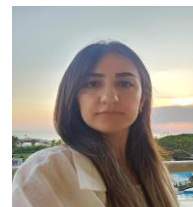


AFSANA ABDULLAYEVA

GENETICS RESEARCHER | PLANT GENETICS | MOLECULAR GENETICS

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PROFESSIONAL PROFILE

PhD researcher in Genetics with a background in Biology and Genetics, specializing in plant genetic diversity, genetic resources, and molecular marker technologies. Doctoral research focuses on tea (*Camellia sinensis* L.) genetic diversity in Azerbaijan, with previous research experience in cotton genetics and fiber traits. Experienced in laboratory research, morphological assessment, and statistical analysis. Also holds a diploma in Nursing.

EDUCATION

2012-2016	BSc in Biology Teaching <i>Azerbaijan State Pedagogical University, Baku, Azerbaijan</i> <i>Holds an additional diploma in Nursing (2014)</i>
2017-2019	MSc in Genetics <i>Baku State University, Baku, Azerbaijan</i> Thesis: <i>Study of the improvement of fiber technological properties in naturally colored cotton genotypes</i>
2022 – 2026	PhD in Genetics <i>Khazar University, Baku, Azerbaijan</i> Thesis: <i>Study of the genetic diversity and population structure of Azerbaijani tea (<i>Camellia sinensis</i> L. Kuntze) genotypes</i>

PROFESSIONAL & RESEARCH EXPERIENCE

2022-2026	PhD Researcher — Plant Genetics <i>Institute of Genetic Resources, ANAS, Azerbaijan</i> • Conducting research on genetic diversity and characterization of tea (<i>Camellia sinensis</i> L.) genotypes. • Applying RAPD, REMAP, IRAP and ISSR molecular marker approaches for genetic diversity assessment. • Performing ANOVA, correlation analysis, PCA and cluster analysis
2017-present	Laboratory Research Experience <i>Institute of Genetic Resources, ANAS, Azerbaijan</i> • Performed plant material preparation and DNA extraction for genetic research. • Prepared DNA samples for molecular marker analysis and assisted with PCR procedures. • Worked with gel electrophoresis and organized laboratory samples and records.
2024	Clinical Experience — Short-term <i>Gabala District Central Hospital, Gabala, Azerbaijan</i> • Gained practical experience in a clinical environment. • Followed hygiene, safety and workplace protocols and developed teamwork.
2018	Biology Teacher — Educational Courses <i>Baku, Azerbaijan</i> • Taught biology and supported students in academic and examination preparation.

LANGUAGES & SOFTWARE

Languages: Azerbaijani , Turkish, English

Software: Familiar with general and statistical computer software- Microsoft Word, Excel, PowerPoint, Outlook, Access; SPSS; MSTATC; GenAlEx; POPGEN; MEGA; BIOEDIT

1. Abdullayeva, Ə., & Məmmədova, R. (2019). Təbii rəngli lifə malik pambıq genotiplərində lifin texnoloji xüsusiyyətlərinin yaxşılaşdırılmasının öyrənilməsi. In *Müasir biologiyada innovativ yanaşmalar: IX Beynəlxalq elmi konfransın materialları* (pp. 79–82). Bakı Dövlət Universiteti.
2. Mammadova, R., Abdullayeva, A., Musayeva, A., & Nagiyeva, L. (2019). Identification of *Verticillium dahliae*-resistant cotton genotypes using chromosome substitution lines. In *Proceedings of the 1st International Conference on Air-Land-Sea Interaction*. Khazar University.
3. Abdullayeva, A., Hasanov, A., Abdullayev, F., Rzayeva, C., & Ojaghi, J. (2023). Evaluation of tea accessions in the Lankaran-Astara region of Azerbaijan Republic based on morphological traits. In *Proceedings of the 3rd International Congress on Engineering and Life Sciences ForesTR: The Balance of the Life Carbon* (p. 208). Karadeniz Technical University, Pressing Publishing. <https://doi.org/10.61326/icelis.2023.28>
4. Abdullayeva, A. (2023). Collection of Azerbaijan tea (*Camellia sinensis* (L.) Kuntze) varieties belonging to the Lankaran-Astara region and using their valuable traits in breeding programs. *Khazar Journal of Science and Technology*, 7(2), 11–18. <https://doi.org/10.5782/2520-6133.2023.7.2.11>
5. Abdullayeva, Ə. (2024). Budama və formavermə üsullarının tətbiqinin Azərbaycanın Lənkəran və Astara zonasındakı çay plantasiyaları nümunələrinin məhsuldarlığına təsiri. In *Gənc tədqiqatçıların VII Respublika elmi konfransının materialları* (pp. 25–27). Azərbaycan Universiteti.
6. Abdullayeva, Ə. (2024). Azərbaycanın Lənkəran–Astara bölgəsində yetişən çay plantasiyalarında müxtəlif yığım üsullarının məhsuldarlığa təsiri. In *Future Trends in Leisure and Recreation 2024 Kongresi* (pp. 16–18). Ankara Hacı Bayram Veli Üniversitesi, Azərbaycan Dövlət Universiteti, Azərbaycan Mədəniyyət və İncəsənət Universiteti, & Kırgızistan-Türkiyə Manas Universiteti.
7. Abdullayeva, A. (2024). Analysis of the role of molecular marker technologies in the research of genetic diversity of plants. *Nature and Science International Online Scientific Journal*, 6(7), 47–52. <https://doi.org/10.36719/2707-1146/46/47-52>
8. Abdullayeva, Ə. (2024). Azərbaycanda yetişən çay klonlarının morfoloji əlamətlərinin tədqiqi və morfoloji əlamətlərinin öyrənilməsinin əhəmiyyəti. *The Vertices of Science International Scientific and Practical Journal*, 1(1), 26–32.
9. Abdullayeva, A., Eldarova, J., & Ojaghi, J. (2025). Exploring genetic diversity and morphological traits of Azerbaijan tea (*Camellia sinensis* L.) for breeding climate-resilient cultivars. In *Proceedings of the 4th International Conference on Health*. Khazar University.
10. Abdullayeva, Ə. F. (2026). Relationship between morphological and yield traits in tea (*Camellia sinensis* L.) varieties in Azerbaijan. In K. Gulusoy (Ed.), *Proceedings of the International Symposium on Women, Society, Science and Sustainable Development (AURORA 2026)* (pp. 469–476). Turksan Publishing House. <https://doi.org/10.66526/aurora.2026.proceedings>