The 10th International Oat Conference

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

CONFERENCE PROGRAM
&
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)

Supported by
International Oat Committee
Research Institute
of Agriculture of the Northeast
Institute of Plant Protection
V.L. Komarov Botanical Institute
N.I. Vavilov Institute of General Genetics
St. Petersburg State University
St. Petersburg Agricultural University
FAREXPO Group of Companies
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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
Andreas Katsiotis, Cyprus
Steffen Beuch, Germany
Keith Armstrong, New Zealand
Troud Buraas, Norway
Alf Ceplitis, Sweden
Catherine Howarth, UK
Michael McMullen, USA
Changzhong Ren, China
Liliana Wehrhahne, Argentina
Mohamed Chakroun, Tunisia
Nezha Saidl, 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 Gaeyskaya, 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

17.00 – 19.00  REGISTRATION
Foyer of Congress-hall, Park Inn Pulkovskaya hotel

20.00 – 22.00  Welcome reception “Get together”
Restaurant “Atrium”, Park Inn Pulkovskaya hotel

12 JULY, TUESDAY

CONGRESS-HALL, PARK INN PULKOVSKAYA HOTEL

08.30 – 09.15  REGISTRATION
Foyer of Congress-hall, Park Inn Pulkovskaya hotel

09.15 – 10.00  OPENING CEREMONY

10.00 – 11.00  PLENARY SESSION 1
Chair: Pamela Zwer
Nikolai Dzyubenko – VIR: strategy and problems.
Igor Loskutov – Assessment of Avena Genepool for Main Breeding Directions
Galina Batalova – Oats Breeding in Russian Federation: Results and Problems

11.00 – 11.30  COFFEE BREAK

11.30 – 13.10  PLENARY SESSION 2
GENETIC RESOURCES, DIVERSITY AND BREEDING
Chairs: Igor Loskutov, Catherine Howarth

Axel Diederichsen – Changes in Utilization of the Oat Genepool Preserved by Plant Gene Resources of Canada
Steffen Beuch et al. – Breeding for Hybrids – a Real Option in Oats?
Marcelo Pacheco et al. – Genetic Progress in a Subtropical Oat Germoplasm
Changzhong Ren – China Oats Research System
Toshinobu Morikawa et al. – Assessment of Genetic Diversity and Adaptation of Oat (Avena sativa L.) Collection from North Africa and Central Europe

13.10 – 14.00  LUNCH

14.00 – 15.40  PLENARY SESSION 3
GENOMICS, BIOINFORMATICS AND MOLECULAR ASSISTED SELECTION
Chairs: Nicholas Tinker, Elena Potokina

Nicholas Tinker – Haplotag Genotypes: Your Passport to Anywhere in the Oat World
Tim Langdon – An Oat Nested Association Mapping Population
Elena Prats et al. – Oat Adaptation to Mediterranean Climate: a Critical Analysis for Association Studies
Julio Isidro Sánchez – How Should I Select the Individuals of My Training Population to Make Selections in GS?
Catherine Howarth – Developing Enhanced Breeding Methodologies for Oats

15.40 – 16.00  COFFEE BREAK
16.00 – 17.40  PLENARY SESSION 4
PHYSIOLOGY, PEST, DISEASE RESISTANCE
Chairs: Toshinobu Morikawa, Luiz Carlos Federizzi

Pamela Zwer et al. – Stress Sensitive Stages in Oat
Gracia Montilla-Bascón – Revealing a Polyamine-ethylene Regulatory Node
Linked to Drought Tolerance/Susceptibility in Oat
Ásmund Bjørnstad et al. – Resistance to Fusarium Infections in Oats: Infection
Process and Parameters in Resistance Breeding
Irene M. Griffiths et al. – The Use of Disease Resistance Alleles in the UK Oat
Breeding Programs
Kathy Esvelt Klos et al. – Pc58a QTL Sequence from a Bacterial Artificial
Chromosome (BAC) Library of the Oat Cultivar Ajay

18.30
TRANSFER TO THE OFFICIAL CONFERENCE DINNER
Meeting point – reception hall of Park Inn Pulkovskaya hotel

19.00 – 22.30  OFFICIAL CONFERENCE DINNER
Restaurant “Metropol” (Sadovaya street, 22)

