

Nikolay B Rubtsov

List of Publications by Year in descending order

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116
papers

2,035
citations

257357

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37
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118
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118
docs citations

118
times ranked

1328
citing authors

#	ARTICLE	IF	CITATIONS
1	Microdissection based high resolution multicolor banding for all 24 human chromosomes. <i>International Journal of Molecular Medicine</i> , 2002, 9, 335-9.	1.8	179
2	Microdissection based high resolution multicolor banding for all 24 human chromosomes. <i>International Journal of Molecular Medicine</i> , 2002, 9, 335.	1.8	83
3	Germline-restricted chromosome (GRC) is widespread among songbirds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11845-11850.	3.3	68
4	The DNA-Based Structure of Human Chromosome 5 in Interphase. <i>American Journal of Human Genetics</i> , 2002, 71, 1051-1059.	2.6	62
5	Reconstruction of the female <i>Gorilla gorilla</i> karyotype using 25-color FISH and multicolor banding (MCB). <i>Cytogenetic and Genome Research</i> , 2001, 93, 242-248.	0.6	55
6	Comparative analysis of micro and macro B chromosomes in the Korean field mouse <i>Apodemus peninsulae</i> (Rodentia, Murinae) performed by chromosome microdissection and FISH. <i>Cytogenetic and Genome Research</i> , 2004, 106, 289-294.	0.6	55
7	Genes flanking Xist in mouse and human are separated on the X chromosome in American marsupials. <i>Chromosome Research</i> , 2007, 15, 127-136.	1.0	53
8	Sex Chromosome Synapsis and Recombination in Male Guppies. <i>Zebrafish</i> , 2015, 12, 174-180.	0.5	50
9	Evidence for Karyotype Polymorphism in the Free-Living Flatworm, <i>Macrostomum lignano</i> , a Model Organism for Evolutionary and Developmental Biology. <i>PLoS ONE</i> , 2016, 11, e0164915.	1.1	46
10	B chromosomes of Korean field mouse <i>Apodemus peninsulae</i> (Rodentia, Murinae) analysed by microdissection and FISH. <i>Cytogenetic and Genome Research</i> , 2002, 96, 154-160.	0.6	41
11	Zoo-FISH with region-specific paints for mink chromosome 5q: delineation of inter- and intrachromosomal rearrangements in human, pig, and fox. <i>Cytogenetic and Genome Research</i> , 2000, 90, 268-270.	0.6	40
12	Unusual distribution pattern of telomeric repeats in the shrews <i>Sorex araneus</i> and <i>Sorex granarius</i> . <i>Chromosome Research</i> , 2005, 13, 617-625.	1.0	40
13	Chromosomal localization of ceruoplasmin and transferrin genes in laboratory rats, mice and in man by hybridization with specific DNA probes. <i>Chromosoma</i> , 1987, 96, 60-66.	1.0	38
14	Small supernumerary marker chromosomes (sSMC) in humans; are there B chromosomes hidden among them. <i>Molecular Cytogenetics</i> , 2008, 1, 12.	0.4	38
15	Chromosomes are highly elastic and can be stretched. <i>Cytogenetic and Genome Research</i> , 1994, 66, 120-125.	0.6	37
16	The free-living flatworm <i>Macrostomum lignano</i> . <i>EvoDevo</i> , 2020, 11, 5.	1.3	33
17	Partial tetrasomy 12pter-12p12.3 in a girl with Pallister-Killian syndrome: extraordinary finding of an anaphoid, inverted duplicated marker. <i>European Journal of Human Genetics</i> , 2001, 9, 572-576.	1.4	32
18	Reorganization of the X chromosome in voles of the genus <i>Microtus</i> . <i>Cytogenetic and Genome Research</i> , 2002, 99, 323-329.	0.6	32

