

Sergey V Razin

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8127373/sergey-v-razin-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

220 papers	4,349 citations	34 h-index	56 g-index
236 ext. papers	5,061 ext. citations	6.4 avg, IF	5.74 L-index

#	Paper	IF	Citations
220	Single-nucleus Hi-C reveals unique chromatin reorganization at oocyte-to-zygote transition. <i>Nature</i> , 2017 , 544, 110-114	50.4	418
219	Active chromatin and transcription play a key role in chromosome partitioning into topologically associating domains. <i>Genome Research</i> , 2016 , 26, 70-84	9.7	225
218	Replication origins are attached to the nuclear skeleton. <i>Nucleic Acids Research</i> , 1986 , 14, 8189-207	20.1	157
217	Cys2His2 zinc finger protein family: classification, functions, and major members. <i>Biochemistry (Moscow)</i> , 2012 , 77, 217-26	2.9	107
216	Large-scale fragmentation of mammalian DNA in the course of apoptosis proceeds via excision of chromosomal DNA loops and their oligomers. <i>Journal of Biological Chemistry</i> , 1995 , 270, 20239-41	5.4	106
215	Mechanisms of heat shock response in mammals. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 4229-41	10.3	86
214	Small molecule compounds that induce cellular senescence. <i>Aging Cell</i> , 2016 , 15, 999-1017	9.9	82
213	Proteins tightly bound to DNA in the regions of DNA attachment to the skeletal structures of interphase nuclei and metaphase chromosomes. <i>Cell</i> , 1981 , 27, 65-73	56.2	81
212	Control of human cytomegalovirus gene expression by differential histone modifications during lytic and latent infection of a monocytic cell line. <i>Gene</i> , 2006 , 384, 120-8	3.8	78
211	Different topoisomerase II antitumor drugs direct similar specific long-range fragmentation of an amplified c-MYC gene locus in living cells and in high-salt-extracted nuclei. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 102-6	11.5	74
210	Disclosure of a structural milieu for the proximity ligation reveals the elusive nature of an active chromatin hub. <i>Nucleic Acids Research</i> , 2013 , 41, 3563-75	20.1	72
209	The channels model of nuclear matrix structure. <i>BioEssays</i> , 1995 , 17, 443-50	4.1	68
208	Specificity and functional significance of DNA interaction with the nuclear matrix: new approaches to clarify the old questions. <i>International Review of Cytology</i> , 1995 , 162B, 405-48		67
207	Chromosome conformation capture (from 3C to 5C) and its ChIP-based modification. <i>Methods in Molecular Biology</i> , 2009 , 567, 171-88	1.4	63
206	Characterization of DNA pattern in the site of permanent attachment to the nuclear matrix located in the vicinity of replication origin. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 168, 9-15	3.4	62
205	Nucleolus: A Central Hub for Nuclear Functions. <i>Trends in Cell Biology</i> , 2019 , 29, 647-659	18.3	61
204	Chromatin domains and regulation of transcription. <i>Journal of Molecular Biology</i> , 2007 , 369, 597-607	6.5	61

203	Visualization of individual DNA loops and a map of loop domains in the human dystrophin gene. <i>Nucleic Acids Research</i> , 2004 , 32, 2079-86	20.1	60
202	Nuclear lamina integrity is required for proper spatial organization of chromatin in Drosophila. <i>Nature Communications</i> , 2019 , 10, 1176	17.4	52
201	Dual effect of heat shock on DNA replication and genome integrity. <i>Molecular Biology of the Cell</i> , 2012 , 23, 3450-60	3.5	50
200	CTCF-dependent enhancer blockers at the upstream region of the chicken alpha-globin gene domain. <i>Nucleic Acids Research</i> , 2004 , 32, 1354-62	20.1	49
199	In vivo formaldehyde cross-linking: it is time for black box analysis. <i>Briefings in Functional Genomics</i> , 2015 , 14, 163-5	4.9	48
198	Nuclear matrix attachment regions and topoisomerase II binding and reaction sites in the vicinity of a chicken DNA replication origin. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 177, 265-70	20.4	47
197	Transcription factories in the context of the nuclear and genome organization. <i>Nucleic Acids Research</i> , 2011 , 39, 9085-92	20.1	46
196	Spatial configuration of the chicken alpha-globin gene domain: immature and active chromatin hubs. <i>Nucleic Acids Research</i> , 2008 , 36, 4629-40	20.1	46
195	Mechanism of heat stress-induced cellular senescence elucidates the exclusive vulnerability of early S-phase cells to mild genotoxic stress. <i>Nucleic Acids Research</i> , 2015 , 43, 6309-20	20.1	43
194	Long-range fragmentation of the eukaryotic genome by exogenous and endogenous nucleases proceeds in a specific fashion via preferential DNA cleavage at matrix attachment sites. <i>Journal of Biological Chemistry</i> , 1995 , 270, 18685-90	5.4	42
193	Genomic domains and regulatory elements operating at the domain level. <i>International Review of Cytology</i> , 2003 , 226, 63-125		41
192	Low ionic strength extraction of nuclease-treated nuclei destroys the attachment of transcriptionally active DNA to the nuclear skeleton. <i>Nucleic Acids Research</i> , 1985 , 13, 7427-44	20.1	41
191	Synthetically Lethal Interactions of ATM, ATR, and DNA-PKcs. <i>Trends in Cancer</i> , 2018 , 4, 755-768	12.5	40
190	Organization of the 3'-boundary of the chicken alpha globin gene domain and characterization of a CR 1-specific protein binding site. <i>Nucleic Acids Research</i> , 1990 , 18, 401-9	20.1	39
189	A. E. Braunstein Plenary Lecture. Nuclear skeleton, DNA domains and control of replication and transcription. <i>FEBS Journal</i> , 1991 , 200, 613-24		37
188	Chromatin without the 30-nm fiber: constrained disorder instead of hierarchical folding. <i>Epigenetics</i> , 2014 , 9, 653-7	5.7	35
187	Communication of genome regulatory elements in a folded chromosome. <i>FEBS Letters</i> , 2013 , 587, 1840-3	3.8	34
186	A requiem to the nuclear matrix: from a controversial concept to 3D organization of the nucleus. <i>Chromosoma</i> , 2014 , 123, 217-24	2.8	33

