

CURRICULUM VITAE

IGOR G. LOSKUTOV

PERSONAL DATA

Family name	LOSKUTOV
First name	IGOR
Date of birth	March 17, 1956
Place of birth	St. Petersburg, Russia
Citizenship	Russian Federation
Family	Wife and daughter
Knowledge of foreign language	English

WORKING ADDRESS

44, Bolshaya Morskaya Str., 190000, St. Petersburg, RUSSIA.
N.I. Vavilov Institute of Plant Genetic Resources (VIR),
Department of Genetic Resources of Oat, Barley, Rye

Phone: +7 (812) 571 9388
FAX +7 (812) 570 4770
E-mail: i.loskutov@vir.nw.ru

EDUCATION

- 1973-1978 – MS Diploma (Soil Science and Agrichemistry) from St. Petersburg State University, Faculty of Biology.
- 1985– Ph.D. (Plant Breeding) from the N.I. Vavilov Institute of Plant Industry (VIR). Thesis title: *Yield formation and specifics of development of root system in spring soft wheat under the conditions of the Northwest of the non-chernozem region of Russia.*
- 2004– Doctor of Science (D. Sc., Botany and Plant Breeding) from the N.I. Vavilov Institute of Plant Industry (VIR). Thesis title: *Specific diversity and breeding potential of genus Avena L.*

POSITIONS HELD

- 2001 – Present time – Head, Department of Genetic Resources of Oat, Barley, Rye, Coordinator of oat, rye, barley collections, Oat collection Curator, N.I. Vavilov Institute of Plant Genetic Resources (VIR)
- 2001 – Present time – Professor, Faculty of Biology, St. Petersburg State University
- 2014 – Principal Researcher, Department of Genetic Resources Rye, Barley and Oat, N.I. Vavilov Institute of Plant Genetic Resources (VIR);
- 2001 – Leading Researcher, Department of Rye, Barley and Oat, N.I. Vavilov Institute of Plant Industry (VIR);
- 1994–2001 – Senior Researcher, Department of Rye, Barley and Oat, N.I. Vavilov Institute of Plant Industry (VIR);
- 1988–1994 – Researcher, Department of Rye, Barley and Oat, N.I. Vavilov Institute of Plant Industry (VIR);
- 1984–1988 – Junior Researcher, Department of Rye, Barley and Oat, N.I. Vavilov Institute of Plant Industry (VIR);
- 1981–1984 – Ph.D. student, N.I. Vavilov Institute of Plant Industry (VIR);
- 1978–1981 – Senior technician, Department of Wheat, N.I. Vavilov Institute of Plant Industry (VIR);

SCIENTIFIC ACTIVITIES

1991- January - August - Visiting Scientist at Iowa State University, Ames, Iowa (USA).
1993- Grant for Biological diversity project by George Soros Foundation (USA).
1993- Vavilov-Frankel Fellow (IPGRI, Italy).
2001- Biography profile was published in 19th edition of Who's Who in the World.

Participation in projects

Head of projects of Russian Foundation of Basic Research (RFBR) and Russian Scientific Foundation (RSF):

RFBR-02-04-49667 in 2002-2004 – “Conservation and karyological characteristics of the genetic collection of the *Avena*”.

RFBR-08-04-13668 in 2008-2009 - “Development of technology for selecting initial material for oats breeding of resistance to Fusarium Head Blight and accumulation of mycotoxins”.

RFBR-12-04-01161 in 2012-2014 – “Identification of genes underlying quality traits of barley using QTL mapping in segregating populations and association mapping approach”.

RFBR -13-04-10137к in 2013 – Research project of field ecological evaluation of the series of barley mapping populations in the Southern and Central regions of Russia to determine QTLs that affect quality traits in barley.

RFBR -14-04-10179к in 2014 - Research project of field ecological evaluation of the series of barley mapping populations in the Southern and Central regions of Russia to determine QTLs that affect quality traits in barley.

