

Katherine L B Borden

List of Publications by Citations

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103
papers

6,358
citations

46
h-index

79
g-index

110
ext. papers

7,084
ext. citations

7.3
avg, IF

5.97
L-index

#	Paper	IF	Citations
103	Mechanisms and insights into drug resistance in cancer. <i>Frontiers in Pharmacology</i> , 2013 , 4, 28	5.6	380
102	RING domains: master builders of molecular scaffolds?. <i>Journal of Molecular Biology</i> , 2000 , 295, 1103-12	6.5	347
101	Pondering the promyelocytic leukemia protein (PML) puzzle: possible functions for PML nuclear bodies. <i>Molecular and Cellular Biology</i> , 2002 , 22, 5259-69	4.8	264
100	Molecular targeting of the oncogene eIF4E in acute myeloid leukemia (AML): a proof-of-principle clinical trial with ribavirin. <i>Blood</i> , 2009 , 114, 257-60	2.2	234
99	Ribavirin suppresses eIF4E-mediated oncogenic transformation by physical mimicry of the 7-methyl guanosine mRNA cap. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 18105-10	11.5	227
98	eIF4E is a central node of an RNA regulon that governs cellular proliferation. <i>Journal of Cell Biology</i> , 2006 , 175, 415-26	7.3	209
97	Phosphorylation of the eukaryotic translation initiation factor eIF4E contributes to its transformation and mRNA transport activities. <i>Cancer Research</i> , 2004 , 64, 8639-42	10.1	202
96	MALT1 small molecule inhibitors specifically suppress ABC-DLBCL in vitro and in vivo. <i>Cancer Cell</i> , 2012 , 22, 812-24	24.3	182
95	The Mdm2 RING domain C-terminus is required for supramolecular assembly and ubiquitin ligase activity. <i>EMBO Journal</i> , 2007 , 26, 90-101	13	162
94	Aberrant eukaryotic translation initiation factor 4E-dependent mRNA transport impedes hematopoietic differentiation and contributes to leukemogenesis. <i>Molecular and Cellular Biology</i> , 2003 , 23, 8992-9002	4.8	157
93	eIF4E promotes nuclear export of cyclin D1 mRNAs via an element in the 3'UTR. <i>Journal of Cell Biology</i> , 2005 , 169, 245-56	7.3	137
92	PU.1 expression is modulated by the balance of functional sense and antisense RNAs regulated by a shared cis-regulatory element. <i>Genes and Development</i> , 2008 , 22, 2085-92	12.6	136
91	An arenavirus RING (zinc-binding) protein binds the oncoprotein promyelocyte leukemia protein (PML) and relocates PML nuclear bodies to the cytoplasm. <i>Journal of Virology</i> , 1998 , 72, 758-66	6.6	135
90	The sonic hedgehog factor GLI1 imparts drug resistance through inducible glucuronidation. <i>Nature</i> , 2014 , 511, 90-3	50.4	129
89	Controlling gene expression through RNA regulons: the role of the eukaryotic translation initiation factor eIF4E. <i>Cell Cycle</i> , 2007 , 6, 65-9	4.7	121
88	The RING domains of the promyelocytic leukemia protein PML and the arenaviral protein Z repress translation by directly inhibiting translation initiation factor eIF4E. <i>Journal of Molecular Biology</i> , 2001 , 312, 609-23	6.5	121
87	The proline-rich homeodomain protein, PRH, is a tissue-specific inhibitor of eIF4E-dependent cyclin D1 mRNA transport and growth. <i>EMBO Journal</i> , 2003 , 22, 689-703	13	120

