Igor B Roninson

List of Publications by Year in descending order

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	24978	20900
19,422	57	115
citations	h-index	g-index
100	100	21044
133	133	21944
docs citations	times ranked	citing authors
	citations 133	19,422 57 citations h-index 133 133

#	Article	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
2	Internal duplication and homology with bacterial transport proteins in the mdr1 (P-glycoprotein) gene from multidrug-resistant human cells. Cell, 1986, 47, 381-389.	13.5	1,902
3	Expression and activity of P-glycoprotein, a multidrug efflux pump, in human hematopoietic stem cells. Cell, 1991, 66, 85-94.	13.5	926
4	Growth retardation and increased apoptosis in mice with homozygous disruption of the akt1 gene. Genes and Development, 2001, 15, 2203-2208.	2.7	814
5	Quantitative analysis of MDR1 (multidrug resistance) gene expression in human tumors by polymerase chain reaction Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 7160-7164.	3.3	692
6	Isolation of human mdr DNA sequences amplified in multidrug-resistant KB carcinoma cells Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 4538-4542.	3.3	636
7	If not apoptosis, then what? Treatment-induced senescence and mitotic catastrophe in tumor cells. Drug Resistance Updates, 2001, 4, 303-313.	6.5	625
8	Human multidrug-resistant cell lines: increased mdr1 expression can precede gene amplification. Science, 1986, 232, 643-645.	6.0	600
9	Tumor cell senescence in cancer treatment. Cancer Research, 2003, 63, 2705-15.	0.4	473
10	Hallmarks of senescence in carcinogenesis and cancer therapy. Oncogene, 2004, 23, 2919-2933.	2.6	451
11	An altered pattern of cross-resistance in multidrug-resistant human cells results from spontaneous mutations in the mdr1 (P-glycoprotein) gene. Cell, 1988, 53, 519-529.	13.5	437
12	Effects of p21Waf1/Cip1/Sdi1 on cellular gene expression: Implications for carcinogenesis, senescence, and age-related diseases. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4291-4296.	3.3	407
13	Oncogenic functions of tumour suppressor p21Waf1/Cip1/Sdi1: association with cell senescence and tumour-promoting activities of stromal fibroblasts. Cancer Letters, 2002, 179, 1-14.	3.2	395
14	The mdrl gene, responsible for multidrug-resistance, codes for P-glycoprotein. Biochemical and Biophysical Research Communications, 1986, 141, 956-962.	1.0	389
15	Role of p53 and p21waf1/cip1 in senescence-like terminal proliferation arrest induced in human tumor cells by chemotherapeutic drugs. Oncogene, 1999, 18, 4808-4818.	2.6	352
16	Structural insight into substrate and inhibitor discrimination by human P-glycoprotein. Science, 2019, 363, 753-756.	6.0	330
17	Amplification of specific DNA sequences correlates with multi-drug resistance in Chinese hamster cells. Nature, 1984, 309, 626-628.	13.7	326
18	Efficient inhibition of P-glycoprotein-mediated multidrug resistance with a monoclonal antibody Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 5824-5828.	3.3	290

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19	Molecular determinants of terminal growth arrest induced in tumor cells by a chemotherapeutic agent. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 389-394.	3.3	272
20	Chronic p53-independent p21 expression causes genomic instability by deregulating replication licensing. Nature Cell Biology, 2016, 18, 777-789.	4.6	244
21	Isolation and characterization of DNA sequences amplified in multidrug-resistant hamster cells Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 337-341.	3.3	215
22	P-glycoprotein function involves conformational transitions detectable by differential immunoreactivity. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12908-12913.	3.3	174
23	p21Waf1/Cip1/Sdi1-induced growth arrest is associated with depletion of mitosis-control proteins and leads to abnormal mitosis and endoreduplication in recovering cells. Oncogene, 2000, 19, 2165-2170.	2.6	171
24	The role of the MDR1 (p-glycoprotein) gene in multidrug resistance in vitro and in vivo. Biochemical Pharmacology, 1992, 43, 95-102.	2.0	166
25	Molecular basis of preferential resistance to colchicine in multidrug-resistant human cells conferred by Gly-185Val-185 substitution in P-glycoprotein Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 7225-7229.	3.3	157
26	Localization of the human multiple drug resistance gene, MDR1, to 7q21.1. Human Genetics, 1987, 77, 142-144.	1.8	156
27	Correlation between amount of virus with altered nucleotide sequence and the monkey test for acceptability of oral poliovirus vaccine Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 199-203.	3.3	153
28	Structure of a zosuquidar and UIC2-bound human-mouse chimeric ABCB1. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1973-E1982.	3.3	153
29	Effect of target secondary structure on RNAi efficiency. Rna, 2007, 13, 1631-1640.	1.6	148
30	Cyclin-dependent kinase 8 mediates chemotherapy-induced tumor-promoting paracrine activities. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13799-13804.	3.3	146
31	Altered Drug-stimulated ATPase Activity in Mutants of the Human Multidrug Resistance Protein. Journal of Biological Chemistry, 1996, 271, 1877-1883.	1.6	143
32	Differential regulation of mitogen-activated protein kinases by microtubule-binding agents in human breast cancer cells. Oncogene, 1999, 18, 377-384.	2.6	143
33	mRNA phenotyping by enzymatic amplification of randomly primed cDNA. Nucleic Acids Research, 1988, 16, 10366-10366.	6.5	137
34	Cloning mammalian genes by expression selection of genetic suppressor elements: association of kinesin with drug resistance and cell immortalization Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 3744-3748.	3.3	130
35	Detection and mapping of homologous, repeated and amplified DNA sequences by DNA renaturation in agarose gets. Nucleic Acids Research, 1983, 11, 5413-5431.	6.5	128
36	lsolation of genetic suppressor elements, inducing resistance to topoisomerase II-interactive cytotoxic drugs, from human topoisomerase II cDNA Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3231-3235.	3.3	127

