Judy Lieberman

List of Publications by Year
in descending order

139 papers	28,081 citations	10389 72 h-index	12946 131 g-index
147 all docs	147 docs citations	147 times ranked	33433 citing authors

#	Article	IF	Citations
1	Inflammasome-activated gasdermin D causes pyroptosis by forming membrane pores. Nature, 2016, 535, 153-158.	27.8	2,143
2	let-7 Regulates Self Renewal and Tumorigenicity of Breast Cancer Cells. Cell, 2007, 131, 1109-1123.	28.9	1,762
3	Identification of Host Proteins Required for HIV Infection Through a Functional Genomic Screen. Science, 2008, 319, 921-926.	12.6	1,310
4	RNA interference targeting Fas protects mice from fulminant hepatitis. Nature Medicine, 2003, 9, 347-351.	30.7	1,091
5	Interfering with disease: a progress report on siRNA-based therapeutics. Nature Reviews Drug Discovery, 2007, 6, 443-453.	46.4	1,080
6	Antibody mediated in vivo delivery of small interfering RNAs via cell-surface receptors. Nature Biotechnology, 2005, 23, 709-717.	17.5	967
7	Gasdermin E suppresses tumour growth by activating anti-tumour immunity. Nature, 2020, 579, 415-420.	27.8	900
8	siRNA-directed inhibition of HIV-1 infection. Nature Medicine, 2002, 8, 681-686.	30.7	750
9	Knocking down disease: a progress report on siRNA therapeutics. Nature Reviews Genetics, 2015, 16, 543-552.	16.3	669
10	The ABCs of granule-mediated cytotoxicity: new weapons in the arsenal. Nature Reviews Immunology, 2003, 3, 361-370.	22.7	630
11	Mutations in the gene encoding the 3â€²-5â€² DNA exonuclease TREX1 are associated with systemic lupus erythematosus. Nature Genetics, 2007, 39, 1065-1067.	21.4	590
12	FDA-approved disulfiram inhibits pyroptosis by blocking gasdermin D pore formation. Nature Immunology, 2020, 21, 736-745.	14.5	555
13	miR-24 Inhibits Cell Proliferation by Targeting E2F2, MYC, and Other Cell-Cycle Genes via Binding to â€œSeedlessâ€•3â€²UTR MicroRNA Recognition Elements. Molecular Cell, 2009, 35, 610-625.	9.7	544
14	Death by a Thousand Cuts: Granzyme Pathways of Programmed Cell Death. Annual Review of Immunology, 2008, 26, 389-420.	21.8	536
15	Tumor Suppressor NM23-H1 Is a Granzyme A-Activated DNase during CTL-Mediated Apoptosis, and the Nucleosome Assembly Protein SET Is Its Inhibitor. Cell, 2003, 112, 659-672.	28.9	487
16	G3BPâ€“Caprin1â€“USP10 complexes mediate stress granule condensation and associate with 40S subunits. Journal of Cell Biology, 2016, 212, 845-60.	5.2	480
17	Desperately seeking microRNA targets. Nature Structural and Molecular Biology, 2010, 17, 1169-1174.	8.2	456
18	The cytosolic exonuclease TREX1 inhibits the innate immune response to human immunodeficiency virus type 1. Nature Immunology, 2010, 11, 1005-1013.	14.5	455

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19	Visualizing lipid-formulated siRNA release from endosomes and target gene knockdown. Nature Biotechnology, 2015, 33, 870-876.	17.5	424
20	miR-200â€“containing extracellular vesicles promote breast cancer cell metastasis. Journal of Clinical Investigation, 2014, 124, 5109-5128.	8.2	368
21	Cytotoxic T Cells Use Mechanical Force to Potentiate Target Cell Killing. Cell, 2016, 165, 100-110.	28.9	329
22	Channelling inflammation: gasdermins in physiology and disease. Nature Reviews Drug Discovery, 2021, 20, 384-405.	46.4	323
23	Granzyme A Induces Caspase-Independent Mitochondrial Damage, a Required First Step for Apoptosis. Immunity, 2005, 22, 355-370.	14.3	319