185	Dynamics of double strand breaks and chromosomal translocations. <i>Molecular Cancer</i> , 2014 , 13, 249	42.1	33
184	Single-cell Hi-C bridges microscopy and genome-wide sequencing approaches to study 3D chromatin organization. <i>BioEssays</i> , 2017 , 39, 1700104	4.1	32
183	Chromosomal DNA loops may constitute basic units of the eukaryotic genome organization and evolution. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 1999 , 9, 279-83	1.3	31
182	Perinucleolar relocalization and nucleolin as crucial events in the transcriptional activation of key genes in mantle cell lymphoma. <i>Blood</i> , 2014 , 123, 2044-53	2.2	30
181	DNA loop anchorage region colocalizes with the replication origin located downstream to the human gene encoding lamin B2. <i>Journal of Cellular Biochemistry</i> , 1998 , 69, 13-8	4.7	30
180	A CTCF-dependent silencer located in the differentially methylated area may regulate expression of a housekeeping gene overlapping a tissue-specific gene domain. <i>Molecular and Cellular Biology</i> , 2006 , 26, 1589-97	4.8	30
179	The 33 kb transcript of the chicken alpha-globin gene domain is part of the nuclear matrix. <i>Journal of Cellular Biochemistry</i> , 2004 , 92, 445-57	4.7	30
178	Weak interactions in higher-order chromatin organization. <i>Nucleic Acids Research</i> , 2020 , 48, 4614-4626	20.1	30
177	Non-clonability correlates with genomic instability: a case study of a unique DNA region. <i>Journal of Molecular Biology</i> , 2001 , 307, 481-6	6.5	29
176	Induction of transcription within chromosomal DNA loops flanked by MAR elements causes an association of loop DNA with the nuclear matrix. <i>Nucleic Acids Research</i> , 2005 , 33, 4157-63	20.1	28
175	Functional architecture of chromosomal DNA domains. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 1996 , 6, 247-69	1.3	28
174	Identification of c-Myb Target Genes in K562 Cells Reveals a Role for c-Myb as a Master Regulator. <i>Genes and Cancer</i> , 2011 , 2, 805-17	2.9	27
173	Breakpoint cluster regions of the AML-1 and ETO genes contain MAR elements and are preferentially associated with the nuclear matrix in proliferating HEL cells. <i>Journal of Cell Science</i> , 2004 , 117, 4583-90	5.3	27
172	Transcriptional regulation and spatial organisation of the human AML1/RUNX1 gene. <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 1997-2005	4.7	25
171	Nuclear compartments, genome folding, and enhancer-promoter communication. <i>International Review of Cell and Molecular Biology</i> , 2015 , 315, 183-244	6	24
170	The anti-cancer drugs curaxins target spatial genome organization. <i>Nature Communications</i> , 2019 , 10, 1441	17.4	22
169	Mapping of replication origins and termination sites in the Duchenne muscular dystrophy gene. <i>Genomics</i> , 1997 , 45, 24-30	4.3	22
168	Mapping long-range chromatin organization within the chicken alpha-globin gene domain using oligonucleotide DNA arrays. <i>Genomics</i> , 2005 , 85, 143-51	4.3	22

