Eric Alani

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4794986/publications.pdf

Version: 2024-02-01

76326 102487 4,940 73 40 66 citations h-index g-index papers 79 79 79 3447 docs citations citing authors all docs times ranked

#	Article	IF	CITATIONS
1	Expanded roles for the MutL family of DNA mismatch repair proteins. Yeast, 2021, 38, 39-53.	1.7	16
2	Collaborations between chromatin and nuclear architecture to optimize DNA repair fidelity. DNA Repair, 2021, 97, 103018.	2.8	4
3	Coordinated and Independent Roles for MLH Subunits in DNA Repair. Cells, 2021, 10, 948.	4.1	17
4	Experimental exchange of paralogous domains in the MLH family provides evidence of sub-functionalization after gene duplication. G3: Genes, Genomes, Genetics, $2021,11,11$	1.8	2
5	Handcuffing intrinsically disordered regions in Mlh1–Pms1 disrupts mismatch repair. Nucleic Acids Research, 2021, 49, 9327-9341.	14.5	5
6	Hundreds of thousands of cell generations reveal a treasure chest of genome alterations. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31567-31569.	7.1	0
7	Intrinsically disordered regions regulate both catalytic and non-catalytic activities of the MutLα mismatch repair complex. Nucleic Acids Research, 2019, 47, 1823-1835.	14.5	24
8	Baker's Yeast Clinical Isolates Provide a Model for How Pathogenic Yeasts Adapt to Stress. Trends in Genetics, 2019, 35, 804-817.	6.7	13
9	A mutation in the endonuclease domain of mouse MLH3 reveals novel roles for MutLÎ ³ during crossover formation in meiotic prophase I. PLoS Genetics, 2019, 15, e1008177.	3.5	25
10	Chromatin Modifiers Alter Recombination Between Divergent DNA Sequences. Genetics, 2019, 212, 1147-1162.	2.9	7
11	Genomic Instability Promoted by Overexpression of Mismatch Repair Factors in Yeast: A Model for Understanding Cancer Progression. Genetics, 2018, 209, 439-456.	2.9	34
12	Incompatibilities in Mismatch Repair Genes <i>MLH1-PMS1</i> Contribute to a Wide Range of Mutation Rates in Human Isolates of Baker's Yeast. Genetics, 2018, 210, 1253-1266.	2.9	17
13	DNA replication and mismatch repair safeguard against metabolic imbalances. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5561-5563.	7.1	6
14	Mismatch Repair Incompatibilities in Diverse Yeast Populations. Genetics, 2017, 205, 1459-1471.	2.9	22
15	mlh3 mutations in baker's yeast alter meiotic recombination outcomes by increasing noncrossover events genome-wide. PLoS Genetics, 2017, 13, e1006974.	3. 5	32
16	The mismatch repair and meiotic recombination endonuclease Mlh1-Mlh3 is activated by polymer formation and can cleave DNA substrates in trans. PLoS Biology, 2017, 15, e2001164.	5.6	63
17	Understanding how mismatch repair proteins participate in the repair/anti-recombination decision. FEMS Yeast Research, 2016, 16, fow071.	2.3	7 3
18	A Delicate Balance Between Repair and Replication Factors Regulates Recombination Between Divergent DNA Sequences in <i>Saccharomyces cerevisiae</i> . Genetics, 2016, 202, 525-540.	2.9	31