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19	New insights into the karyotype evolution of the free-living flatworm <i>Macrostomum lignano</i> (Platyhelminthes, Turbellaria). <i>Scientific Reports</i> , 2017, 7, 6066.	1.6	32
20	The molecular structure of the DNA fragments eliminated during chromatin diminution in <i>Cyclops kolensis</i> . <i>Genome Research</i> , 2004, 14, 2287-2294.	2.4	30
21	Molecular cytogenetic characterization of an acquired minute supernumerary marker chromosome as the sole abnormality in a case clinically diagnosed as atypical Philadelphia-negative chronic myelogenous leukaemia. <i>British Journal of Haematology</i> , 2001, 113, 435-438.	1.2	29
22	DNA content of the B chromosomes in grasshopper <i>Podisma kanoi</i> Storozh. (Orthoptera, Acrididae). <i>Chromosome Research</i> , 2007, 15, 315-25.	1.0	27
23	Maternal insertion of 18q11.2-q12.2 in 18p11.3 of the same chromosome analysed by microdissection and multicolour banding (MCB). <i>Prenatal Diagnosis</i> , 2001, 21, 1049-1052.	1.1	25
24	IDENTIFICATION OF TUMOR ENTITIES OF RENAL CELL CARCINOMA USING INTERPHASE FLUORESCENCE IN SITU HYBRIDIZATION. <i>Journal of Urology</i> , 2005, 174, 731-735.	0.2	25
25	Chromosomal differentiation among bisexual European species of <i>Saga</i> (Orthoptera: Tettigoniidae): Tj ETQq1 1 0.784314 rgBT /Overl 106, 1-9.	1.2	25
26	The very long telomeres in <i>Sorex granarius</i> (Soricidae, Eulipothyphla) contain ribosomal DNA. <i>Chromosome Research</i> , 2007, 15, 881-890.	1.0	24
27	Differences in ribosomal DNA distribution on A and B chromosomes between eastern and western populations of the grasshopper <i>Eyprepocnemis plorans plorans</i> . <i>Cytogenetic and Genome Research</i> , 2008, 121, 260-265.	0.6	23
28	Detailed <i>Hylobates</i> lar karyotype defined by 25-color FISH and multicolor banding. <i>International Journal of Molecular Medicine</i> , 2003, 12, 139-46.	1.8	23
29	Germline-restricted chromosome (GRC) in the sand martin and the pale martin (Hirundinidae, Aves): synapsis, recombination and copy number variation. <i>Scientific Reports</i> , 2020, 10, 1058.	1.6	22
30	Chromosome Evolution in the Free-Living Flatworms: First Evidence of Intrachromosomal Rearrangements in Karyotype Evolution of <i>Macrostomum lignano</i> (Platyhelminthes, Macrostromida). <i>Genes</i> , 2017, 8, 298.	1.0	21
31	Comparative FISH analysis of distribution of B chromosome repetitive DNA in A and B chromosomes in two subspecies of <i>Podisma sapporensis</i> (Orthoptera, Acrididae). <i>Cytogenetic and Genome Research</i> , 2004, 106, 284-288.	0.6	20
32	Cultures of hESM human embryonic stem cells: Chromosomal aberrations and karyotype stability. <i>Bulletin of Experimental Biology and Medicine</i> , 2007, 144, 126-129.	0.3	20
33	Comparative cytogenetics of opisthorchid species (Trematoda, Opisthorchiidae). <i>Parasitology International</i> , 2012, 61, 87-89.	0.6	20
34	Chromosomal Localization of Ribosomal and Telomeric DNA Provides New Insights on the Evolution of Gomphocerinae Grasshoppers. <i>Cytogenetic and Genome Research</i> , 2012, 138, 36-45.	0.6	19
35	Molecular cytogenetic analysis reveals the existence of two independent neo-XY sex chromosome systems in Anatolian Pamphagidae grasshoppers. <i>BMC Evolutionary Biology</i> , 2017, 17, 20.	3.2	19
36	Characterization of a small supernumerary ring marker derived from chromosome 2 by forward and reverse chromosome painting. <i>American Journal of Medical Genetics Part A</i> , 1999, 87, 217-220.	2.4	18

