

Karen Usdin

List of Publications by Year in descending order

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80
papers

3,412
citations

109321

35
h-index

155660

55
g-index

80
all docs

80
docs citations

80
times ranked

2842
citing authors

#	ARTICLE	IF	CITATIONS
1	Stool is a sensitive and noninvasive source of DNA for monitoring expansion in repeat expansion disease mouse models. <i>DMM Disease Models and Mechanisms</i> , 2022, 15, .	2.4	1
2	Both cis and trans-acting genetic factors drive somatic instability in female carriers of the FMR1 premutation. <i>Scientific Reports</i> , 2022, 12, .	3.3	11
3	Modifiers of Somatic Repeat Instability in Mouse Models of Friedreich Ataxia and the Fragile X-Related Disorders: Implications for the Mechanism of Somatic Expansion in Huntington's Disease. <i>Journal of Huntington's Disease</i> , 2021, 10, 149-163.	1.9	15
4	Editorial: Proceedings of the "Fourth International Conference of the FMR1 Premutation: Basic Mechanisms, Clinical Involvement and Therapy". <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 671875.	3.5	0
5	(Dys)function Follows Form: Nucleic Acid Structure, Repeat Expansion, and Disease Pathology in FMR1 Disorders. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9167.	4.1	11
6	Common Threads: Aphidicolin-Inducible and Folate-Sensitive Fragile Sites in the Human Genome. <i>Frontiers in Genetics</i> , 2021, 12, 708860.	2.3	9
7	FAN1's protection against CGG repeat expansion requires its nuclease activity and is FANCD2-independent. <i>Nucleic Acids Research</i> , 2021, 49, 11643-11652.	14.5	9
8	Mechanisms of Genome Instability in the Fragile X-Related Disorders. <i>Genes</i> , 2021, 12, 1633.	2.4	6
9	Repeat expansions confer WRN dependence in microsatellite-unstable cancers. <i>Nature</i> , 2020, 586, 292-298.	27.8	95
10	CGG Repeat Expansion, and Elevated Fmr1 Transcription and Mitochondrial Copy Number in a New Fragile X PM Mouse Embryonic Stem Cell Model. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 482.	3.7	4
11	All three mammalian MutL complexes are required for repeat expansion in a mouse cell model of the Fragile X-related disorders. <i>PLoS Genetics</i> , 2020, 16, e1008902.	3.5	33
12	A point mutation in the nuclease domain of MLH3 eliminates repeat expansions in a mouse stem cell model of the Fragile X-related disorders. <i>Nucleic Acids Research</i> , 2020, 48, 7856-7863.	14.5	19
13	Molecular analysis of FMR1 alleles for fragile X syndrome diagnosis and patient stratification. <i>Expert Review of Molecular Diagnostics</i> , 2020, 20, 363-365.	3.1	8
14	Small Molecules Targeting H3K9 Methylation Prevent Silencing of Reactivated FMR1 Alleles in Fragile X Syndrome Patient Derived Cells. <i>Genes</i> , 2020, 11, 356.	2.4	12
15	Isolation and Analysis of the CGG-Repeat Size in Male and Female Gametes from a Fragile X Mouse Model. <i>Methods in Molecular Biology</i> , 2020, 2056, 173-186.	0.9	5
16	Fragile X syndrome in a male with methylated premutation alleles and no detectable methylated full mutation alleles. <i>American Journal of Medical Genetics, Part A</i> , 2019, 179, 2132-2137.	1.2	7
17	Epigenetic dysregulation in the fragile X-related disorders. , 2019, , 261-283.		0
18	Assays for Determining Repeat Number, Methylation Status, and AGG Interruptions in the Fragile X-Related Disorders. <i>Methods in Molecular Biology</i> , 2019, 1942, 49-59.	0.9	2

