Oat

*Bruce Winter et al.* – Effectiveness of Fungicides for Control of Crown Rust in Forage Oat in Australia

*Charlotte Martin et al.* – Phenotyping Fusarium Head Blight Resistance of Oat by Analysis of Morphological and Biochemical Properties of Grains

*Juho Hautsalo et al.* – Evaluating the Fusarium Resistance of Nordic Oats in Greenhouse

*Tatiyana Gagkaeva et al.* – Response of Oat Genotypes to Fusarium Infection and Mycotoxin Accumulation

*Päivi Parikka et al.* – Possibilities to Control Fusarium Infection in Oats with Fungicide Applications

*Torsten Schirdewahn et al.* – Elucidating the Cropping Factors Influencing Fusarium Species and Mycotoxin Occurrence in Swiss Oats

12.30 – 13.30

LUNCH

## RED ROOM A+B

<b>13.30 – 15.00</b>	<b>PARALLEL SESSION 3 GENOMICS, BIOINFORMATICS AND MOLECULAR ASSISTED SELECTION</b> <i>Chairs: Tim Langdon, Julio Isidro Sánchez</i>  <i>Zongwen Zhang et al.</i> – Genetic diversity of oat accessions from different countries revealed by SSR markers. <i>Lucia Gutierrez</i> – Incorporating genotype-by-environment and genomic information into oat breeding programs
	<b>PRODUCTION, PROCESSING, PRODUCTS AND CONSUMERS</b> <i>Chairs: Merja Vetelainen, Nezha Saidi</i>  <i>Maria Chekina et al.</i> – Development of Short Germination Malt Technology from Vyatsky Naked Oat <i>Vitaly Popov et al.</i> – Functional and Technological Properties of Oat Grain and a Line of Promising Food Products on its Basis

## RED ROOM C & COFFEE BREAK AREA OF THE CONFERENCE

<b>13.30 – 15.00</b>	<b>POSTER SESSION</b> <i>Chair: Steffen Beuch</i>
<b>15.00 – 15.30</b>	COFFEE BREAK
<b>15.00 – 16.30</b>	<b>MEETING OF ECPGR AVENA WORKING GROUP</b>
<b>15.30 – 16.00</b>	<b>VISIT DISPLAYS (SPONSORS AND OTHER COMPANIES)</b>
<b>17.00</b>	TRANSFER TO THE N.I. VAVILOV INSTITUTE, Meeting point – reception hall of Park Inn Pulkovskaya Hotel
<b>18.00 – 20.30</b>	Visit to the N.I. Vavilov Institute by groups of participants for overview excursion including N.I. Vavilov Memorial Museum, Long-term Cold Seed Storages and Herbarium
<b>21.00</b>	ARRIVAL TO PARK INN PULKOVSKAYA HOTEL

## 14 JULY, THURSDAY

<b>08.30 – 09.30</b>	TRANSFER FROM HOTEL TO PUSHKIN BRANCH VIR
<b>09.30 – 13.00</b>	<b>FIELD SESSION</b> <i>Chairs: Igor Loskutov, Galina Batalova</i>
<b>13.00 – 14.30</b>	LUNCH AT OPEN AIR IN THE RESTAURANT "RUSSKOE ZASTOLJE" IN PUSHKIN
<b>14.30 – 15.00</b>	TRANSFER TO PAVLOVSK PALACE
<b>15.00 – 18.00</b>	PAVLOVSK PALACE TOUR
<b>19.00</b>	ARRIVAL TO PARK INN PULKOVSKAYA HOTEL