RFBR-16-04-20261 in 2016 – Project of organization of 10th International Oat Conference.

RFBR-17-00-00338 in 2018-2020 – Metabolic approach to the study of allopolyploid wild-growing and cultivated species of the genus *Avena* L. (Poaceae)

RFBR-19-016-20007 in 2019 – International conference “Breads of the future: genomics, genetics, breeding” (devoted to 125 years of VIR).

RFBR-19-116-50133 Expansion in 2020. Origin and resource potential of wild and cultivated species of the genus Oats (*Avena* L.)

RFBR-20-516-10002 Royal Society (UK) в 2020-2021 – Domestication of oat and untapped genetic diversity in its wild and weedy relatives

RSF-14-16-00072 in 2014-2016 – Screening of genetic diversity of *Avena* L. genus to Fusarium fungi and selection of perspective resistant genotypes for creating high quality oat cultivars.

Participant of the projects of Russian Foundation of Basic Research:

RFBR-05-04-48406 in 2005-2007 – “Investigation of phylogenetic relationships and evaluation of peculiarities of evolutionary processes in *Avena* species using morphological, botanical, biochemical (storage proteins), and chromosomal (C-banding, in situ hybridization) markers”.

RFBR-08-04-00306 in 2008-2010 – “Analysis of *Avena* species using a complex of morphologo-botanical, biochemical (seed storage proteins), molecular (RAPD, cpSSR, sequencing of ITS region of rDNA, NAD1, and TrnLF genes), and chromosomal (C-banding, in situ hybridization) markers”

RFBR-15-54-12365 in 2015-2017 – Association mapping of net blotch and spot blotch resistance in a set of *Hordeum vulgare* accessions originated from the centers of barley diversity

RFBR-16-04-00185 in 2016-2018 – The role of silicon in iron nutrition of plants under mineral stress: iron deficiency and aluminum excess.

Project of N.I. Vavilov Institute of Plant Genetic Resources (VIR) - University of Minnesota (USA) for “Identifying Fusarium head blight resistance in *Hordeum*” - head from Russian side - 2004-2007

Project of European Cooperative Programme for Crop Genetic Resources Networks (ECP/GR) “A European Genebank Integration System (AEGIS)” for “Selection criteria for identification the Most Appropriate Accessions” – head from Russian side - 2005-2008

Project of All-Russian Institute of Plant Protection - N.I. Vavilov Institute of Plant Genetic Resources (VIR) - University of Minnesota (USA) for “Identifying Stem rust (*Puccinia graminis* Pers.) Ug99 resistance in *Hordeum*” - participant - 2009-2010

Project of N.I. Vavilov Institute of Plant Genetic Resources (VIR) - The Nordic Genetic Resources Center (NordGen)(Sweden) for “Evaluation, characterization and exchange of crop-genetic resources of Nordic origin” - head from Russian side - 2008-2012

Project of N.I. Vavilov Institute of Plant Genetic Resources (VIR) – The Swiss Federal Research Institute Agroscope, Switzerland for “Evaluation of the potential of cultivation of oat and rye accessions in Switzerland and in Russia” - head from Russian side - 2012–2015

Project of N.I. Vavilov Institute of Plant Genetic Resources (VIR) – Lund University (Sweden) for “Improving oat oil quality and its resistance to pathogens” – head from Russian side – 2014-2015

Project of N.I. Vavilov Institute of Plant Genetic Resources (VIR) – CRBA - Centre de Ressources de Botanique Appliquée (France) – “Joint field evaluation of genetic diversity of Russian and French oat cultivars different level of breeding” – head from Russian side – 2017-2018

Participation in conferences

International conference «Novel tasks posed on plant breeding programmes to cope with climate change».7-9 July 2010, Jõgeva Plant Breeding Institute, Estonia, «Genetic resources and main directions and results of barley and oat breeding in Russia»

Workshop Nordic – VIR collaboration. 12-13 April 2011, Alnarp, Sweden, «Results of Evaluating Nordic Cereals in Russia»

Meeting of the ECPGR Rye Working Group. 13-14 October 2011, Radzikow, Poland, «Global VIR rye collection»

The 9th International Oat Conference, 20-23 June 2012, Beijing, China, «Avena genetic resources for oat breeding»

III Vavilov International Conference, 2012, St-Petersburg, Russia, «Agro-ecological classification of genus рода *Avena* L.»