24	FcÎ³R-mediated SARS-CoV-2 infection of monocytes activates inflammation. Nature, 2022, 606, 576-584.	27.8	314
25	Cryo-EM structure of the gasdermin A3 membrane pore. Nature, 2018, 557, 62-67.	27.8	301
26	Gasdermin D pore structure reveals preferential release of mature interleukin-1. Nature, 2021, 593, 607-611.	27.8	298
27	miR-200 Enhances Mouse Breast Cancer Cell Colonization to Form Distant Metastases. PLoS ONE, 2009, 4, e7181.	2.5	282
28	Inflammasome activation in infected macrophages drives COVID-19 pathology. Nature, 2022, 606, 585-593.	27.8	276
29	CRISPR-Cas9 genome editing using targeted lipid nanoparticles for cancer therapy. Science Advances, 2020, 6, .	10.3	270
30	miR-24â€“mediated downregulation of H2AX suppresses DNA repair in terminally differentiated blood cells. Nature Structural and Molecular Biology, 2009, 16, 492-498.	8.2	265
31	G-quadruplex structures contribute to the neuroprotective effects of angiogenin-induced tRNA fragments. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18201-18206.	7.1	264
32	Selective gene silencing in activated leukocytes by targeting siRNAs to the integrin lymphocyte function-associated antigen-1. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4095-4100.	7.1	262
33	Perforin Triggers a Plasma Membrane-Repair Response that Facilitates CTL Induction of Apoptosis. Immunity, 2005, 23, 249-262.	14.3	260
34	Perforin pores in the endosomal membrane trigger the release of endocytosed granzyme B into the cytosol of target cells. Nature Immunology, 2011, 12, 770-777.	14.5	251
35	The Exonuclease TREX1 Is in the SET Complex and Acts in Concert with NM23-H1 to Degrade DNA during Granzyme A-Mediated Cell Death. Molecular Cell, 2006, 23, 133-142.	9.7	225
36	Capture of MicroRNAâ€“Bound mRNAs Identifies the Tumor Suppressor miR-34a as a Regulator of Growth Factor Signaling. PLoS Genetics, 2011, 7, e1002363.	3.5	222

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37	Cleaving the oxidative repair protein Ape1 enhances cell death mediated by granzyme A. Nature Immunology, 2003, 4, 145-153.	14.5	219
38	Delivering the kiss of death: progress on understanding how perforin works. Current Opinion in Immunology, 2007, 19, 301-308.	5.5	215
39	Inflammasome activation at the crux of severe COVID-19. Nature Reviews Immunology, 2021, 21, 694-703.	22.7	210
40	Inhibition of HIV transmission in human cervicovaginal explants and humanized mice using CD4 aptamer-siRNA chimeras. Journal of Clinical Investigation, 2011, 121, 2401-2412.	8.2	209
41	A modular platform for targeted RNAi therapeutics. Nature Nanotechnology, 2018, 13, 214-219.	31.5	197
42	Dysregulation of microRNA biogenesis and gene silencing in cancer. Science Signaling, 2015, 8, re3.	3.6	193
43	Granzyme A Cleaves a Mitochondrial Complex I Protein to Initiate Caspase-Independent Cell Death. Cell, 2008, 133, 681-692.	28.9	180
44	Nuclear war: the granzyme A-bomb. Current Opinion in Immunology, 2003, 15, 553-559.	5.5	170
45	Killer lymphocytes use granulysin, perforin and granzymes to kill intracellular parasites. Nature Medicine, 2016, 22, 210-216.	30.7	165
46	Granzyme A activates another way to die. Immunological Reviews, 2010, 235, 93-104.	6.0	164
47	Cytotoxic Cells Kill Intracellular Bacteria through Granulysin-Mediated Delivery of Granzymes. Cell, 2014, 157, 1309-1323.	28.9	164