23.00  ARRIVAL TO PARK INN PULKOVSKAYA HOTEL

13 JULY, WEDNESDAY

RED ROOM A+B

08.30 – 10.00  PARALLEL SESSION 1
GENETIC RESOURCES, DIVERSITY AND BREEDING
Chairs: Axel Diederichsen, Ekaterina Badaeva

Elina Kiviharju et al. – Oat Genetic Resources in Finland
Ben Schmehe et al. – On Farm Organic Oat Breeding
Antonio Costa de Oliveira et al. – Breeding oats for grain quality in Southern
Brazil
Liliana Wehrhahne et al. – Oats in Argentina
Alfredo do Nascimento et al. – A Brazilian Overview About Oat Cultivars for
Ground Cover and Grazing
Bogusław Łapiński et al. – The Ways of Oat Winterhardiness Improvement in
Poland

RED ROOM D

08.30 – 10.00  PARALLEL SESSION 1
AGRONOMY, NUTRITION, HEALTH CLAIMS AND DIETS
Chairs: Michael McMullen, Trond Buraas

Maja Boczkowska et al. – Genotypic, Phenotypic and FTIR-based Metabolic
Fingerprint Diversity in Oat Landraces in Relation to the Environment at the
Place of Origin.
Tatiana Shelenga et al. – Protein Markers and Metabolomics Approach for
Identification of Oat Cultivars
Danuta Boros et al. – Nutritional and Bioactive Properties of Hullled and Naked
Genotypes of Oat Intended for Cultivation in Poland
Vadim Polonskiy et al. – 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

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<tr>
<td>10.00 – 10.30</td>
<td>COFFEE BREAK</td>
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**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 Dumlupinar et al.** – High-throughput SNP Genotyping of Oat Landraces Originated from Turkey
- **Andreas Katsoyiotis 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 Lešová-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.)

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**RED ROOM D**

**10.30 – 12.30**

**PARALLEL SESSION 2**

**PHYSIOLOGY, PEST, DISEASE RESISTANCE**

*Chairs: Åsmund Bjørnstad, Tatjana 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
- **Tatiana 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

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<td>12.30 – 13.30</td>
<td>LUNCH</td>
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RED ROOM A+B

13.30 – 15.00  PARALLEL SESSION 3
GENOMICS, BIOINFORMATICS AND MOLECULAR ASSISTED SELECTION
Chairs: Tim Langdon, Julio Isidro Sánchez

Zongwen Zhang et al. – Genetic diversity of oat accessions from different countries revealed by SSR markers.
Lucia Gutierrez – Incorporating genotype-by-environment and genomic information into oat breeding programs

PRODUCTION, PROCESSING, PRODUCTS AND CONSUMERS
Chairs: Merja Vetelainen, Nezha Saidi

Maria Chekina et al. – Development of Short Germination Malt Technology from Vyatsky Naked Oat
Vitaly Popov et al. – 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

13.30 – 15.00  POSTER SESSION
Chair: Steffen Beuch

15.00 – 15.30  COFFEE BREAK

15.00 – 16.30  MEETING OF ECPGR AVENA WORKING GROUP

15.30 – 16.00  VISIT DISPLAYS (SPONSORS AND OTHER COMPANIES)

17.00  TRANSFER TO THE N.I. VAVILOV INSTITUTE,
Meeting point – reception hall of Park Inn Pulkovskaya Hotel

18.00 – 20.30  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

21.00  ARRIVAL TO PARK INN PULKOVSKAYA HOTEL

14 JULY, THURSDAY

08.30 – 09.30  TRANSFER FROM HOTEL TO PUSHKIN BRANCH VIR

09.30 – 13.00  FIELD SESSION
Chairs: Igor Loskutov, Galina Batalova

13.00 – 14.30  LUNCH AT OPEN AIR IN THE RESTAURANT “RUSSKOE ZASTOLJE” IN PUSHKIN
14.30 – 15.00  TRANSFER TO PAVLOVSK PALACE
15.00 – 18.00  PAVLOVSK PALACE TOUR
19.00  ARRIVAL TO PARK INN PULKOVSKAYA HOTEL
15 JULY, FRIDAY

