

# Natasha J Caplen

## List of Publications by Year in descending order

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Version: 2024-02-01

99  
papers

9,234  
citations

101384

36  
h-index

110170

64  
g-index

100  
all docs

100  
docs citations

100  
times ranked

12030  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unique microRNA molecular profiles in lung cancer diagnosis and prognosis. <i>Cancer Cell</i> , 2006, 9, 189-198.	7.7	2,870
2	Specific inhibition of gene expression by small double-stranded RNAs in invertebrate and vertebrate systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 9742-9747.	3.3	982
3	Liposome-mediated CFTR gene transfer to the nasal epithelium of patients with cystic fibrosis. <i>Nature Medicine</i> , 1995, 1, 39-46.	15.2	736
4	Short interfering RNAs can induce unexpected and divergent changes in the levels of untargeted proteins in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1892-1897.	3.3	543
5	Noninvasive liposome-mediated gene delivery can correct the ion transport defect in cystic fibrosis mutant mice. <i>Nature Genetics</i> , 1993, 5, 135-142.	9.4	425
6	dsRNA-mediated gene silencing in cultured <i>Drosophila</i> cells: a tissue culture model for the analysis of RNA interference. <i>Gene</i> , 2000, 252, 95-105.	1.0	229
7	RNAi Microarray Analysis in Cultured Mammalian Cells. <i>Genome Research</i> , 2003, 13, 2341-2347.	2.4	173
8	p53-dependent Induction of PVT1 and miR-1204. <i>Journal of Biological Chemistry</i> , 2012, 287, 2509-2519.	1.6	165
9	Selective Toxicity of NSC73306 in MDR1-Positive Cells as a New Strategy to Circumvent Multidrug Resistance in Cancer. <i>Cancer Research</i> , 2006, 66, 4808-4815.	0.4	162
10	The Identification of MicroRNAs in a Genomically Unstable Region of Human Chromosome 8q24. <i>Molecular Cancer Research</i> , 2008, 6, 212-221.	1.5	159
11	Defining and Assaying RNAi in Mammalian Cells. <i>Molecular Cell</i> , 2005, 17, 1-10.	4.5	136
12	The 8q24 Gene Desert: An Oasis of Non-Coding Transcriptional Activity. <i>Frontiers in Genetics</i> , 2012, 3, 69.	1.1	127
13	Applications of RNA Interference in Mammalian Systems. <i>Annual Review of Genomics and Human Genetics</i> , 2007, 8, 81-108.	2.5	124
14	Kinase-Independent Functions for Itk in TCR-Induced Regulation of Vav and the Actin Cytoskeleton. <i>Journal of Immunology</i> , 2005, 174, 1385-1392.	0.4	121
15	Gene Therapy Progress and Prospects. Downregulating gene expression: the impact of RNA interference. <i>Gene Therapy</i> , 2004, 11, 1241-1248.	2.3	119
16	Implication of Checkpoint Kinase-dependent Up-regulation of Ribonucleotide Reductase R2 in DNA Damage Response. <i>Journal of Biological Chemistry</i> , 2009, 284, 18085-18095.	1.6	116
17	Single-step doxorubicin-selected cancer cells overexpress the ABCG2 drug transporter through epigenetic changes. <i>British Journal of Cancer</i> , 2008, 98, 1515-1524.	2.9	106
18	Identification of the receptor tyrosine kinase AXL in breast cancer as a target for the human miR-34a microRNA. <i>Breast Cancer Research and Treatment</i> , 2011, 130, 663-679.	1.1	101