XXXIII Meeting for the Oat Research Committee. 2-4 April, 2013, Federal University of Pelotas, Pelotas, Brazil, «Genetic resources and main directions of oat breeding in Russia»

EUCARPIA Plant Genetic Resources Conference. 11-13 June, 2013, NordGen, SLU, Alnarp, Sweden, «PGR of oat for gluten-free and other diets»

NJF Seminar 474. Nordic heritage varieties of cereals. 15-17 July 2014, Marienhamn, Åland, Finland, «Nordic and Baltic Cereals Genetic Resources Heritage in Global Collection of Vavilov Institute of Plant Genetic Resources (VIR)»

Balkan Agricultural Congress. 8-11 September 2014., Edirne, Turkey. «Balkan Cereals Genetic Resources Heritage in Global Collection of Vavilov Institute of Plant Genetic Resources (VIR)»

International conference, 6-8 October 2014, St-Petersburg, Russia, «Biochemical characters of barley and oat as a resulting factor of collection value»

32nd Nordic Cereal Congress 7th–9th September 2015 Espoo, Finland, «Novel and traditional oat breeding directions»

10^o Simpósio de Recursos Genéticos para a América Latina e o Caribe. 26-29 October 2015, Bento Gonçalves, Brazil, «Vavilov and VIR exploration of Latin America and Caribbean region».

II International conference Genofund and plant breeding, 29-31 March 2016, Novosibirsk, Russia «Global VIR plant genetic resources collection as a source of novel direction of plant breeding (rye, barley, oat)».

10th International Oat Conference. 11-15 July 2016, St-Petersburg, Russia, «[Assessment of Avena gene pool genetic resources for food and health practical approach](#)».

1st International Conference of Wheat Landraces FOR HEALTHY FOOD SYSTEMS. Bologna, Italy, 2018. “Cereal landraces as Vavilov’s legacy in the global VIR collection of Plant Genetic Resources”

7th Baltic Genetics Congress. Riga, October 24-27, 2018. “Metabolomics of *Avena* L. species as a resources for new directions in plant breeding”

International conference “Breads of the future: genomics, genetics, breeding” (devoted to 125 years of VIR). 20-21 June 2019, St-Petersburg, Russia «New approaches to evaluation of cereals genetic resources»

International Conference on Wheat Diversity and Human Health «Wheat Health 2019» 22-24

October Istanbul, Turkey, «Oats – a crop for functional nutrition»

International conference “125 Years of Applied Botany in Russia” November 25 - 28, 2019, St. Petersburg Russia “World Collection of VIR - a Source of Source Material for Creating Varieties of Oats”

ACTIVITY (ST. PETERSBURG STATE UNIVERSITY)

Crop Science (Bachelor’s full course - 126 h)

Agrobiodiversity (Master’s full course - 63 h)

Plant genetic resources (Master’s full course - 26 h)

Agricultural Biotechnology (Bachelor’s course, partial - 8 h)

Agrochemistry (Bachelor’s course, partial - 10 h)

Supervisor of 8 Bachelors and 3 Masters of Science Dissertations in St-Petersburg State University.

Supervisor of 6 PhD students and 4 PhD Dissertations in Vavilov Institute of Plant Genetic Resources (VIR).

Lectures on N.I.Vavilov International Workshop for Young Scientists for Plant Genetic Resources in 2011, 2012, 2013 and 2015.

Course of lectures on seminar of Global Trust Fund FAO “Creation and conducting of databases of PGR collections” for gene bank specialists from Azerbaijan, Armenia, Kazakhtan, Tadjikistan, Ukraine, Russia (2011).