48	Blocking the recruitment of naive CD4+ T cells reverses immunosuppression in breast cancer. Cell Research, 2017, 27, 461-482.	12.0	163
49	Circulating CD8 T Lymphocytes in Human Immunodeficiency Virus-Infected Individuals Have Impaired Function and Downmodulate CD3Î¶, the Signaling Chain of the T-Cell Receptor Complex. Blood, 1998, 91, 585-594.	1.4	160
50	Streptococcal pyrogenic exotoxin B cleaves GSDMA and triggers pyroptosis. Nature, 2022, 602, 496-502.	27.8	153
51	A Genome-wide siRNA Screen Identifies Proteasome Addiction as a Vulnerability of Basal-like Triple-Negative Breast Cancer Cells. Cancer Cell, 2013, 24, 182-196.	16.8	147
52	Tapping the RNA world for therapeutics. Nature Structural and Molecular Biology, 2018, 25, 357-364.	8.2	147
53	miR-34 and p53: New Insights into a Complex Functional Relationship. PLoS ONE, 2015, 10, e0132767.	2.5	147
54	Conserved Regulation of p53 Network Dosage by MicroRNAâ€“125b Occurs through Evolving miRNAâ€“Target Gene Pairs. PLoS Genetics, 2011, 7, e1002242.	3.5	143

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55	miR-34a contributes to megakaryocytic differentiation of K562 cells independently of p53. Blood, 2009, 114, 2181-2192.	1.4	142
56	Diagnostic Potential of Imaging Flow Cytometry. Trends in Biotechnology, 2018, 36, 649-652.	9.3	130
57	Apoptosis Triggers Specific, Rapid, and Global mRNA Decay with 3â€² Uridylated Intermediates Degraded by DIS3L2. Cell Reports, 2015, 11, 1079-1089.	6.4	127
58	Human Immunodeficiency Virus-Specific Circulating CD8 T Lymphocytes Have Down-Modulated CD3Î¶ and CD28, Key Signaling Molecules for T-Cell Activation. Journal of Virology, 2000, 74, 7320-7330.	3.4	120
59	Promise and Challenge of RNA Interferenceâ€“Based Therapy for Cancer. Journal of Clinical Oncology, 2011, 29, 747-754.	1.6	119
60	Gasdermin D activity in inflammation and host defense. Science Immunology, 2019, 4, .	11.9	119
61	A Mechanistic Understanding of Pyroptosis: The Fiery Death Triggered by Invasive Infection. Advances in Immunology, 2017, 135, 81-117.	2.2	115
62	Decidual NK Cells Transfer Granulysin to Selectively Kill Bacteria in Trophoblasts. Cell, 2020, 182, 1125-1139.e18.	28.9	115
63	Perforin activates clathrin- and dynamin-dependent endocytosis, which is required for plasma membrane repair and delivery of granzyme B for granzyme-mediated apoptosis. Blood, 2010, 115, 1582-1593.	1.4	113
64	Resistance of HIV-infected macrophages to CD8+ T lymphocyteâ€“mediated killing drives activation of the immune system. Nature Immunology, 2018, 19, 475-486.	14.5	105
65	NLRP3 inflammasome activation triggers gasdermin Dâ€“independent inflammation. Science Immunology, 2021, 6, eabj3859.	11.9	100
66	Interfering with disease: opportunities and roadblocks to harnessing RNA interference. Trends in Molecular Medicine, 2003, 9, 397-403.	6.7	97
67	Tumorâ€secreted extracellular vesicles promote the activation of cancerâ€associated fibroblasts via the transfer of microRNAâ€125b. Journal of Extracellular Vesicles, 2019, 8, 1599680.	12.2	95
68	Bone Morphogenetic Protein 4 Promotes Vascular Smooth Muscle Contractility by Activating MicroRNA-21 (miR-21), which Down-regulates Expression of Family of Dedicator of Cytokinesis (DOCK) Proteins. Journal of Biological Chemistry, 2012, 287, 3976-3986.	3.4	90