#	Article	IF	Citations
19	Roles for mismatch repair family proteins in promoting meiotic crossing over. DNA Repair, 2016, 38, 84-93.	2.8	96
20	High-Throughput Universal DNA Curtain Arrays for Single-Molecule Fluorescence Imaging. Langmuir, 2015, 31, 10310-10317.	3.5	59
21	Mlh1-Mlh3, a Meiotic Crossover and DNA Mismatch Repair Factor, Is a Msh2-Msh3-stimulated Endonuclease. Journal of Biological Chemistry, 2014, 289, 5664-5673.	3.4	124
22	Genetic Analysis of mlh3 Mutations Reveals Interactions Between Crossover Promoting Factors During Meiosis in Baker's Yeast. G3: Genes, Genomes, Genetics, 2013, 3, 9-22.	1.8	30
23	Evolutionary Rate Covariation in Meiotic Proteins Results from Fluctuating Evolutionary Pressure in Yeasts and Mammals. Genetics, 2013, 193, 529-538.	2.9	34
24	Pch2 is a meiotic hexameric ATPase that binds to and alters Hop1 functions. FASEB Journal, 2013, 27, 973.1.	0.5	0
25	Evolutionary rate covariation reveals shared functionality and coexpression of genes. Genome Research, 2012, 22, 714-720.	5.5	89
26	The Unstructured Linker Arms of Mlh1–Pms1 Are Important for Interactions with DNA during Mismatch Repair. Journal of Molecular Biology, 2012, 422, 192-203.	4.2	30
27	Mutation Hot Spots in Yeast Caused by Long-Range Clustering of Homopolymeric Sequences. Cell Reports, 2012, 1, 36-42.	6.4	28
28	Multiple cellular mechanisms prevent chromosomal rearrangements involving repetitive DNA. Critical Reviews in Biochemistry and Molecular Biology, 2012, 47, 297-313.	5.2	53
29	Multiple Factors Insulate Msh2–Msh6 Mismatch Repair Activity from Defects in Msh2 Domain I. Journal of Molecular Biology, 2011, 411, 765-780.	4.2	19
30	The DNA damage checkpoint allows recombination between divergent DNA sequences in budding yeast. DNA Repair, 2011, 10, 1086-1094.	2.8	1
31	Sustained and Rapid Chromosome Movements Are Critical for Chromosome Pairing and Meiotic Progression in Budding Yeast. Genetics, 2011, 188, 21-32.	2.9	43
32	Visualizing one-dimensional diffusion of eukaryotic DNA repair factors along a chromatin lattice. Nature Structural and Molecular Biology, 2010, 17, 932-938.	8.2	175
33	The Baker's Yeast Diploid Genome Is Remarkably Stable in Vegetative Growth and Meiosis. PLoS Genetics, 2010, 6, e1001109.	3.5	89
34	Detection of Heterozygous Mutations in the Genome of Mismatch Repair Defective Diploid Yeast Using a Bayesian Approach. Genetics, 2010, 186, 493-503.	2.9	23
35	Genetic Analysis of Baker's Yeast Msh4-Msh5 Reveals a Threshold Crossover Level for Meiotic Viability. PLoS Genetics, 2010, 6, e1001083.	3.5	68
36	The pch2î" Mutation in Baker's Yeast Alters Meiotic Crossover Levels and Confers a Defect in Crossover Interference. PLoS Genetics, 2009, 5, e1000571.	3.5	63

#	Article	IF	Citations
37	A tale of tails: insights into the coordination of 3′ end processing during homologous recombination. BioEssays, 2009, 31, 315-321.	2.5	73
38	Genomic mutation rates: what highâ€throughput methods can tell us. BioEssays, 2009, 31, 912-920.	2.5	46
39	Mutants Defective in Rad1-Rad10-Slx4 Exhibit a Unique Pattern of Viability During Mating-Type Switching in Saccharomyces cerevisiae. Genetics, 2008, 179, 1807-1821.	2.9	34
40	A Mutation in the Putative MLH3 Endonuclease Domain Confers a Defect in Both Mismatch Repair and Meiosis in <i>Saccharomyces cerevisiae</i> <ir> <ir> i> A Mutation in the Putative MLH3 Endonuclease Domain Confers a Defect in Both Mismatch Repair and Meiosis in i> Saccharomyces cerevisiae (i) . Genetics . 2008 . 179 . 747-755 . 747-755</ir></ir>	2.9	120
41	Identification and Dissection of a Complex DNA Repair Sensitivity Phenotype in Baker's Yeast. PLoS Genetics, 2008, 4, e1000123.	3.5	66
42	Csm4, in Collaboration with Ndj1, Mediates Telomere-Led Chromosome Dynamics and Recombination during Yeast Meiosis. PLoS Genetics, 2008, 4, e1000188.	3.5	117
43	Incompatibilities Involving Yeast Mismatch Repair Genes: A Role for Genetic Modifiers and Implications for Disease Penetrance and Variation in Genomic Mutation Rates. PLoS Genetics, 2008, 4, e1000103.	3.5	38
44	The effect of genetic background on the function of Saccharomyces cerevisiae mlh1 alleles that correspond to HNPCC missense mutations. Human Molecular Genetics, 2007, 16, 445-452.	2.9	36
45	Saccharomyces cerevisiae MSH2–MSH3 and MSH2–MSH6 Complexes Display Distinct Requirements for DNA Binding Domain I in Mismatch Recognition. Journal of Molecular Biology, 2007, 366, 53-66.	4.2	46
46	Dynamic Basis for One-Dimensional DNA Scanning by the Mismatch Repair Complex Msh2-Msh6. Molecular Cell, 2007, 28, 359-370.	9.7	215
47	Analysis of Interactions Between Mismatch Repair Initiation Factors and the Replication Processivity Factor PCNA. Journal of Molecular Biology, 2006, 355, 175-184.	4.2	77
48	Mismatch Repair Factor MSH2-MSH3 Binds and Alters the Conformation of Branched DNA Structures Predicted to form During Genetic Recombination. Journal of Molecular Biology, 2006, 360, 523-536.	4.2	78
49	Accumulation of Recessive Lethal Mutations in Saccharomyces cerevisiae mlh1 Mismatch Repair Mutants Is Not Associated With Gross Chromosomal Rearrangements. Genetics, 2006, 174, 519-523.	2.9	11
50	Negative epistasis between natural variants of the Saccharomyces cerevisiae MLH1 and PMS1 genes results in a defect in mismatch repair. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3256-3261.	7.1	76
51	Detection of High-Affinity and Sliding Clamp Modes for MSH2-MSH6 by Single-Molecule Unzipping Force Analysis. Molecular Cell, 2005, 20, 771-781.	9.7	53
52	Distinct Roles for the Saccharomyces cerevisiae Mismatch Repair Proteins in Heteroduplex Rejection, Mismatch Repair and Nonhomologous Tail Removal. Genetics, 2005, 169, 563-574.	2.9	77
53	Heteroduplex rejection during single-strand annealing requires Sgs1 helicase and mismatch repair proteins Msh2 and Msh6 but not Pms1. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9315-9320.	7.1	187
54	Competing Crossover Pathways Act During Meiosis in Saccharomyces cerevisiae. Genetics, 2004, 168, 1805-1816.	2.9	156

