

## PERSONAL INFORMATION

### **Jamala Eldarova (Mursalova) PhD in Biology**

**Nationality:** Azerbaijan

**Sex:** Female

**Marital status:** Married

**Address:** Khazar University, Mahsati 41, AZ1096, Baku, Azerbaijan

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## EDUCATION

### ▪ **Doctor of Science (2019 – Present)**

Thesis: Mapping of drought tolerance traits in bread wheat by genotyping by sequencing (GBS) and functional characterization of key genes

Genetic Resources Institute of ANAS, Baku, Azerbaijan

### ▪ **PhD Degree in Genetics (2011 – 2014)**

Thesis: Evaluation and Selection of Physiological and Genetic Characteristics of Drought Tolerance of Winter Wheat Genotypes

Genetic Resources Institute of ANAS, Baku, Azerbaijan

### ▪ **Master of Science in Zoology of Vertebrate (2008 – 2010)**

Azerbaijan State Pedagogical University, Baku, Azerbaijan

### ▪ **Bachelor of Science in Biology (2003 – 2007)**

Azerbaijan State Pedagogical University, Baku, Azerbaijan

## PROFESSIONAL EXPERIENCE

### ▪ **Head of the Department of Life Sciences, Khazar University (01.09.2023 - present)**

### ▪ **Coordinator of the Department of Life Sciences, Khazar University (01.03.2023-01.09.2023)**

### ▪ **Senior research fellow (September 2018 – 2023)**

Department of “Grain Cereals and Leguminous Plants”, Genetic Resources Institute of ANAS

### ▪ **Researcher (2014–2018)**

Department of “Grain Cereals and Leguminous Plants”, Genetic Resources Institute of ANAS

### ▪ **Vice Chairman of the Council of Young Scientists and Specialists (2013 – 2017)**

Genetic Resources Institute of ANAS

### ▪ **Junior Researcher (2011 – 2014)**

Department of “Grain Cereals and Leguminous Plants”, Genetic Resources Institute of ANAS

### ▪ **Senior laboratory assistant (2009 – 2011)**

Laboratory of “Technical, Forage and Medicine Crops”, Genetic Resources Institute of ANAS

## Supervisor of Master thesis at the Baku State University:

Title: Study of Fungal Disease Resistance in Winter Bread Wheat Accessions.

## Teaching

### ▪ **Lecturer** – Fundamentals of biometrics (2023-2024 academic year)

### ▪ **Lecturer** – Cytology (2023-2024 academic year)

### ▪ **Lecturer** – Molecular Biometrics (2018-2019 academic year)

## FELLOWSHIPS & SCHOLARSHIPS

## CURRICULUM VITAE

- **Fulbright Visiting Scholar Program (September 2019 - August 2020)**  
**Project Title:** “Identification and Sequencing of Genes Related to Drought Tolerance of Bread Wheat (*Triticum aestivum* L.) in Azerbaijan”  
**Colorado State University, USA**
- **PhD exchange programme: Erasmus Mundus, ALRAKIS II Scholarship (November 2013 – August 2014)**  
**Project Title:** “Screening of Genetic Diversity of Winter Wheat Genotypes by molecular markers”  
**Warsaw University of Life Sciences, Warsaw, Poland**

### INTERNATIONAL TRAININGS

- 27.08.2013 – 06.09.2013** Master Class “Adaptation to drought”, **Western Australia (Perth, Merriidin, Cunderdin)**
- 21.06.2012 – 18.08.2012** IWWIP (International Winter Wheat Improvement Program), **Turkey, Eskishehir**
- 01.03.2012 – 01.06.2012** International Training of CIMMYT “Basic Wheat Improvement Program”, **Mexico (Cd. Obregon, El-Batan)**
- 28.04.2011 – 28.08.2011** International Winter Wheat Improvement Program (IWWIP) Training Course on "Practical Application of Winter Wheat Breeding for Drought tolerance", **Turkey (Ankara-Eskishehir)**
- 22.11 2014 – 03.12.2014** “Designing and statistical data analysis of plant variety trials" training course, Food and Agriculture Organization (FAO) **Azerbaijan (Khyrdalan)**

