Miguel G Blanco

List of Publications by Year
in descending order

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28 papers	1,914 citations	516710 16 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	2853 citing authors

#	Article	IF	Citations
1	Identification of Holliday junction resolvases from humans and yeast. Nature, 2008, 456, 357-361.	27.8	345
2	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. Nature Genetics, 2020, 52, 306-319.	21.4	275
3	Regulatory Control of the Resolution of DNA Recombination Intermediates during Meiosis and Mitosis. Cell, 2011, 147, 158-172.	28.9	263
4	Mechanism of Holliday junction resolution by the human GEN1 protein. Genes and Development, 2010, 24, 1559-1569.	5.9	128
5	RNA-dependent chromatin targeting of TET2 for endogenous retrovirus control in pluripotent stem cells. Nature Genetics, 2018, 50, 443-451.	21.4	122
6	Dual Control of Yen1 Nuclease Activity and Cellular Localization by Cdk and Cdc14 Prevents Genome Instability. Molecular Cell, 2014, 54, 94-106.	9.7	108
7	A Mechanism for Controlled Breakage of Under-replicated Chromosomes during Mitosis. Developmental Cell, 2016, 39, 740-755.	7.0	105
8	Resolution of Recombination Intermediates: Mechanisms and Regulation. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 103-109.	1.1	95
9	Functional overlap between the structure-specific nucleases Yen1 and Mus81-Mms4 for DNA-damage repair in S. cerevisiae. DNA Repair, 2010, 9, 394-402.	2.8	86
10	Cell-Cycle Kinases Coordinate the Resolution of Recombination Intermediates with Chromosome Segregation. Cell Reports, 2013, 4, 76-86.	6.4	77
11	Distinct Roles of Mus81, Yen1, Slx1-Slx4, and Rad1 Nucleases in the Repair of Replication-Born Double-Strand Breaks by Sister Chromatid Exchange. Molecular and Cellular Biology, 2012, 32, 1592-1603.	2.3	58
12	Dbf4â€dependent kinase and the Rtt107 scaffold promote Mus81â€Mms4 resolvase activation during mitosis. EMBO Journal, 2017, 36, 664-678.	7.8	55
13	Hold your horSSEs: controlling structure-selective endonucleases MUS81 and Yen1/GEN1. Frontiers in Genetics, 2015, 6, 253.	2.3	27
14	Aberrant integration of Hepatitis B virus DNA promotes major restructuring of human hepatocellular carcinoma genome architecture. Nature Communications, 2021, 12, 6910.	12.8	27
15	Regulated Crossing-Over Requires Inactivation of Yen1/GEN1 Resolvase during Meiotic Prophase I. Developmental Cell, 2018, 45, 785-800.e6.	7.0	26
16	Inhibition of DNA synthesis by K+-stabilised G-quadruplex promotes allelic preferential amplification. FEBS Letters, 2004, 571, 112-118.	2.8	24
17	ADAR1-Dependent RNA Editing Promotes MET and iPSC Reprogramming by Alleviating ER Stress. Cell Stem Cell, 2020, 27, 300-314.e11.	11.1	22
18	Effect of monovalent cations and Gâ€quadruplex structures on the outcome of intramolecular homologous recombination. FEBS Journal, 2009, 276, 2983-2993.	4.7	12

#	Article	IF	Citations
19	Recombination Analysis of the Human Minisatellite MsH42 Suggests the Existence of Two Distinct Pathways for Initiation and Resolution of Recombination at MsH42 in Rat Testes Nuclear Extractsâ€. Biochemistry, 2002, 41, 2166-2176.	2.5	9
20	Birth and Evolutionary History of a Human Minisatellite. Molecular Biology and Evolution, 2003, 21, 228-235.	8.9	8
21	A Paradox in the in Vitro End-joining Assays. Journal of Biological Chemistry, 2004, 279, 26797-26801.	3.4	8
22	Exo1 phosphorylation inhibits exonuclease activity and prevents fork collapse in rad53 mutants independently of the 14-3-3 proteins. Nucleic Acids Research, 2020, 48, 3053-3070.	14.5	8
23	Heteroduplex analysis of minisatellite variability. Electrophoresis, 2005, 26, 4304-4309.	2.4	7
24	Evolution of a complex minisatellite DNA sequence. Molecular Phylogenetics and Evolution, 2008, 49, 488-494.	2.7	5
25	Generation of DNA Double-strand Breaks by Two Independent Enzymatic Activities in Nuclear Extracts. Journal of Molecular Biology, 2005, 351, 995-1006.	4.2	4
26	Canonical and novel non-canonical activities of the Holliday junction resolvase Yen1. Nucleic Acids Research, 2022, 50, 259-280.	14.5	4
27	DNA end-joining driven by microhomologies catalyzed by nuclear extracts. Biological Chemistry, 2006, 387, 263-7.	2.5	3
28	Holliday Junction Resolution. Methods in Molecular Biology, 2021, 2153, 169-185.	0.9	3