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37	The origin of B chromosomes in yellow-necked mice (<i>Apodemus flavicollis</i>) – “Break rules but keep playing the game. <i>PLoS ONE</i> , 2017, 12, e0172704.	1.1	18
38	Low-pass single-chromosome sequencing of human small supernumerary marker chromosomes (sSMCs) and <i>Apodemus</i> B chromosomes. <i>Chromosoma</i> , 2018, 127, 301-311.	1.0	18
39	Microdissection and sequence analysis of pericentric heterochromatin from the <i>Drosophila melanogaster</i> mutant <i>Suppressor of Underreplication</i> . <i>Chromosoma</i> , 2002, 111, 114-125.	1.0	17
40	Human embryonic stem cell lines isolation, cultivation, and characterization. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2010, 46, 284-293.	0.7	17
41	Sequence Composition and Evolution of Mammalian B Chromosomes. <i>Genes</i> , 2018, 9, 490.	1.0	16
42	Comparative FISH analysis of C-positive regions of chromosomes of wood mice (<i>Rodentia</i> , <i>Muridae</i> .) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.2	15
43	Chromosome localization of the loci <i>GOT1</i> , <i>PP</i> , <i>NP</i> , <i>SOD1</i> , <i>PEPA</i> and <i>PEPC</i> in the American mink (<i>Mustela</i>) <i>Tj ETQq1 1 0.784314 rgBT 14</i>	1.8	14
44	Title is missing!. <i>Russian Journal of Genetics</i> , 2001, 37, 666-670.	0.2	14
45	Comparative FISH analysis of C-positive blocks of centromeric chromosomal regions of pygmy wood mice <i>Sylvaemus uralensis</i> (<i>Rodentia</i> , <i>Muridae</i>). <i>Russian Journal of Genetics</i> , 2010, 46, 712-724.	0.2	14
46	A comparative study of cell-free apoptotic and genomic DNA using FISH and massive parallel sequencing. <i>Expert Opinion on Biological Therapy</i> , 2012, 12, S11-S17.	1.4	14
47	Genome and Karyotype Reorganization after Whole Genome Duplication in Free-Living Flatworms of the Genus <i>Macrostomum</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 680.	1.8	14
48	Distribution of repetitive DNA sequences in chromosomes of five opisthorchid species (<i>Trematoda</i> .) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.6	13
49	Peptidases A, B, C, D and S in the American mink: polymorphism and chromosome localization. <i>Theoretical and Applied Genetics</i> , 1986, 73, 272-277.	1.8	12
50	Recombination and synaptic adjustment in oocytes of mice heterozygous for a large paracentric inversion. <i>Chromosome Research</i> , 2013, 21, 37-48.	1.0	12
51	Comprehensive Analyses of White-Handed Gibbon Chromosomes Enables Access to 92 Evolutionary Conserved Breakpoints Compared to the Human Genome. <i>Cytogenetic and Genome Research</i> , 2015, 145, 42-49.	0.6	12
52	Telomere Length of Individual Chromosomes in Patients with Rheumatoid Arthritis. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 160, 779-782.	0.3	12
53	Development of software and modification of Q-FISH protocol for estimation of individual telomere length in immunopathology. <i>Journal of Bioinformatics and Computational Biology</i> , 2017, 15, 1650041.	0.3	12
54	B Chromosomes in Grasshoppers: Different Origins and Pathways to the Modern Bs. <i>Genes</i> , 2018, 9, 509.	1.0	12