Lectures in the course “Biodiversity and Nature Protection” supported by the European Tempus educational program in cooperation with St. Petersburg State University for Russian and foreign students in English (2011)

Course of lectures on seminar of Global Trust Fund FAO “Creation and conducting of databases of PGR collections” for breeders from 10 different regions of Russian Federation (2012).

Course of lectures on workshop of FAO UN “Collection, Conservation and Research of Plant Genetic Resources” at the Tajik National Centre of Plant Genetic Resources, Dushanbe, 2012 for gene bank specialists from Kyrgyzstan and Tajikistan.

Course of lectures on Sub-Regional Training Workshop of FAO UN on Plant Genetic Resources Management Vital Issues of Plant Genetic Resources Collection, Conservation and Research at the Tajik National Centre of Plant Genetic Resources, Dushanbe, 2013 for gene bank representatives from Azerbaijan, Kazakhstan, Kyrgyzstan and Tajikistan.

During the last five years as Visiting Professor made some lectures in Universities and Research Institutes in Poland, Brazil, Sweden, Finland, France, Turkey, Great Britain, Israel.

SCIENTIFIC INTERESTS

Historical, theoretical, practical and legislative aspects of collecting, evaluation and conserving plant genetic resources

Systematics, taxonomy, phylogeny, evolution, distribution and diversity of cultivated and wild oats

Main characters and properties of cereals, their genetics, breeding, agronomy, plant industry, agrobiotechnology, biotic and abiotic resistance, grain quality.

RECENT ACTIVITIES

Member of seed collecting missions to Turkey in 1985 and 1989, and to Nepal in 1988;

Leader of seed collecting missions to Georgian SSR and Caucasus Regions of Russia in 1987 and 1988, Sardinia (Italy) in 2012, Brazil in 2014;

PGR Expert as a Vavilov-Frankel Fellow, in this capacity visited several genebanks in Italy, Great Britain, the Netherlands, Germany, Hungary, Bulgaria, Poland, Czech Republic and Australia in 1993-1995;

PGR Expert in Russian-multilateral projects from 1999 to present time, in this capacity visited over 25 genebanks in the world;

During the last five years as an Invited Expert visited Greece, Italy, China, Poland, Turkey, France, Sweden, Brazil, Tajikistan, Estonia, Finland.

PROFESSIONAL MEMBERSHIPS

Member of the *Avena* Working Group of the European Cooperative Programme for Genetic Resources since 1993;
Member of the International Oat Committee since 1997;
Member of the Russian Botanical Society since 2000;
Scientific curator of the Memorial Study-Museum of N.I.Vavilov at the N.I. Vavilov Institute of Plant Genetic Resources (VIR) since 2000;
Chair of AEGIS *Avena* Group since 2004;
Member of the Crop Science Board of Northwest Scientific Centre of the Russian Academy of Agricultural Sciences since 2005;
Member of the Dissertation Scientific Board at the N.I. Vavilov Institute of Plant Genetic Resources (VIR) since 2006;
Member of the Commission for Maintenance and Development of the Scientific Heritage of Academician N.I. Vavilov at the Russian Academy of Sciences since 2007;
Member of GIGA Group of Bioversity International since 2008;
FAO International Consultant on PGR Management since 2012;
Expert of Russian Scientific Foundation since 2014;
Expert of Russian Foundation of Basic Research since 2017.
Expert of Russian Academy of Science since 2018.
Expert of Higher Attestation Commission since 2018.
Member of Expert Board of Russian Scientific Foundation since 2019

Member of the Editorial Board of the journals: *Proceedings on Applied Botany, Genetics and Breeding* since 2001; *Genetic Resources and Crop Evolution* since 2008; *Advances in Plant Sciences Research* since 2013; *Plant Genetic Resources (Ukraine)* since 2014. *Journal of Biology and Earth Sciences* since 2014, *Journal of Experimental Agriculture International* since 2014, *Mediterranean Journal of Biosciences* since 2015, *Asian Research Journal of Agriculture* since 2016, *Asian Journal of Advances in Agricultural Research* since 2017, *Vavilovia* since 2018, *Genetic Resources* since 2020.