167	The distribution of tightly bound proteins along the DNA chain reflects the type of cell differentiation. <i>Nucleic Acids Research</i> , 1988 , 16, 3617-33	20.1	22
166	The Role of Liquid-Liquid Phase Separation in the Compartmentalization of Cell Nucleus and Spatial Genome Organization. <i>Biochemistry (Moscow)</i> , 2020 , 85, 643-650	2.9	21
165	Quantitative analysis of genomic element interactions by molecular colony technique. <i>Nucleic Acids Research</i> , 2014 , 42, e36	20.1	21
164	Breakpoint Clusters: Reason or Consequence?. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2004 , 14, 65-78	1.3	21
163	Human cytomegalovirus proteins PP65 and IEP72 are targeted to distinct compartments in nuclei and nuclear matrices of infected human embryo fibroblasts. <i>Journal of Cellular Biochemistry</i> , 2003 , 90, 1056-67	4.7	20
162	Extensive methylation of a part of the CpG island located 3.0-4.5 kbp upstream to the chicken alpha-globin gene cluster may contribute to silencing the globin genes in non-erythroid cells. <i>Journal of Molecular Biology</i> , 2000 , 299, 845-52	6.5	19
161	Actual ligation frequencies in the chromosome conformation capture procedure. <i>PLoS ONE</i> , 2013 , 8, e60403	3.7	18
160	Chromatin loops, illegitimate recombination, and genome evolution. <i>BioEssays</i> , 2009 , 31, 278-86	4.1	18
159	Assembly of nuclear matrix-bound protein complexes involved in non-homologous end joining is induced by inhibition of DNA topoisomerase II. <i>Journal of Cellular Physiology</i> , 2006 , 207, 660-7	7	18
158	The specificity of human lymphocyte nucleolar DNA long-range fragmentation by endogenous topoisomerase II and exogenous Bal 31 nuclease depends on cell proliferation status. <i>Biochemistry</i> , 1995 , 34, 4133-8	3.2	18
157	Interaction in vivo between the two matrix attachment regions flanking a single chromatin loop. <i>Journal of Molecular Biology</i> , 2009 , 386, 929-37	6.5	17
156	In the nucleus and cytoplasm of chicken erythroleukemic cells, prosomes containing the p23K subunit are found in centers of globin (pre-)mRNA processing and accumulation. <i>Experimental Cell Research</i> , 1999 , 250, 569-75	4.2	17
155	The 3D Genome as a Target for Anticancer Therapy. <i>Trends in Molecular Medicine</i> , 2020 , 26, 141-149	11.5	17
154	Early S-phase cell hypersensitivity to heat stress. <i>Cell Cycle</i> , 2016 , 15, 337-44	4.7	16
153	Cell-cycle-dependent localization of human cytomegalovirus UL83 phosphoprotein in the nucleolus and modulation of viral gene expression in human embryo fibroblasts in vitro. <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 307-17	4.7	16
152	Chemotherapy-related secondary leukemias: A role for DNA repair by error-prone non-homologous end joining in topoisomerase II - Induced chromosomal rearrangements. <i>Gene</i> , 2007 , 391, 76-9	3.8	16
151	Functional analysis of DNA sequences located within a cluster of DNase U hypersensitive sites colocalizing with a MAR element at the upstream border of the chicken γ -globin gene domain. <i>Journal of Cellular Biochemistry</i> , 1999 , 74, 38-49	4.7	16
150	Domain organization of eukaryotic genome. <i>Cell Biology International Reports</i> , 1992 , 16, 697-708		16

149	Initiated complexes of RNA polymerase II are concentrated in the nuclear skeleton associated DNA. <i>Experimental Cell Research</i> , 1985 , 158, 273-5	4.2	16
148	Hypoosmotic stress induces R loop formation in nucleoli and ATR/ATM-dependent silencing of nucleolar transcription. <i>Nucleic Acids Research</i> , 2019 , 47, 6811-6825	20.1	15
147	5-hydroxymethylcytosine in DNA repair: A new player or a red herring?. <i>Cell Cycle</i> , 2017 , 16, 1499-1501	4.7	15
146	Distinct distribution of ectopically expressed histone variants H2A.Bbd and MacroH2A in open and closed chromatin domains. <i>PLoS ONE</i> , 2012 , 7, e47157	3.7	15
145	Mapping of the nuclear matrix-bound chromatin hubs by a new M3C experimental procedure. <i>Nucleic Acids Research</i> , 2010 , 38, 8051-60	20.1	15
144	In chicken leukemia cells globin genes are fully transcribed but their rnas are retained in the perinucleolar area. <i>Experimental Cell Research</i> , 2001 , 270, 159-65	4.2	15
143	Analysis of the replication direction through the domain of alpha-globin-encoding chicken genes. <i>Gene</i> , 1995 , 166, 255-9	3.8	15
142	Organization of specific DNA sequence elements in the region of the replication origin and matrix attachment site in the chicken alpha-globin gene domain. <i>Molecular Genetics and Genomics</i> , 1992 , 235, 381-8		15
141	3D genomics imposes evolution of the domain model of eukaryotic genome organization. <i>Chromosoma</i> , 2017 , 126, 59-69	2.8	14
140	Studying RNA-DNA interactome by Red-C identifies noncoding RNAs associated with various chromatin types and reveals transcription dynamics. <i>Nucleic Acids Research</i> , 2020 , 48, 6699-6714	20.1	14
139	Gene functioning and storage within a folded genome. <i>Cellular and Molecular Biology Letters</i> , 2017 , 22, 18	8.1	14
138	TMEM8 - a non-globin gene entrapped in the globin web. <i>Nucleic Acids Research</i> , 2009 , 37, 7394-406	20.1	14
137	Repositioning of ETO gene in cells treated with VP-16, an inhibitor of DNA-topoisomerase II. <i>Journal of Cellular Biochemistry</i> , 2008 , 104, 692-9	4.7	14
136	RNA-dependent nuclear matrix contains a 33 kb globin full domain transcript as well as prosomes but no 26S proteasomes. <i>Journal of Cellular Biochemistry</i> , 2005 , 94, 529-39	4.7	14
135	Specific radial positions of centromeres of human chromosomes X, 1, and 19 remain unchanged in chromatin-depleted nuclei of primary human fibroblasts: evidence for the organizing role of the nuclear matrix. <i>Journal of Cellular Biochemistry</i> , 2005 , 96, 850-7	4.7	14
134	Rearrangement of chromatin domains in cancer and development. <i>Journal of Cellular Biochemistry</i> , 2000 , Suppl 35, 54-60	4.7	14
133	The sequence-specific nuclear matrix binding factor F6 is a chicken GATA-like protein. <i>Molecular Genetics and Genomics</i> , 1993 , 238, 309-14		14
132	Transcriptional enhancer in the vicinity of a replication origin within the 5' region of the chicken alpha-globin gene domain. <i>Journal of Molecular Biology</i> , 1991 , 217, 595-8	6.5	14