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37	Cell Adhesion Molecule L1 Disrupts E-Cadherin-Containing Adherens Junctions and Increases Scattering and Motility of MCF7 Breast Carcinoma Cells. Cancer Research, 2006, 66, 11370-11380.	0.4	118
38	The STAT3 oncogene as a predictive marker of drug resistance. Trends in Molecular Medicine, 2007, 13, 4-11.	3.5	112
39	Human (MDR1) and Mouse (mdr1,mdr3) P-glycoproteins Can Be Distinguished by Their Respective Drug Resistance Profiles and Sensitivity to Modulators. Biochemistry, 1995, 34, 32-39.	1.2	108
40	Adriamycin activates c-jun N-terminal kinase in human leukemia cells: a relevance to apoptosis. Cancer Letters, 1996, 107, 73-81.	3.2	108
41	P-glycoprotein confers methotrexate resistance in 3T6 cells with deficient carrier-mediated methotrexate uptake Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1238-1242.	3.3	102
42	Inhibition of CDK8 mediator kinase suppresses estrogen dependent transcription and the growth of estrogen receptor positive breast cancer. Oncotarget, 2017, 8, 12558-12575.	0.8	92
43	CDK8/19 Mediator kinases potentiate induction of transcription by NFκB. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10208-10213.	3.3	89
44	Drug-stimulated Nucleotide Trapping in the Human Multidrug Transporter MDR1. Journal of Biological Chemistry, 1998, 273, 10132-10138.	1.6	82
45	Evaluation of newer prognostic markers for adult soft tissue sarcomas Journal of Clinical Oncology, 1997, 15, 3249-3257.	0.8	80
46	p21Waf1/Cip1/Sdi1 mediates retinoblastoma protein degradation. Oncogene, 2007, 26, 6954-6958.	2.6	78
47	Tumor senescence as a determinant of drug response in vivo. Drug Resistance Updates, 2002, 5, 204-208.	6.5	77
48	Reactive Oxygen Species and Mitochondrial Sensitivity to Oxidative Stress Determine Induction of Cancer Cell Death by p21. Journal of Biological Chemistry, 2012, 287, 9845-9854.	1.6	77
49	Localization of multidrug resistance-associated DNA sequences to human chromosome 7. Somatic Cell and Molecular Genetics, 1986, 12, 415-420.	0.7	75
50	A structural interpretation of the effect of GC-content on efficiency of RNA interference. BMC Bioinformatics, 2009, 10, S33.	1.2	74
51	Identification of potential anticancer drug targets through the selection of growth-inhibitory genetic suppressor elements. Cancer Cell, 2003, 4, 41-53.	7.7	72
52	Binding properties of monoclonal antibodies recognizing external epitopes of the human MDR1 P-glycoprotein. International Journal of Cancer, 1993, 55, 478-484.	2.3	68
53	Involvement of MDR1 P-glycoprotein in multifactorial resistance to methotrexate. , 1996, 65, 613-619.		68
54	Multidrug resistance after retroviral transfer of the human MDR1 gene correlates with P-glycoprotein density in the plasma membrane and is not affected by cytotoxic selection Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 7386-7390.	3.3	67