Reviewer of the journals: *Russian Journal of Genetics* since 2008, *BMC Evolution Biology* since 2009, *Russian Journal of Genetics: Applied Research* since 2015, *Theoretical and Applied Genetics* since 2016., *Russian Journal of Developmental Biology* since 2016, *Journal of Cereal Science* since 2016, *Agricultural Biology* since 2017, *Physiologia Plantarum* since 2018, *Acta Agriculturae Scandinavica* c 2018 г., *Microbiology Independent Research Journal* since 2018.

ORCID ID 0000-0002-9250-7225,
SPIN-2715-2082,
Scopus Author ID 8619012600,
Researcher Id D-5238-2013.

PUBLICATIONS

Total of 330 scientific publications including 90 papers in English.

h-index – 10, citation index – 340. (Scopus)

Books / monographs:

Loskutov I.G. 1999. N.I. Vavilov and his Institute. History of the world collection of plant genetic resources in Russia. IPGRI, Rome, 189 p.

Loskutov I.G. 2007. Oat (*Avena L.*). Distribution, taxonomy, evolution and breeding value. St.Pb. VIR. 336 p. (in Russian)

Loskutov I.G. 2009. The history of the world collection of plant genetic resources in Russia. St.Pb. VIR. 290 p. (in Russian)

Loskutov I.G. 食を満たせ バビロフとルィセンコの遺伝学論争と植物遺伝資源 Activities VIR associated with plant genetic resources in the 1930s and 1940s. Michitani Co.Ltd., Tokio. 2009. 94 p. (in Japanese)

Loskutov I.G., Rines H.W. 2011. *AVENA* L. In: Kole C. (ed.) Wild Crop Relatives: Genomic & Breeding Resources. Vol. 1. Cereals. Springer, Heidelberg, Berlin, New York. 2011. p. 109-184.

Loskutov I.G. [俄罗斯世界植物遗传资源搜集史](#) History of the world collection of plant genetic resources in Russia. Chinese Agricultural Press, 2017. 319 p. (in Chinese).

Loskutov I.G. 2020. The history of the world collection of plant genetic resources in Russia. St. Pb. VIR. 390 p. (in Russian) (In press)

Some articles / major works:

Loskutov I.G. 2001. Influence of vernalization and photoperiod to the vegetation period of wild species of oats (*Avena* spp.). *Euphytica*, v. 117, No. 2, 125-131.

Loskutov I.G. 2001. Interspecific crosses in *Avena* L. genera. *Russian Journal of Genetics*, v. 37, No. 5, 467-475.

Loskutov I.G., Kosareva I.A., Semenova E.V. 2001. Features of aluminum resistance in oat wild species. *Oat Newsletter*, v.47.

Rodionov A.V., Tyupa N.B., Kim E.C., Machs E.M., Loskutov I.G. 2005. Genomic structure of the autotetraploid oat species *Avena macrostachya* inferred from comparative analysis of the ITS1 and ITS2 sequences: on the oat karyotype evolution during the early stages of the *Avena* species divergence. *Russian Journal of Genetics*, Vol. 41: 518-528

Shelukhina O.Yu., Badaeva E.D., Loskutov I.G., Pukhalsky V.A. 2007. A Comparative Cytogenetic Study of the Tetraploid Oat Species with the A and C Genomes: *Avena insularis*, *A. magna*, and *A. murphyi*. *Russian Journal of Genetics*, Vol. 43, No. 6, 613–626.

Loskutov I.G. 2008. On evolutionary pathway of *Avena* species. *Genetic Resources and Crop Evolution*. v. 55, No. 2, p. 211-220.