# 15 JULY, FRIDAY

## RED ROOM A+B

<b>08.30 – 10.10</b>	<b>PLENARY SESSION 5 AGRONOMY, NUTRITION, HEALTH CLAIMS AND DIETS</b> <i>Chairs: Olof Olsson, Changzhong Ren</i>  <i>Jennifer Mitchell Fetch et al.</i> – Differential Transcription of Avenanthramide Biosynthesis Genes in Oat Embryos <i>Nezha Saidi et al.</i> – Assessment of Important Technological Parameters of New Moroccan Domesticated Tetraploid Oat Lines <i>Olof Olsson</i> – Oat - a Crop Full of Possibilities
<b>10.10 – 10.30</b>	COFFEE BREAK
<b>10.30 – 11.50</b>	<b>PLENARY SESSION 6 PRODUCTION, PROCESSING, PRODUCTS AND CONSUMERS</b> <i>Chairs: Andreas Katsiotis, Zongwen Zhang</i>  <i>Outi E. Mäkinen et al.</i> – Oat Protein Ingredients – Processing and Applications <i>Qun Shen et al.</i> – Study on Enzymatic Processing and Soluble β-glucan Variation of Turbid Oats Beverage <i>Sofya Sergeeva et al.</i> – Food Fibers and Avenins of Grains of Perspektive Naked Russian Oat Cultivars
<b>11.50 – 12.50</b>	LUNCH
\ <b>12.50 – 14.30</b>	<b>PLENARY SESSION 7 SUSTAINABLE FARMING SYSTEMS, COMMERCIALIZATION, SEED PRODUCTION, AND ROYALTIES</b> <i>Chairs: Christopher Green, Peter McCormack</i>  <i>Christopher Green</i> – Oats, the first 32,000 years and the next 10 <i>Peter D. McCormack et al.</i> – Commercialisation and End-point Royalty Collection in Australia <i>Bao-Luo Ma et al.</i> – Adaptation Strategies of Contrasting Oat Genotypes to Planting Pattern and Population Densities <i>Guiqin Zhao et al.</i> – The Effect of 2,4-D Butyl Ester on Percentage of Covered Grains in Naked Oat and its Residue Dynamics in Oat Plants <i>Lijun Li et al.</i> – Different Intercropping Patterns Affecting Soil Characteristics of Intercropped Oat with Common Vetch and Alfalfa
<b>14.30 – 14.40</b>	<b>CLOSING OF THE CONFERENCE</b> <i>Chair: Igor Loskutov</i>
<b>14.40 – 15.30</b>	<b>IOC BUSINESS MEETING</b> <i>Chair: Pamela Zwer</i>
<b>16.00 – 19.30</b>	<b>BUS GUIDED CITY TOUR (COMPLIMENTARY)</b> Meeting point – reception hall of Park Inn Pulkovskaya Hotel
<b>19.30</b>	<b>COMPLETION OF BUS GUIDED CITY TOUR IN THE CITY CENTER (OSTROVSKOGO SQUARE)</b> Transfer to Park Inn Pulkovskaya Hotel (who wants)

<b>19.30 – 21.30</b>	FREE TIME AT THE CITY FOR PARTICIPANTS OF NIGHT BOAT TRIP (OPTIONAL)
<b>21.30</b>	MEETING AT THE OSTROVSKOGO SQUARE, TRANSFER TO THE BOAT
<b>21.00</b>	TRANSFER FROM PARK INN PULKOVSKAYA HOTEL TO THE NIGHT BOAT TRIP (OPTIONAL) Meeting point – reception hall of Park Inn Pulkovskaya Hotel
<b>21.45</b>	BOARDING ON THE BOAT
<b>22.00 – 00.00</b>	NIGHT BOAT TRIP WITH "FINGER BUFFET"
<b>00.00</b>	TRANSFER TO PARK INN PULKOVSKAYA HOTEL