RED ROOM A+B

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 08.30 – 10.10 | **PLENARY SESSION 5** AGRONOMY, NUTRITION, HEALTH CLAIMS AND DIETS  
*Chairs: Olof Olsson, Changzhong Ren*  
*Jennifer Mitchell Fetch et al.* – Differential Transcription of Avenanthramide Biosynthesis Genes in Oat Embryos  
*Nezha Saidi et al.* – Assessment of Important Technological Parameters of New Moroccan Domesticated Tetraploid Oat Lines  
*Olof Olsson* – Oat - a Crop Full of Possibilities |
| 10.10 – 10.30 | **COFFEE BREAK** |
| 10.30 – 11.50 | **PLENARY SESSION 6** PRODUCTION, PROCESSING, PRODUCTS AND CONSUMERS  
*Chairs: Andreas Katsiotes, Zongwen Zhang*  
*Outi E. Mäkinen et al.* – Oat Protein Ingredients – Processing and Applications  
*Qun Shen et al.* – Study on Enzymatic Processing and Soluble β-glucan Variation of Turbid Oats Beverage  
*Sofiya Sergeeva et al.* – Food Fibers and Avenins of Grains of Perspective Naked Russian Oat Cultivars |
| 11.50 – 12.50 | **LUNCH** |
| 12.50 – 14.30 | **PLENARY SESSION 7** SUSTAINABLE FARMING SYSTEMS, COMMERCIALIZATION, SEED PRODUCTION, AND ROYALTIES  
*Chairs: Christopher Green, Peter McCormack*  
*Christopher Green* – Oats, the first 32,000 years and the next 10  
*Peter D. McCormack et al.* – Commercialisation and End-point Royalty Collection in Australia  
*Bao-Luo Ma et al.* – Adaptation Strategies of Contrasting Oat Genotypes to Planting Pattern and Population Densities  
*Guiqin Zhao et al.* – The Effect of 2,4-D Butyl Ester on Percentage of Covered Grains in Naked Oat and its Residue Dynamics in Oat Plants  
*Lijun Li et al.* – Different Intercropping Patterns Affecting Soil Characteristics of Intercropped Oat with Common Vetch and Alfalfa |
| 14.30 – 14.40 | **CLOSING OF THE CONFERENCE**  
*Chair: Igor Loskutov* |
| 14.40 – 15.30 | **IOC BUSINESS MEETING**  
*Chair: Pamela Zwer* |
| 16.00 – 19.30 | **BUS GUIDED CITY TOUR (COMPLIMENTARY)**  
Meeting point – reception hall of Park Inn Pulkovskaya Hotel  
**COMPLETION OF BUS GUIDED CITY TOUR IN THE CITY CENTER (OSTROVSKOGO SQUARE)**  
Transfer to Park Inn Pulkovskaya Hotel (who wants)** |
<table>
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<th>Time</th>
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<tbody>
<tr>
<td>19.30 – 21.30</td>
<td>Free time at the city for participants of night boat trip (optional)</td>
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<tr>
<td>21.30</td>
<td>Meeting at the Ostrovskogo Square, transfer to the boat</td>
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<tr>
<td>21.00</td>
<td>Transfer from Park Inn Pulkovskaya Hotel to the night boat trip (optional)</td>
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<td>Meeting point – reception hall of Park Inn Pulkovskaya Hotel</td>
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<tr>
<td>21.45</td>
<td>Boarding on the boat</td>
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<tr>
<td>22.00 – 00.00</td>
<td>Night boat trip with “finger buffet”</td>
</tr>
<tr>
<td>00.00</td>
<td>Transfer to Park Inn Pulkovskaya Hotel</td>
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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 Dumulpinar, Cengiz Kurt**

1.5 Oats breeding in the Kuban region
   **Tamara Kuznetsova, Sergey Levshatov, Nikolay Serkin**

1.6 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 Vetelainen**

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 Abugaliyeva, Asem Ashimova, Vladimir Chudinov, Grigoriy Sereda,**
   **Boribai Sariev, Saule Abugaliyeva**

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 Abugaliyeva, 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
   Chihuhua and Anatolisher varieties*
   **Elizaveta Grigoreva, Pavel Ulianich, Vladimir Koshkin, Igor Loskutov, Elena Potokina**

