



# Naima Niyazova

Researcher

- 30 August 1994
- N.Narimaov. Baku, Azerbaijan
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- Azerbaijani

## Social Network



## Languages

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- Azeri ●●●●●
- Turkish ●●●●●
- English ●●●●●

## Education

- 2015 – 2017 **M.Sc. “Molecular Biology” Honor Diploma - Baku State University** with thesis title of "Genome-specific identification of DREB 1 transcription factor gene in wheat genotypes"
- 2011 – 2015 **B.Sc. “Biology” Specialist Diploma - Baku State University**

## Work Experience

- 11.2022-07.2023 **Visiting Research Associate**  
National Research Council of Italy, Institute for Sustainable Plant Protection, Florence, Italy.
- 2022- currently **Researcher**  
Institute of Molecular Biology & Biotechnologies, Azerbaijan National Academy of Sciences; The Laboratory of Bioadaptation.
- 2021-2022 **Senior Specialist**  
Institute of Molecular Biology & Biotechnologies, Azerbaijan National Academy of Sciences; Education department.
- 2018 – 2019 **Junior Researcher**  
Institute of Molecular Biology & Biotechnologies, Azerbaijan National Academy of Sciences; The Laboratory of Bioinformatics.
- 2017 – 2018 **Senior Research Assistant**  
Institute of Molecular Biology & Biotechnologies, Azerbaijan National Academy of Sciences; The Laboratory of Molecular Biotechnology.

## Training/workshop

- 2021-2022 LANDAU Academy training course  
**international school - teaching training**
- 2020 The Laboratory of Virology and Microbiology at National Reference Laboratory, Azerbaijan  
**\*\*Identification of infectious diseases of agricultural animals by serological and molecular analyses (January-February)**  
**\*\*Detecting COVID-19 in patients by Real-time PCR (March)**
- 2019 Medical University of Azerbaijan & Khazar University  
**Designing and application of Genome editing with CRISPR Technology (workshop)**
- 2017 Baku State University, Molecular Biology and Biotechnology Department of Biology Faculty  
**Scientific -Pedagogical practice - Molecular biology (April-May)**
- 2015- 2016 Institute of Molecular Biology & Biotechnologies, The Laboratory of Genome Structure and Expression; The Laboratory of Bioadaptation  
**Molecular biology specialization methods**

## Honor Award

- 2017 **Honor Certificate** (awarding for higher education performance and social activities during university studies by the Ministry of Education of the Republic of Azerbaijan, Baku State University)

## Volunteering

- 2014-2015 Baku State University, Nano-Research Center

## Research interests

- ❖ Molecular Oncology
- ❖ Experimental Oncology
- ❖ Cancer Metastasis
- ❖ HSC/Leukemia
- ❖ Regenerative Medicine
- ❖ Immunotherapy
- ❖ Genetic disorders
- ❖ Gene therapy
- ❖ Genome instability
- ❖ DNA reparation
- ❖ RNAs

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## Skills

### Laboratory skills

DNA&RNA extraction

PCR, Real-time PCR, RT-PCR, Nested PCR

Agarose gel electrophoresis

Polyacrylamide gel electrophoresis (PAGE), SDS-PAGE

Identification of DNA&RNA Concentration

Enzymes extraction

Identification of enzymatic activity

Spectrophotometry

ELISA

Cell culture

Immunocytochemistry

Fluorescence and electron microscopy

Western Blot

### Soft Skills



## Projects

- 2018-2019 Determination of Sr genes that are responsible for resistance to stem rust in the embryonic plasma of wheat in Azerbaijan (financed by SDF)
- 2019-2021 Benzimidazolodihydrothiophene and dihydropyridinecarboxamide derivatives as inhibitors of photosynthetic, carboanhydrase and glutathione reductase activity (financed by SDF)
- 2021-2022 Improving the drought and salt tolerance of wheat in Azerbaijan through the application of molecular genetics, cellular biotechnology, and proteomic approaches to ensure food security (financed by ANAS)
- 2022-2023 The study of the biochemical markers of tomato plants exposed to drought and biotic stress and experienced with microorganism extracts as biostimulants of tolerance (in Italy;financed by ANAS and IPSP)

