



**Olga Bulgakova**  
Acting Professor

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**Professional experience:**

2022 - visiting professor at Bukhara State University (Republic of Uzbekistan)

2021 - Member of the National Scientific Council in the direction "Science of Life and Health" of the MES RK

2019 - Associate Professor (Decision of the Committee for Control in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan)

2014 - to the present day, Scientific Secretary of the Dissertation Council of "Biology and Related Sciences"

2014 – Acting Associate Professor, Department of General Biology and Genomics, L.N. Gumilyov, Eurasian National University

2011 – Senior Lecturer, Department of General Biology and Genomics, L.N. Gumilyov, Eurasian National University

2008-2011 – L.N. Gumilyov, Eurasian National University, specialty – Biology, qualification – Ph.D.

2004-2008 – Lecturer of Clinical Genetics, Ust-Kamenogorsk Medical College

2004 – Botanic Expert, JSC "Ecoaltay"

**Scientific degree, scientific school:**

Ph.D. in biology, Associate Professor

2015 -Department of Health Sciences, Cancer and Degenerative Diseases, University of Genoa (Italy)

2014 - Stockholm University (Stockholm, Sweden)

2012 - Siberian Institute of Plant Physiology and Biochemistry SB RAS (Irkutsk, Russia)

2010-2011 – University of Texas M.D. Anderson Cancer Center

2008-2011 – L.N. Gumilyov, Eurasian National University, specialty – Biology, qualification - PhD

2006 – Wirtschaftsakademie Schleswig-Holstein GmbH (Germany)

2000-2006 – Bachelor and Master degree, S. Amanzholov East Kazakhstan State University, specialty – Biology

1999 – Zyryan branch of Ust-Kamenogorsk Medical College, specialty - Medical Business, qualification - Doctor's Assistant

**Scientific interests:**

Molecular Biology

**Grants:**

2008-2023 Research Grants on Basic Researches of the Republic of Kazakhstan

2010-2011 Individual Investigator grant from CPRIT (Cancer Prevention and Research Institute of Texas), grant № RP 130276 subject: "The mTOR-dependent nuclear transport in cancer"

**Delivered courses:**

Genetics (B). Molecular and cellular biology (M). Genome structure and organization (M) Eukaryotic genome (M). Genomics and Proteomics (M). Nonchromosomal inheritance (M). Cell cycle genetics (M).

**Publications (selected):**

The level of free-circulating mtDNA in patients with radon-induced lung cancer// *Environmental Research*. – **2022**. –Vol. 207. – P.112215 (Web of Science **Q1 IF= 6.498**)

The Role of Mitochondrial miRNAs in the Development of Radon-Induced Lung Cancer//*Biomedicines*.- **2022**.- Vol. 10(2). – P.428 (Web of Science **Q1 IF= 6.081**)

Involvement of Circulating Cell-Free Mitochondrial DNA and Proinflammatory Cytokines in Pathogenesis of Chronic Obstructive Pulmonary Disease and Lung Cancer// *Asian Pac J Cancer Prev*.- **2021**. - Vol. 22 (6). – P.1927-1933 (Scopus **procentile 55**)

Role of microRNAs in Lung Carcinogenesis Induced by Asbestos // *J Pers Med*. – **2021**. - 11(2):97. (Web of Science **Q1 IF= 4.945**)

Radon Biomonitoring and microRNA in Lung Cancer// *Int J Mol Sci*.Vol.21(6). – **2020**. - P. 2154. (Web of Science **Q1 IF= 5.924**)

The cell cycle regulatory gene polymorphisms TP53 (rs1042522) and MDM2 (rs2279744) in lung cancer: a meta-analysis// *Vavilov Journal of Genetics and Breeding*. – **2020**. – Vol. 24(7). – P.777-784 (Scopus **procentile 38**)

Association of polymorphism TP53 Arg72Pro with radon-induced lung cancer in the Kazakh population // *Vavilov Journal of Genetics and Breeding*. – **2019**. – Vol.23(5). – P.594–599. (Scopus **procentile 38**)

The free-circulating mtDNA copies number in plasma of patients with NSCLC // *Annals of Oncology*. – **2019**. - Sup.- P. 467. (Web of Science **Q1, IF= 32.976**)

miR-19 in blood plasma reflects lung cancer occurrence but is not specifically associated with radon exposure // *Oncology letters*.Vol. – **2018**. - 15(6). pp.8816-8824 (Web of Science **Q4, IF= 2.967**)

The health effects of radon and uranium on the population of Kazakhstan // *Genes and Environment*. - **2015**. - Vol. 37:18. pp.1-10. (Scopus **procentile 78**)

Autoregulation of the mTOR Complex 2 integrity is controlled by the ATP-dependent mechanism // *JBC*. - **2013**.- Vol. 288. pp. 27019-27030. (Web of Science **Q2, IF= 5.157**)

Integrity of mTORC2 is dependent on the rictor Gly-934 site // *Oncogene*. - 2012.- Vol. 31 (16) , pp.2115-2120 (Web of Science **Q1, IF= 9.867**)

Isolation of the mTOR Complexes by Affinity Purification // *Methods in Molecular Biology* . - **2012**. - Vol. 821. pp. 59–74. (Scopus **procentile 24**)