86	The lymphocytic choriomeningitis virus RING protein Z associates with eukaryotic initiation factor 4E and selectively represses translation in a RING-dependent manner. <i>Journal of Virology</i> , 2000 , 74, 3293-300	6.6	106
85	Control of biochemical reactions through supramolecular RING domain self-assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 15404-9	11.5	104
84	Molecular dissection of the eukaryotic initiation factor 4E (eIF4E) export-competent RNP. <i>EMBO Journal</i> , 2009 , 28, 1087-98	13	101
83	Two RING finger proteins, the oncoprotein PML and the arenavirus Z protein, colocalize with the nuclear fraction of the ribosomal P proteins. <i>Journal of Virology</i> , 1998 , 72, 3819-26	6.6	101
82	Ribavirin as an anti-cancer therapy: acute myeloid leukemia and beyond?. <i>Leukemia and Lymphoma</i> , 2010 , 51, 1805-15	1.9	96
81	Ribavirin treatment effects on breast cancers overexpressing eIF4E, a biomarker with prognostic specificity for luminal B-type breast cancer. <i>Clinical Cancer Research</i> , 2011 , 17, 2874-84	12.9	93
80	The oncogene eIF4E reprograms the nuclear pore complex to promote mRNA export and oncogenic transformation. <i>Cell Reports</i> , 2012 , 2, 207-15	10.6	92
79	Self-assembly properties of a model RING domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 667-72	11.5	88
78	The p53-associated protein MDM2 contains a newly characterized zinc-binding domain called the RING finger. <i>Trends in Biochemical Sciences</i> , 1994 , 19, 198-9	10.3	83
77	Regulation of p53 localization and activity by Ubc13. <i>Molecular and Cellular Biology</i> , 2006 , 26, 8901-13	4.8	80
76	Cap-free structure of eIF4E suggests a basis for conformational regulation by its ligands. <i>EMBO Journal</i> , 2006 , 25, 5138-49	13	79
75	Structure of the C-terminal RING finger from a RING-IBR-RING/TRIAD motif reveals a novel zinc-binding domain distinct from a RING. <i>Journal of Molecular Biology</i> , 2004 , 340, 1117-29	6.5	79
74	The Proline-Rich Homeodomain (PRH/HEX) Protein Is Down-Regulated in Liver during Infection with Lymphocytic Choriomeningitis Virus. <i>Journal of Virology</i> , 2008 , 82, 8954-8954	6.6	78
73	The eIF4E RNA regulon promotes the Akt signaling pathway. <i>Journal of Cell Biology</i> , 2008 , 181, 51-63	7.3	77
72	Eukaryotic translation initiation factor 4E activity is modulated by HOXA9 at multiple levels. <i>Molecular and Cellular Biology</i> , 2005 , 25, 1100-12	4.8	72
71	Stability of eukaryotic translation initiation factor 4E mRNA is regulated by HuR, and this activity is dysregulated in cancer. <i>Molecular and Cellular Biology</i> , 2009 , 29, 1152-62	4.8	71
70	Further evidence that ribavirin interacts with eIF4E. <i>Rna</i> , 2005 , 11, 1762-6	5.8	71
69	Role of the promyelocytic leukemia protein PML in the interferon sensitivity of lymphocytic choriomeningitis virus. <i>Journal of Virology</i> , 2001 , 75, 6204-8	6.6	69

68	The promyelocytic leukemia protein PML has a pro-apoptotic activity mediated through its RING domain. <i>FEBS Letters</i> , 1997 , 418, 30-4	3.8	67
67	eIF4E3 acts as a tumor suppressor by utilizing an atypical mode of methyl-7-guanosine cap recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3877-82	11.5	62
66	The oncogene eIF4E: using biochemical insights to target cancer. <i>Journal of Interferon and Cytokine Research</i> , 2013 , 33, 227-38	3.5	61
65	Structural characterization of the Z RING-eIF4E complex reveals a distinct mode of control for eIF4E. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5441-6	11.5	58
64	The promyelocytic leukemia protein PML interacts with the proline-rich homeodomain protein PRH: a RING may link hematopoiesis and growth control. <i>Oncogene</i> , 1999 , 18, 7091-100	9.2	56
63	A phase I trial of ribavirin and low-dose cytarabine for the treatment of relapsed and refractory acute myeloid leukemia with elevated eIF4E. <i>Haematologica</i> , 2015 , 100, e7-9	6.6	55
62	Combinatorial targeting of nuclear export and translation of RNA inhibits aggressive B-cell lymphomas. <i>Blood</i> , 2016 , 127, 858-68	2.2	54
61	Aiding and abetting cancer: mRNA export and the nuclear pore. <i>Trends in Cell Biology</i> , 2013 , 23, 328-35	18.3	52
60	Multiple Export Mechanisms for mRNAs. <i>Cells</i> , 2015 , 4, 452-73	7.9	50
59	Gamma interferon and cadmium treatments modulate eukaryotic initiation factor 4E-dependent mRNA transport of cyclin D1 in a PML-dependent manner. <i>Molecular and Cellular Biology</i> , 2002 , 22, 6183-98	4.8	50
58	Two fundamentally distinct PCNA interaction peptides contribute to chromatin assembly factor 1 function. <i>Molecular and Cellular Biology</i> , 2009 , 29, 6353-65	4.8	47
57	UV-C-induced DNA damage leads to p53-dependent nuclear trafficking of PML. <i>Oncogene</i> , 2003 , 22, 1620-8	9.8	46
56	A biochemical framework for eIF4E-dependent mRNA export and nuclear recycling of the export machinery. <i>Rna</i> , 2017 , 23, 927-937	5.8	44
55	Activation loop phosphorylation of ERK3/ERK4 by group I p21-activated kinases (PAKs) defines a novel PAK-ERK3/4-MAPK-activated protein kinase 5 signaling pathway. <i>Journal of Biological Chemistry</i> , 2011 , 286, 6470-8	5.4	44
54	RSK regulates activated BRAF signalling to mTORC1 and promotes melanoma growth. <i>Oncogene</i> , 2013 , 32, 2917-2926	9.2	43
53	Ribavirin targets eIF4E dependent Akt survival signaling. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 375, 341-5	3.4	42
52	Structural insights into the allosteric effects of 4EBP1 on the eukaryotic translation initiation factor eIF4E. <i>Journal of Molecular Biology</i> , 2012 , 415, 781-92	6.5	41
51	Control of p53 multimerization by Ubc13 is JNK-regulated. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 12676-81	11.5	38

