

Michael R Botchan

List of Publications by Year in descending order

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27
papers

9,689
citations

304743

22
h-index

526287

27
g-index

43
all docs

43
docs citations

43
times ranked

9161
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genome Sequence of <i>Drosophila melanogaster</i> . <i>Science</i> , 2000, 287, 2185-2195.	12.6	5,566
2	Inhibition of SV40 replication in simian cells by specific pBR322 DNA sequences. <i>Nature</i> , 1981, 293, 79-81.	27.8	769
3	Isolation of the Cdc45/Mcm2-7/GINS (CMG) complex, a candidate for the eukaryotic DNA replication fork helicase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10236-10241.	7.1	615
4	Association of the Origin Recognition Complex with Heterochromatin and HP1 in Higher Eukaryotes. <i>Cell</i> , 1997, 91, 311-323.	28.9	388
5	Activation of BPV-1 replication in vitro by the transcription factor E2. <i>Nature</i> , 1991, 353, 628-632.	27.8	355
6	The structural basis for MCM2-7 helicase activation by GINS and Cdc45. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 471-477.	8.2	290
7	DNA topology, not DNA sequence, is a critical determinant for <i>Drosophila</i> ORC-DNA binding. <i>EMBO Journal</i> , 2004, 23, 897-907.	7.8	221
8	Mechanisms for initiating cellular DNA replication. <i>Science</i> , 2017, 355, .	12.6	171
9	Expression of enhanced levels of small RNA polymerase III transcripts encoded by the B2 repeats in simian virus 40-transformed mouse cells. <i>Nature</i> , 1985, 314, 553-556.	27.8	149
10	Mechanisms and regulation of DNA replication initiation in eukaryotes. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2017, 52, 107-144.	5.2	140
11	Distinct Cytoplasmic and Nuclear Fractions of <i>Drosophila</i> Heterochromatin Protein 1: Their Phosphorylation Levels and Associations with Origin Recognition Complex Proteins. <i>Journal of Cell Biology</i> , 1998, 142, 307-318.	5.2	115
12	CRISPR germline engineering—the community speaks. <i>Nature Biotechnology</i> , 2015, 33, 478-486.	17.5	110
13	Crystal structure of the eukaryotic origin recognition complex. <i>Nature</i> , 2015, 519, 321-326.	27.8	109
14	DNA binding polarity, dimerization, and ATPase ring remodeling in the CMG helicase of the eukaryotic replisome. <i>ELife</i> , 2014, 3, e03273.	6.0	103
15	A new class of disordered elements controls DNA replication through initiator self-assembly. <i>ELife</i> , 2019, 8, .	6.0	92
16	Cdc45 (cell division cycle protein 45) guards the gate of the Eukaryote Replisome helicase stabilizing leading strand engagement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E249-58.	7.1	78
17	Molecular Basis for ATP-Hydrolysis-Driven DNA Translocation by the CMG Helicase of the Eukaryotic Replisome. <i>Cell Reports</i> , 2019, 28, 2673-2688.e8.	6.4	74
18	Crystal Structure of the Human Papillomavirus Type 18 E2 Activation Domain. <i>Science</i> , 1999, 284, 1673-1677.	12.6	67

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19	ATP-dependent conformational dynamics underlie the functional asymmetry of the replicative helicase from a minimalist eukaryote. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11999-12004.	7.1	65
20	A Meier-Gorlin syndrome mutation in a conserved C-terminal helix of Orc6 impedes origin recognition complex formation. <i>ELife</i> , 2013, 2, e00882.	6.0	45
21	Conformational control and DNA-binding mechanism of the metazoan origin recognition complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5906-E5915.	7.1	34
22	CDK Phosphorylation Inhibits the DNA-binding and ATP-hydrolysis Activities of the <i>Drosophila</i> Origin Recognition Complex. <i>Journal of Biological Chemistry</i> , 2005, 280, 39740-39751.	3.4	32
23	Structural Mechanisms for Replicating DNA in Eukaryotes. <i>Annual Review of Biochemistry</i> , 2021, 90, 77-106.	11.1	29
24	DNA Replication: Making Two Forks from One Prereplication Complex. <i>Molecular Cell</i> , 2010, 40, 860-861.	9.7	21
25	Hitchhiking without Covalent Integration. <i>Cell</i> , 2004, 117, 280-281.	28.9	20
26	Chromatin reader L(3)mbt requires the Myb/MuvB/DREAM transcriptional regulatory complex for chromosomal recruitment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4234-43.	7.1	17
27	Molecular determinants of phase separation for <i>Drosophila</i> DNA replication licensing factors. <i>ELife</i> , 2021, 10, .	6.0	11