Bruce E Torbett

List of Publications by Year in descending order

90 papers	3,023 citations	172457 29 h-index	175258 52 g-index
96 all docs	96 docs citations	96 times ranked	5698 citing authors

#	Article	IF	Citations
1	A Copper(I)-Catalyzed 1,2,3-Triazole Azideâ"Alkyne Click Compound Is a Potent Inhibitor of a Multidrug-Resistant HIV-1 Protease Variant. Journal of Medicinal Chemistry, 2008, 51, 6263-6270.	6.4	219
2	Virtual Screening for HIV Protease Inhibitors: A Comparison of AutoDock 4 and Vina. PLoS ONE, 2010, 5, e11955.	2.5	176
3	The Class I HLA Repertoire of Pancreatic Islets Comprises the Nonclassical Class Ib Antigen HLA-G. Diabetes, 2006, 55, 1214-1222.	0.6	149
4	Mystery solved: VSV-G-LVs do not allow efficient gene transfer into unstimulated T cells, B cells, and HSCs because they lack the LDL receptor. Blood, 2014, 123, 1422-1424.	1.4	145
5	CCR5 Disruption in Induced Pluripotent Stem Cells Using CRISPR/Cas9 Provides Selective Resistance of Immune Cells to CCR5-tropic HIV-1 Virus. Molecular Therapy - Nucleic Acids, 2015, 4, e268.	5.1	122
6	The Transcription Factor Encyclopedia. Genome Biology, 2012, 13, R24.	9.6	103
7	C/EBPÎ± binds and activates the PU.1 distal enhancer to induce monocyte lineage commitment. Blood, 2007, 110, 3136-3142.	1.4	101
8	Zinc-finger Nuclease Editing of Human cxcr4 Promotes HIV-1 CD4+ T Cell Resistance and Enrichment. Molecular Therapy, 2012, 20, 849-859.	8.2	100
9	Conformational flexibility in the flap domains of ligand-free HIV protease. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 866-875.	2.5	84
10	Developmental Regulation of TREM2 and DAP12 Expression in the Murine CNS: Implications for Nasu-Hakola Disease. Neurochemical Research, 2009, 34, 38-45.	3.3	80
11	Heterodimerization controls localization of Duox-DuoxA NADPH oxidases in airway cells. Journal of Cell Science, 2009, 122, 1238-1247.	2.0	79
12	Rapamycin relieves lentiviral vector transduction resistance in human and mouse hematopoietic stem cells. Blood, 2014, 124, 913-923.	1.4	78
13	Accessory Mutations Maintain Stability in Drug-Resistant HIV-1 Protease. Journal of Molecular Biology, 2011, 410, 756-760.	4.2	69
14	mTOR inhibitors lower an intrinsic barrier to virus infection mediated by IFITM3. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10069-E10078.	7.1	65
15	Prostaglandin E2 Increases Lentiviral Vector Transduction Efficiency of Adult Human Hematopoietic Stem and Progenitor Cells. Molecular Therapy, 2018, 26, 320-328.	8.2	63
16	Nucleocapsid Protein: A Desirable Target for Future Therapies Against HIV-1. Current Topics in Microbiology and Immunology, 2015, 389, 53-92.	1.1	56
17	Activated tumor cell integrin Î±vÎ²3 cooperates with platelets to promote extravasation and metastasis from the blood stream. Thrombosis Research, 2016, 140, S27-S36.	1.7	56
18	Identification of HIV-1 Inhibitors Targeting the Nucleocapsid Protein. Journal of Medicinal Chemistry, 2012, 55, 4968-4977.	6.4	53