131	Suppression of liquid-liquid phase separation by 1,6-hexanediol partially compromises the 3D genome organization in living cells. <i>Nucleic Acids Research</i> , 2021 , 49, 10524-10541	20.1	14
130	The clustering of CpG islands may constitute an important determinant of the 3D organization of interphase chromosomes. <i>Epigenetics</i> , 2014 , 9, 951-63	5.7	13
129	Spatial organization of the chicken beta-globin gene domain in erythroid cells of embryonic and adult lineages. <i>Epigenetics and Chromatin</i> , 2012 , 5, 16	5.8	13
128	The presence of sequence-specific protein binding sites correlate with replication activity and matrix binding in a 1.7 Kb-long DNA fragment of the chicken alpha-globin gene domain. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 179, 512-9	3.4	13
127	Chromatin Domains and Territories: Flexibly Rigid. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2004 , 14, 79-88	1.3	13
126	Acetylation of core histones causes the unfolding of 30 nm chromatin fiber: analysis by agarose gel electrophoresis. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 196, 455-60	3.4	12
125	Characterization of the chromatin structure in the upstream region of the chicken alpha-globin gene domain. <i>Molecular Genetics and Genomics</i> , 1994 , 242, 649-52		12
124	Quantitative differences in TAD border strength underly the TAD hierarchy in Drosophila chromosomes. <i>Journal of Cellular Biochemistry</i> , 2019 , 120, 4494-4503	4.7	12
123	Activation of the alpha-globin gene expression correlates with dramatic upregulation of nearby non-globin genes and changes in local and large-scale chromatin spatial structure. <i>Epigenetics and Chromatin</i> , 2017 , 10, 35	5.8	11
122	Unraveling the mechanisms of chromatin fibril packaging. <i>Nucleus</i> , 2016 , 7, 319-24	3.9	11
121	Compartmentalization of the cell nucleus and spatial organization of the genome. <i>Molecular Biology</i> , 2015 , 49, 21-39	1.2	11
120	Association of the mammalian transcriptional regulator kaiso with centrosomes and the midbody. <i>Cell Cycle</i> , 2009 , 8, 2303-4	4.7	11
119	Early replication timing of the chicken alpha-globin gene domain correlates with its open chromatin state in cells of different lineages. <i>Genomics</i> , 2009 , 93, 481-6	4.3	11
118	DNA-protein interactions and spatial organization of DNA. <i>Molecular Biology Reports</i> , 1993 , 18, 167-75	2.8	11
117	DNA fragments which specifically bind to isolated nuclear matrix in vitro interact with matrix-associated DNA topoisomerase II. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 159, 1263-8	3.4	11
116	Divide and Rule: Phase Separation in Eukaryotic Genome Functioning. <i>Cells</i> , 2020 , 9,	7.9	11
115	Topologically-associating domains: gene warehouses adapted to serve transcriptional regulation. <i>Transcription</i> , 2016 , 7, 84-90	4.8	11
114	Order and stochasticity in the folding of individual Drosophila genomes. <i>Nature Communications</i> , 2021 , 12, 41	17.4	11