### CONFERENCE AND WORKSHOPS

- “Inter-drought IV” International Conference, **2-6 September, 2013, Perth, Western Australia**
- FIGS Climate Change Adaptation Workshop, **9-12 September, 2012, Morocco, Marrakech**
- 2<sup>nd</sup> International Workshop of the Wheat Yield Consortium, **Cd. Obregon, Mexico, March 14, 2012**
- “International Scientific Conference of Young Researchers” dedicated to the 90<sup>th</sup> Anniversary of the National leader of Haydar Aliyev, University of Caucasus, **26-27 April 2013, Baku, Azerbaijan**
- “New Challenges in the European Area: Young Scientist’s 1<sup>st</sup> International Baku Forum” **20-25 May 2013, Baku, Azerbaijan**
- International Conference “Environmental changes and conservation of plant diversity”, **21-23 April 2013, Baku, Azerbaijan**
- III Republic seminar with innovative ideas for young scientists, **16-20 September 2013, Novxani, Azerbaijan**
- "Diversity, characterization, and utilization of plant genetic resources for enhanced resilience to climate change", **3-4 October 2011, Baku, Azerbaijan**

### NATIONAL AND INTERNATIONAL GRANTS

Provision of textbook translation and editing services on Cell and Molecular Biology. Contract number (C-084-SCPC-2021), Scientific editor **Baku, Azerbaijan (September 2021 – December 2021)**

Financial supporting Grant of Azerbaijan Youth Foundation, Master Class and Inter-drought IV” International Conference, **Baku, Azerbaijan (August 2013 – September 2013)**

Science Development Foundation: "Identification of the genetic diversity of cotton fiber for quality attributes", **Baku, Azerbaijan (January 2011 – February 2012)**

FAO and Borlaug Training Foundation **El Batan, Texcoco, Obregon, Mexico (March 2012 – May 2012)**

Dr. Sanjaya Rajaram Central Asia and Caucasus Wheat Improvement Scholarship **Turkey and Mexico (February 2012 – March 2012)**

## WORK-RELATED SKILLS

### **Laboratory skills:**

Genomic DNA extraction, quantification, and normalization methods

PCR based techniques, SSR, ISSR

Agarose and Polyacrylamide Gel Electrophoresis

Designing of SSR and gene-specific primers

Multiplexing, library preparation and DNA

Sequencing **Data bases:**

NCBI, Wheat genome assemblies

### **Bioinformatics:**

Chromas LITE 2.1.1; CAP3; BioEdit Sequence Alignment; Primer3; Oligoanalyzer; PrimerStat;

TASSEL Version 5.0 Standalone and R studios

### **Field experience:**

Plant phenotyping techniques, handling of modern physiological tools, NDVI, CT, SPAD

## LANGUAGE AND COMPUTER SKILLS

**Mother tongue (s):** Azerbaijani

**Other language (s):** English – C1; Turkish – C2; Russian – B1

**Proficient IT skills:** Windows, MAC, MS Office Programs

## Membership

**Member of Managing Editors Khazar Journal of Science and Technology (2023 - present)**

**Member of the Doctor of Philosophy Committee in Genetics (2023 - present)**

**Member of the Scientific and Organizing Committees for the 3rd International Conference on One Health, under the theme "One Health: Problems & Solutions," held on June 1-2, 2023, in Azerbaijan.**

