

CURRICULUM VITAE

BOBURJON NAJODOV

PhD student at Department of Genetics, breeding and seed production Institute of Agrobiotechnology, Russian State Agrarian University - Moscow Timiryazev Agricultural Academy, 49, Timiryazevskay St.;

Laboratory Assistant Researcher at Laboratory of Applied Genomics and Private Breeding of Agricultural Plants, All-Russian Research Institute of Agricultural Biotechnology (Moscow, Russia)

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Education

Postgraduate student

Subject: Genetics

University: Russian State Agrarian University –
Moscow Timiryazev Agricultural Academy

2022 – present

Master of Science in Agronomy

Subject: Genetics, breeding and seed production

University: Russian State Agrarian University –
Moscow Timiryazev Agricultural Academy

Diploma with honors
2020 – 2022

Bachelor of Science

Subject: Breeding and genetics of agricultural crops

University: Tajik agrarian university, Tajikistan

2016 – 2020

Research work experience

Research assistant

Department Cotton Growing, Genetics, Breeding and Seed Production
Tajik agrarian university, (Dushanbe, Tajikistan)

2016 – 2018

Intern – volunteer

Laboratory of Marker and Genomic Plant Breeding,
All-Russian Research Institute of Agricultural Biotechnology
Russian Academy of Sciences (Moscow, Russia).

2021 – 2021

Junior associate researcher

World-class Scientific Center “Agrotechnology’s for the Future
(Moscow, Russia)

2023 – 2024

Laboratory Assistant Researcher

Laboratory of Applied Genomics and Crop Breeding,
All-Russian Research Institute of Agricultural Biotechnology
Russian Academy of Sciences (Moscow, Russia)

2024- present

Publications

1. **Najodov B.B.**, Rubets V.S., Pylnev V.V., Bazhenova S.S., Divashuk M.G. Characterization of Agronomic Traits of Synthetic Hexaploid Spring Wheat Lines from CIMMYT under the Conditions of the Central Non-Black Earth Region of Russia. *Journal Grain economy of Russia*. **Article in press**
 2. **Najodov B.B.**, Rubets V.S., Divashuk M.G. Field Resistance of Spring Soft Wheat (*Triticum aestivum* L.) Varieties to Leaf Rust in the Conditions of the Central Non-Black Earth Region of Russia. *RUDN Journal of Agronomy and Animal Industries*. **Article in press**
 3. **Najodov B.B.**, Rubets V.S., Pylnev V.V., Voronchikhina I.N., Klimenkova I.N., Bazhenova S.S. Study of agronomic traits and properties of spring wheat varieties in the Central Non-Black Earth Region of Russia. *Journal Izvestiya of Timiryazev Agricultural Academy*. **Article in press**
 4. **Najodov B.B.**, Rubets V.S., Pylnev V.V., Voronchikhina I.N., Klimenkova I.N., Bazhenova S.S. Comparative evaluation of Baking Qualities of spring soft wheat (*Triticum aestivum* L.) varieties in the central region of the non-Chernozem zone of Russia. *Journal Achievements of Science and Technology in Agro-Industrial Complex*. **Article in press**
 5. **Najodov B.B.**, Pylnev V.V., Rubets V.S., Moskalev E.A., Polkhovskaya E.S., Gruzdev I.V I. Diversity in High-Molecular-Weight Glutenin subunit loci in different varieties of spring wheat (*Triticum aestivum* L.). Proceedings of the International Conference on Plant Biology and Biotechnology (ICPBB, Almaty, Kazakhstan 2024) 132p.
 6. **Najodov B.B.**, Rubets V.S., Pylnev V.V., Voronchikhina I.N. Meteorological effect on the formation of economic traits of spring wheat in the Central Non-Chernozem region. *Journal Izvestiya of Timiryazev Agricultural Academy* (TAA). 2023;1(6):47-64. (In Russ.) <https://doi.org/10.26897/0021-342X-2023-6-47-64>
 7. **Najodov B.B.**, Pylnev V.V., Rubets V.S., Gruzdev I.V I. Exploring the link between allelic variations in high-molecular weight glutenin's and spring wheat grain quality (*Triticum aestivum* L.). Proceedings of the conference "Modern Problems of Genetics, Genomics and Biotechnology 18 may 2023, Tashkent Uzbekistan 106-108pp.
 8. **Najodov B.B.** Editing Soft Wheat Genome: Comprehensive Review of Problems, Achievements and Perspectives/ Proceedings of the conference of XVII Kurchatovia Interdisciplinary Youth Scientific School/Moscow 20-23 March 2023/ 296-270pp.
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Honors and award