69	Impaired function of circulating HIV-specific CD8+ T cells in chronic human immunodeficiency virus infection. Blood, 2000, 96, 3094-3101.	1.4	89
70	Safety of Autologous, Ex Vivo-Expanded Human Immunodeficiency Virus (HIV)-Specific Cytotoxic T-Lymphocyte Infusion in HIV-Infected Patients. Blood, 1997, 90, 2196-2206.	1.4	86
71	STING inhibitors target the cyclic dinucleotide binding pocket. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	84
72	The SET Complex Acts as a Barrier to Autointegration of HIV-1. PLoS Pathogens, 2009, 5, e1000327.	4.7	82

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73	The Rab2A GTPase Promotes Breast Cancer Stem Cells and Tumorigenesis via Erk Signaling Activation. Cell Reports, 2015, 11, 111-124.	6.4	80
74	The lysosomal Rag-Ragulator complex licenses RIPK1â€“ and caspase-8â€“mediated pyroptosis by Yersinia. Science, 2021, 372, .	12.6	80
75	Harnessing RNAi-based nanomedicines for therapeutic gene silencing in B-cell malignancies. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E16-22.	7.1	73
76	Durable Knockdown and Protection From HIV Transmission in Humanized Mice Treated With Gel-formulated CD4 Aptamer-siRNA Chimeras. Molecular Therapy, 2013, 21, 1378-1389.	8.2	70
77	Prolyl Isomerase Pin1 Acts Downstream of miR200c to Promote Cancer Stemâ€“like Cell Traits in Breast Cancer. Cancer Research, 2014, 74, 3603-3616.	0.9	68
78	Viral-Specific Cytotoxic T Lymphocytes Lyse Human Immunodeficiency Virusâ€“Infected Primary T Lymphocytes by the Granule Exocytosis Pathway. Blood, 1999, 94, 3084-3093.	1.4	67
79	Knocking â€™em Dead: Pore-Forming Proteins in Immune Defense. Annual Review of Immunology, 2020, 38, 455-485.	21.8	67
80	Gene Knockdown by EpCAM Aptamerâ€“siRNA Chimeras Suppresses Epithelial Breast Cancers and Their Tumor-Initiating Cells. Molecular Cancer Therapeutics, 2015, 14, 2279-2291.	4.1	66
81	Cytotoxic CD8+ T cells recognize and kill Plasmodium vivaxâ€“infected reticulocytes. Nature Medicine, 2018, 24, 1330-1336.	30.7	65
82	PNPT1 Release from Mitochondria during Apoptosis Triggers Decay of Poly(A) RNAs. Cell, 2018, 174, 187-201.e12.	28.9	64
83	Lighting a Fire: Can We Harness Pyroptosis to Ignite Antitumor Immunity?. Cancer Immunology Research, 2021, 9, 2-7.	3.4	64
84	Granzyme B Binds to Target Cells Mostly by Charge and Must Be Added at the Same Time as Perforin to Trigger Apoptosis. Journal of Immunology, 2005, 174, 5456-5461.	0.8	62
85	CD3Î¶ and CD28 down-modulation on CD8 T cells during viral infection. Blood, 2000, 96, 1021-1029.	1.4	59
86	Efficient and specific gene knockdown by small interfering RNAs produced in bacteria. Nature Biotechnology, 2013, 31, 350-356.	17.5	57
87	Granzyme B Disrupts Central Metabolism and Protein Synthesis in Bacteria to Promote an Immune Cell Death Program. Cell, 2017, 171, 1125-1137.e11.	28.9	56
88	Targeting stem-loop 1 of the SARS-CoV-2 5â€² UTR to suppress viral translation and Nsp1 evasion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	56
89	Î³Î´ T cells suppress Plasmodium falciparum blood-stage infection by direct killing and phagocytosis. Nature Immunology, 2021, 22, 347-357.	14.5	52
90	Sequencing of Captive Target Transcripts Identifies the Network of Regulated Genes and Functions of Primate-Specific miR-522. Cell Reports, 2014, 8, 1225-1239.	6.4	50

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91	Characterization of Dual PTEN and p53-Targeting MicroRNAs Identifies MicroRNA-638/Dnm2 as a Two-Hit Oncogenic Locus. Cell Reports, 2014, 8, 714-722.	6.4	49