**Associate Editor (2016-2018) – Gulustan-Black Sea Scientific Journal of Academic Research**

## SELECTED PUBLICATIONS

- Javid Ojaghi, Jamala Eldarova (Mursalova), Sevinj Nurieva, Samira Salayeva, Mahammad Eldarov and Zeynal Akparov. Allelic diversity of Azerbaijan bread wheat (*Triticum aestivum* L.) by SSR markers // Turkish Journal of Agriculture and Forestry. Turkey, 2023. *Accepted*
- C.M. Eldarova, M.E. Eldarov, Z.İ.Əkpərov, S.D.Haley. Müxtəlif mənşəli buğda genotiplərində genetik müxtəlifliyin sekvens əsaslı genotipləşdirmə (GBS) ilə qiymətləndirilməsi // Əkinçilik Elmi-Tədqiqat İnstitutunun ELMİ ƏSƏRLƏRİ MƏCMUƏSİ, 5 (34) CİLD, № 1, 2023, səh. 9-16.
- Eldarova (Mursalova) J.M., Eldarov M.E., Ojaghi J. M., Morgounov A.I. "Evaluation of grain yield in winter wheat accessions using NDVI and digital photo parameters". Book of proceedings XI International applied science conference of young scientists and experts (April 21, 2023, the village of Tsentralne, Kyiv region, Ukraine), p.43  
[https://sops.gov.ua/uploads/news/2023-05-09\\_RMV/2023-05-09\\_RMV.pdf](https://sops.gov.ua/uploads/news/2023-05-09_RMV/2023-05-09_RMV.pdf)
- **Mursalova J.**, Akperov Z., Ojaghi J., Eldarov M., Belen S., Gummadov G., Morgounov A. Evaluation of drought tolerance of winter bread wheat genotypes under drip irrigation and rain-fed conditions // Turkish journal of agriculture and forestry. Turkey, 2015, 39 (5), p. 817-824.  
<https://journals.tubitak.gov.tr/agriculture/issues/tar-15-39-5/tar-39-5-18-1407-152.pdf>
- **Mürsəlova C.M.**, Əkpərov Z.İ. Yumşaq buğda nümunələrində *Tdicdrfl* geninin tək nukleotid polimorfizmləri (TNP) əsasında müqayisəli tədqiqi // AMEA-nın Xəbərləri (biologiya və tibb elmləri), 2017, cild 72, №1, s. 98-104.

## CURRICULUM VITAE

- **Mürsəlova C.M.** Müxtəlif mənşəli buğda genotiplərində (*Triticum aestivum* L.) genetik müxtəlifliyin SSR markerləri vasitəsilə tədqiqi // Journal of Qafqaz University. Bakı, 2015, 3(2), s. 157-164.
- **Mursalova J.M.**, Akperov Z.I., Sharifova S.S., Ojaghi J.M., Eldarov M.E., Morgounov A.I., Trojanowska M.R. Investigation of genetic diversity of wheat genotypes (*Triticum aestivum* L.) using microsatellite markers // The Reports of the Azerbaijan National Academy of Sciences. Bakı, 2015, V. LXXI, № 2, p. 87-92.
- Morgounov A., Gummadov N., Belen S., Kaya Y., Keser M., **Mursalova J.** Association of digital photo parameters and NDVI with winter wheat grain yield under variable environments // Turkish journal of agriculture and forestry. Turkey, 2014, 38 (5), p. 624-632.  
<https://journals.tubitak.gov.tr/agriculture/issues/tar-14-38-5/tar-38-5-5-1312-90.pdf>
- Morgounov A., Akin B., Belen S., Gummadov N., Keser M., Koc E., **Mursalova J.**, Subasi K. Genetic variation for plant nutrition traits associated with adaptation to climate change in winter wheat / XVII International Plant Nutrition Colloquium and boron satellite meeting. Turkey, 19-22 August, 2013, p. 632-633.
- **Mürsəlova C.M.**, Morgounov A.İ., Əkrərov Z.İ. Buğda nümunələrinin genetik müxtəlifliyinin quraqlıq şəraitində kəmiyyət əlamətlərinə görə tədqiqi // Genetik Ehtiyatlar İnstitutunun elmi əsərləri. Bakı, 2012, Cild IV, s. 22-25.