## Certificates

- ❖ **1<sup>st</sup> Place for Achievement at the Towards Sustainable Chemistry And Chemical Engineering Innovations For Building A Better World** (The Certificate of Achievement 1st Place at the International Conference, BHOS; SOCAR 2023)
- ❖ **Cancer metastasis** (Johns Hopkins University Coursera)
- ❖ **Metagenomics Applied to Surveillance of Pathogens and Antimicrobial Resistance** (Technical University of Denmark Coursera)
- ❖ **Regenerative medicine** (Multidisciplinary approach to the application of regenerative cells in various fields of Medicine. The Secret of Youth and Regeneration Processes conference)
- ❖ **Designing and application of Genome editing with CRISPR Technology** (workshop)
- ❖ **Sustainable development in Chemistry and Chemical engineering** (Conference, distinguished participation)

## Conferences

- 2021 **"Sustainable development in Chemistry and Chemical engineering"** the 2<sup>nd</sup> student research and scientific conference; Baku Higher Oil School
- 2020 **"Human Genetics and Genetic disorders"** Azerbaijan Medical University
- 2018 **"Multidisciplinary approach to application of regenerative cells in various fields of Medicine. The secret of youth and regeneration processes"** conference Yildiz Technical University, T.C. University of Health Sciences Training and Research Hospital.
- 2017 **"Innovative Problems of Modern Biology"** VII International scientific conference for young scientists and researchers. Baku State University
- 2016 **"Innovative approaches to conservation of Biodiversity international scientific conference"** Azerbaijan National Academy of Science.
- 2016 **"Innovative Problems of Modern Biology"** VI International scientific conference for young scientists and researchers. Baku State University

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## Hobbies

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## Publications

- 2021 **The effect of drought stress on Ascorbate peroxidase enzyme activity and content of ascorbic acid in leaves of tomato (*Solanum Lycopersicum* L.) genotypes.**  
*Naima Niyazova*  
Transactions of The Institute of Molecular Biology and Biotechnologies ANAS vol 5, page 47-50.
- 2021 **The investigation of some physiological parameters in local tomato cultivars exposed to drought stress.**  
*Naima Niyazova*  
The materials of the 2nd student research and scientific conference on Sustainable development in Chemistry and Chemical engineering, Baku Higher Oil School, page 255.
- 2020 **The effect of drought stress on antioxidant enzymes and lipid peroxidation in two tomato genotypes**  
*Naima Niyazova, Durna Aliyeva*  
Transactions of The Institute of Molecular Biology and Biotechnologies ANAS vol 4, pages 73-76.
- 2017 **Study of the DREB transcription factor gene regulating drought resistance on wheat A and D genomes**  
*Abdullayeva G.R., Niyazova N.N., Rüstəmovə S.M.*  
The Materials of the 7<sup>th</sup> International Conference on "Innovative Problems of Modern Biology" for young scientists and researchers, Baku State University, page 5-8.
- 2016 **Identification of Wheat TaDREB1 Gene Using Functional Markers**  
*Niyazova N.N., Rüstəmovə S.M., Hüseynova İ.M.*  
The Materials of the International Conference on "Innovative approaches to the conservation of Biodiversity" dedicated to the 80<sup>th</sup> Anniversary of the Institute of Botany, ANAS. page 55.
- 2016 **Identification of DREB 1 transcription factor gene using functional markers on wheat genotypes (in Azeri)**  
*Niyazova N.N., Rüstəmovə S.M., Hüseynova İ.M.*  
The Materials of the 6<sup>th</sup> International Conference on "Innovative Problems of Modern Biology" for young scientists and researchers, Baku State University, page 30-31

## References

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### Prof. Ziyaddin Mammadov PhD

- Doctor of Sciences in Biology
- Head of the Department of Molecular Biology and Biotechnology, Baku State University, Baku, Azerbaijan.
- [ziyaddinmammadov@bsu.edu.az](mailto:ziyaddinmammadov@bsu.edu.az)

### Prof. Rovshan Khalilov, PhD

- Doctor of Sciences in Physics and Mathematics
- Head of the Department of Biochemistry and Biotechnology Baku State University, Baku, Azerbaijan.
- Director of the Center "Joint Ukraine-Azerbaijan International Research and Education Center of Nanobiotechnology and Functional Nanosystems". Drohobych, Ukraine; Baku Azerbaijan.
- [rovshankhalilov@bsu.edu.az](mailto:rovshankhalilov@bsu.edu.az)