Shelukhina O.Yu., Badaeva E.D., Brezhneva T.A., Loskutov I.G., Pukhalsky V.A. 2008. Comparative Analysis of Diploid Species of *Avena* L. Using Cytogenetic and Biochemical Markers: *Avena pilosa* M. B. and *A. clauda* Dur. *Russian Journal of Genetics*, Vol. 44, No. 9, 1087–1091.

Shelukhina O.Yu., Badaeva E.D., Brezhneva T.A., Loskutov I.G., Pukhalsky V.A. 2008. Comparative Analysis of Diploid Species of *Avena* L. Using Cytogenetic and Biochemical Markers: *Avena canariensis* Baum et Fedak and *A. longiglumis* Dur. *Russian Journal of Genetics*, Vol. 44, No. 6, 694–701.

Badaeva E.D., Shelukhina O.Yu., Goryunova S.V., Loskutov I.G., Pukhalsky V.A. 2010. Phylogenetic Relationships of Tetraploid AB-Genome *Avena* Species Evaluated by Means of Cytogenetic (C-Banding and FISH) and RAPD Analyses. *Journal of Botany*. Volume 2010, Article ID 742307, 13 pages doi:10.1155/2010/742307

Badaeva E.D., Shelukhina O.Yu., Diederichsen A., Loskutov I.G., Pukhalsky V.A. 2010. Comparative cytogenetic analysis of *Avena macrostachya* and diploid C-genome *Avena* species. *Genome*, 53, 1-13.

Gagkaeva T.Yu., Gavrilova O. P., Yli-Mattila T., Loskutov I.G. 2013. Sources of resistance to Fusarium head blight in VIR oat collection. *Euphytica*, Vol. 191, № 3, 355-364.

Zlotina M. M., Kovaleva O. N., Loskutov I. G., Potokina E. K. 2013. The use of allele-specific markers of the *Ppd* and *Vrn* genes for predicting growing-season duration in barley cultivars. *Russian Journal of Genetics: Applied Research*. Volume 3, Issue 4, pp. 254-264.

Loskutov I.G., Melnikova S.V., Bagmet L.V. Eco-geographical assessment of *Avena* L. wild species at the VIR herbarium and genebank collection. *Genetic Resources and Crop Evolution*. 2015. DOI: 10.1007/s10722-015-0344-1

Loskutov I.G., Kosareva I.A., Melnikova S.V., Blinova E.V., Bagmet L.V. Genetic diversity in tolerance of wild *Avena* species to aluminium (Al). *Genetic Resources and Crop Evolution*. 2016. DOI: 10.1007/s10722-016-0417-9

Cohen J.I., Loskutov I.G. Exploring the nature of science through courage and purpose: a case study of Nikolai Vavilov and plant biodiversity. *Springer-Plus* 2016 5:1159

Loskutov I. G., Gagkaeva T. Yu., Gavrilova O. P., Blinova E.V. The valuable characteristics of oats genotypes and resistance to Fusarium disease. *Russian Journal of Genetics: Applied Research*. 2016, т. 20, № 3, 286-294.

Loskutov I. G., Shelenga T.V., Konarev A.V., Shavarda A.L., Blinova E.V., Dzyubenko N.I. The metabolomic approach to the comparative analysis of wild and cultivated species of oats (*Avena L.*). *Russian Journal of Genetics: Applied Research*. 2016. Т. 20, № 5. 642-648.

Koshkin V.A., Loskutov I.G., Kosareva I.A., Matvienko I.I., Blinova E.V. Research of oats lines, differing in genes of photoperiodic sensitivity. *Russian Agricultural Sciences*. 2016. № 5, 10-13.

