

**СПИСОК ПУБЛИКАЦИЙ ОППОНЕНТА  
АКАДЕМИКА РАН, Д.Б.Н. КАРЛОВА Г.И.  
ПО ТЕМЕ ОППОНИРУЕМОЙ ДИССЕРТАЦИИ**

1. Alexandrov Oleg S., Romanov Dmitry V., Divashuk Mikhail G., Razumova Olga V., Ulyanov Daniil S., **Karlov Gennady I.** Study and Physical Mapping of the Species-Specific Tandem Repeat CS-237 Linked with 45S Ribosomal DNA Intergenic Spacer in *Cannabis sativa* L. // *Plants*. – 2022. – Том 11. – Выпуск 11. – Номер статьи 1396. – DOI:10.3390/plants11111396
2. Ermolaev Aleksey, Kudryavtseva Natalia, Pivovarov Anton, Kirov Илья, **Karlov Gennady**, Khrustaleva Ludmila Integrating Genetic and Chromosome Maps of *Allium cepa*: From Markers Visualization to Genome Assembly Verification // *International Journal of Molecular Sciences*. – 2022. – Том 23. – Выпуск 18. – Номер статьи 10486. – DOI: 10.3390/ijms231810486
3. Kirov I., Polkhovskaya E., Dudnikov M., Merkulov P., Vlasova A., **Karlov G.**, Soloviev A. Searching for a Needle in a Haystack: Cas9- Targeted Nanopore Sequencing and DNA Methylation Profiling of Full-Length Glutenin Genes in a Big Cereal Genome. // *Plants*. – 2022. – Том: 11. – Выпуск: 1. – Номер статьи: 5. – DOI: 10.3390/plants11010005
4. Razumova Olga V., Divashuk Mikhail G., Alexandrov Oleg S., **Karlov Gennady I.** GISH painting of the Y chromosomes suggests advanced phases of sex chromosome evolution in three dioecious Cannabaceae species (*Humulus lupulus*, *H. japonicus*, and *Cannabis sativa*) // *Protoplasma*. – 2022. – DOI: 10.1007/s00709-022-01774-x
5. Romanov Dmitry V., **Karlov Gennady I.**, Divashuk Mikhail G. Developing Oligo Probes for Chromosomes Identification in Hemp (*Cannabis sativa* L.) // *Plants*. – 2022. – Том 11. – Выпуск 15. – Номер статьи 1900. – DOI: 10.3390/plants11151900
6. Bazhenov Mikhail S., Bepalova Ludmila A., Kocheshkova Alina A., Chernook Anastasiya G., Puzyrnaya Olga Y., Agaeva Elena V., Nikitina Ekaterina A., Igonin Vladimir N., Bazhenova Svetlana S., Vertikova Elena A., Kharchenko Pyotr N., **Karlov Gennady I.** The Association of Grain Yield and Agronomical Traits with Genes of Plant Height, Photoperiod Sensitivity and Plastid Glutamine Synthetase in Winter Bread Wheat (*Triticum aestivum* L.) Collection // *International Journal of Molecular Sciences*. – 2022. – Том 23. – Выпуск 19. – Номер статьи 11402. – DOI: 10.3390/ijms231911402
7. Kroupin P.Y., Badaeva E.D., Sokolova V.M., Chikida N.N., Belousova M.K., Surzhikov S.A., Nikitina E.A., Kocheshkova A.A., Ulyanov D.S., Ermolaev A.S., Khuat TML, Razumova O.V., Yurkina A.I., **Karlov G.I.** and Divashuk M.G. Aegilops crassa Boiss. repeatome characterized using low-coverage NGS as a source of new FISH markers: Application in phylogenetic studies of the Triticeae. // *Frontiers in Plant Science*. – 2022. – Том: 13. – Номер статьи: 980764. – DOI: 10.3389/fpls.2022.980764
8. Alexandrov O.S., Karlov G.I. Sequencing of the U6 promoters in castor beans and vector construction for CRISPR/Cas9 genomic editing on their basis // *Sel'skokhozyaistvennaya Biologiya*. – 2021. — Том 56. — Выпуск 1. — Страницы 20 — 31. — DOI: 10.15389/AGROBIOLOGY.2021.1.20ENG
  - a. Alexandrov O.S., Razumova O.V., Karlov G.I. A comparative study of 5s rdna non-transcribed spacers in elaeagnaceae species // *Plants*. — 2021. — Volume 10. — Issue 1. — Номер статьи 4. — Pages 1-11. — DOI: 10.3390/plants10010004
9. Bazhenov M.S., Chernook A.G., Bepalova L.A., Gritsay T.I., Polevikova N.A., Karlov G.I., Nazarova L.A., Divashuk M.G. Alleles of the GRF3-2A Gene in Wheat and Their Agronomic Value. // *International Journal of Molecular Sciences*. – 2021. – Том: 22. – Выпуск: 22. – Номер статьи: 12376. – DOI: 10.3390/ijms222212376

10. Divashuk M., Chernook A., Kroupina A., Vukovic M., Karlov G., Ermolaev A., Shirnin S., Avdeev S., Igonin V., Pylnev V., Kroupin P. Tagrf3-2a improves some agronomically valuable traits in semi-dwarf spring triticale // *Plants*. – 2021. - Том 10. - Выпуск 10. - Номер статьи 2012. – DOI: 10.3390/plants10102012
11. Kalendar R., Sabot F., Rodriguez F., Karlov G.I., Natali L., Alix K. Editorial: Mobile Elements and Plant Genome Evolution, Comparative Analyzes and Computational Tools // *Frontiers in Plant Science*. - Том 1224. - Номер статьи: 735134. – DOI: 10.3389/fpls.2021.735134
12. Kudryavtseva N., Ermolaev A., Karlov G., Kirov I., Shigyo M., Sato S., Khrustaleva L. A dual-color tyr-FISH method for visualizing genes/markers on plant chromosomes to create integrated genetic and cytogenetic maps // *International Journal of Molecular Sciences*. — 2021. — Том 22. — Выпуск 111. — Номер статьи 5860. — DOI: 10.3390/ijms22115860
13. Litvinov D.Y., Karlov G.I., Divashuk M.G. Metabolomics for crop breeding: General considerations // *Genes*. – 2021. - Том 12. - Выпуск 10. - Номер статьи 1602. – DOI: 10.3390/genes12101602
14. Prentout Djivan, Razumova Olga, Rhone Benedicte Badouin Helene, Henri Helene, Feng Cong, Kafer Jos, **Karlov Gennady**, Marais Gabriel A. B. An efficient RNA-seq-based segregation analysis identifies the sex chromosomes of *Cannabis sativa* // *GENOME RESEARCH*. – 2020. - Volume: 30. - Issue: 2. -Pages: 164-172. - DOI: 10.1101/gr.251207.119 (Q1 WoS)