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19	Inference of Epistatic Effects Leading to Entrenchment and Drug Resistance in HIV-1 Protease. Molecular Biology and Evolution, 2017, 34, 1291-1306.	8.9	51
20	PU.1 is linking the glycolytic enzyme HK3 in neutrophil differentiation and survival of APL cells. Blood, 2012, 119, 4963-4970.	1.4	48
21	ASGCT and JSGT Joint Position Statement on Human Genomic Editing. Molecular Therapy, 2015, 23, 1282.	8.2	47
22	CLEC5A (MDL-1) is a novel PU.1 transcriptional target during myeloid differentiation. Molecular Immunology, 2011, 48, 714-719.	2.2	46
23	Sequencing and Structure Probing of Long RNAs Using MarathonRT: A Next-Generation Reverse Transcriptase. Journal of Molecular Biology, 2020, 432, 3338-3352.	4.2	46
24	The death-associated protein kinase 2 is up-regulated during normal myeloid differentiation and enhances neutrophil maturation in myeloid leukemic cells. Journal of Leukocyte Biology, 2007, 81, 1599-1608.	3.3	45
25	Low Autophagy (ATG) Gene Expression Is Associated with an Immature AML Blast Cell Phenotype and Can Be Restored during AML Differentiation Therapy. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-16.	4.0	45
26	The Proteome of Mouse Brain Microvessel Membranes and Basal Lamina. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2267-2281.	4.3	44
27	Deep Sequencing of Protease Inhibitor Resistant HIV Patient Isolates Reveals Patterns of Correlated Mutations in Gag and Protease. PLoS Computational Biology, 2015, 11, e1004249.	3.2	38
28	Interactome analysis of the lymphocytic choriomeningitis virus nucleoprotein in infected cells reveals ATPase Na+/K+ transporting subunit Alpha 1 and prohibitin as host-cell factors involved in the life cycle of mammarenaviruses. PLoS Pathogens, 2018, 14, e1006892.	4.7	34
29	Advances in targeting nucleocapsidâ€“nucleic acid interactions in HIV-1 therapy. Virus Research, 2014, 193, 135-143.	2.2	33
30	HIC1 tumour suppressor gene is suppressed in acute myeloid leukaemia and induced during granulocytic differentiation. British Journal of Haematology, 2008, 141, 179-187.	2.5	31
31	Small Molecule Regulation of Protein Conformation by Binding in the Flap of HIV Protease. ACS Chemical Biology, 2013, 8, 1223-1231.	3.4	30
32	CEBPA-dependent HK3 and KLF5 expression in primary AML and during AML differentiation. Scientific Reports, 2014, 4, 4261.	3.3	29
33	Contribution of T-Cell Receptor Repertoire Breadth to the Dominance of Epitope-Specific CD8 + T-Lymphocyte Responses. Journal of Virology, 2006, 80, 12032-12040.	3.4	28
34	Resveratrol trimer enhances gene delivery to hematopoietic stem cells by reducing antiviral restriction at endosomes. Blood, 2019, 134, 1298-1311.	1.4	27
35	Crystal structure of an FIV/HIV chimeric protease complexed with the broad-based inhibitor, TL-3. Retrovirology, 2007, 4, 1.	2.0	26
36	Inhibition of GATE-16 attenuates ATRA-induced neutrophil differentiation of APL cells and interferes with autophagosome formation. Biochemical and Biophysical Research Communications, 2013, 438, 283-288.	2.1	26

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37	The RNA binding proteins RBM38 and DND1 are repressed in AML and have a novel function in APL differentiation. Leukemia Research, 2016, 41, 96-102.	0.8	26
38	Switching-On Survival and Repair Response Programs in Islet Transplants by Bone Marrowâ€“Derived Vasculogenic Cells. Diabetes, 2008, 57, 2402-2412.	0.6	25
39	PU.1 supports TRAIL-induced cell death by inhibiting NF-Î²B-mediated cell survival and inducing DR5 expression. Cell Death and Differentiation, 2017, 24, 866-877.	11.2	24
40	Structural Insights into the Mechanisms of Drug Resistance in HIV-1 Protease NL4-3. Journal of Molecular Biology, 2006, 356, 967-981.	4.2	22
41	Modulation of drug resistance by artificial transcription factors. Molecular Cancer Therapeutics, 2008, 7, 688-697.	4.1	22
42	Human DMTF1Î² antagonizes DMTF1Î± regulation of the p14ARF tumor suppressor and promotes cellular proliferation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 1198-1208.	1.9	22
43	Interactions of HIV-1 Capsid with Host Factors and Their Implications for Developing Novel Therapeutics. Viruses, 2021, 13, 417.	3.3	22
44	Hexokinase 3 enhances myeloid cell survival via non-glycolytic functions. Cell Death and Disease, 2022, 13, 448.	6.3	22
45	Rapid deep sequencing of patient-derived HIV with ion semiconductor technology. Journal of Virological Methods, 2013, 189, 232-234.	2.1	21
46	Altered Gag Polyprotein Cleavage Specificity of Feline Immunodeficiency Virus/Human Immunodeficiency Virus Mutant Proteases as Demonstrated in a Cell-Based Expression System. Journal of Virology, 2006, 80, 7832-7843.	3.4	19
47	CoVaMa: Co-Variation Mapper for disequilibrium analysis of mutant loci in viral populations using next-generation sequence data. Methods, 2015, 91, 40-47.	3.8	19
48	Identification of broad-based HIV-1 protease inhibitors from combinatorial libraries. Biochemical Journal, 2010, 429, 527-532.	3.7	18
49	Heat shock protein 90AB1 and hyperthermia rescue infectivity of HIV with defective cores. Virology, 2013, 436, 162-172.	2.4	18
50	The tumor suppressor gene DAPK2 is induced by the myeloid transcription factors PU.1 and C/EBPÂ during granulocytic differentiation but repressed by PML-RARÂ in APL. Journal of Leukocyte Biology, 2014, 95, 83-93.	3.3	18
51	Understanding the rules of the road: proteomic approaches to interrogate the blood brain barrier. Frontiers in Neuroscience, 2015, 9, 70.	2.8	18
52	Transcriptional regulation of MIR29B by PU.1 (SPI1) and MYC during neutrophil differentiation of acute promyelocytic leukaemia cells. British Journal of Haematology, 2012, 157, 270-274.	2.5	15
53	Induction of the autophagy-associated gene MAP1S via PU.1 supports APL differentiation. Leukemia Research, 2014, 38, 1041-1047.	0.8	15
54	Development of Lentiviral Vectors for HIV-1 Gene Therapy with Vif-Resistant APOBEC3G. Molecular Therapy - Nucleic Acids, 2019, 18, 1023-1038.	5.1	15