## CONFERENCE MATERIALS

- **Jamala Eldarova**, Zeynal Akparov, Saida Sharifova, Javid Ojaghi and Mahammad Eldarov. Identification and sequencing of genes related to drought tolerance of bread wheat (*Triticum aestivum* L.) accessions in Azerbaijan/One Health Problem and Solutions 2<sup>nd</sup> International Conference. Khazar University, Bakı, 24-25 May 2019. p.73.
- **Mursalova J.M.**, Akparov Z.I., Ojaghi J.M., Eldarov M.E., Morgounov A.I. Potential usefulness of the morphological traits for evaluation of drought resistance in winter wheat / Всероссийская конференция с международным участием “50 лет ВОГиС: успехи и перспективы”. Москва, 8-10 ноября, 2016, p. 348.
- Morgounov A., Belen S., **Mursalova J.** Biomass removal in spring as a method to differentiate wheat genotypes for drought tolerance / Plant Phenotyping symposium. Barcelona, 11-12 november, 2015, p.29.  
[https://www.plant-phenotyping.org/lw\\_resource/datapool/items/item\\_321/book\\_of\\_abstracts\\_web.pdf](https://www.plant-phenotyping.org/lw_resource/datapool/items/item_321/book_of_abstracts_web.pdf)
- **Mursalova J.**, Akparov Z., Ojaghi J., Morgounov A.. Determination of stay green with NDVI (Normalized Difference Vegetation Index) in the winter wheat genotypes under stress conditions / International Plant Breeding Congress. Turkey, 10-15 November, 2013, p. 192.
- **Mürsəlova C.M.**, Eldarov M.E., Şərifova S.S. Gen-spesifik praymerlərin dizayn edilməsi // International Youth Forum: Integration processes of the world science in the 21<sup>st</sup> century, Ganja, 10-14 October, 2016, p.210-211.
- **Mürsəlova C.M.** Mikrosatellit markerlər vasitəsilə payızlıq buğda genotiplərində DNT polimorfizminin müəyyən edilməsi / Azərbaycan Xalqının Ümummilli Lideri Heydər Əliyevin anadan olmasının 92 illiyinə həsr edilmişdir: Gənc tədqiqatçıların III Beynəlxalq elmi konfransı. Bakı, 17-18 aprel, 2015, s. 299.
- **Mürsəlova C.M.** Yumşaq buğda nümunələrinin dəmyə şəraitində kəmiyyət əlamətləri əsasında genetik müxtəlifliyinin öyrənilməsi / Gənc alimlərin III innovativ ideya yarmarkasının materialları. Bakı, 16-20 Sentyabr, 2013, s. 84.
- **Mursalova J.M.** Current and Future Challenges of Wheat Yield Potential In Consequence Of Climate Change / International Conference: Environmental changes and conservation of plant diversity. Bakı, 21-23 April, 2013, p. 48.
- **Mürsəlova C.M.**, Əkrərov Z.İ., Ocaqi C.M., Morgounov A.İ. Normal və quraqlıq stresi şəraitində payızlıq yumşaq buğdalarda (*Triticum aestivum* L.) genetik müxtəlifliyin çoxölçülü statistik metodlarla qiymətləndirilməsi / International Scientific Conference of Young Researchers Proceedings” dedicated to the 90<sup>th</sup> Anniversary of the National leader of Heydar Aliyev. Qafqaz Universiteti, 26-27 April, 2013, s. 306-307.

## CURRICULUM VITAE

- **Mursalova J.**, Belen S., Morgounov A. Selection of drought-resistance wheat genotypes / International conference: Diversity, characterization and utilization of plant genetic resources for enhanced resilience to climate change. Baku, 3-4 October, 2011, p. 52. <https://www.genres.az/uploads/files/Abstracts.pdf#page=53>

**References and Certificates can be provided upon request.**