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55	Expression of CDK8 and CDK8-interacting Genes as Potential Biomarkers in Breast Cancer. Current Cancer Drug Targets, 2015, 15, 739-749.	0.8	67
56	CDK8 Selectively Promotes the Growth of Colon Cancer Metastases in the Liver by Regulating Gene Expression of TIMP3 and Matrix Metalloproteinases. Cancer Research, 2018, 78, 6594-6606.	0.4	65
57	Regulation of Sp1 by cell cycle related proteins. Cell Cycle, 2008, 7, 2856-2867.	1.3	64
58	Retinoid-Induced Growth Arrest of Breast Carcinoma Cells Involves Co-Activation of Multiple Growth-Inhibitory Genes. Cancer Biology and Therapy, 2002, 1, 24-27.	1.5	63
59	Analysis of MDR1 P-Glycoprotein Conformational Changes in Permeabilized Cells Using Differential Immunoreactivityâ€. Biochemistry, 2001, 40, 4312-4322.	1.2	61
60	Isolation of dominant negative mutants and inhibitory antisense RNA sequences by expression selection of random DNA fragments. Nucleic Acids Research, 1992, 20, 711-717.	6.5	60
61	Tumor Suppressor Maspin Is Up-Regulated during Keratinocyte Senescence, Exerting a Paracrine Antiangiogenic Activity. Cancer Research, 2004, 64, 2956-2961.	0.4	60
62	Src Inhibits Adriamycin-Induced Senescence and G2 Checkpoint Arrest by Blocking the Induction of p21waf1. Cancer Research, 2005, 65, 8927-8935.	0.4	55
63	Repression of the SUMOâ€specific protease Senp1 induces p53â€dependent premature senescence in normal human fibroblasts. Aging Cell, 2008, 7, 609-621.	3.0	54
64	p21 (CDKN1A) is a Negative Regulator of p53 Stability. Cell Cycle, 2007, 6, 1467-1470.	1.3	53
65	Mediator kinase CDK8/CDK19 drives YAP1-dependent BMP4-induced EMT in cancer. Oncogene, 2018, 37, 4792-4808.	2.6	49
66	From amplification to function: the case of the MDR1 gene. Mutation Research - Reviews in Genetic Toxicology, 1992, 276, 151-161.	3.0	47
67	Cellular senescence induced by aberrant MAD2 levels impacts on paclitaxel responsiveness in vitro. British Journal of Cancer, 2009, 101, 1900-1908.	2.9	44
68	Identification of Promoter Elements Responsible for Transcriptional Inhibition of Polo-like Kinase 1 and Topoisomerase IIÎ \pm Genes by p21WAF1/CIP1/ SDI1. Cell Cycle, 2002, 1, 55-62.	1.3	42
69	Tumor-specific silencing of COPZ2 gene encoding coatomer protein complex subunit Â2 renders tumor cells dependent on its paralogous gene COPZ1. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12449-12454.	3.3	40
70	Analysis of gene amplification in human tumor cell lines Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 6846-6850.	3.3	39
71	Induction of senescence-associated growth inhibitors in the tumor-suppressive function of retinoids. Journal of Cellular Biochemistry, 2003, 88, 83-94.	1.2	37
72	Coordinate Changes in Drug Resistance and Drug-Induced Conformational Transitions in Altered-Function Mutants of the Multidrug Transporter P-Glycoproteinâ€. Biochemistry, 2001, 40, 4332-4339.	1.2	36