92	Perforin: A Key Pore-Forming Protein for Immune Control of Viruses and Cancer. Sub-Cellular Biochemistry, 2014, 80, 197-220.	2.4	47
93	Ex Vivo Cytosolic Delivery of Functional Macromolecules to Immune Cells. PLoS ONE, 2015, 10, e0118803.	2.5	47
94	Granulysin: killer lymphocyte safeguard against microbes. Current Opinion in Immunology, 2019, 60, 19-29.	5.5	43
95	Leukocyte Protease Binding to Nucleic Acids Promotes Nuclear Localization and Cleavage of Nucleic Acid Binding Proteins. Journal of Immunology, 2014, 192, 5390-5397.	0.8	42
96	Basal-A Triple-Negative Breast Cancer Cells Selectively Rely on RNA Splicing for Survival. Molecular Cancer Therapeutics, 2017, 16, 2849-2861.	4.1	41
97	Avoiding the kiss of death: how HIV and other chronic viruses survive. Current Opinion in Immunology, 2002, 14, 478-486.	5.5	40
98	Anatomy of a murder: how cytotoxic T cells and NK cells are activated, develop, and eliminate their targets. Immunological Reviews, 2010, 235, 5-9.	6.0	40
99	Noncoding RNAs and Cancer. Cell, 2013, 153, 9-10.	28.9	40
100	Immunotherapy for breast cancer using EpCAM aptamer tumor-targeted gene knockdown. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	38
101	Capture and Identification of miRNA Targets by Biotin Pulldown and RNA-seq. Methods in Molecular Biology, 2016, 1358, 211-228.	0.9	36
102	Alterations in RNA processing during immune-mediated programmed cell death. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8688-8693.	7.1	33
103	TRIM21 regulates pyroptotic cell death by promoting Gasdermin D oligomerization. Cell Death and Differentiation, 2022, 29, 439-450.	11.2	33
104	Isolation of Cytotoxic T Cell and NK Granules and Purification of Their Effector Proteins. Current Protocols in Cell Biology, 2010, 47, Unit3.37.	2.3	32
105	An RNA-binding Protein, Lin28, Recognizes and Remodels G-quartets in the MicroRNAs (miRNAs) and mRNAs It Regulates. Journal of Biological Chemistry, 2015, 290, 17909-17922.	3.4	32
106	Myeloid Cells in Intact Human Cervical Explants Capture HIV and Can Transmit It to CD4 T Cells. Frontiers in Immunology, 2018, 9, 2719.	4.8	32
107	Disulfiram use is associated with lower risk of COVID-19: A retrospective cohort study. PLoS ONE, 2021, 16, e0259061.	2.5	32
108	Live or let die: posttranscriptional gene regulation in cell stress and cell death. Immunological Reviews, 2013, 253, 237-252.	6.0	31

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109	Human regulatory T cells undergo self-inflicted damage via granzyme pathways upon activation. JCI Insight, 2017, 2, .	5.0	31
110	Engineered Listeria monocytogenes as an AIDS vaccine. Vaccine, 2002, 20, 2007-2010.	3.8	30
111	An Epigenetic Clock Measures Accelerated Aging in Treated HIV Infection. Molecular Cell, 2016, 62, 153-155.	9.7	30
112	TREX1 Knockdown Induces an Interferon Response to HIV that Delays Viral Infection in Humanized Mice. Cell Reports, 2016, 15, 1715-1727.	6.4	30
113	Tracking the killers. Aids, 2004, 18, 1489-1493.	2.2	26
114	SPARCLE, a p53-induced lncRNA, controls apoptosis after genotoxic stress by promoting PARP-1 cleavage. Molecular Cell, 2022, 82, 785-802.e10.	9.7	24
115	miR-196b target screen reveals mechanisms maintaining leukemia stemness with therapeutic potential. Journal of Experimental Medicine, 2018, 215, 2115-2136.	8.5	20