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55	MrHAMER yields highly accurate single molecule viral sequences enabling analysis of intra-host evolution. Nucleic Acids Research, 2021, 49, e70-e70.	14.5	15
56	Improved health and survival of FIV-infected cats is associated with the presence of autoantibodies to the primary receptor, CD134. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19980-19985.	7.1	14
57	Mice engrafted with human hematopoietic stem cells support a human myeloid cell inflammatory response in vivo. Wound Repair and Regeneration, 2016, 24, 1004-1014.	3.0	14
58	Combined Antiviral Therapy Using Designed Molecular Scaffolds Targeting Two Distinct Viral Functions, HIV-1 Genome Integration and Capsid Assembly. Molecular Therapy - Nucleic Acids, 2015, 4, e249.	5.1	13
59	A Cleavage Enzyme-Cytometric Bead Array Provides Biochemical Profiling of Resistance Mutations in HIV-1 Gag and Protease. Biochemistry, 2011, 50, 4371-4381.	2.5	12
60	Safety and Efficacy of a tCD25 Preselective Combination Anti-HIV Lentiviral Vector in Human Hematopoietic Stem and Progenitor Cells. Stem Cells, 2015, 33, 870-879.	3.2	10
61	CD46 Null Packaging Cell Line Improves Measles Lentiviral Vector Production and Gene Delivery to Hematopoietic Stem and Progenitor Cells. Molecular Therapy - Methods and Clinical Development, 2019, 13, 27-39.	4.1	10
62	Structural basis for drug and substrate specificity exhibited by FIV encoding a chimeric FIV/HIV protease. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 540-548.	2.5	9
63	BIRC6 (APOLLON) is down-regulated in acute myeloid leukemia and its knockdown attenuates neutrophil differentiation. Experimental Hematology and Oncology, 2012, 1, 25.	5.0	8
64	Low DICER1 expression is associated with attenuated neutrophil differentiation and autophagy of NB4 APL cells. Journal of Leukocyte Biology, 2015, 98, 357-363.	3.3	8
65	The Response to Burn Injury in Mice With Human Hematolymphoid Systems. Annals of Surgery, 2016, 263, 199-204.	4.2	8
66	Discrimination between Functional and Non-functional Cellular Gag Complexes involved in HIV-1 Assembly. Journal of Molecular Biology, 2021, 433, 166842.	4.2	8
67	Covariation of viral recombination with single nucleotide variants during virus evolution revealed by CoVaMa. Nucleic Acids Research, 2022, 50, e41-e41.	14.5	8
68	Generation of Infectious Feline Immunodeficiency Virus (FIV) Encoding FIV/Human Immunodeficiency Virus Chimeric Protease. Journal of Virology, 2010, 84, 6799-6809.	3.4	6
69	Role of the mammalian target of rapamycin pathway in lentiviral vector transduction of hematopoietic stem cells. Current Opinion in Hematology, 2015, 22, 302-308.	2.5	6
70	The actinâ€binding protein <scp>CORO</scp>1A is a novel <scp>PU</scp>.1 (<scp>SPI</scp>1)â€•and <scp>CEBPA</scp>â€•regulated gene with significantly lower expression in <scp>APL</scp> and <scp>CEBPA</scp>â€•mutated <scp>AML</scp> patients. British Journal of Haematology, 2013, 160, 855-859.	2.5	5
71	A specific protein disorder catalyzer of HIV-1 Nef. Bioorganic and Medicinal Chemistry, 2011, 19, 7401-7406.	3.0	4
72	Selective ablation of 3â€² RNA ends and processive RTs facilitate direct cDNA sequencing of full-length host cell and viral transcripts. Nucleic Acids Research, 2022, 50, e98-e98.	14.5	4