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| ❖ Russian Government Scholarship
for international students for master study | 2020 |
| ❖ Russian Government Scholarship
for international students for Postgraduate | 2022 |
| ❖ Commemorative awards for the best graduates
President of the university | 2022 |

Memberships in professional organizations

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| • RSPP (Russian Society of Plant Physiologists) | 2021–now |
| • PlantGENE | 2022–now |
| • DSSAT (Decision Support System for Agrotechnology Transfer) | 2023–now |

Research interests

- Bioinformatics (Data science; Data visualization R and Python)
- Biostatistics (Mathematical biology), quantitative genetics
- CRISPR/CAS9, genome editing Plant breeding, plant genomic

Lab/Research skills

- PCR, DNA isolation
- Bioinformatics: data science, data visualization (Python, R); genetic data analysis
- Mathematical Biology: Quantitative genetics, statistical analysis
- Genome Editing: Experience with CRISPR/CAS9 for genome editing
- Plant Breeding & Genomics: Plant breeding and genome analysis
- Climate Analysis and Modeling

Certification/ Refresher course

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| • Doubled Haploids Technology in Plants
(Russian State Agrarian University - Moscow Timiryazev Agricultural Academy) | 2021 |
| • Methods of plant cytology and cytogenetics
(Russian State Agrarian University - Moscow Timiryazev Agricultural Academy) | 2022 |
| • Accelerating Breeding through Biotechnology for Import Substitution
(Russian State Agrarian University - Moscow Timiryazev Agricultural Academy) | 2022 |
| • Floral and Ornamental Plants in Landscape Design
(Russian State Agrarian University - Moscow Timiryazev Agricultural Academy) | 2023 |
| • Next Generation Sequencing
(Moscow Institute of Physics and Technology) | 2023 |
| • Interdisciplinary Approaches for Central Asia (WEFCA)
(TIAME National Research University) | 2023 |
| • Next Generation Sequencing
(NGS School in Skolkovo Institute of Science and Technology) | 2023 |

Language skills

- English (Intermediate B2)
- Russian (Fluent)
- Uzbek (Fluent),
- Tajik (Native)

Papers presented in scientific conferences

7-9 November 2024 (Tashkent, Uzbekistan)

Conference: The Role of Plant Genetic Resources in Global Climate Change and Food Security

Organized by: Uzbek Scientific Research Institute of Plant Industry

Paper: *Two lethal killers: the devastating impact of Puccinia recondita and Puccinia graminis on wheat grain weight*

23-27 September 2024 (Moscow, Russia)

Conference: XXIV Biotechnology in Crop Production, Animal Husbandry, and Agricultural Microbiology

Organized by: All-Russia Research Institute of Agricultural Biotechnology

Paper: *Comparative Analysis of Phenological Phases of Spring Wheat (Triticum aestivum L.) under Speed Breeding and Field Conditions*

14-19 June 2024 (Saratov, Russia)

Conference: VIII Congress of the Vavilov Society of Genetics and Breeders, dedicated to the 300th anniversary of Russian Science and Higher Education

Organized by: Russian Science and Higher Education

Paper: *Meteorological effect on the formation of economic traits of spring wheat in the Central Non-Chernozem region*

3-6 June 2024 (Almaty, Kazakhstan)

Conference: International Conference on Plant Biology and Biotechnology

Organized by: Institute of Plant Biology and Biotechnology

Paper: *Diversity in High-Molecular-Weight Glutenin subunit loci in different varieties of spring wheat (Triticum aestivum L.)*

10-12 April 2024 (Novosibirsk, Russia)

Conference: GPB 2024 / 7th International Conference Genepool and Plant Breeding, dedicated to the 95th anniversary of Academician P.L. Goncharov

