Contact Information: Kiril Kirilov, PhD

Email: kkirilov@bio21.bas.bg

Organizational Unit:

Department of Gene Regulation Institute of Molecular Biology "Roumen Tsanev" Bulgarian Academy of Sciences



Research Interests / Keywords:

Molecular biology, bioinformatics, structural biology, molecular dynamics. **PhD Thesis:** Codon usage in bacteria and mammalian mitochondria

Selected publications:

- Rositsa Tsekovska, Yordan Handzhiyski, Elitsa Boteva, Kiril Kirilov, Toshimitsu Niwa, Ivan Ivanov, Roumyana Mironova. Advanced Glycation End Products in Escherichia coli K-12 – a Sign of Aging. In: Advanced Glycation End Products (AGEs): Regulation, Function and Role in Health and Disease. Nova Publishers, Inc. NY, USA, 2017 2017
- 2. Kiril Kirilov, Ivan G. Ivanov. Statistical Analysis of Codon Pairs Usage in Prokaryotic Genomes. 2, 1, 2015, ISSN:2367-5233 2015
- Kiril T Kirilov, Ivan G Ivanov, Ashkan Golshani. Biotechnology & Biotechnological Equipment. 27, 4, 2013, ISSN:ISSN: 1310-2818, DOI:DOI: 10.5504/BBEQ.2013.0052, ISI IF:0.3 2013
- Kiril T Kirilov, Ivan G Ivanov, Ashkan Golshani. Termination codons and stop codon context in bacteria and mammalian mitochondria. Biotechnology & Biotechnological Equipment, 2013, DOI:DOI:10.5504/BBEQ.2013.0052, ISI IF:0.3 2013
- Kiril Kirilov, Ivan G Ivanov. A programme for determination of codons and codons context frequency of occurrence in sequenced genomes. Biotechnology & Biotechnological Equipment, 2012, ISSN:ISSN: 1310-2818, DOI:DOI: 10.5504/BBEQ.2012.0074, ISI IF:0.3 2012 1
- Kiril Kirilov, Ivan Ivanov, Stoyan Markov, Vera Maximova. Comparative Genomic Studies of Influenza a Viruses Performed on Bluegene P Supercomputer: Part 1. Conservative Nucleotide Sequences in Influenza a Virus Genomes Revealed by Multiple Sequence Alignment. Biotechnology & Biotechnological Equipment, 2011, DOI:10.5504/bbeq.2011.0098, 8 2011

Scientific projects for last 5 years:

- "Glycation and immunogenicity of protein therapeutics 2. Anti-glycation activity of vitamin B6 3. Repair of glycation damaged DNA", *financed by National Science Fund.* Project duration 2017–2018
- Intelligent method for adaptive in-silico knowledge discovery and decision making based on analysis of big data streams for scientific research *financed by National Science Fund.* Project duration 2017–2019