

# Dmitry Baitin

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

371  
citations

758635

12  
h-index

839053

18  
g-index

27  
all docs

27  
docs citations

27  
times ranked

362  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A novel function of DNA polymerase $\beta$ regulated by PCNA. <i>EMBO Journal</i> , 2006, 25, 4316-4325.   | 3.5 | 94        |
| 2  | Blocking the RecA activity and SOS-response in bacteria with a short $\alpha$ -helical peptide. <i>Nucleic Acids Research</i> , 2017, 45, 9788-9796.   | 6.5 | 30        |
| 3  | Systematic search for structural motifs of peptide binding to double-stranded DNA. <i>Nucleic Acids Research</i> , 2019, 47, 10553-10563.  | 6.5 | 26        |
| 4  | Biochemical basis of hyper-recombinogenic activity of <i>Pseudomonas aeruginosa</i> RecA protein in <i>Escherichia coli</i> cells. <i>Molecular Microbiology</i> , 1998, 27, 727-738.                          | 1.2 | 24        |
| 5  | Efficient Strand Transfer by the RadA Recombinase from the Hyperthermophilic Archaeon <i>Desulfurococcus amylolyticus</i> . <i>Journal of Bacteriology</i> , 2000, 182, 130-134.                               | 1.0 | 21        |
| 6  | Analytical model for determination of parameters of helical structures in solution by small angle scattering: comparison of RecA structures by SANS. <i>FEBS Letters</i> , 2003, 537, 182-186.                 | 1.3 | 19        |
| 7  | SSB Antagonizes RecX-RecA Interaction. <i>Journal of Biological Chemistry</i> , 2008, 283, 14198-14204.  | 1.6 | 18        |
| 8  | Structure of RecX protein complex with the presynaptic RecA filament: Molecular dynamics simulations and small angle neutron scattering. <i>FEBS Letters</i> , 2014, 588, 948-955.                             | 1.3 | 16        |
| 9  | <i>Deinococcus radiodurans</i> RecA nucleoprotein filaments characterized at the single-molecule level with optical tweezers. <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 426-430. | 1.0 | 15        |
| 10 | Hyper-recombinogenic RecA Protein from <i>Pseudomonas aeruginosa</i> with Enhanced Activity of its Primary DNA Binding Site. <i>Journal of Molecular Biology</i> , 2003, 328, 1-7.                             | 2.0 | 13        |
| 11 | Distinguishing Characteristics of Hyperrecombinogenic RecA Protein from <i>Pseudomonas aeruginosa</i> Acting in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006, 188, 5812-5820.               | 1.0 | 13        |
| 12 | Fluorescence and Excitation <i>Escherichia coli</i> RecA Protein Spectra Analyzed Separately for Tyrosine and Tryptophan Residues. <i>Archives of Biochemistry and Biophysics</i> , 2000, 376, 124-140.        | 1.4 | 12        |
| 13 | Modulating cellular recombination potential through alterations in RecA structure and regulation. <i>Molecular Microbiology</i> , 2010, 78, 1523-1538.   | 1.2 | 12        |
| 14 | Targeting evolution of antibiotic resistance by SOS response inhibition. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 777-783.  | 1.9 | 12        |
| 15 | Two RecA Protein Types That Mediate Different Modes of Hyperrecombination. <i>Journal of Bacteriology</i> , 2008, 190, 3036-3045.  | 1.0 | 10        |
| 16 | A recombinational defect in the C-terminal domain of <i>Escherichia coli</i> RecA protein is compensated by protein binding to ATP. <i>Molecular Microbiology</i> , 1997, 23, 255-265.                         | 1.2 | 9         |
| 17 | DNA Metabolism in Balance: Rapid Loss of a RecA-Based Hyperrec Phenotype. <i>PLoS ONE</i> , 2016, 11, e0154137.  | 1.1 | 5         |
| 18 | Single-Molecule Insights into ATP-Dependent Conformational Dynamics of Nucleoprotein Filaments of <i>Deinococcus radiodurans</i> RecA. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7389.    | 1.8 | 4         |

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|----|--|-----|-----------|
| 19 | Single-molecule analysis reveals two distinct states of the compressed RecA filament on single-stranded DNA. FEBS Letters, 2020, 594, 3464-3476.   | 1.3 | 4         |
| 20 | A new insight into RecA filament regulation by RecX from the analysis of conformation-specific interactions. ELife, 0, 11, .   | 2.8 | 4         |
| 21 | Change of filamentation dynamics of RecA protein induced by D112R Amino acid substitution or ATP to dATP replacement; results in filament resistance to RecX protein action. Molecular Biology, 2011, 45, 500-507. | 0.4 | 3         |
| 22 | Enzymatic control of homologous recombination and hyperrecombination in Escherichia coli. Molecular Biology, 2013, 47, 181-191.  | 0.4 | 2         |
| 23 | Deinococcus radiodurans RecX and Escherichia coli RecX proteins are capable to replace each other in vivo and in vitro. Russian Journal of Genetics, 2016, 52, 257-262.  | 0.2 | 1         |
| 24 | The new mechanism of the frequency of recombination exchanges increase by improving the synaptase activity of the RecA protein from Escherichia coli. Doklady Biochemistry and Biophysics, 2010, 432, 120-122.     | 0.3 | 0         |
| 25 | Real-Time RecA Filament Disassembly in the Presence of RecX Monitored using Single-Molecule Manipulation by Optical Tweezers. Biophysical Journal, 2015, 108, 69a.   | 0.2 | 0         |