2.6 Screening Avena ventricosa populations in Cyprus for the presence of 2n gametes
   **Nikolaos Nikoloudakis, Angelos Kyratzis, Andreas Katsiotis**

2.7 Assessing the genetic diversity of Avena ventricosa populations in Cyprus using molecular
   markers
   **Stella Konstantinou, Nikolaos Nikoloudakis, Angelos Kyratzis, Andreas Katsiotis**

2.8 Genetic and molecular identification of genes required for multilocus spikelet development in oat
   **Itamar Cristiano Nava, Cristiano Mathias Zimmer, Itacir de Pierré Ubert, Marcelo Teixeira Pacheco,**
   **Luiz Carlos Federizzi**

2.9 DArTseq markers towards Dw7 dwarifying gene in oats
   **Edyta Paczos-Grzęda, 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 Mináříková, 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, Eryta Paczos-Grzeda, Agnieszka Ostrowska

3.7 Genetic sources of disease resistance in oats
   S. V. Svirkova, A. V. Zaushhtsena, 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.
   sterillis genotypes.
   Sylwia Okoń, Tomasz Ociepa, Eryta 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. Gavrilyuk, 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

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

4.10 Assessment of oat genotypes according to the characteristics determining the nutritional grain
   quality
   Sanita Zute, Igor Loskutov, Zaiga Vicipe

4.11 Prediction of some quality parameters of oats by using NIR
   Turgay Şanal, Özge Yıldız, Asiyye Seis Subaşi, Türin Özderen, Dilek Özay Sivri
4.12 Antioxidant capacity of selected European oat genotypes

Lyudmila Lyubenova, Heinrich Grausgruber, Dagmar Janovsk, Marie Chourová, Vojtěch Holubec and Ismail Cakmak

4.13 Effect of genotype and environment on phenolic compounds and antioxidant activity of naked oats in China

Xin-Zhong Hu, Xiao-ping Li, Mei-yu Li, A-jing Lin, Zhen Ma, and Liu Liu

5. Production, Processing, Products and Consumers

5.1 Evaluation of oat flour quality using MixoLab

Larisa Cato and Jenny Ng

5.2 Size distribution and quality of Australian oat grains

Sabori Mitra, Larisa Cato

5.3 Viscosity of water and buffer extract as a new tool in selection of oat genotypes for specific end-uses

Damian Gołębiewski and Danuta Boros

5.4 Improving wheat flour quality by addition of fermented oat seeds

Michaela Havrlentová, Katarína Nahálková, Tatiana Klémová, Marek Jašurek, Soňa Gavurniková, Milan Čertík, Peter Hozlár

5.5 Genetic Mapping of Milling Quality Traits in Oat

Gongshe Hu, Sherry Ellberg, Chris Evans, Kathy Satterfield

5.6 The study of quality effect on oat-rice processed by new technology of peeling and extrusion

Fang Shan, Lijia Zhong, Xinzhong Hu, Zaigui Li, Changzhong Ren

5.7 The purification of free radical scavenging peptides from naked oats

Meili Zhang, Sarina Ma, Xiaolan Bao

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

6.1 Effect of fertilization on important content and quality parameters of common and naked oat

Peter Hozlár, Katarína Matušková, Michaela Havrlentová, Andrea Lančaričová, Svetlana Šliková, Daniela Čemanová

6.2 The strength of growth and the degree of injury to the seed varieties of oats depending on the ecological conditions of cultivation

Tazhihan Tleubaeva, Rinat Kassenov

6.3 The export oat industry in Australia

Peter D. McCormack

6.4 Grain Industry Association of Western Australia (GIWA) Inc.

Will Carrington-Jones, Rachel Nash

6.5 Climate changes influence at oats vegetation in European part of Russia

L. Novikova, I. Loskutov

6.6 Transforming Western Australian oat production

Garren Knell, Trent Butcher, Georgie Troup, Robert Loughman

6.7 Development of an improved single ear/small sample thresher

E. John Stevens, John Hampton, Geoff Gray, Keith Armstrong, Dinesh Pariyar, Adrian Russell, Bill Angus

6.8 Fodder oats in Nepal: fulfilling farmer needs

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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