#	Article	IF	CITATIONS
55	Chromatin Immunoprecipitation to Investigate Protein–DNA Interactions During Genetic Recombination. , 2004, 262, 223-238.		8
56	DNA bending and unbending by MutS govern mismatch recognition and specificity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14822-14827.	7.1	170
57	msh2 Separation of Function Mutations Confer Defects in the Initiation Steps of Mismatch Repair. Journal of Molecular Biology, 2003, 331, 123-138.	4.2	41
58	Systematic Mutagenesis of the <i>Saccharomyces cerevisiae MLH1</i> Gene Reveals Distinct Roles for Mlh1p in Meiotic Crossing Over and in Vegetative and Meiotic Mismatch Repair. Molecular and Cellular Biology, 2003, 23, 873-886.	2.3	80
59	Crystal Structure and Biochemical Analysis of the MutS·ADP·Beryllium Fluoride Complex Suggests a Conserved Mechanism for ATP Interactions in Mismatch Repair. Journal of Biological Chemistry, 2003, 278, 16088-16094.	3.4	47
60	Analysis of Conditional Mutations in the <i>Saccharomyces cerevisiae MLH1</i> Gene in Mismatch Repair and in Meiotic Crossing Over. Genetics, 2002, 160, 909-921.	2.9	35
61	MSH-MLH complexes formed at a DNA mismatch are disrupted by the PCNA sliding clamp. Journal of Molecular Biology, 2001, 306, 957-968.	4.2	71
62	Identification of rad27 Mutations That Confer Differential Defects in Mutation Avoidance, Repeat Tract Instability, and Flap Cleavage. Molecular and Cellular Biology, 2001, 21, 4889-4899.	2.3	60
63	Roles for Mismatch Repair Factors in Regulating Genetic Recombination. Molecular and Cellular Biology, 2000, 20, 7839-7844.	2.3	97
64	Analysis of yeast MSH2-MSH6 suggests that the initiation of mismatch repair can be separated into discrete steps 1 1Edited by M. Gottesman. Journal of Molecular Biology, 2000, 302, 327-338.	4.2	40
65	The Saccharomyces cerevisiae Msh2 Mismatch Repair Protein Localizes to Recombination Intermediates In Vivo. Molecular Cell, 2000, 5, 789-799.	9.7	97
66	<i>EXO1</i> and <i>MSH6</i> Are High-Copy Suppressors of Conditional Mutations in the <i>MSH2</i> Mismatch Repair Gene of <i>Saccharomyces cerevisiae</i> Genetics, 2000, 155, 589-599.	2.9	65
67	A Mutation in the MSH6 Subunit of the Saccharomyces cerevisiae MSH2-MSH6 Complex Disrupts Mismatch Recognition. Journal of Biological Chemistry, 1999, 274, 16115-16125.	3.4	89
68	Separation-of-Function Mutations in <i>Saccharomyces cerevisiae MSH2</i> That Confer Mismatch Repair Defects but Do Not Affect Nonhomologous-Tail Removal during Recombination. Molecular and Cellular Biology, 1999, 19, 7558-7567.	2.3	66
69	Characterization of the Repeat-Tract Instability and Mutator Phenotypes Conferred by a Tn3 Insertion in RFC1, the Large Subunit of the Yeast Clamp Loader. Genetics, 1999, 151, 499-509.	2.9	43
70	<i>Saccharomyces cerevisiae</i> Msh2p and Msh6p ATPase Activities Are Both Required during Mismatch Repair. Molecular and Cellular Biology, 1998, 18, 7590-7601.	2.3	88
71	Saccharomyces cerevisiae MSH2, a mispaired base recognition protein, also recognizes Holliday junctions in DNA. Journal of Molecular Biology, 1997, 265, 289-301.	4.2	94
72	A pathway for generation and processing of double-strand breaks during meiotic recombination in S. cerevisiae. Cell, 1990, 61, 1089-1101.	28.9	774

#	Article	lF	CITATIONS
73	A New Type of Fusion Analysis Applicable to Many Organisms: Protein Fusions to the <i>URA3</i> Gene of Yeast. Genetics, 1987, 117, 5-12.	2.9	46