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55	Regional assignment of the genes for TK1, GALK, ALDC, and ESD on chromosome 8 in the American mink by chromosome-mediated gene transfer. <i>Molecular Genetics and Genomics</i> , 1985, 200, 433-438.	2.4	11
56	Chromosomal localization of the gene coding for α -subunit of Na ⁺ , K ⁺ -ATPase in the American mink (<i>Mustela vison</i>). <i>FEBS Letters</i> , 1987, 217, 42-44.	1.3	11
57	Identification of all pachytene bivalents in the common shrew using DAPI-staining of synaptonemal complex spreads. <i>Chromosome Research</i> , 2006, 14, 673-679.	1.0	11
58	A new open access journal for a rapidly evolving biomedical field: introducing <i>Molecular Cytogenetics</i> . <i>Molecular Cytogenetics</i> , 2008, 1, 1.	0.4	11
59	Telomeric DNA in chromosomes of five opisthorchid species. <i>Parasitology International</i> , 2012, 61, 81-83.	0.6	11
60	Complex chromosomal rearrangements in a secondary acute myeloblastic leukemia after chemotherapy in TRAPS. <i>Oncology Reports</i> , 2003, 10, 1789-92.	1.2	11
61	B chromosomes of the <i>Podisma sapporensis</i> Shir. (Orthoptera, Acrididae) analysed by chromosome microdissection and FISH. <i>Folia Biologica</i> , 2003, 51, 1-11.	0.1	11
62	Chromosome localization of three syntenic gene pairs in the American mink (<i>Mustela) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	0.6	10
63	High resolution G-banding of chromosomes in <i>Microtus kirgisorum</i> (Muridae, Rodentia). <i>Cytogenetic and Genome Research</i> , 1994, 67, 208-210.	0.6	10
64	Detailed <i>Hylobates</i> lar karyotype defined by 25-color FISH and multicolor banding. <i>International Journal of Molecular Medicine</i> , 2003, 12, 139.	1.8	10
65	Recombinogenic Telomeres in Diploid <i>Sorex granarius</i> (Soricidae, Eulipotyphla) Fibroblast Cells. <i>Molecular and Cellular Biology</i> , 2014, 34, 2786-2799.	1.1	10
66	New Insights into Phasmatodea Chromosomes. <i>Genes</i> , 2017, 8, 327.	1.0	10
67	Visualization of Chromosome Territories in Interphase Nuclei of Ovarian Nurse Cells in <i>Calliphora erythrocephala</i> Mg. (Diptera: Calliphoridae). <i>Russian Journal of Genetics</i> , 2005, 41, 1106-1112.	0.2	9
68	Terminal regions of mammal chromosomes: Plasticity and role in evolution. <i>Russian Journal of Genetics</i> , 2007, 43, 721-732.	0.2	9
69	Mammalian telomere biology. <i>Molecular Biology</i> , 2012, 46, 481-495.	0.4	9
70	Sex chromosome diversity in Armenian toad grasshoppers (Orthoptera, Acridoidea, Pamphagidae). <i>Comparative Cytogenetics</i> , 2016, 10, 45-59.	0.3	9
71	Silver fox gene mapping: conserved chromosome regions in the order Carnivora. <i>Cytogenetic and Genome Research</i> , 1988, 48, 95-98.	0.6	8
72	The Fox Gene Map. <i>ILAR Journal</i> , 1998, 39, 182-188.	1.8	8