Bityutskii N.P., Yakkonen K.L., Loskutov I.G. Content of iron, zinc and manganese in grains of *Triticum aestivum*, *Secale cereale*, *Hordeum vulgare* and *Avena sativa* cultivars registered in Russia. *Genetic Resources and Crop Evolution*. 2017. 64:1955-1961

Gagkaeva T.Yu., Gavrilova O.P., Orina A.S., Blinova, E.V. Loskutov I.G. Responce of wild *Avena* species to fungal infection of grain. *Crop Journal*, 2017, № 5 p. 499 – 508

Radchenko E.E., Kuznetsova T.L., Chumakov M.A., Loskutov I.G. Greenbug (*Schizaphis graminum*) resistance in oat (*Avena spp.*) landraces from Asia. *Genetic Resources and Crop Evolution*. 2018. 65: 571–576

Gagkaeva T. Yu., Gavrilova O. P., Orina A. S., Blinova E. V., Loskutov I. G. Diversity of *Avena* Species by Morphological Traits and Resistance to *Fusarium* Head Blight. *Russian Journal of Genetics: Applied Research*, 2018, Vol. 8, No. 1, pp. 44–51. DOI: 10.1134/S2079059718010070

Loskutov I., Camarda I., Brunu A. Following Vavilov's expeditions, Sardinia (Italy). *Genetic Resources and Crop Evolution*. 2019. T. 66. № 3. C. 569-577. DOI: 10.1007/s10722-019-00747-z

Rodionov A. V., Amosova A.P., Belyakov E.A., Zhurbenko P.M., Mikhaylova Y.V., Punina E.O., Shneyer V.S., Loskutov I.G., Muravenko O.V. Genetic Consequences of Interspecific Hybridization, Its Role in Speciation and Phenotypic Diversity of Plants. *Russian Journal of Genetics*, 2019, Vol. 55, No. 3, pp. 278–294 DOI: 10.1134/S1022795419030141

Loskutov I.G., Koshkin V.A., Matvienko I.I., Blinova E.V., Kosareva I.A. Diversity of photoperiodic responses in oats. *Russian Journal of Genetics: Applied Research* 2019 23(6):723-729. DOI 10.18699/VJ19.546

Bityutskii N., Loskutov I., Yakkonen K., Konarev A., Shelenga T., Khoreva V., Blinova E., Rymin A. Screening of *Avena sativa* cultivars for iron, zinc, manganese, protein and oil contents and fat-ty acid composition in whole grains. *Cereal Research Communication*. 2020. <https://doi.org/10.1007/s42976-019-00002-2>

Amosova A.V., Zoshchuk S.A., Rodionov A.V., Ghukasyan L., Samatadze T.E., Punina E.O., Loskutov I.G., Yurkevich O.Yu., Muravenko O.V. Molecular cytogenetics of valuable Arctic and subArctic pasture grass species from the *Aveneae/Poeae* tribe complex (*Poaceae*). *BMC Genetics*. 2020. DOI: 10.1186/s12863-019-0792-2

Loskutov I.G., Shelenga T.V., Rodionov A.V., Khoreva V.I., Blinova E.V., Konarev A.V., Gnutikov A.A., Konarev A.V. Application of metabolomic analysis in exploration of plant genetic resources. *Proceedings of the Latvian Academy of Sciences*. 2019. Section B. 2019. V. 73, № 6. 20-30.

Fluturë Novakazi; Olga Afanasenko; Nina Lashina; Greg J Platz; Rod Snowdon; Igor Loskutov; Frank Ordon. Genome-wide association studies in a barley (*Hordeum vulgare L.*) diversity set reveal a limited number of loci for resistance to spot blotch (*Bipolaris sorokiniana*). *Plant Breeding*. 2019. c. 1064 DOI: 10.1111/pbr.12792

Polonsky V.I., Loskutov I.G., Sumina A.V. Biological role and health benefit of antioxidant compounds in cereals. *Biological Communication*. 2020. Vol. 65. №1. P. 53-67.

PRESENT ADDRESS

44, Bolshaya Morskaya str., 190000, St. Petersburg, RUSSIA.

The N.I.Vavilov Institute of Plant Genetic Resources (VIR), Department of Genetic Resources of Oat, Barley, Rye.

Phone: (007-812) 571 93 88; FAX (007-812) 571 87 62; E-mail: i.loskutov@vir.nw.ru