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73	Agonist and Antagonist of Retinoic Acid Receptors Cause Similar Changes in Gene Expression and Induce Senescence-like Growth Arrest in MCF-7 Breast Carcinoma Cells. Cancer Research, 2006, 66, 8749-8761.	0.4	36
74	Inhibition of cytarabine-inducedMDR1 (P-glycoprotein) gene activation in human tumor cells by fatty acid-polyethylene glycol-fatty acid diesters, novel inhibitors of P-glycoprotein function. , 1996, 68, 245-250.		35
75	Identification of single nucleotide polymorphisms in the p21 (CDKN1A) gene and correlations with longevity in the Italian population. Aging, 2009, 1, 470-480.	1.4	34
76	Variable effects of sodium butyrate on the expression and function of theMDR 1 (P-glycoprotein) gene in colon carcinoma cell lines. International Journal of Cancer, 1993, 55, 297-302.	2.3	33
77	Systemic Toxicity Reported for CDK8/19 Inhibitors CCT251921 and MSC2530818 Is Not Due to Target Inhibition. Cells, 2019, 8, 1413.	1.8	33
78	Internal Ribosomal Entry Site-Containing Retroviral Vectors with Green Fluorescent Protein and Drug Resistance Markers. Human Gene Therapy, 1998, 9, 1233-1236.	1.4	31
79	Effects of conditional depletion of topoisomerase II on cell cycle progression in mammalian cells. Cell Cycle, 2011, 10, 3505-3514.	1.3	31
80	Identifying Cancers Impacted by CDK8/19. Cells, 2019, 8, 821.	1.8	31
81	P-Glycoprotein-Mediated Colchicine Resistance in Different Cell Lines Correlates with the Effects of Colchicine on P-Glycoprotein Conformationâ€. Biochemistry, 2001, 40, 4323-4331.	1.2	30
82	Induction of Transcription through the p300 CRD1 Motif by p21WAF1/CIP1Is Core Promoter Specific and Cyclin Dependent Kinase Independent. Cell Cycle, 2002, 1, 332-339.	1.3	29
83	Gene evolution in the chicken β-globin cluster. Cell, 1982, 28, 515-521.	13.5	28
84	Applications of green fluorescent protein as a marker of retroviral vectors. Somatic Cell and Molecular Genetics, 1997, 23, 325-340.	0.7	27
85	Induction of Transcription by p21Waf1/Cip1/Sdi1: Role of NF?B and Effect of Non-steroidal Anti-inflammatory Drugs. Cell Cycle, 2004, 3, 929-938.	1.3	27
86	p21 (CDKN1A) is a negative regulator of p53 stability. Cell Cycle, 2007, 6, 1468-71.	1.3	27
87	Inducible retroviral vectors regulated by lac repressor in mammalian cells. Gene, 1996, 183, 137-142.	1.0	20
88	A Combination of Genetic Suppressor Elements Produces Resistance to Drugs Inhibiting DNA Replication. Somatic Cell and Molecular Genetics, 1999, 25, 9-26.	0.7	19
89	Cell Cycle Arrest Drastically Extends the Duration of Gene Silencing After Transient Expression of Short Hairpin RNA. Cell Cycle, 2006, 5, 2390-2395.	1.3	18
90	Identification of novel genes that regulate androgen receptor signaling and growth of androgen-deprived prostate cancer cells. Oncotarget, 2015, 6, 13088-13104.	0.8	18

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91	MDR-1 Expression in Metastatic Malignant Melanoma. Journal of Surgical Research, 1993, 54, 621-624.	0.8	17
92	Effects of infection rate and selection pressure on gene expression from an internal promoter of a double gene retroviral vector. Somatic Cell and Molecular Genetics, 1996, 22, 291-309.	0.7	17
93	Studies on the nature of the linkage between the terminal protein and the adenovirus DNA. Biochemical and Biophysical Research Communications, 1980, 94, 398-405.	1.0	16
94	60-Hz Electric Fields Inhibit Protein Kinase C Activity and Multidrug Resistance Gene (MDR1) Up-Regulation. Radiation Research, 1997, 147, 369.	0.7	16
95	The Inhibition of CDK8/19 Mediator Kinases Prevents the Development of Resistance to EGFR-Targeting Drugs. Cells, 2021, 10, 144.	1.8	16
96	Structural characterization of the adenovirus 18 inverted terminal repetition. Virology, 1982, 121, 230-239.	1.1	15
97	Function-based gene identification using enzymatically generated normalized shRNA library and massive parallel sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7377-7382.	3.3	15
98	[25] Use of in-gel DNA renaturation for detection and cloning of amplified genes. Methods in Enzymology, 1987, 151, 332-371.	0.4	14
99	Clinical Correlations of Polycomb Repressive Complex 2 in Different Tumor Types. Cancers, 2021, 13, 3155.	1.7	14
100	A Selective and Orally Bioavailable Quinoline-6-Carbonitrile-Based Inhibitor of CDK8/19 Mediator Kinase with Tumor-Enriched Pharmacokinetics. Journal of Medicinal Chemistry, 2022, 65, 3420-3433.	2.9	14
101	Induction of transcription through the p300 CRD1 motif by p21WAF1/CIP1 is core promoter specific and cyclin dependent kinase independent. Cell Cycle, 2002, 1, 343-50.	1.3	14
102	Isolation and Characterization of the Human MDR (P-Glycoprotein) Genes. , 1991, , 91-106.		13
103	Proteomic analysis of factors released from p21-overexpressing tumour cells. Proteomics, 2006, 6, 3739-3753.	1.3	12
104	Quantitative Estimation of MDR1 mRNA Levels by Polymerase Chain Reaction. , 1991, , 319-333.		12
105	A subunit of coatomer protein complex offers a novel tumor-specific target through a surprising mechanism. Autophagy, 2011, 7, 1551-1552.	4.3	11
106	Characterizing CDK8/19 Inhibitors through a NFκB-Dependent Cell-Based Assay. Cells, 2019, 8, 1208.	1.8	11
107	Induction of transcription by p21Waf1/Cip1/Sdi1: role of NFkappaB and effect of non-steroidal anti-inflammatory drugs. Cell Cycle, 2004, 3, 931-40.	1.3	10
108	Molecular remodeling of potassium channels in fibroblasts from centenarians: A marker of longevity?. Mechanisms of Ageing and Development, 2010, 131, 674-681.	2.2	8