# LIST OF POSTER PRESENTATIONS

## 1. Genetic Resources, Diversity and Breeding

- 1.1 Identification and characterization of high-protein oat lines from a mutagenized oat population  
*Bindu A. Similkumar, Rickard Öste and Olof Olsson*
- 1.2 The high quality naked oat cultivars for functional food  
*Boris L. Ganichev, Olga A. Isachkova, Igor G. Loskutov*
- 1.3 Evaluation of some oat (*Avena sativa* L.) genotypes for yield and selected quality parameters grown under Trakya-Marmara region of Turkey  
*Turhan Kahraman, Ziya Dumluçinár, Cengiz Kurt*
- 1.5 Oats breeding in the Kuban region  
*Tamara Kuznetsova, Sergey Levshyanov, Nikolay Serkin*
- 1.5 Half-seeds; an efficient one step method to obtain homozygote lines for a specific trait  
*Svetlana Leonova, Bindu A Sunilkumar, Hans Olof Johansson, Johanna Lethin, Lars Sjögren, Yi Ren, Andreas Hansson and Olof Olsson*
- 1.6 The latest achievements of Moscow Agricultural Research Institute "Nemchinovka" in oat breeding  
*Mikhail I. Maksimenko, Aleksander D. Kabashov, Yakov G. Leibovich*
- 1.7 Finnish Oat Research Breeding and Production  
*Leena Pietilä and Merja Veteläinen*
- 1.8 White oat cultivar development at IAPAR – Brazil  
*Carlos Roberto Riede, Klever Márcio Antunes Arruda, Raceli Sandrin*
- 1.9 Flowering time, yield parameters and grain quality in oat collection harvested in Kazakhstan  
*Yerlan Turuspekov, Aigul Abugalieva, Asem Ashimova, Vladimir Chudinov, Grigoriy Sereda, Boribai Sariev, Saule Abugalieva*

## 2. Genomics, Bioinformatics and Molecular Assisted Selection

- 2.1 The Oat Newsletter: Satisfying your hunger for oat information  
*Charlene P. Wight, Gerard R. Lazo, Catherine J. Howarth, Jean-Luc Jannink, S. Shea Miller, Marcelo Pacheco, Zongwen Zhang, Pamela Zwer, and Nicholas A. Tinker*
- 2.2 All a-Twitter about #oats  
*Charlene P. Wight*
- 2.3 Comparative genetic diversity of cereal crops cultivars in Kazakhstan  
*Saule Abugalieva, Kanat Yermekbaev, Shynar Anuarbek, Yerlan Turuspekov*
- 2.4 Genetic diversity of oat (*Avena sativa* L.) accessions and identifying of high quality and productive pure lines of oats for breeding.  
*Aigul Abugaliyeva, Myrzan Nurpeisov, Tim Langdon, Burubai Sariev, Vladimir Chudinov, Kaldarbek Zhundibayev*
- 2.5 Identification of Ppd loci affecting photoperiod response in oat RILs developed from the cross of Chihuahua and Anatolisher varieties\*  
*Elizaveta Grigoreva, Pavel Ulianich, Vladimir Koskin, Igor Loskutov, Elena Potokina*
- 2.6 Screening *Avena ventricosa* populations in Cyprus for the presence of 2n gametes  
*Nikolaos Nikoloudakis, Angelos Kyrtzis, Andreas Katsiotis*
- 2.7 Assessing the genetic diversity of *Avena ventricosa* populations in Cyprus using molecular markers  
*Stella Konstantinou, Nikolaos Nikoloudakis, Angelos Kyrtzis, Andreas Katsiotis*
- 2.8 Genetic and molecular identification of genes required for multiflorous spikelet development in oat  
*Itamar Cristiano Nava, Cristiano Mathias Zimmer, Itacir de Pierri Ubert, Marcelo Teixeira Pacheco, Luiz Carlos Federizzi*
- 2.9 DArTseq markers towards Dw7 dwarfing gene in oats  
*Edyta Paczos-Grzeda, Sylwia Sowa, Agnieszka Ostrowska, Piotr T. Bednarek*