Organized by: Institute of Cytology and Genetics (ICiG), SB RAS

Paper: *Study of agronomical traits of CIMMYT synthetic hexaploid spring wheat lines in the conditions of the Non-Chernozem Zone of Russia*

14-16 November 2023 (Moscow, Russia)

Conference: XXIII All-Russian Youth Scientific Conference with international participation Biotechnology in Crop Production, Animal Husbandry, and Agricultural Microbiology

Organized by: All-Russian Research Institute of Agricultural Biotechnology

Paper: *Allelic Composition of High-Molecular-Weight Glutenins in Relation to Grain Quality of Spring Wheat (Triticum aestivum L.)*

3-4 October 2023 (Dushanbe, Tajikistan)

Conference: X International Scientific Conference Ecological Features of Biological Diversity

Organized by: Institute of Botany, Plant Physiology, and Genetic National Academy of Sciences of Tajikistan

Paper: *Comprehensive Evaluation of Spring Wheat (Triticum aestivum L.) Genetic Collections under the Conditions of the Central Non-Black Earth Zone*

18 May 2023 (Tashkent, Uzbekistan)

Conference: Republican Scientific Conference Modern Problems of Genetics, Genomics, and Biotechnology

Organized by: Center for Genomics and Bioinformatics of the Academy of Sciences of the Republic of Uzbekistan

Paper: *Exploring the link between allelic variations in high-molecular-weight glutenin subunits and spring wheat grain quality (Triticum aestivum L.)*

29-30 March 2023 (Moscow, Russia)

Conference: International Scientific Conference dedicated to the 140th anniversary of Dr. Victor Evgrafovich Pisarev

Organized by: Federal Research Center Nemchinovka

Paper: *Yield and elements of yield structure of spring wheat of different ecological and geographical origin in the Central region of the non-Chernozem zone of Russia*

20-23 March 2023 (Moscow, Russia)

Conference: XVII Kurchatovia Interdisciplinary Youth Scientific School

Organized by: Kurchatov Institute National Research Centre

Paper: *Editing Soft Wheat Genome: Comprehensive Review of Problems, Achievements, and Perspectives*

21-25 November 2022 (Minsk, Belarus)

Conference: V International Scientific Conference Genetics and Biotechnology of the XXI Century: Problems, Achievements, Prospects, timed to coincide with the 135th anniversary of N.I. Vavilov's birth

Organized by: Institute of Genetics and Cytology of the National Academy of Sciences of Belarus

Paper: *Characteristics of soft spring wheat lines of CIMMYT breeding by vegetation period in conditions of the Central Region of the Non-Chernozem Zone of Russia*

3-6 October 2022 (Moscow, Russia)

Conference: International Scientific and Practical Conference Problems of Ecology and Agriculture in the XXI Century, dedicated to the 135th anniversary of N.I. Vavilov and the 300th anniversary of the Russian Academy of Sciences

Organized by: Russian Academy of Sciences

Paper: *For it alone one should be in the Pamir – Nikolay Vavilov and his expeditions to the Pamir*

24 August 2022 (Dushanbe, Tajikistan)

Conference: International Scientific Conference Formation and Development of Experimental Biology in Tajikistan, dedicated to the 90th Yu.S. Nasyrov

Organized by: Institute of Botany, Plant Physiology, and Genetic National Academy of Sciences of Tajikistan

Paper: *The trip of Yusuf Nasyrov to the USA (to the 90th anniversary of the memory of the great scientist)*

22 April 2022 (Tyumen, Russia)

Conference: X International Scientific and Practical Online Conference Food Biotechnology and Food Security

Organized by: Tyumen Industrial University

Paper: *Evaluation of the baking qualities of the spring wheat collection 2021 in the conditions of the Central Non-Black Earth region of Russia*

25-26 November 2021 (Saratov, Russia)

Conference: International Scientific and Practical Conference "VAVILOV READINGS-2021" (VVRD 2021)

Organized by: Saratov State Agrarian University

Paper: *Evaluation of spring wheat varieties of different ecological and geographical origin on economic and useful signs in the Central Non-Black Earth region of Russia*