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19	Repeat Instability in the Fragile X-Related Disorders: Lessons from a Mouse Model. <i>Brain Sciences</i> , 2019, 9, 52.	2.3	19
20	Pharmacological Reactivation of the Silenced FMR1 Gene as a Targeted Therapeutic Approach for Fragile X Syndrome. <i>Brain Sciences</i> , 2019, 9, 39.	2.3	10
21	Double-strand break repair plays a role in repeat instability in a fragile X mouse model. <i>DNA Repair</i> , 2019, 74, 63-69.	2.8	18
22	Timing of Expansion of Fragile X Premutation Alleles During Intergenerational Transmission in a Mouse Model of the Fragile X-Related Disorders. <i>Frontiers in Genetics</i> , 2018, 9, 314.	2.3	24
23	MutL ³ promotes repeat expansion in a Fragile X mouse model while EXO1 is protective. <i>PLoS Genetics</i> , 2018, 14, e1007719.	3.5	43
24	FAN1 protects against repeat expansions in a Fragile X mouse model. <i>DNA Repair</i> , 2018, 69, 1-5.	2.8	50
25	Improved Assays for AGG Interruptions in Fragile X Premutation Carriers. <i>Journal of Molecular Diagnostics</i> , 2017, 19, 828-835.	2.8	10
26	Recent advances in assays for the fragile X-related disorders. <i>Human Genetics</i> , 2017, 136, 1313-1327.	3.8	16
27	Mechanisms of Repeat Instability in Fragile X Syndrome. , 2017, , 77-102.		0
28	Ups and Downs: Mechanisms of Repeat Instability in the Fragile X-Related Disorders. <i>Genes</i> , 2016, 7, 70.	2.4	16
29	A MutS ² -Dependent Contribution of MutS [±] to Repeat Expansions in Fragile X Premutation Mice?. <i>PLoS Genetics</i> , 2016, 12, e1006190.	3.5	44
30	Sustained expression of FMR1 mRNA from reactivated fragile X syndrome alleles after treatment with small molecules that prevent trimethylation of H3K27. <i>Human Molecular Genetics</i> , 2016, 25, 3689-3698.	2.9	38
31	CGG-repeat dynamics and FMR1 gene silencing in fragile X syndrome stem cells and stem cell-derived neurons. <i>Molecular Autism</i> , 2016, 7, 42.	4.9	47
32	Model Systems for Understanding FXPOI. , 2016, , 225-240.		0
33	A Set of Assays for the Comprehensive Analysis of FMR1 Alleles in the Fragile X-Related Disorders. <i>Journal of Molecular Diagnostics</i> , 2016, 18, 762-774.	2.8	35
34	Granulosa cell and oocyte mitochondrial abnormalities in a mouse model of fragile X primary ovarian insufficiency. <i>Molecular Human Reproduction</i> , 2016, 22, 384-396.	2.8	58
35	The Transcription-Coupled Repair Protein ERCC6/CSB Also Protects Against Repeat Expansion in a Mouse Model of the Fragile X Premutation. <i>Human Mutation</i> , 2015, 36, 482-487.	2.5	19
36	Repeat-mediated epigenetic dysregulation of the FMR1 gene in the fragile X-related disorders. <i>Frontiers in Genetics</i> , 2015, 6, 192.	2.3	29