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19	Rescue of polyglutamine-mediated cytotoxicity by double-stranded RNA-mediated RNA interference. <i>Human Molecular Genetics</i> , 2002, 11, 175-184.	1.4	100
20	Pvt1-encoded microRNAs in oncogenesis. <i>Retrovirology</i> , 2008, 5, 4.	0.9	100
21	Asparagine synthetase as a causal, predictive biomarker for l-asparaginase activity in ovarian cancer cells. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 2613-2623.	1.9	97
22	MAP kinase and autophagy pathways cooperate to maintain RAS mutant cancer cell survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4508-4517.	3.3	97
23	Cellular Inhibition of Checkpoint Kinase 2 (Chk2) and Potentiation of Camptothecins and Radiation by the Novel Chk2 Inhibitor PV1019 [7-Nitro-1 <i>H</i> -indole-2-carboxylic acid {4-[1-(guanidinohydrazono)-ethyl]-phenyl}-amide]. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 816-826.	1.3	90
24	Identification of WEE1 as a potential molecular target in cancer cells by RNAi screening of the human tyrosine kinome. <i>Breast Cancer Research and Treatment</i> , 2010, 122, 347-357.	1.1	77
25	Inhibition of Viral Gene Expression and Replication in Mosquito Cells by dsRNA-Triggered RNA Interference. <i>Molecular Therapy</i> , 2002, 6, 243-251.	3.7	76
26	Short Interfering RNA (siRNA)-Mediated RNA Interference (RNAi) in Human Cells. <i>Annals of the New York Academy of Sciences</i> , 2003, 1002, 56-62.	1.8	75
27	MicroRNAs and genomic instability. <i>Seminars in Cancer Biology</i> , 2007, 17, 65-73.	4.3	74
28	RNAi as a gene therapy approach. <i>Expert Opinion on Biological Therapy</i> , 2003, 3, 575-586.	1.4	68
29	Genetic Amplification of the NOTCH Modulator LNX2 Upregulates the WNT/ $\beta$ -Catenin Pathway in Colorectal Cancer. <i>Cancer Research</i> , 2013, 73, 2003-2013.	0.4	68
30	Inefficient cationic lipid-mediated siRNA and antisense oligonucleotide transfer to airway epithelial cells in vivo. <i>Respiratory Research</i> , 2006, 7, 26.	1.4	59
31	Functional Genomic Screening Reveals Splicing of the EWS-FLI1 Fusion Transcript as a Vulnerability in Ewing Sarcoma. <i>Cell Reports</i> , 2016, 14, 598-610.	2.9	53
32	Inhibition of polo-like kinase 1 in glioblastoma multiforme induces mitotic catastrophe and enhances radiosensitisation. <i>European Journal of Cancer</i> , 2013, 49, 3020-3028.	1.3	51
33	Targeting <i>MPS1</i> Enhances Radiosensitization of Human Glioblastoma by Modulating DNA Repair Proteins. <i>Molecular Cancer Research</i> , 2015, 13, 852-862.	1.5	50
34	Adeno-retroviral chimeric viruses as in vivo transducing agents. <i>Gene Therapy</i> , 1999, 6, 454-459.	2.3	43
35	Systems-wide RNAi analysis of CASP8AP2/FLASH shows transcriptional deregulation of the replication-dependent histone genes and extensive effects on the transcriptome of colorectal cancer cells. <i>Molecular Cancer</i> , 2012, 11, 1.	7.9	42
36	A genomic strategy for the functional validation of colorectal cancer genes identifies potential therapeutic targets. <i>International Journal of Cancer</i> , 2011, 128, 1069-1079.	2.3	41

