Michael R Botchan

List of Publications by Citations

28 papers	8,282 citations	22 h-index	43 g-index
43 ext. papers	9,018 ext. citations	23.5 avg, IF	5.15 L-index

#	Paper	IF	Citations
28	The genome sequence of Drosophila melanogaster. *Science*, **2000**, 287, 2185-95	33.3	4857
27	Inhibition of SV40 replication in simian cells by specific pBR322 DNA sequences. *Nature*, **1981**, 293, 79-81	50.4	688
26	Isolation of the Cdc45/Mcm2-7/GINS (CMG) complex, a candidate for the eukaryotic DNA replication fork helicase. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 10236-10241	11.5	529
25	Association of the origin recognition complex with heterochromatin and HP1 in higher eukaryotes. *Cell*, **1997**, 91, 311-23	56.2	359
24	Activation of BPV-1 replication in vitro by the transcription factor E2. *Nature*, **1991**, 353, 628-32	50.4	277
23	The structural basis for MCM2-7 helicase activation by GINS and Cdc45. *Nature Structural and Molecular Biology*, **2011**, 18, 471-7	17.6	255
22	DNA topology, not DNA sequence, is a critical determinant for Drosophila ORC-DNA binding. *EMBO Journal*, **2004**, 23, 897-907	13	189
21	Expression of enhanced levels of small RNA polymerase III transcripts encoded by the B2 repeats in simian virus 40-transformed mouse cells. *Nature*, **1985**, 314, 553-6	50.4	139
20	Mechanisms for initiating cellular DNA replication. *Science*, **2017**, 355,	33.3	115
19	Distinct cytoplasmic and nuclear fractions of Drosophila heterochromatin protein 1: their phosphorylation levels and associations with origin recognition complex proteins. *Journal of Cell Biology*, **1998**, 142, 307-18	7.3	107
18	Mechanisms and regulation of DNA replication initiation in eukaryotes. *Critical Reviews in Biochemistry and Molecular Biology*, **2017**, 52, 107-144	8.7	93
17	CRISPR germline engineering--the community speaks. *Nature Biotechnology*, **2015**, 33, 478-86	44.5	91
16	Crystal structure of the eukaryotic origin recognition complex. *Nature*, **2015**, 519, 321-6	50.4	90
15	DNA binding polarity, dimerization, and ATPase ring remodeling in the CMG helicase of the eukaryotic replisome. *ELife*, **2014**, 3, e03273	8.9	89
14	Cdc45 (cell division cycle protein 45) guards the gate of the Eukaryote Replisome helicase stabilizing leading strand engagement. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E249-58	11.5	64
13	Crystal structure of the human papillomavirus type 18 E2 activation domain. *Science*, **1999**, 284, 1673-7	33.3	64
12	ATP-dependent conformational dynamics underlie the functional asymmetry of the replicative helicase from a minimalist eukaryote. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11999-2004	11.5	57

List of Publications

11	A new class of disordered elements controls DNA replication through initiator self-assembly. *ELife*, **2019**, 8,	8.9	46
10	A Meier-Gorlin syndrome mutation in a conserved C-terminal helix of Orc6 impedes origin recognition complex formation. *ELife*, **2013**, 2, e00882	8.9	37
9	Molecular Basis for ATP-Hydrolysis-Driven DNA Translocation by the CMG Helicase of the Eukaryotic Replisome. *Cell Reports*, **2019**, 28, 2673-2688.e8	10.6	32
8	CDK phosphorylation inhibits the DNA-binding and ATP-hydrolysis activities of the Drosophila origin recognition complex. *Journal of Biological Chemistry*, **2005**, 280, 39740-51	5.4	27
7	Conformational control and DNA-binding mechanism of the metazoan origin recognition complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E5906-E5915	11.5	25
6	Hitchhiking without covalent integration. *Cell*, **2004**, 117, 280-1	56.2	19
5	DNA replication: making two forks from one prereplication complex. *Molecular Cell*, **2010**, 40, 860-1	17.6	18
4	Chromatin reader L(3)mbt requires the Myb-MuvB/DREAM transcriptional regulatory complex for chromosomal recruitment. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4234-43	11.5	9
3	Structural Mechanisms for Replicating DNA in Eukaryotes. *Annual Review of Biochemistry*, **2021**, 90, 77-106	29.1	3
2	Molecular determinants of phase separation for DNA replication licensing factors.. *ELife*, **2021**, 10,	8.9	2
1	A new class of disordered elements controls DNA replication through initiator self-assembly		1