113	Domains of β and γ globin genes in the context of the structural-functional organization of the eukaryotic genome. <i>Biochemistry (Moscow)</i> , 2012 , 77, 1409-23	2.9	10
112	In embryonic chicken erythrocytes actively transcribed alpha globin genes are not associated with the nuclear matrix. <i>Journal of Cellular Biochemistry</i> , 2009 , 106, 170-8	4.7	10
111	Sensitivity of human embryonic and induced pluripotent stem cells to a topoisomerase II poison etoposide. <i>Cell Cycle</i> , 2011 , 10, 2035-7	4.7	10
110	Distribution of topoisomerase II-mediated cleavage sites and relation to structural and functional landmarks in 830 kb of Drosophila DNA. <i>Nucleic Acids Research</i> , 1997 , 25, 2041-6	20.1	10
109	Changes in chromosome positioning may contribute to the development of diseases related to X-chromosome aneuploidy. <i>Journal of Cellular Physiology</i> , 2007 , 213, 278-83	7	10
108	Breakpoint clusters: reason or consequence?. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2004 , 14, 65-77	1.3	9
107	Distinct Patterns of Colocalization of the CCND1 and CMYC Genes With Their Potential Translocation Partner IGH at Successive Stages of B-Cell Differentiation. <i>Journal of Cellular Biochemistry</i> , 2016 , 117, 1506-10	4.7	8
106	Nuclear matrix and structural and functional compartmentalization of the eucaryotic cell nucleus. <i>Biochemistry (Moscow)</i> , 2014 , 79, 608-18	2.9	8
105	Modulatory effect of rRNA synthesis and ppUL83 nucleolar compartmentalization on human cytomegalovirus gene expression in vitro. <i>Journal of Cellular Biochemistry</i> , 2009 , 108, 415-23	4.7	8
104	Joint cultivation of human erythroblastoid cells and mouse fibroblasts triggers release of a wide spectrum of cytotoxic factors. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 234, 655-9	3.4	8
103	Mechanisms controlling activation of the alpha-globin gene domain in chicken erythroid cells. <i>Biochemistry (Moscow)</i> , 2007 , 72, 467-70	2.9	8
102	Transgenic Goats in the World Pharmaceutical Industry of the 21st Century. <i>Russian Journal of Genetics</i> , 2002 , 38, 1-14	0.6	8
101	TGF- β is the factor secreted by proliferative chondrocytes to inhibit neo-angiogenesis. <i>Journal of Cellular Biochemistry</i> , 2001 , 81, 79-88	4.7	8
100	Excision of chromosomal DNA loops by treatment of permeabilised cells with Bal 31 nuclease. <i>Molecular Genetics and Genomics</i> , 1995 , 249, 253-6		8
99	A simple and reproducible method for analysis of chromatin condensation. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 193, 113-8	3.4	8
98	Inducing cellular senescence by using genetically encoded photosensitizers. <i>Aging</i> , 2016 , 8, 2449-2462	5.6	8
97	C-TALE, a new cost-effective method for targeted enrichment of Hi-C/3C-seq libraries. <i>Methods</i> , 2020 , 170, 48-60	4.6	8
96	Evolution of the Genome 3D Organization: Comparison of Fused and Segregated Globin Gene Clusters. <i>Molecular Biology and Evolution</i> , 2017 , 34, 1492-1504	8.3	7

95	Heat Stress-Induced Transcriptional Repression. <i>Biochemistry (Moscow)</i> , 2015 , 80, 990-3	2.9	7
94	The Role of Crowding Forces in Juxtaposing β Globin Gene Domain Remote Regulatory Elements in Mouse Erythroid Cells. <i>PLoS ONE</i> , 2015 , 10, e0139855	3.7	7
93	Formaldehyde fixation of cells does not greatly reduce the ability to amplify cellular DNA. <i>Analytical Biochemistry</i> , 2009 , 390, 94-6	3.1	7
92	Unusual compartmentalization of CTCF and other transcription factors in the course of terminal erythroid differentiation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007 , 1773, 924-33	4.9	7
91	Analysis of the chicken DNA fragments that contain structural sites of attachment to the nuclear matrix: DNA-matrix interactions and replication. <i>Journal of Cellular Biochemistry</i> , 2000 , 79, 1-14	4.7	7
90	DNA-protein complexes of the nuclear matrix: visualization and partial characterization of the protein component. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 162, 175-83	3.4	7
89	Correlations of repetitive and AT-rich DNA segments within the chicken globin gene domains. <i>Molecular Biology Reports</i> , 1986 , 11, 177-87	2.8	7
88	Structural-Functional Domains of the Eukaryotic Genome. <i>Biochemistry (Moscow)</i> , 2018 , 83, 302-312	2.9	6
87	The broken MLL gene is frequently located outside the inherent chromosome territory in human lymphoid cells treated with DNA topoisomerase II poison etoposide. <i>PLoS ONE</i> , 2013 , 8, e75871	3.7	6
86	The inactivation of the β gene in chicken erythroblasts of adult lineage is not mediated by packaging of the embryonic part of the β globin gene domain into a repressive heterochromatin-like structure. <i>Epigenetics</i> , 2011 , 6, 1481-8	5.7	6
85	The upstream area of the chicken alpha-globin gene domain is transcribed in both directions in the same cells. <i>FEBS Letters</i> , 2005 , 579, 4746-50	3.8	6
84	Spatial organization of the eukaryotic genome and the action of epigenetic mechanisms. <i>Russian Journal of Genetics</i> , 2006 , 42, 1353-1361	0.6	6
83	Specific cleavage of chicken alpha A-globin and human c-Ha-ras genes by two molecular forms of calf thymus topoisomerase I. <i>Molecular and Cellular Biochemistry</i> , 1991 , 101, 115-24	4.2	6
82	Studies on structure and function of chromatin. <i>Molecular and Cellular Biochemistry</i> , 1981 , 40, 29-48	4.2	6
81	The IGH locus relocates to a "recombination compartment" in the perinucleolar region of differentiating B-lymphocytes. <i>Oncotarget</i> , 2017 , 8, 40079-40089	3.3	6
80	Heat stress induces formation of cytoplasmic granules containing HSC70 protein. <i>Doklady Biochemistry and Biophysics</i> , 2015 , 463, 213-5	0.8	5
79	Mammalian Diaphanous-related formin-1 restricts early phases of influenza A/NWS/33 virus (H1N1) infection in LLC-MK2 cells by affecting cytoskeleton dynamics. <i>Molecular and Cellular Biochemistry</i> , 2018 , 437, 185-201	4.2	5
78	Fragment of intron 5.2 of the human RUNX1 gene important for transcription activation is neither enhancer nor MAR-element. <i>Doklady Biochemistry and Biophysics</i> , 2012 , 442, 26-9	0.8	5