### **3. Physiology, Pest, Disease Resistance**

- 3.1 Deoxynivalenol in oats from fields in Slovakia during 2013 and 2014  
*Peter Hozlár, Svetlana Šliková, Sona Gavurníková, Martina Mináriková, Edita Gregová*
- 3.2 The screening of wild Avena species of VIR collection in aluminium tolerance  
*Irina Kosareva, Blinova E.V., Bagmet L.V., Loskutov I.G.*
- 3.3 Development of oat lines differing in the genes of photoperiod sensitivity  
*V.A. Koshkin, I.G. Loskutov, I.I. Matvienko, E.V. Blinova*
- 3.4 Main diseases of oats under conditions of the Republic of Belarus  
*Natalia Poplavskaya, Svetlana Buga, Alexander Zhukovsky*
- 3.5 Greenbug resistance in oat accessions from Asia  
*E.E. Radchenko, T.L. Kuznetsova, M.A. Chumakov, I.G. Loskutov*
- 3.6 Virulence of Puccinia coronata f.sp. avenae in Poland during 2013-2015  
*Sylwia Sowa, Edyta Paczos-Grzeda, Agnieszka Ostrowska*
- 3.7 Genetic sources of disease resistance in oats  
*S. V. Svirko, A. V. Zaushintseva, A. A. Startsev*
- 3.8 Oat response to sowing date, applied nitrogen and plant density in the low rainfall region of Western Australia.  
*Georgie Troup, Blakely Paynter, Raj Malik*
- 3.9 Identification of potential sources of resistance to oat powdery mildew and crown rust in A. sterilis genotypes.  
*Sylwia Okoń, Tomasz Ociepa, Edyta Paczos-Grzeda, Sylwia Sowa, Krzysztof Kowalczyk*

### **4. Agronomy, Nutrition, Health Claims and Diets**

- 4.1 Initial material for development of high protein oat cultivars in northern Transural mountain region  
*Yu. S. Averyasova, M. N. Fomina, I. G. Loskutov*
- 4.2 Effect of environment on yield and grain quality parameters of winter oats in different growing seasons in the United Kingdom  
*Alexander (Sandy) Cowan, Pilar Martinez, Irene Griffiths, Athole Marshall, Tim Langdon, Sarah Clarke, Nick Fradgley, Catherine Howarth*
- 4.3 Avenins as markers in oat breeding and seed production  
*N. Gubareva, I. Gavril'yuk, G. Batalova, I. Loskutov, V. Krasilnikov, A. Konarev*
- 4.4 Genetic diversity in oat genetic resources by seed storage protein polymorphism  
*Peter Hozlár, Edita Gregová, Svetlana Šliková*
- 4.5 Effect of grain development on quality parameters in oats  
*Pilar Martinez Martin, Irene Griffiths, Alexander (Sandy) Cowan, Catherine Howarth*
- 4.6 Duplicate accession identification in the VIR (Russia) and NordGen (Sweden) Avena sativa L. collections  
*I. Perchuk, A. Konarev, I. Loskutov, E. Blinova, L. Novikova, V. Horeva and A. Kolodinska-Brantestam*
- 4.7 Amino acid analysis of high protein oat lines  
*Yi Ren, Bindu A. Similkumar, Rickard Öste, Olof Olsson*
- 4.8 The content of oil and fatty acid composition in 8 cultivars of oat grown in lesser Poland region  
*Mirosław Krosniak, Anna Zalewska, Renata Francík, Barbara Tatar, Elżbieta Kondratowicz-Piertruszka, Elżbieta Pisulewska, Agnieszka Wojtanowska-Krosniak, Halina Rudd*
- 4.9 The metabolomic approach to the analysis of wild and cultivated species of oats  
*T.V. Shelenga, A.V. Konarev, A.L. Shavarda, E.V. Blinova, N.I. Dzubenko, I.G. Loskutov*
- 4.10 Assessment of oat genotypes according to the characteristics determining the nutritional grain quality  
*Sanita Zute, Igor Loskutov, Zaiga Vicupe*
- 4.11 Prediction of some quality parameters of oats by using NIR  
*Turgay Şanal, Özge Yıldız, Asiye Seis Subaşı, Tülin Özderen, Dilek Özay Sivri*

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- 4.13 Effect of genotype and environment on phenolic compounds and antioxidant activity of naked oats in China  
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*Sabori Mitra, Larisa Cato*
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*Meili Zhang, Sarina Ma, Xiaolan Bao*