50	The eukaryotic translation initiation factor eIF4E in the nucleus: taking the road less traveled. <i>Immunological Reviews</i> , 2015 , 263, 210-23	11.3	36
49	Physical mechanisms and biological significance of supramolecular protein self-assembly. <i>Current Protein and Peptide Science</i> , 2004 , 5, 125-34	2.8	36
48	Finding a role for PML in APL pathogenesis: a critical assessment of potential PML activities. <i>Leukemia</i> , 2002 , 16, 1906-17	10.7	31
47	Characterisation of a novel cysteine/histidine-rich metal binding domain from <i>Xenopus</i> nuclear factor XNF7. <i>FEBS Letters</i> , 1993 , 335, 255-60	3.8	31
46	Importin 8 mediates m7G cap-sensitive nuclear import of the eukaryotic translation initiation factor eIF4E. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5263-8	11.5	30
45	BRAF/MAPK and GSK3 signaling converges to control MITF nuclear export. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8668-E8677	11.5	28
44	Structural studies of the eIF4E-VPg complex reveal a direct competition for capped RNA: Implications for translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24056-24065	11.5	28
43	The proline-rich homeodomain (PRH/HEX) protein is down-regulated in liver during infection with lymphocytic choriomeningitis virus. <i>Journal of Virology</i> , 2005 , 79, 2461-73	6.6	28
42	Conformational changes induced in the eukaryotic translation initiation factor eIF4E by a clinically relevant inhibitor, ribavirin triphosphate. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 434, 614-9	3.4	25
41	The eukaryotic translation initiation factor eIF4E wears a "cap" for many occasions. <i>Translation</i> , 2016 , 4, e1220899		25
40	The eukaryotic translation initiation factor 4E (eIF4E) and HuR RNA operons collaboratively regulate the expression of survival and proliferative genes. <i>Cell Cycle</i> , 2009 , 8, 959-964	4.7	24
39	The structurally disordered KRAB repression domain is incorporated into a protease resistant core upon binding to KAP-1-RBCC domain. <i>Journal of Molecular Biology</i> , 2007 , 370, 269-89	6.5	20
38	Targeting the oncogene eIF4E in cancer: From the bench to clinical trials. <i>Clinical and Investigative Medicine</i> , 2011 , 34, E315	0.9	20
37	LIMD2 is a small LIM-only protein overexpressed in metastatic lesions that regulates cell motility and tumor progression by directly binding to and activating the integrin-linked kinase. <i>Cancer Research</i> , 2014 , 74, 1390-1403	10.1	19
36	Targeting EIF4E signaling with ribavirin in infant acute lymphoblastic leukemia. <i>Oncogene</i> , 2019 , 38, 2241-2262	11.5	19
35	An antiviral disulfide compound blocks interaction between arenavirus Z protein and cellular promyelocytic leukemia protein. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 625-30	3.4	18
34	Structure/function in neuroprotection and apoptosis. <i>Annals of Neurology</i> , 1998 , 44, S65-71	9.4	17
33	NMR assignment of the arenaviral protein Z from Lassa fever virus. <i>Biomolecular NMR Assignments</i> , 2008 , 2, 81-4	0.7	13