77	Transcription factories and spatial organization of eukaryotic genomes. <i>Biochemistry (Moscow)</i> , 2010 , 75, 1307-15	2.9	5
76	Expression of full-length human pro-urokinase in mammary glands of transgenic mice. <i>Transgenic Research</i> , 2009 , 18, 747-56	3.3	5
75	Study of spatial organization of chicken alpha-globin gene domain by 3C technique. <i>Biochemistry (Moscow)</i> , 2008 , 73, 1192-9	2.9	5
74	Inhibition of DNA topoisomerase II may trigger illegitimate recombination in living cells: experiments with a model system. <i>Journal of Cellular Biochemistry</i> , 2006 , 99, 598-608	4.7	5
73	Histone Chaperone FACT and Curaxins: Effects on Genome Structure and Function. <i>Journal of Cancer Metastasis and Treatment</i> , 2019 , 5,	3.8	5
72	Suppression of liquid-liquid phase separation by 1,6-hexanediol partially compromises the 3D genome organization in living cells		5
71	Non-coding RNAs in chromatin folding and nuclear organization. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 5489-5504	10.3	5
70	Chromatin domains and territories: flexibly rigid. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2004 , 14, 79-88	1.3	5
69	Transcription-controlling regulatory elements of the eukaryotic genome. <i>Molecular Biology</i> , 2015 , 49, 185-194	1.2	4
68	Single-cell genome-wide studies give new insight into nongenetic cell-to-cell variability in animals. <i>Histochemistry and Cell Biology</i> , 2016 , 146, 239-54	2.4	4
67	Heat shock-induced dissociation of TRF2 from telomeres does not initiate a telomere-dependent DNA damage response. <i>Cell Biology International</i> , 2014 , 38, 675-81	4.5	4
66	Transcription factor RUNX1. <i>Molecular Biology</i> , 2012 , 46, 755-767	1.2	4
65	HP1s not necessary for the structural maintenance of centromeric heterochromatin. <i>Epigenetics</i> , 2011 , 6, 380-7	5.7	4
64	Chromatin and transcription regulation. <i>Molecular Biology</i> , 2007 , 41, 343-348	1.2	4
63	An unusual extended DNA loop attachment region is located in the human dystrophin gene. <i>Journal of Cellular Physiology</i> , 2006 , 209, 515-21	7	4
62	A modified protocol of Capture-C allows affordable and flexible high-resolution promoter interactome analysis. <i>Scientific Reports</i> , 2020 , 10, 15491	4.9	4
61	Folded genome as a platform for the functional compartmentalization of the eukaryotic cell nucleus. <i>Biopolymers and Cell</i> , 2014 , 30, 83-89	0.3	3
60	The two waves in single-cell 3D genomics. <i>Seminars in Cell and Developmental Biology</i> , 2021 , 121, 143-147.5	3.5	3