## 6. Sustainable Farming Systems, Commercialization, Seed Production, and Royalties

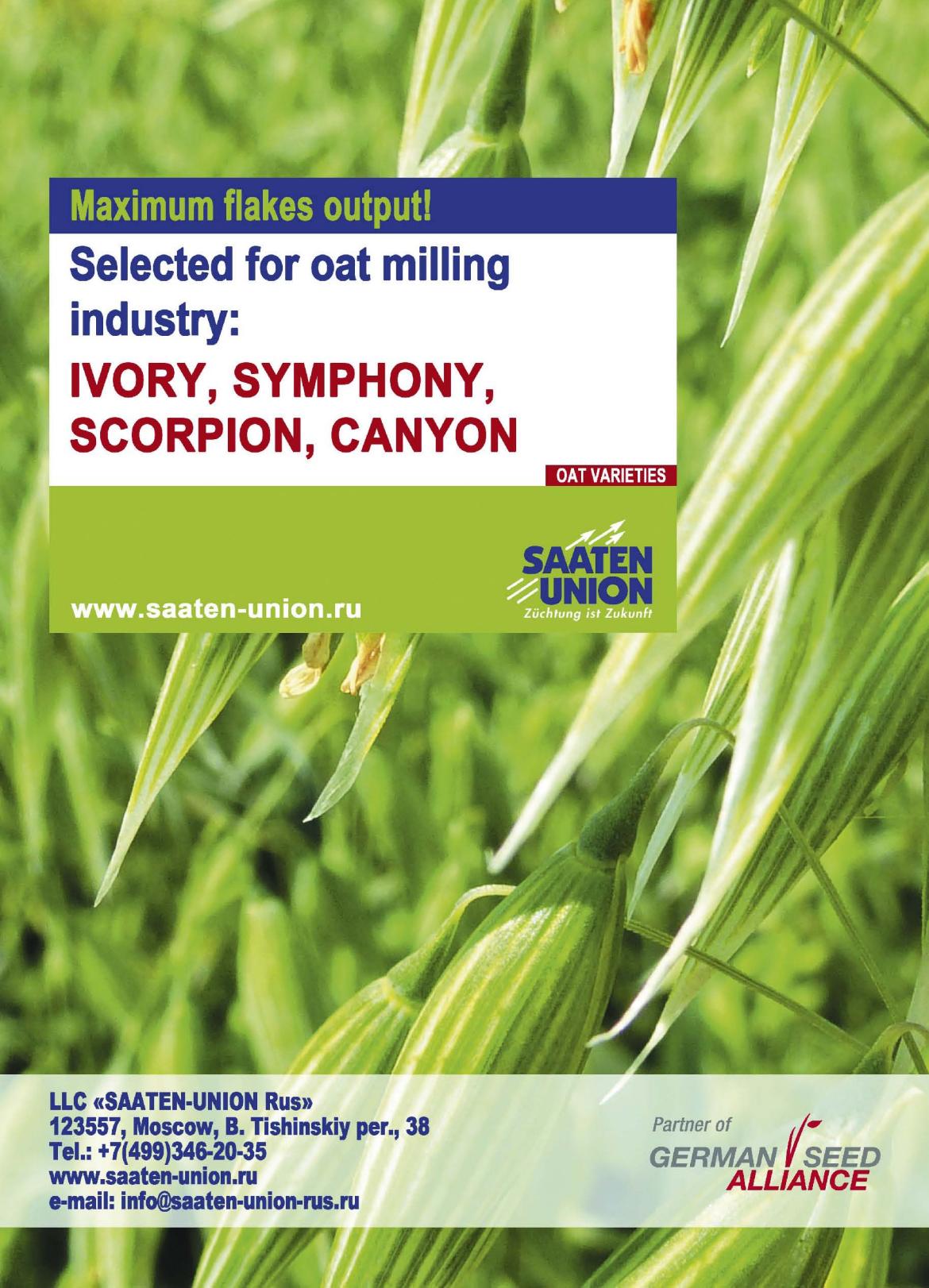
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- 6.6 Transforming Western Australian oat production  
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*E. John Stevens, John Hampton, Geoff Gray, Keith Armstrong, Dinesh Pariyar, Adrian Russell, Bill Angus*
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*Keith Armstrong, Dinesh Pariyar, John Hampton, E. John Stevens, Adrian Russell, Bill Angus*
- 6.9 Control weeds integrating agricultural cultivation methods and herbicide in oat field  
*XiaoYu Zhang, HongYou Zhou, BaoZhu Dong, HuanWen Meng*

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A close-up photograph of oat plants with long, narrow, green leaves featuring prominent white veins. The plants are growing in a field under bright sunlight.