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73	Characterization and Comparative Analysis of DNA from the Pericentric Heterochromatin of Chromosome 2 of <i>Anopheles atroparvus</i> V. Tiel (Culicidae, Diptera). Russian Journal of Genetics, 2004, 40, 1085-1094.	0.2	8
74	Behavior of hobo and P transposons in yellow 2-717 unstable line of <i>Drosophila melanogaster</i> and its derivatives after crossing with a laboratory strain. Russian Journal of Genetics, 2006, 42, 605-612.	0.2	8
75	Comparative analysis of DNA homology in pericentric regions of chromosomes of wood mice from genera <i>Apodemus</i> and <i>Sylvaemus</i> . Russian Journal of Genetics, 2015, 51, 1233-1242.	0.2	8
76	Features of the B chromosome in Korean field mouse <i>Apodemus peninsulae</i> (Thomas, 1906) from Transbaikalia and the Far East identified by the FISH method. Russian Journal of Genetics, 2015, 51, 278-288.	0.2	8
77	Whole-genome sequencing of eukaryotes: From sequencing of DNA fragments to a genome assembly. Russian Journal of Genetics, 2017, 53, 631-639.	0.2	8
78	Origin and Evolution of the Neo-Sex Chromosomes in Pamphagidae Grasshoppers through Chromosome Fusion and Following Heteromorphization. Genes, 2017, 8, 323.	1.0	8
79	Germline-Restricted Chromosome (GRC) in Female and Male Meiosis of the Great Tit (<i>Parus major</i>), Tj ETQq1 1 0.784314 rgBT / Overlock	1.1	8
80	Chromosome localization of the genes for ENO1, HK1, ADK, ACP2, MPI, ITPA, ACON1 and ?-GAL in the American mink (<i>Mustela vison</i>). Theoretical and Applied Genetics, 1983, 67, 59-65.	1.8	7
81	Presence of harmless small supernumerary marker chromosomes hampers molecular genetic diagnosis: a case report. Molecular Medicine Reports, 2010, 3, 571-4.	1.1	7
82	Spatial organization of fibroblast and spermatocyte nuclei with different B-chromosome content in Korean field mouse, <i>Apodemus peninsulae</i> (Rodentia, Muridae). Genome, 2017, 60, 815-824.	0.9	7
83	Highly Conservative Pattern of Sex Chromosome Synapsis and Recombination in Neognathae Birds. Genes, 2021, 12, 1358.	1.0	7
84	Chromosome localization of the genes for isocitrate dehydrogenase-1, isocitrate dehydrogenase-2, glutathione reductase, and phosphoglycerate kinase-1 in the American mink (<i>Mustela vison</i>). Cytogenetic and Genome Research, 1982, 33, 256-260.	0.6	6
85	Novel strategies for eutherian x marsupial somatic cell hybrids: mapping the genome of <i>Monodelphis domestica</i> . Cytogenetic and Genome Research, 1997, 76, 115-122.	0.6	6
86	A complex translocation event between the two homologues of chromosomes 5 leading to a del(5)(q21q33) as a sole aberration in a case clinically diagnosed as CML: Characterization of the aberration by multicolor banding. International Journal of Oncology, 2002, 20, 1179.	1.4	6
87	First Case of Trisomy 13 plus Mosaic Trisomy 1q. Fetal Diagnosis and Therapy, 2002, 17, 133-136.	0.6	6
88	First postnatal case of mosaic del(22)/r(22). Prenatal Diagnosis, 2003, 23, 765-767.	1.1	6
89	Molecular cytogenetic analysis of DNA from pericentric heterochromatin of chromosome 2L of malaria mosquito <i>Anopheles beklemishevi</i> (Culicidae, Diptera). Russian Journal of Genetics, 2009, 45, 49-53.	0.2	6
90	Telomere recombination in normal mammalian cells. Russian Journal of Genetics, 2016, 52, 8-16.	0.2	6