59	Treacle and TOPBP1 control replication stress response in the nucleolus. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	3
58	Manipulation of Cellular Processes via Nucleolus Hijacking in the Course of Viral Infection in Mammals. <i>Cells</i> , 2021 , 10,	7.9	3
57	3D Genomics. <i>Molecular Biology</i> , 2019 , 53, 802-812	1.2	3
56	RedChIP identifies noncoding RNAs associated with genomic sites occupied by Polycomb and CTCF proteins.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	3
55	Benchmark of software tools for prokaryotic chromosomal interaction domain identification. <i>Bioinformatics</i> , 2020 , 36, 4560-4567	7.2	2
54	Chromatin Trapping of Factors Involved in DNA Replication and Repair Underlies Heat-Induced Radio- and Chemosensitization. <i>Cells</i> , 2020 , 9,	7.9	2
53	Structural-Functional Organization of the Eukaryotic Cell Nucleus and Transcription Regulation: Introduction to This Special Issue of Biochemistry (Moscow). <i>Biochemistry (Moscow)</i> , 2018 , 83, 299-301	2.9	2
52	Proteasomes raise the microtubule dynamics in influenza A (H1N1) virus-infected LLC-MK2 cells. <i>Cellular and Molecular Biology Letters</i> , 2015 , 20, 840-66	8.1	2
51	Spatial organization of housekeeping genes in interphase nuclei. <i>Molecular Biology</i> , 2014 , 48, 886-895	1.2	2
50	Expansion of the functional domain of chicken alpha-globin genes. <i>Russian Journal of Genetics</i> , 2010 , 46, 1033-1035	0.6	2
49	Nuclear matrix-associated DNA fragments enhance autonomous replication of plasmids in chicken cells. <i>Biochimie</i> , 1995 , 77, 880-7	4.6	2
48	Automated Analysis of Cell Cycle Phase-Specific DNA Damage Reveals Phase-Specific Differences in Cell Sensitivity to Etoposide. <i>Journal of Cellular Biochemistry</i> , 2016 , 117, 2209-14	4.7	2
47	Main regulatory element (MRE) of the Danio rerio β -globin gene domain exerts enhancer activity toward the promoters of the embryonic-larval and adult globin genes. <i>Molecular Biology</i> , 2016 , 50, 900-908	1.2	2
46	Comparative analysis of the synchronization methods of normal and transformed human cells. <i>Molecular Biology</i> , 2017 , 51, 130-135	1.2	1
45	Characterization of the enhancer element of the Danio rerio minor globin gene locus. <i>Histochemistry and Cell Biology</i> , 2016 , 145, 463-73	2.4	1
44	Russian science: academy reform needs a reality check. <i>Nature</i> , 2013 , 499, 284	50.4	1
43	Evolution of β - and β -globin genes and their regulatory systems in light of the hypothesis of domain organization of the genome. <i>Biochemistry (Moscow)</i> , 2014 , 79, 1141-50	2.9	1
42	Nucleosomal packaging of eukaryotic DNA and regulation of transcription. <i>Biopolymers and Cell</i> , 2014 , 30, 413-425	0.3	1

41	Transcription of the AML1/ETO chimera is guided by the P2 promoter of the AML1 gene in the Kasumi-1 cell line. <i>Gene</i> , 2012 , 510, 142-6	3.8	1
40	Chromatin structure of the joint β -globin gene locus of <i>Danio rerio</i> . <i>Doklady Biochemistry and Biophysics</i> , 2013 , 448, 59-61	0.8	1
39	Genes surrounding the cluster of tissue-specific alpha-globin genes in chicken genome are expressed in both erythroid and lymphoid cells. <i>Doklady Biochemistry and Biophysics</i> , 2008 , 421, 224-6	0.8	1
38	Illegitimate recombination as a possible mechanism of topoisomerase-II-induced chromosomal rearrangements. <i>Molecular Biology</i> , 2006 , 40, 790-796	1.2	1
37	Effect of DNA loop anchorage regions (LARs) and microinjection timing on expression of beta-galactosidase gene injected into one-cell rabbit embryos. <i>Journal of Cellular Biochemistry</i> , 2004 , 92, 1171-9	4.7	1
36	Genome Domains and Domain Regulatory Elements. <i>Molecular Biology</i> , 2002 , 36, 767-772	1.2	1
35	Regulatory Systems of Genome Domains with Vague Boundaries. <i>Russian Journal of Genetics</i> , 2003 , 39, 128-132	0.6	1
34	Chromosome Rearrangement Breakpoint Clustering: The Role of Clonal Selection. <i>Molecular Biology</i> , 2005 , 39, 313-320	1.2	1
33	Spatial Organization of DNA in the Nucleus May Determine Positions of Recombination Hot Spots. <i>Molecular Biology</i> , 2005 , 39, 543-548	1.2	1
32	Topoisomerase I is associated with the regulatory region of transcriptionally active SV 40 minichromosomes. <i>Molecular and Cellular Biochemistry</i> , 1990 , 95, 95-106	4.2	1
31	LASCA: loop and significant contact annotation pipeline. <i>Scientific Reports</i> , 2021 , 11, 6361	4.9	1
30	Host-cell dependent role of phosphorylated keratin 8 during influenza A/NWS/33 virus (H1N1) infection in mammalian cells. <i>Virus Research</i> , 2021 , 295, 198333	6.4	1
29	3C-seq-captured chromosome conformation of the hyperthermophilic archaeon <i>Thermofilum adornatum</i>		1
28	SETDB1 Fuels the Lung Cancer Phenotype by Modulating Epigenome, 3D Genome Organization and Chromatin Mechanical Properties		1
27	Rearrangement of chromatin domains in cancer and development. <i>Journal of Cellular Biochemistry</i> , 2000 , 79, 54-60	4.7	1
26	SETDB1 fuels the lung cancer phenotype by modulating epigenome, 3D genome organization and chromatin mechanical properties.. <i>Nucleic Acids Research</i> , 2022 ,	20.1	1
25	The twisted path of the 3D genome: where does it lead?. <i>Trends in Biochemical Sciences</i> , 2022 ,	10.3	1
24	Hi-C Metagenomics in the ICU: Exploring Clinically Relevant Features of Gut Microbiome in Chronically Critically Ill Patients.. <i>Frontiers in Microbiology</i> , 2021 , 12, 770323	5.7	0

