

Gregory V Kryukov

List of Publications by Year in descending order

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62
papers

37,966
citations

36691

53
h-index

134545

62
g-index

64
all docs

64
docs citations

64
times ranked

59654
citing authors

#	ARTICLE	IF	CITATIONS
1	The Cancer Cell Line Encyclopedia enables predictive modelling of anticancer drug sensitivity. <i>Nature</i> , 2012, 483, 603-607.	13.7	6,473
2	Mutational heterogeneity in cancer and the search for new cancer-associated genes. <i>Nature</i> , 2013, 499, 214-218.	13.7	4,761
3	A Landscape of Driver Mutations in Melanoma. <i>Cell</i> , 2012, 150, 251-263.	13.5	2,247
4	The Mutational Landscape of Head and Neck Squamous Cell Carcinoma. <i>Science</i> , 2011, 333, 1157-1160.	6.0	2,225
5	Next-generation characterization of the Cancer Cell Line Encyclopedia. <i>Nature</i> , 2019, 569, 503-508.	13.7	2,149
6	Characterization of Mammalian Selenoproteomes. <i>Science</i> , 2003, 300, 1439-1443.	6.0	2,019
7	Defining a Cancer Dependency Map. <i>Cell</i> , 2017, 170, 564-576.e16.	13.5	1,794
8	Highly Recurrent <i>TERT</i> Promoter Mutations in Human Melanoma. <i>Science</i> , 2013, 339, 957-959.	6.0	1,621
9	Punctuated Evolution of Prostate Cancer Genomes. <i>Cell</i> , 2013, 153, 666-677.	13.5	1,107
10	An APOBEC cytidine deaminase mutagenesis pattern is widespread in human cancers. <i>Nature Genetics</i> , 2013, 45, 970-976.	9.4	1,023
11	The Genetic Landscape of Clinical Resistance to RAF Inhibition in Metastatic Melanoma. <i>Cancer Discovery</i> , 2014, 4, 94-109.	7.7	782
12	Pooled Association Tests for Rare Variants in Exon-Resequencing Studies. <i>American Journal of Human Genetics</i> , 2010, 86, 832-838.	2.6	715
13	An Interactive Resource to Identify Cancer Genetic and Lineage Dependencies Targeted by Small Molecules. <i>Cell</i> , 2013, 154, 1151-1161.	13.5	615
14	Quantitative Proteomics of the Cancer Cell Line Encyclopedia. <i>Cell</i> , 2020, 180, 387-402.e16.	13.5	596
15	Most Rare Missense Alleles Are Deleterious in Humans: Implications for Complex Disease and Association Studies. <i>American Journal of Human Genetics</i> , 2007, 80, 727-739.	2.6	547
16	Oncogenic and drug-sensitive NTRK1 rearrangements in lung cancer. <i>Nature Medicine</i> , 2013, 19, 1469-1472.	15.2	526
17	Genome sequencing reveals insights into physiology and longevity of the naked mole rat. <i>Nature</i> , 2011, 479, 223-227.	13.7	517
18	Whole-exome sequencing and clinical interpretation of formalin-fixed, paraffin-embedded tumor samples to guide precision cancer medicine. <i>Nature Medicine</i> , 2014, 20, 682-688.	15.2	508

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19	Somatic <i>ERCC2</i> Mutations Correlate with Cisplatin Sensitivity in Muscle-Invasive Urothelial Carcinoma. <i>Cancer Discovery</i> , 2014, 4, 1140-1153.	7.7	506
20	Genomic Copy Number Dictates a Gene-Independent Cell Response to CRISPR/Cas9 Targeting. <i>Cancer Discovery</i> , 2016, 6, 914-929.	7.7	485
21	MAP Kinase Pathway Alterations in <i>BRAF</i> -Mutant Melanoma Patients with Acquired Resistance to Combined RAF/MEK Inhibition. <i>Cancer Discovery</i> , 2014, 4, 61-68.	7.7	419
22	Identification and characterization of phosphoseryl-tRNA ^{Ser} Sec kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12848-12853.	3.3	410
23	<i>MTAP</i> deletion confers enhanced dependency on the PRMT5 arginine methyltransferase in cancer cells. <i>Science</i> , 2016, 351, 1214-1218.	6.0	396
24	Clustered Mutations in Yeast and in Human Cancers Can Arise from Damaged Long Single-Strand DNA Regions. <i>Molecular Cell</i> , 2012, 46, 424-435.	4.5	379
25	Human mutation rate associated with DNA replication timing. <i>Nature Genetics</i> , 2009, 41, 393-395.	9.4	371
26	The landscape of cancer cell line metabolism. <i>Nature Medicine</i> , 2019, 25, 850-860.	15.2	350
27	ARID1B is a specific vulnerability in ARID1A-mutant cancers. <i>Nature Medicine</i> , 2014, 20, 251-254.	15.2	336
28	Impact of deleterious passenger mutations on cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2910-2915.	3.3	274
29	Selenoproteins and selenocysteine insertion system in the model plant cell system, <i>Chlamydomonas reinhardtii</i> . <i>EMBO Journal</i> , 2002, 21, 3681-3693.	3.5	257
30	Selenoprotein R is a zinc-containing stereo-specific methionine sulfoxide reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4245-4250.	3.3	246
31	Global chromatin profiling reveals NSD2 mutations in pediatric acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2013, 45, 1386-1391.	9.4	238
32	New Mammalian Selenocysteine-containing Proteins Identified with an Algorithm That Searches for Selenocysteine Insertion Sequence Elements. <i>Journal of Biological Chemistry</i> , 1999, 274, 33888-33897.	1.6	217
33	Selenoprotein Gene Nomenclature. <i>Journal of Biological Chemistry</i> , 2016, 291, 24036-24040.	1.6	207
34	The prokaryotic selenoproteome. <i>EMBO Reports</i> , 2004, 5, 538-543.	2.0	203
35	Identification and Characterization of a New Mammalian Glutaredoxin (Thioltransferase), Grx2. <i>Journal of Biological Chemistry</i> , 2001, 276, 30374-30380.	1.6	201
36	Medical Sequencing at the Extremes of Human Body Mass. <i>American Journal of Human Genetics</i> , 2007, 80, 779-791.	2.6	199