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109	Structure and Evolution of P-Glycoproteins. , 1991, , 189-211.		8
110	Functional Approaches to Gene Isolation in Mammalian Cells. Science, 1999, 285, 299a-299.	6.0	7
111	Genetic Suppressor Elements in the Characterization and Identification of Tumor Suppressor Genes. , 2003, 222, 413-436.		6
112	Role of transcription-regulating kinase CDK8 in colon cancer metastasis. Oncotarget, 2019, 10, 622-623.	0.8	6
113	Detection of amplified sequences in mammalian DNA by in-gel renaturation and SINE hybridization. Somatic Cell and Molecular Genetics, 1986, 12, 611-623.	0.7	5
114	Abstract LB-401: The chemosensitizing properties of iniparib in combination with DNA-damaging agents in the MDA-MB-468(â^') triple-negative breast cancer (TNBC) cell line. , 2011, , .		5
115	Alteration of Skin Protein Kinase C α Protein and mRNA Levels during Induced Mouse Hair Growth. Journal of Dermatology, 1999, 26, 203-209.	0.6	4
116	[16] Isolation of altered-function mutants and genetic suppressor elements of multidrug transporter P-glycoprotein by expression selection from retroviral libraries. Methods in Enzymology, 1998, 292, 225-248.	0.4	3
117	Abstract 4879: Targeting the seed and the soil of cancers with selective small-molecule inhibitors of CDK8/19: Chemopotentiating, chemopreventive, anti-invasive and anti-metastatic activities. Cancer Research, 2014, 74, 4879-4879.	0.4	3
118	Identification of potential anticancer drug targets through the selection of growth-inhibitory genetic suppressor elements. Cancer Cell, 2003, 4, 415.	7.7	2
119	Expression, Amplification, and Transfer of DNA Sequences Associated with Multidrug Resistance. , 1988, , 243-257.		2
120	70 Highly sensitive procedure for detection of amplified DNA. Cancer Genetics and Cytogenetics, 1987, 28, 46.	1.0	1
121	Seeking favors from nature. Cancer Biology and Therapy, 2005, 4, 794-799.	1.5	1
122	THERAPY-INDUCED SENESCENCE RESPONSE AND DIFFERENTIAL GENE EXPRESSION IN PROSTATE CANCER CELLS WITH VARIABLE METASTATIC POTENTIAL. Journal of Urology, 2008, 179, 191-192.	0.2	1
123	Involvement of MDR1 P-glycoprotein in multifactorial resistance to methotrexate. , 1996, 65, 613.		1
124	Abstract 1820: CDK3: A novel tumor-selective drug target involved in AP1 activation and transcriptional damage response. Cancer Research, 2012, 72, 1820-1820.	0.4	1
125	Abstract PR08: Targeting tumor microenvironment with selective small-molecule inhibitors of CDK8/19. , 2015, , .		1
126	EXPRESSION OF SENESCENCE-ASSOCIATED GROWTH REGULATORY PROTEINS IN HUMAN PROSTATE CANCER. Journal of Urology, 2009, 181, 514-514.	0.2	0

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127	Abstract 3022: The identification of novel senescence-associated miRNAs. , 2010, , .		0
128	Mitotic Catastrophe. , 2011, , 2345-2347.		0
129	Abstract 2101: Role of CDK8 in estrogen receptor signaling in breast cancers. , 2014, , .		Ο
130	Abstract 5104: Identification of cancer-specific COPI inhibitors and their associated apoptotic cell death pathways. , 2014, , .		0
131	Abstract 616: Transcription-regulating kinases CDK8 and CDK19 as novel therapeutic targets for advanced prostate cancer. , 2014, , .		0
132	Abstract 4883: CDK8: A new druggable mediator of NFκB activity. , 2014, , .		0
133	Abstract 5459: Overcoming resistance to HER2-targeting drugs using CDK8 inhibitors. , 2015, , .		Ο