32	Molecular Pathways: GLI1-Induced Drug Glucuronidation in Resistant Cancer Cells. <i>Clinical Cancer Research</i> , 2015 , 21, 2207-10	12.9	12
31	Biochemical and Structural Insights into the Eukaryotic Translation Initiation Factor eIF4E. <i>Current Protein and Peptide Science</i> , 2019 , 20, 525-535	2.8	12
30	Determination of the orientations of tryptophan analogues bound to the trp repressor and the relationship to activation. <i>FEBS Journal</i> , 1991 , 202, 459-70		12
29	The Impact of Post-transcriptional Control: Better Living Through RNA Regulons. <i>Frontiers in Genetics</i> , 2018 , 9, 512	4.5	12
28	Nuclear eIF4E Stimulates 3SEnd Cleavage of Target RNAs. <i>Cell Reports</i> , 2019 , 27, 1397-1408.e4	10.6	11
27	The diversity, plasticity, and adaptability of cap-dependent translation initiation and the associated machinery. <i>RNA Biology</i> , 2020 , 17, 1239-1251	4.8	11
26	Sequence-specific NMR assignments of the trp repressor from Escherichia coli using three-dimensional 15N/1H heteronuclear techniques. <i>FEBS Journal</i> , 1992 , 204, 137-46		11
25	The yeast two-hybrid system and its pharmaceutical significance. <i>Pharmaceutical Research</i> , 2000 , 17, 1049-55	4.5	10
24	The Nuclear Pore Complex and mRNA Export in Cancer. <i>Cancers</i> , 2020 , 13,	6.6	10
23	The eukaryotic translation initiation factor eIF4E harnesses hyaluronan production to drive its malignant activity. <i>ELife</i> , 2017 , 6,	8.9	10
22	The eukaryotic translation initiation factor eIF4E elevates steady-state mG capping of coding and noncoding transcripts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26773-26783	11.5	10
21	Overcoming Drug Resistance through the Development of Selective Inhibitors of UDP-Glucuronosyltransferase Enzymes. <i>Journal of Molecular Biology</i> , 2019 , 431, 258-272	6.5	10
20	GLI1-Inducible Glucuronidation Targets a Broad Spectrum of Drugs. <i>ACS Chemical Biology</i> , 2019 , 14, 348-355	4.5	7
19	A mechanism of nucleocytoplasmic trafficking for the homeodomain protein PRH. <i>Molecular and Cellular Biochemistry</i> , 2009 , 332, 173-81	4.2	6
18	The Development of Novel Therapies for the Treatment of Acute Myeloid Leukemia (AML). <i>Cancers</i> , 2012 , 4, 1161-79	6.6	4
17	Identification and characterization of the interaction between the methyl-7-guanosine cap maturation enzyme RNMT and the cap-binding protein eIF4E.. <i>Journal of Molecular Biology</i> , 2022 , 167451	6.5	4
16	The Eukaryotic Translation Initiation Factor 4E (eIF4E) Has Oncogenic Functions and May Represent a New Therapeutic Target In Diffuse Large B Cell Lymphoma (DLBCL). <i>Blood</i> , 2013 , 122, 3785-3785	2.2	4
15	To cap it all off, again: dynamic capping and recapping of coding and non-coding RNAs to control transcript fate and biological activity. <i>Cell Cycle</i> , 2021 , 20, 1347-1360	4.7	4

14	When will resistance be futile?. <i>Cancer Research</i> , 2014 , 74, 7175-80	10.1	3
13	Chemical shift assignment of the viral protein genome-linked (VPg) from potato virus Y. <i>Biomolecular NMR Assignments</i> , 2019 , 13, 9-13	0.7	3
12	Cell biology. Puzzled by PML. <i>Science</i> , 2010 , 330, 1183-4	33.3	2
11	Tissue targeting in cancer: eIF4E's tale. <i>Clinical Cancer Research</i> , 2009 , 15, 4254-5	12.9	2
10	Ribavirin, an eIF4E Inhibitor, As a Potential Anti-Lymphoma Therapeutic - Preclinical and Early Clinical Data. <i>Blood</i> , 2016 , 128, 3045-3045	2.2	1
9	Backbone assignment of the apo-form of the human C-terminal domain of UDP-glucuronosyltransferase 1A (UGT1A). <i>Biomolecular NMR Assignments</i> , 2018 , 12, 315-318	0.7	1
8	CDK9 and mTOR: trading places. <i>Blood</i> , 2019 , 133, 1167-1168	2.2	0
7	H, C and N chemical shift assignments of the C-terminal domain of human UDP-Glucuronosyltransferase 2B7 (UGT2B7-C). <i>Biomolecular NMR Assignments</i> , 2021 , 15, 323-328	0.7	0
6	Sonic Hedgehog factor Gli1: As good as resistant. <i>Molecular and Cellular Oncology</i> , 2015 , 2, e961827	1.2	
5	Targeting the Oncogene eIF4E with Ribavirin: A Novel Therapeutic Avenue in Acute Myeloid Leukemia.. <i>Blood</i> , 2009 , 114, 2085-2085	2.2	
4	The Eukaryotic Translation Initiation Factor eIF4E, a Recently Identified Therapeutic Target In AML, Is a Direct Transcriptional Target of NFkB. <i>Blood</i> , 2010 , 116, 3146-3146	2.2	
3	Chemosensitization of Diffuse Large B Cell Lymphoma by Demethylating Nucleoside Analogues. <i>Blood</i> , 2011 , 118, 1617-1617	2.2	
2	A Phase I Combination Study of Ribavirin and Low Dose Cytarabine Arabinoside (ara-C) in M4/M5 Acute Myeloid Leukemia (AML) and AML with High eIF4E,. <i>Blood</i> , 2011 , 118, 3606-3606	2.2	
1	A New Form Of Therapeutic Resistance: Drug Glucuronidation Regulated By The Sonic Hedgehog Factor Gli1. <i>Blood</i> , 2013 , 122, 821-821	2.2	