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37	Power of deep, all-exon resequencing for discovery of human trait genes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3871-3876.	3.3	147
38	Opposing effects of cancer-type-specific SPOP mutants on BET protein degradation and sensitivity to BET inhibitors. Nature Medicine, 2017, 23, 1046-1054.	15.2	145
39	Selective Inhibition of Selenocysteine tRNA Maturation and Selenoprotein Synthesis in Transgenic Mice Expressing Isopentenyladenosine-Deficient Selenocysteine tRNA. Molecular and Cellular Biology, 2001, 21, 3840-3852.	1.1	124
40	Selenium Metabolism in Drosophila. Journal of Biological Chemistry, 2001, 276, 29798-29804.	1.6	119
41	Selenium metabolism in zebrafish: multiplicity of selenoprotein genes and expression of a protein containing 17 selenocysteine residues. Genes To Cells, 2000, 5, 1049-1060.	0.5	113
42	Spatial and temporal expression patterns of selenoprotein genes during embryogenesis in zebrafish. Gene Expression Patterns, 2003, 3, 525-532.	0.3	109
43	Selenoprotein H Is a Nucleolar Thioredoxin-like Protein with a Unique Expression Pattern. Journal of Biological Chemistry, 2007, 282, 11960-11968.	1.6	104
44	Reconsidering the evolution of eukaryotic selenoproteins: a novel nonmammalian family with scattered phylogenetic distribution. EMBO Reports, 2004, 5, 71-77.	2.0	99
45	Integrated Systems Tool for Eukaryotic Gene Discovery. , 2012, 53, 1617.		89
46	Widely distributed noncoding purifying selection in the human genome. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12410-12415.	3.3	84
47	Selenocysteine-Containing Thioredoxin Reductase in C. elegans. Biochemical and Biophysical Research Communications, 1999, 259, 244-249.	1.0	82
48	Analysis of cancer genomes reveals basic features of human aging and its role in cancer development. Nature Communications, 2016, 7, 12157.	5.8	81
49	Evolution of selenocysteine-containing proteins: Significance of identification and functional characterization of selenoproteins. BioFactors, 2001, 14, 87-92.	2.6	77
50	Nematode selenoproteome: the use of the selenocysteine insertion system to decode one codon in an animal genome?. Nucleic Acids Research, 2005, 33, 2227-2238.	6.5	76
51	Small fitness effect of mutations in highly conserved non-coding regions. Human Molecular Genetics, 2005, 14, 2221-2229.	1.4	74
52	The Plasmodium selenoproteome. Nucleic Acids Research, 2006, 34, 496-505.	6.5	68
53	IDENTIFICATION OF TRACE ELEMENT-CONTAINING PROTEINS IN GENOMIC DATABASES. Annual Review of Nutrition, 2004, 24, 579-596.	4.3	63
54	Multiplex padlock targeted sequencing reveals human hypermutable CpG variations. Genome Research, 2009, 19, 1606-1615.	2.4	62

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55	Evolutionary constraints in conserved nongenic sequences of mammals. <i>Genome Research</i> , 2005, 15, 1373-1378.	2.4	50
56	Mammalian Selenoprotein Gene Signature: Identification and Functional Analysis of Selenoprotein Genes Using Bioinformatics Methods. <i>Methods in Enzymology</i> , 2002, 347, 84-100.	0.4	45
57	Integrated genetic and pharmacologic interrogation of rare cancers. <i>Nature Communications</i> , 2016, 7, 11987.	5.8	45
58	New Developments in Selenium Biochemistry: Selenocysteine Biosynthesis in Eukaryotes and Archaea. <i>Biological Trace Element Research</i> , 2007, 119, 234-241.	1.9	41
59	Is there a twenty third amino acid in the genetic code?. <i>Trends in Genetics</i> , 2006, 22, 357-360.	2.9	22
60	Genetic Effect of Chemotherapy Exposure in Children of Testicular Cancer Survivors. <i>Clinical Cancer Research</i> , 2016, 22, 2183-2189.	3.2	15
61	Pooled Association Tests for Rare Variants in Exon-Resequencing Studies. <i>American Journal of Human Genetics</i> , 2010, 86, 982.	2.6	11
62	Implementation of a prostate cancer-specific targeted sequencing panel for credentialing of patient-derived cell lines and genomic characterization of patient samples. <i>Prostate</i> , 2022, , .	1.2	1