23	Perspectives for the reconstruction of 3D chromatin conformation using single cell Hi-C data. <i>PLoS Computational Biology</i> , 2021 , 17, e1009546	5	o
22	Mechanisms mediating suppression of globin gene transcription in <i>Danio rerio</i> nonerythroid cells. <i>Biochimie</i> , 2021 , 181, 96-99	4.6	o
21	Sensitivity of cohesin-chromatin association to high-salt treatment corroborates non-topological mode of loop extrusion. <i>Epigenetics and Chromatin</i> , 2021 , 14, 36	5.8	o
20	Pentad: a tool for distance-dependent analysis of Hi-C interactions within and between chromatin compartments.. <i>BMC Bioinformatics</i> , 2022 , 23, 116	3.6	o
19	Self-organization of a chromatin fibril into topologically-associated domains. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 99-106	1	
18	Joint locus of α/β -globin genes in <i>Danio rerio</i> is segregated into structural subdomains active at different stages of development. <i>Molecular Biology</i> , 2015 , 49, 442-449	1.2	
17	Spatial organization of interphase chromosomes and the role of chromatin fibril dynamics in the positioning of genome elements. <i>Molecular Biology</i> , 2014 , 48, 332-339	1.2	
16	Heat-shock induced H2AX foci are associated with the nuclear matrix only in S-phase cells. <i>Doklady Biochemistry and Biophysics</i> , 2013 , 450, 130-3	0.8	
15	Detection of complementary transcripts for the intergenic region of the chicken β -globin gene domain. <i>Molecular Biology</i> , 2015 , 49, 899-903	1.2	
14	Organization of functional processes in the cell nucleus: The order emerging out of the disorder. <i>Moscow University Biological Sciences Bulletin</i> , 2015 , 70, 115-121	0.5	
13	Unmethylated CpG islands are clustered inside the interphase human cell nuclei. <i>Doklady Biochemistry and Biophysics</i> , 2012 , 443, 123-6	0.8	
12	Patterns of histone modifications across the chicken α -globin genes domain. <i>Molecular Biology</i> , 2011 , 45, 608-613	1.2	
11	Inhibition of DNA topoisomerase II with etoposide induces association of DNA topoisomerase II α , DNA topoisomerase II β , and nucleolin with BCR 2 of the ETO gene. <i>Doklady Biochemistry and Biophysics</i> , 2008 , 423, 334-6	0.8	
10	The CpG island of chicken α -globin genes contains no signals sufficient for the maintenance of its nonmethylated state in transgenic mouse genome. <i>Doklady Biochemistry and Biophysics</i> , 2004 , 396, 143-5	0.8	
9	Characteristic of the silencer located in the CpG-rich region upstream of the cluster of chicken α -globin genes. <i>Doklady Biochemistry and Biophysics</i> , 2004 , 398, 307-9	0.8	
8	Visualization of DNA Loops and Nuclear Matrix Anchorage Regions in the Human Dystrophin Gene. <i>Molecular Biology</i> , 2004 , 38, 871-874	1.2	
7	Heterologous CpG island becomes extensively methylated in the genome of transgenic mice. <i>Journal of Cellular Biochemistry</i> , 2004 , 92, 99-103	4.7	
6	Initiation of DNA Replication in Cells of Higher Eukaryotes. <i>Russian Journal of Genetics</i> , 2003 , 39, 120-127.	6.6	

- 5 Inhibition of DNA topoisomerase II in living cells stimulates illegitimate recombination. *Doklady Biochemistry and Biophysics*, **2005**, 405, 423-5 0.8
- 4 Spatial Organization of the Chicken β Globin Gene Domain in Cells of Different Origins. *Molecular Biology*, **2005**, 39, 851-856 1.2
- 3 The Spatial Structure of the Human Dystrophin Gene: Probing with Endogenous Topoisomerase II. *Molecular Biology*, **2001**, 35, 354-355 1.2
- 2 Nonlymphoid cultured cells possess a system controlling cellular compatibility. *Journal of Cellular Biochemistry*, **2000**, 78, 186-96 4.7
- 1 Eukaryotic Genome in Three Dimensions **2020**, 11-34