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37	EWSâ€¦FLI1 reprograms the metabolism of Ewing sarcoma cells via positive regulation of glutamine import and serineâ€¦glycine biosynthesis. <i>Molecular Carcinogenesis</i> , 2018, 57, 1342-1357.	1.3	40
38	SpliceCenter: A suite of web-based bioinformatic applications for evaluating the impact of alternative splicing on RT-PCR, RNAi, microarray, and peptide-based studies. <i>BMC Bioinformatics</i> , 2008, 9, 313.	1.2	36
39	RNAi Screening Identifies TAK1 as a Potential Target for the Enhanced Efficacy of Topoisomerase Inhibitors. <i>Current Cancer Drug Targets</i> , 2011, 11, 976-986.	0.8	36
40	Efficient Delivery of RNA Interference Effectors via in vitro-Packaged SV40 Pseudovirions. <i>Human Gene Therapy</i> , 2005, 16, 1110-1115.	1.4	35
41	HNRNPH1-dependent splicing of a fusion oncogene reveals a targetable RNA G-quadruplex interaction. <i>Rna</i> , 2019, 25, 1731-1750.	1.6	34
42	Identification and validation of genes with expression patterns inverse to multiple metastasis suppressor genes in breast cancer cell lines. <i>Clinical and Experimental Metastasis</i> , 2014, 31, 771-786.	1.7	33
43	Localization and up-regulation of Mucin (MUC2) gene expression in human nasal biopsies of patients with cystic fibrosis. , 1997, 181, 305-310.		30
44	Adenovirus Vectors as Transcomplementing Templates for the Production of Replication Defective Retroviral Vectors. <i>Biochemical and Biophysical Research Communications</i> , 1998, 246, 912-919.	1.0	29
45	A new approach to the inhibition of gene expression. <i>Trends in Biotechnology</i> , 2002, 20, 49-51.	4.9	27
46	Cross-species genomic and functional analyses identify a combination therapy using a CHK1 inhibitor and a ribonucleotide reductase inhibitor to treat triple-negative breast cancer. <i>Breast Cancer Research</i> , 2012, 14, R109.	2.2	24
47	BRD4 facilitates DNA damage response and represses CBX5/Heterochromatin protein 1 (HP1). <i>Oncotarget</i> , 2017, 8, 51402-51415.	0.8	24
48	Loss-of-function RNAi screens in breast cancer cells identify AURKB, PLK1, PIK3R1, MAPK12, PRKD2, and PTK6 as sensitizing targets of rapamycin activity. <i>Cancer Letters</i> , 2014, 354, 336-347.	3.2	22
49	Identification of novel molecular regulators of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)-induced apoptosis in breast cancer cells by RNAi screening. <i>Breast Cancer Research</i> , 2014, 16, R41.	2.2	22
50	Fusion transcripts: Unexploited vulnerabilities in cancer?. <i>Wiley Interdisciplinary Reviews RNA</i> , 2020, 11, e1562.	3.2	21
51	Selective targeting of KRAS-Mutant cells by miR-126 through repression of multiple genes essential for the survival of KRAS-Mutant cells. <i>Oncotarget</i> , 2014, 5, 7635-7650.	0.8	21
52	Mismatched siRNAs downregulate mRNAs as a function of target site location. <i>FEBS Letters</i> , 2006, 580, 3694-3698.	1.3	20
53	In situ generation of pseudotyped retroviral progeny by adenovirus-mediated transduction of tumor cells enhances the killing effect of HSV-tk suicide gene therapy in vitro and in vivo. <i>Journal of Gene Medicine</i> , 2004, 6, 288-299.	1.4	19
54	Multiplexing siRNAs to compress RNAi-based screen size in human cells. <i>Nucleic Acids Research</i> , 2007, 35, e57-e57.	6.5	19

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55	Allele-specific silencing of the dominant disease allele in sialuria by RNA interference. <i>FASEB Journal</i> , 2008, 22, 3846-3852.	0.2	15
56	HNRNPH1 destabilizes the G-quadruplex structures formed by G-rich RNA sequences that regulate the alternative splicing of an oncogenic fusion transcript. <i>Nucleic Acids Research</i> , 2022, 50, 6474-6496.	6.5	14
57	New treatments for cystic fibrosis. <i>British Medical Bulletin</i> , 1992, 48, 785-804.	2.7	9
58	Genomic instability and mouse microRNAs. <i>Toxicology Mechanisms and Methods</i> , 2011, 21, 325-333.	1.3	9
59	RNAi quashes polyQ. <i>Nature Medicine</i> , 2004, 10, 775-776.	15.2	7
60	Identification of therapeutic targets applicable to clinical strategies in ovarian cancer. <i>BMC Cancer</i> , 2016, 16, 678.	1.1	7
61	Cancer biology functional genomics: From small RNAs to big dreams. <i>Molecular Carcinogenesis</i> , 2020, 59, 1343-1361.	1.3	6
62	Comprehensive profiling of mRNA splicing indicates that GC content signals altered cassette exon inclusion in Ewing sarcoma. <i>NAR Cancer</i> , 2022, 4, zcab052.	1.6	5
63	Cystic fibrosis gene therapy trials and tribulations. <i>Trends in Molecular Medicine</i> , 2001, 7, 488.	3.5	4
64	Gene silencing through RNA interference: Potential for therapeutics and functional genomics. <i>International Journal of Peptide Research and Therapeutics</i> , 2003, 10, 361-372.	0.9	3
65	RNAi as a gene therapy approach. , 0, .		3
66	Cystic Fibrosis: Gene Therapy Approaches. , 0, , 207-226.		2
67	MIROME ARCHITECTURE AND GENOMIC INSTABILITY. , 0, , 133-147.		1
68	Abstract 1952: The rapid generation of mouse B cell lymphomas by lentiviral mediated overexpression of miR-1204 from a genetically unstable region of human 8q24. , 2010, , .		1
69	Abstract 15: gp78 is a negative regulator of TRAIL-induced apoptosis in breast cancer cells. <i>Cancer Research</i> , 2015, 75, 15-15.	0.4	1
70	Gene silencing through RNA interference: Potential for therapeutics and functional genomics. <i>International Journal of Peptide Research and Therapeutics</i> , 2003, 10, 361-372.	0.1	0
71	Gene silencing through RNA interference: Potential for therapeutics and functional genomics. <i>International Journal of Peptide Research and Therapeutics</i> , 2005, 10, 361-372.	0.9	0
72	Gene Silencing by RNA Interference and the Role of Small Interfering RNAs. , 2004, , .		0