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73	Linking the SUMO protease SENP5 to neutrophil differentiation of AML cells. Leukemia Research Reports, 2015, 4, 32-35.	0.4	3
74	A Biochemical/Biophysical Assay Dyad for HTS-Compatible Triaging of Inhibitors of the HIV-1 Nef/Hck SH3 Interaction. Current Chemical Genomics and Translational Medicine, 2013, 7, 16-20.	4.3	3
75	Engineered Zinc Finger Protein Targeting 2LTR Inhibits HIV Integration in Hematopoietic Stem and Progenitor Cell-Derived Macrophages: In Vitro Study. International Journal of Molecular Sciences, 2022, 23, 2331.	4.1	3
76	An optimized measles virus glycoprotein-pseudotyped lentiviral vector production system to promote efficient transduction of human primary B cells. STAR Protocols, 2022, 3, 101228.	1.2	3
77	4. Î²-Deliverin: A Small Molecule for Improving Gene Transfer to Hematopoietic Stem Cells and Probing Mechanisms of Lentiviral Vector Restriction. Molecular Therapy, 2016, 24, S2-S3.	8.2	2
78	Erythropoiesis: an overview. , 2009, , 3-18.		2
79	Identification of PU.1 Target Genes That Are Dependent on Specific Functional Domains of the Transcription Factor PU.1.. Blood, 2006, 108, 1174-1174.	1.4	2
80	Hexokinase Proteins Impart Distinct Functions in Myeloid Development and Cell Death. Blood, 2018, 132, 5088-5088.	1.4	1
81	760. Overcoming Rhesus Macaque Endogenous Restriction Factors during HIV-1 Vector Transduction. Molecular Therapy, 2006, 13, S294.	8.2	0
82	Cellular Gag-Containing Complexes and HIV Assembly. Biophysical Journal, 2020, 118, 201a.	0.5	0
83	CD34+ Cell Derived Macrophages Are Protected from HIV-1 Challenge by Intrabody-Mediated Reduction of CCR5.. Blood, 2004, 104, 1756-1756.	1.4	0
84	Development of a Unique siRNA and Intrabody Combinatorial HIV-1 Vector to Knockdown CXCR4 and Protect Cells from HIV-1 Challenge.. Blood, 2004, 104, 1757-1757.	1.4	0
85	Lentiviral CCR5 Intrabody Gene Delivery Provides Protection and Enrichment during CCR5-Tropic Infection.. Blood, 2004, 104, 1755-1755.	1.4	0
86	Enhancing Neutrophil Differentiation - A Novel Role for the Death-Associated Protein Kinase 2 (DAPK2).. Blood, 2005, 106, 1348-1348.	1.4	0
87	Primary human immune response to dendritic cell inoculation in humanized mice. FASEB Journal, 2008, 22, 422-422.	0.5	0
88	The Anti-Apoptotic Gene BCL2A1 Is Transcriptionally Regulated by PU.1. Blood, 2008, 112, 3579-3579.	1.4	0
89	TREMâ€2, an innate immune receptor, is dependent on C/EBPalpha and PU.1 transcription factors during the differentiation of hematopoietic stem cells to macrophages. FASEB Journal, 2010, 24, 833.19.	0.5	0
90	A Novel PU.1 - Caspase 8/cFLIP Axis in Neutrophil and Macrophage Differentiation of AML Cells. Blood, 2018, 132, 1347-1347.	1.4	0