116	Production of highly potent recombinant siRNAs in Escherichia coli. Nature Protocols, 2013, 8, 2325-2336.	12.0	17
117	Decidual NK cells kill Zika virusâ€“infected trophoblasts. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
118	Chemoattractant-mediated leukocyte trafficking enables HIV dissemination from the genital mucosa. JCI Insight, 2017, 2, e88533.	5.0	15
119	Viral-Specific Cytotoxic T Lymphocytes Lyse Human Immunodeficiency Virusâ€“Infected Primary T Lymphocytes by the Granule Exocytosis Pathway. Blood, 1999, 94, 3084-3093.	1.4	15
120	Contributions of IFN-Î³Âand granulysin to the clearance of Plasmodium yoelii blood stage. PLoS Pathogens, 2020, 16, e1008840.	4.7	14
121	Circulating CD8 T Lymphocytes in Human Immunodeficiency Virus-Infected Individuals Have Impaired Function and Downmodulate CD3Î¶, the Signaling Chain of the T-Cell Receptor Complex. Blood, 1998, 91, 585-594.	1.4	12
122	Harnessing RNA Interference for Therapy. JAMA - Journal of the American Medical Association, 2015, 313, 1207.	7.4	9
123	A High Yield and Cost-efficient Expression System of Human Granzymes in Mammalian Cells. Journal of Visualized Experiments, 2015, , e52911.	0.3	8
124	How ICE lights the pyroptosis fire. Cell Death and Differentiation, 2017, 24, 197-199.	11.2	8
125	Lighting a fire on the reef. Science Immunology, 2020, 5, .	11.9	8
126	Serum enhances the ex vivo generation of HIV-specific cytotoxic T cells. , 2000, 50, 521-528.		7

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127	Manipulating the in vivo immune response by targeted gene knockdown. Current Opinion in Immunology, 2015, 35, 63-72.	5.5	7
128	Serum enhances the ex vivo generation of HIVâ€specific cytotoxic T cells. Biotechnology and Bioengineering, 1996, 50, 521-528.	3.3	7
129	Tombusvirus p19 Captures RNase III-Cleaved Double-Stranded RNAs Formed by Overlapping Sense and Antisense Transcripts in Escherichia coli. MBio, 2020, 11, .	4.1	5
130	Unveiling the RNA World. New England Journal of Medicine, 2018, 379, 1278-1280.	27.0	4
131	CD3Î¶ and CD28 down-modulation on CD8 T cells during viral infection. Blood, 2000, 96, 1021-1029.	1.4	2
132	Inhibiting the Host Exonuclease TREX1 Induces a Localized and Protective Host Interferon Response against Acute HIV Infection In Vivo. AIDS Research and Human Retroviruses, 2014, 30, A41-A41.	1.1	1
133	FDA-approved disulfiram inhibits pyroptosis by blocking gasdermin D pore formation. , 0, .		1
134	Developing an Effective Rectal Microbicide: Inhibiting HIV Transmission in Human Colorectal Tissue and Humanized Mice with CD4 Aptamer-siRNA Chimeras. AIDS Research and Human Retroviruses, 2014, 30, A206-A206.	1.1	0
135	Cytotoxic Lymphocytes. , 2016, , 363-373.		0
136	Unbiased Analyses of Signaling Through Leukemia Associated MicroRNA. Blood, 2011, 118, 2373-2373.	1.4	0
137	A microRNA pulldown approach uncovers regulation of p53 activity and growth factor signaling by miRâ€34a. FASEB Journal, 2012, 26, 203.3.	0.5	0
138	Binding Of Immune Serine Proteases To Nucleic Acids Enhances Their Nuclear Localization and Promotes Their Cleavage Of Nucleic Acid-Binding Protein Substrates. Blood, 2013, 122, 3471-3471.	1.4	0
139	Functional Screening Of Oncomir-196b-RISC Captured Targets Reveal Mir-Inhibition Of Tumor Suppressor Activity In MLL-AF9 Mediated Leukemogenesis. Blood, 2013, 122, 475-475.	1.4	0