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73	Abstract A117: Chk1â€dependent upâ€regulation of ribonucleotide reductase R2 in response to camptothecinâ€induced DNA damage. , 2009, , .		0
74	Abstract A120: Cellular inhibition of Chk2 kinase and potentiation of camptothecins and radiation by the novel Chk2 inhibitor PV1019. , 2009, , .		0
75	Abstract 2098: The receptor tyrosine kinase AXL is a target for the human miR-34a microRNA. , 2010, , .		0
76	Abstract LB-74: A high-throughput RNAi sensitization screen of rapamycin identifies targets for rational drug combination strategies. , 2010, , .		0
77	Abstract 247: A functional genomics and a systems biology approach identify POMP as a potential therapeutic target for colorectal cancer. , 2010, , .		0
78	Abstract 2041: Large-scale RNAi screening identifies PCTK3/CDK18 as a putative cancer-related molecular target. , 2011, , .		0
79	Abstract 4106: A functional genomic approach to identify novel molecular regulators of the TRAIL pathway in breast cancer. , 2011, , .		0
80	Abstract 1181: Expression studies from the PVT1 region of 8q24. , 2011, , .		0
81	Abstract 96: From genome-wide association studies (GWAS) to functional genomics of prostate cancer: exploring the role of candidate transcripts through RNAi-based analysis. , 2012, , .		0
82	Abstract 267: Large-scale RNAi screening of human kinome identifies putative breast cancer related molecular targets. , 2012, , .		0
83	Abstract 199: Noncoding RNAs of the 8q24 locus. , 2012, , .		0
84	Identification of TNK2 as a critical kinase in rhabdomyosarcoma through a loss of function shRNA screen.. Journal of Clinical Oncology, 2012, 30, 9511-9511.	0.8	0
85	Abstract 4408: A functional genomics approach for identification of sirolimus sensitizer genes regulated by HDAC inhibitors.. , 2013, , .		0
86	Integrated analysis of RNAi screens in pediatric rhabdomyosarcoma.. Journal of Clinical Oncology, 2013, 31, 10040-10040.	0.8	0
87	Abstract B25: An unbiased functional screen identifies kinases essential to ovarian cancer cell survival. , 2013, , .		0
88	Abstract C222: The identification of kinase targets in Ewing sarcoma cell lines using RNAi and high-throughput investigational agents screens.. , 2013, , .		0
89	Lipid Gene Transfer and Clinical Gene Therapy. , 1998, , 205-217.		0
90	Lipid Gene Trasfer, a Story of Simplicity and Complexity. , 1998, , 185-194.		0

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91	Abstract LB-87: Analysis of JAZF1 loss-of-function reveals its role in regulation of genes relevant for prostate cancer. , 2014, , .		0
92	Abstract 5124: Identification and characterization of novel regulators of TRAIL-induced apoptosis in breast cancer cells. , 2014, , .		0
93	Abstract 520: Functional genomic screens identify microRNA regulators of the oncogenic fusion transcription factor EWS-FLI1. , 2014, , .		0
94	Abstract 479: Inhibition of the splicing of the EWS-FLI1 fusion transcript reverses EWS-FLI1 driven oncogenic expression in Ewing sarcoma. , 2015, , .		0
95	Abstract 2008: Ewing sarcoma cells harboring a translocation that retains EWSR1 exon 8 require HNRNPH1 to express the in-frame oncogenic fusion transcript EWS-FLI1. , 2016, , .		0
96	Abstract 5471: EWS-FLI1 reprograms the metabolism of Ewing sarcoma cells via positive regulation of glutamine import and serine-glycine biosynthesis. , 2018, , .		0
97	Abstract 1632: Suppression of EWS-FLI1 transcription using a combination therapy of mithramycin and cyclin-dependent kinase 9 inhibition. , 2018, , .		0
98	Abstract 4494: HNRNPH1-dependent splicing of a fusion oncogene reveals a targetable RNA G-quadruplex interaction. , 2019, , .		0
99	Gene Silencing through RNA Interference. , 2006, , 252-264.		0