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37	High-Throughput Screening to Identify Compounds That Increase Fragile X Mental Retardation Protein Expression in Neural Stem Cells Differentiated From Fragile X Syndrome Patient-Derived Induced Pluripotent Stem Cells. <i>Stem Cells Translational Medicine</i> , 2015, 4, 800-808.	3.3	70
38	Mut β generates both expansions and contractions in a mouse model of the Fragile X-associated disorders. <i>Human Molecular Genetics</i> , 2015, 24, ddv408.	2.9	52
39	Repeat instability during DNA repair: Insights from model systems. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2015, 50, 142-167.	5.2	158
40	Heterozygosity for a Hypomorphic Pol β Mutation Reduces the Expansion Frequency in a Mouse Model of the Fragile X-Related Disorders. <i>PLoS Genetics</i> , 2015, 11, e1005181.	3.5	41
41	The Repeat Expansion Diseases: The dark side of DNA repair. <i>DNA Repair</i> , 2015, 32, 96-105.	2.8	55
42	Evidence for chromosome fragility at the frataxin locus in Friedreich ataxia. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 781, 14-21.	1.0	15
43	X inactivation plays a major role in the gender bias in somatic expansion in a mouse model of the fragile X-related disorders: implications for the mechanism of repeat expansion. <i>Human Molecular Genetics</i> , 2014, 23, 4985-4994.	2.9	29
44	Chromosome fragility and the abnormal replication of the FMR1 locus in fragile X syndrome. <i>Human Molecular Genetics</i> , 2014, 23, 2940-2952.	2.9	45
45	Repeat-mediated genetic and epigenetic changes at the FMR1 locus in the Fragile X-related disorders. <i>Frontiers in Genetics</i> , 2014, 5, 226.	2.3	33
46	Polycomb group complexes are recruited to reactivated FMR1 alleles in Fragile X syndrome in response to FMR1 transcription. <i>Human Molecular Genetics</i> , 2014, 23, 6575-6583.	2.9	31
47	Identification of Fragile X Syndrome Specific Molecular Markers in Human Fibroblasts: A Useful Model to Test the Efficacy of Therapeutic Drugs. <i>Human Mutation</i> , 2014, 35, 1485-1494.	2.5	52
48	Gender and Cell-Type-Specific Effects of the Transcription-Coupled Repair Protein, ERCC6/CSB, on Repeat Expansion in a Mouse Model of the Fragile X-Related Disorders. <i>Human Mutation</i> , 2014, 35, 341-349.	2.5	30
49	The Mismatch Repair Protein MSH2 is Rate Limiting for Repeat Expansion in a Fragile X Premutation Mouse Model. <i>Human Mutation</i> , 2014, 35, 129-136.	2.5	74
50	The multiple molecular facets of fragile X-associated tremor/ataxia syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2014, 6, 23.	3.1	36
51	Mouse models of the fragile X premutation and fragile X-associated tremor/ataxia syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2014, 6, 25.	3.1	57
52	Use of model systems to understand the etiology of fragile X-associated primary ovarian insufficiency (FXPOI). <i>Journal of Neurodevelopmental Disorders</i> , 2014, 6, 26.	3.1	55
53	Somatic Expansion in Mouse and Human Carriers of Fragile X Premutation Alleles. <i>Human Mutation</i> , 2013, 34, 157-166.	2.5	76
54	Impaired activity-dependent FMRP translation and enhanced mGluR-dependent LTD in Fragile X premutation mice. <i>Human Molecular Genetics</i> , 2013, 22, 1180-1192.	2.9	48