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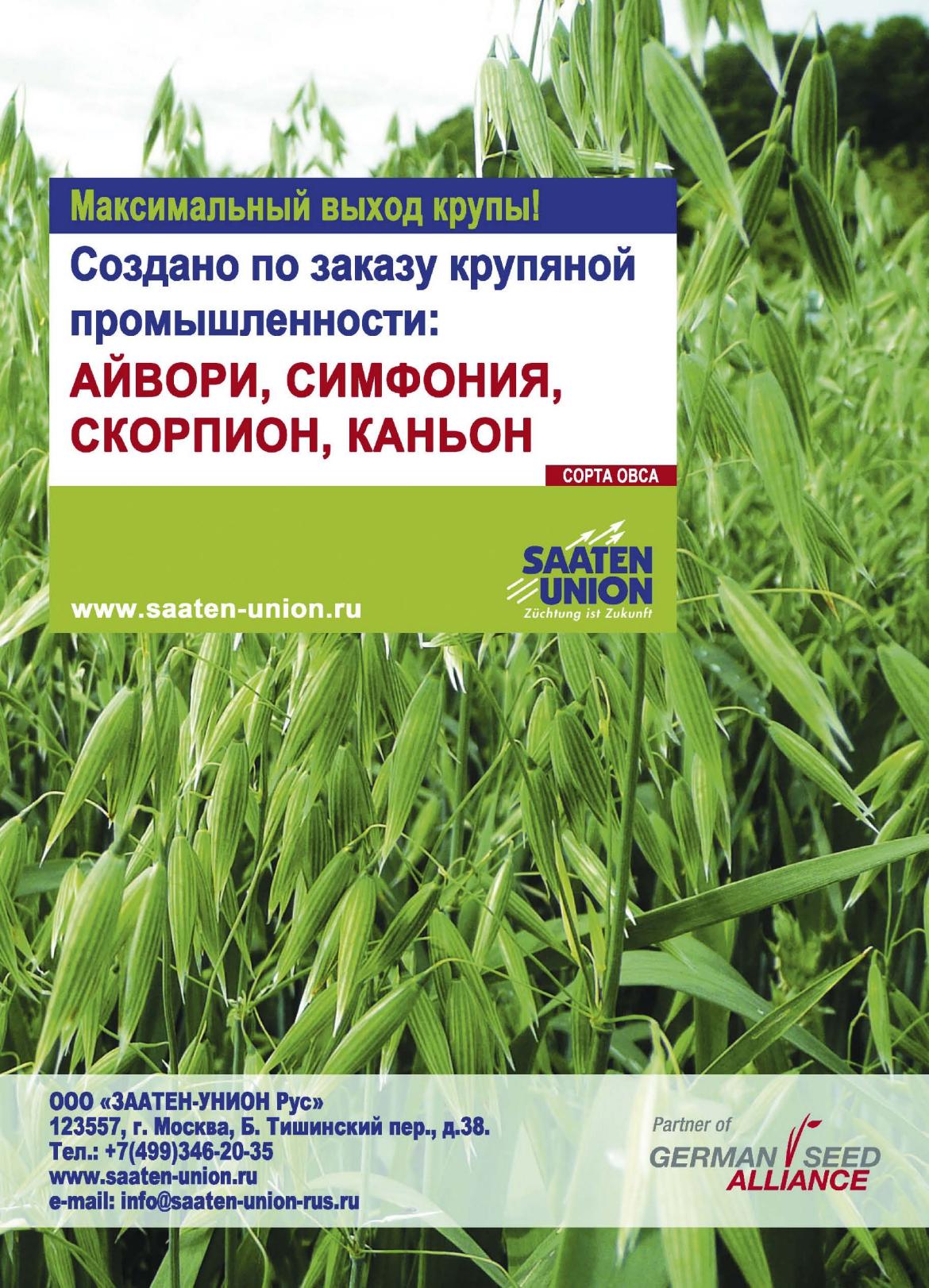
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