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91	Prenatal Diagnosis of Small Supernumerary Marker Chromosome 10 by Array-Based Comparative Genomic Hybridization and Microdissected Chromosome Sequencing. <i>Biomedicines</i> , 2021, 9, 1030.	1.4	6
92	Localization of the ?2-macroglobulin gene and Lpm gene family on mink chromosome 9. <i>Theoretical and Applied Genetics</i> , 1989, 78, 93-96.	1.8	5
93	Title is missing!. <i>Russian Journal of Genetics</i> , 2003, 39, 1004-1012.	0.2	5
94	The structure of long telomeres in chromosomes of the Iberian shrew. <i>Russian Journal of Genetics</i> , 2010, 46, 1084-1086.	0.2	5
95	A Method for Generating Selective DNA Probes for the Analysis of C-Negative Regions in Human Chromosomes. <i>Cytogenetic and Genome Research</i> , 2011, 135, 1-11.	0.6	5
96	Targeted genomic integration of EGFP under tubulin beta 3 class III promoter and mEos2 under tryptophan hydroxylase 2 promoter does not produce sufficient levels of reporter gene expression. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 17208-17218.	1.2	4
97	Regional assignments of eight genes on chromosome 2 in the American mink. <i>Cytogenetic and Genome Research</i> , 1985, 39, 296-298.	0.6	3
98	Evidence for tetrameric structure of mammalian hypoxanthine phosphoribosyltransferase. <i>Biochemical Genetics</i> , 1987, 25, 153-160.	0.8	3
99	Chromosome localization of the genes for growth hormone, somatostatin peptide, ornithine transcarbamylase, and prion protein in silver fox (<i>Vulpes fulvus</i>). <i>Mammalian Genome</i> , 1996, 7, 860-862.	1.0	3
100	Title is missing!. <i>Russian Journal of Genetics</i> , 2001, 37, 1299-1305.	0.2	3
101	DNA sequences eliminated during chromatin diminution from somatic cell chromosomes of <i>Cyclops kolensis</i> . <i>Doklady Biochemistry and Biophysics</i> , 2002, 384, 148-151.	0.3	3
102	Two Separate Cases: Complex Chromosomal Abnormality Involving Three Chromosomes and Small Supernumerary Marker Chromosome in Patients with Impaired Reproductive Function. <i>Genes</i> , 2020, 11, 1511.	1.0	3
103	B Chromosomes in Free-Living Flatworms of the Genus <i>Macrostomum</i> (Platyhelminthes). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5</i>	1.8	3
104	Mapping of silver fox genes: chromosomal localization of the genes for GOT2, AK1, ALDOC, ACP1, ITPA, PGP, and BLVR. <i>Cytogenetic and Genome Research</i> , 1991, 56, 185-188.	0.6	2
105	Mapping of the silver fox genes: assignments of the genes for ME1, ADK, PP, PEPA, GSR, MPI, and GOT1. <i>Cytogenetic and Genome Research</i> , 1991, 56, 125-127.	0.6	2
106	Highly complex karyotypic changes in acute myelogenous leukemia: a case report. <i>International Journal of Oncology</i> , 2003, 23, 139.	1.4	2
107	Increased number of B chromosomes in the eastern Asian mice <i>Apodemus peninsulae</i> (Rodentia). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5</i>	0.2	2
108	Fluorescence in situ hybridization with DNA probes derived from individual chromosomes and chromosome regions. <i>Molecular Biology</i> , 2014, 48, 767-777.	0.4	2

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109	New Data on Organization and Spatial Localization of B-Chromosomes in Cell Nuclei of the Yellow-Necked Mouse <i>Apodemus flavicollis</i> . <i>Cells</i> , 2021, 10, 1819.	1.8	2
110	The Structure of a Conserved Region of Porcine Genome, Represented in Human Genome by Chromosome 17. <i>Russian Journal of Genetics</i> , 2004, 40, 782-788.	0.2	1
111	Organization of eukaryotic chromosomes: From Kolâ€™tsovâ€™s studies up to present day. <i>Russian Journal of Genetics</i> , 2013, 49, 10-22.	0.2	1
112	DNA Probes for FISH Analysis of C-Negative Regions in Human Chromosomes. <i>Methods in Molecular Biology</i> , 2013, 1039, 233-242.	0.4	1
113	Chromosome morphometry in opisthorchiid species (Platyhelminthes, Trematoda). <i>Parasitology International</i> , 2017, 66, 396-401.	0.6	0
114	THU0019â€¦Features of telomere length distribution on individual chromosomes in rheumatoid arthritis. , 2017, , .		0
115	Computer methods for visualization chromosome-specific DNA sequences in FISH images. , 2020, , .		0
116	Comparative Study of Extracellular DNA by FISH. , 2010, , 143-146.		0