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55	Ovarian Abnormalities in a Mouse Model of Fragile X Primary Ovarian Insufficiency. <i>Journal of Histochemistry and Cytochemistry</i> , 2012, 60, 439-456.	2.5	70
56	Chromatin changes in the development and pathology of the Fragile X-associated disorders and Friedreich ataxia. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012, 1819, 802-810.	1.9	17
57	Is Friedreich ataxia an epigenetic disorder?. <i>Clinical Epigenetics</i> , 2012, 4, 2.	4.1	29
58	Repeat Expansion Affects Both Transcription Initiation and Elongation in Friedreich Ataxia Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 4209-4215.	3.4	79
59	Potassium bromate, a potent DNA oxidizing agent, exacerbates germline repeat expansion in a fragile X premutation mouse model. <i>Human Mutation</i> , 2010, 31, n/a-n/a.	2.5	52
60	The distribution of repressive histone modifications on silenced FMR1 alleles provides clues to the mechanism of gene silencing in fragile X syndrome. <i>Human Molecular Genetics</i> , 2010, 19, 4634-4642.	2.9	76
61	Chromatin Remodeling in the Noncoding Repeat Expansion Diseases. <i>Journal of Biological Chemistry</i> , 2009, 284, 7413-7417.	3.4	47
62	The role of DNA damage response pathways in chromosome fragility in Fragile X syndrome. <i>Nucleic Acids Research</i> , 2009, 37, 4385-4392.	14.5	21
63	ATM and ATR protect the genome against two different types of tandem repeat instability in Fragile X premutation mice. <i>Nucleic Acids Research</i> , 2009, 37, 6371-6377.	14.5	32
64	The biological effects of simple tandem repeats: Lessons from the repeat expansion diseases: Table 1.. <i>Genome Research</i> , 2008, 18, 1011-1019.	5.5	217
65	SIRT1 Inhibition Alleviates Gene Silencing in Fragile X Mental Retardation Syndrome. <i>PLoS Genetics</i> , 2008, 4, e1000017.	3.5	75
66	Repeat-induced epigenetic changes in intron 1 of the frataxin gene and its consequences in Friedreich ataxia. <i>Nucleic Acids Research</i> , 2007, 35, 3383-3390.	14.5	185
67	Regional FMRP deficits and large repeat expansions into the full mutation range in a new Fragile X premutation mouse model. <i>Gene</i> , 2007, 395, 125-134.	2.2	182
68	ATR protects the genome against CGG{middle dot}CCG-repeat expansion in Fragile X premutation mice. <i>Nucleic Acids Research</i> , 2007, 36, 1050-1056.	14.5	50
69	Bending the Rules: Unusual Nucleic Acid Structures and Disease Pathology in the Repeat Expansion Diseases. , 2006, , 617-635.		2
70	The roles of Sp1, Sp3, USF1/USF2 and NRF-1 in the regulation and three-dimensional structure of the Fragile X mental retardation gene promoter. <i>Biochemical Journal</i> , 2005, 386, 297-303.	3.7	33
71	Long CGG-repeat tracts are toxic to human cells: Implications for carriers of Fragile X premutation alleles. <i>FEBS Letters</i> , 2005, 579, 2702-2708.	2.8	49
72	Ancient repeated DNA elements and the regulation of the human frataxin promoter. <i>Genomics</i> , 2005, 85, 221-230.	2.9	20

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73	The fragile X syndrome repeats form RNA hairpins that do not activate the interferon-inducible protein kinase, PKR, but are cut by Dicer. <i>Nucleic Acids Research</i> , 2003, 31, 6243-6248.	14.5	115
74	Fragile X syndrome and Friedreich's ataxia: two different paradigms for repeat induced transcript insufficiency. <i>Brain Research Bulletin</i> , 2001, 56, 367-373.	3.0	19
75	Tetraplex formation by the progressive myoclonus epilepsy type-1 repeat: implications for instability in the repeat expansion diseases. <i>FEBS Letters</i> , 2001, 491, 184-187.	2.8	29
76	Interaction of the Transcription Factors USF1, USF2, and Δ -Pal/Nrf-1 with the FMR1 Promoter. <i>Journal of Biological Chemistry</i> , 2001, 276, 4357-4364.	3.4	84
77	Long Uninterrupted CGG Repeats within the First Exon of the Human FMR1 Gene Are Not Intrinsically Unstable in Transgenic Mice. <i>Genomics</i> , 1998, 50, 229-240.	2.9	58
78	The Mouse Ms6-hm Hypervariable Microsatellite Forms a Hairpin and Two Unusual Tetraplexes. <i>Journal of Biological Chemistry</i> , 1998, 273, 30742-30749.	3.4	23
79	DNA Secondary Structures and the Evolution of Hypervariable Tandem Arrays. <i>Journal of Biological Chemistry</i> , 1997, 272, 9517-9523.	3.4	66
80	The Development and Use of a DNA Polymerase Arrest Assay for the Evaluation of Parameters Affecting Intrastrand Tetraplex Formation. <i>Journal of Biological Chemistry</i> , 1996, 271, 20958-20964.	3.4	102