

CITATION REPORT

List of articles citing

DUX4, a candidate gene of facioscapulohumeral muscular dystrophy, encodes a transcriptional activator of PITX1

DOI: 10.1073/pnas.0708659104

Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18157-62.

Source: <https://exaly.com/paper-pdf/41352311/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
299	The helicase-like transcription factor and its implication in cancer progression. 2008 , 65, 591-604		43
298	An isogenetic myoblast expression screen identifies DUX4-mediated FSHD-associated molecular pathologies. 2008 , 27, 2766-79		220
297	Analysis of the largest tandemly repeated DNA families in the human genome. 2008 , 9, 533		106
296	Epigenetic mechanisms of facioscapulohumeral muscular dystrophy. 2008 , 647, 94-102		45
295	Telomeric chromatin: roles in aging, cancer and hereditary disease. 2008 , 647, 86-93		11
294	First International "Institute of Myology Workshop" on Facioscapulohumeral Muscular Dystrophy, Paris, May 22, 2007. <i>Neuromuscular Disorders</i> , 2008 , 18, 514-8	2.9	1
293	DUX4c, an FSHD candidate gene, interferes with myogenic regulators and abolishes myoblast differentiation. 2008 , 214, 87-96		65
292	A functional role for 4qA/B in the structural rearrangement of the 4q35 region and in the regulation of FRG1 and ANT1 in facioscapulohumeral dystrophy. <i>PLoS ONE</i> , 2008 , 3, e3389	3.7	38
291	DUX4c is up-regulated in FSHD. It induces the MYF5 protein and human myoblast proliferation. <i>PLoS ONE</i> , 2009 , 4, e7482	3.7	43
290	The D4Z4 macrosatellite repeat acts as a CTCF and A-type lamins-dependent insulator in facio-scapulo-humeral dystrophy. <i>PLoS Genetics</i> , 2009 , 5, e1000394	6	84
289	Transcriptional regulation differs in affected facioscapulohumeral muscular dystrophy patients compared to asymptomatic related carriers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6220-5	11.5	38
288	RNA transcripts, miRNA-sized fragments and proteins produced from D4Z4 units: new candidates for the pathophysiology of facioscapulohumeral dystrophy. <i>Human Molecular Genetics</i> , 2009 , 18, 2414-30	5.6	170
287	DNaseI hypersensitivity at gene-poor, FSH dystrophy-linked 4q35.2. <i>Nucleic Acids Research</i> , 2009 , 37, 7381-93	20.1	12
286	Detailed cytogenetic and array analysis of pediatric primitive sarcomas reveals a recurrent CIC-DUX4 fusion gene event. 2009 , 195, 1-11		81
285	Common epigenetic changes of D4Z4 in contraction-dependent and contraction-independent FSHD. 2009 , 30, 1449-59		139
284	Macrosatellite epigenetics: the two faces of DXZ4 and D4Z4. 2009 , 118, 675-81		21
283	Remodeling of the chromatin structure of the facioscapulohumeral muscular dystrophy (FSHD) locus and upregulation of FSHD-related gene 1 (FRG1) expression during human myogenic differentiation. 2009 , 7, 41		72

282	Hypermethylation of genomic 3.3-kb repeats is frequent event in HPV-positive cervical cancer. <i>BMC Medical Genomics</i> , 2009 , 2, 30	3.7	17
281	Comprehensive expression analysis of FSHD candidate genes at the mRNA and protein level. 2009 , 17, 1615-24		49
280	Analysis of telomeric DNA: Current approaches and methods. <i>Russian Journal of Developmental Biology</i> , 2009 , 40, 125-144	0.8	4
279	Therapy for neuromuscular disorders. 2009 , 19, 290-7		26
278	Pearls in the junk: dissecting the molecular pathogenesis of facioscapulohumeral muscular dystrophy. <i>Neuromuscular Disorders</i> , 2009 , 19, 17-20	2.9	28
277	Cis-ruption mechanisms: disruption of cis-regulatory control as a cause of human genetic disease. 2009 , 8, 317-32		56
276	Current world literature. 2009 , 22, 554-61		
275	Facioscapulohumeral muscular dystrophy. 2009 , 22, 539-42		32
274	New Report Identifies Pathogen for Facioscapulohumeral Dystrophy. 2010 , 10, 15		
273	A unifying genetic model for facioscapulohumeral muscular dystrophy. 2010 , 329, 1650-3		504
272	In junk we trust: repetitive DNA, epigenetics and facioscapulohumeral muscular dystrophy. 2010 , 2, 271-87		24
271	A family history of DUX4: phylogenetic analysis of DUXA, B, C and Duxbl reveals the ancestral DUX gene. 2010 , 10, 364		68
270	Expression, tandem repeat copy number variation and stability of four macrosatellite arrays in the human genome. 2010 , 11, 632		33
269	Myoblasts from affected and non-affected FSHD muscles exhibit morphological differentiation defects. 2010 , 14, 275-89		90
268	Genes, mutations, and human inherited disease at the dawn of the age of personalized genomics. 2010 , 31, 631-55		138
267	Characterization of genomic structures and expression profiles of three tandem repeats of a mouse double homeobox gene: Duxbl. 2010 , 239, 927-40		21
266	Analysis of allele-specific RNA transcription in FSHD by RNA-DNA FISH in single myonuclei. 2010 , 18, 448-56		30
265	Description of muscle disease ̢specific diseases. 205-229		1

264	Facioscapulohumeral dystrophy. 314-322		1
263	The cell biology of disease: FSHD: copy number variations on the theme of muscular dystrophy. 2010 , 191, 1049-60		50
262	FSHD: a repeat contraction disease finally ready to expand (our understanding of its pathogenesis). <i>PLoS Genetics</i> , 2010 , 6, e1001180	6	5
261	Facioscapulohumeral dystrophy: incomplete suppression of a retrotransposed gene. <i>PLoS Genetics</i> , 2010 , 6, e1001181	6	317
260	Alternative splicing and muscular dystrophy. 2010 , 7, 441-52		34
259	Genetics. Exposing a DUX tale. 2010 , 329, 1607-8		3
258	Distrofia muscolare facio-scapolo-omerale. 2011 , 11, 1-11		
257	Establishment of clonal myogenic cell lines from severely affected dystrophic muscles - CDK4 maintains the myogenic population. <i>Skeletal Muscle</i> , 2011 , 1, 12	5.1	46
256	Facioscapulohumeral dystrophy and scapulo-peroneal syndromes. 2011 , 101, 167-80		28
255	Characterization of DXZ4 conservation in primates implies important functional roles for CTCF binding, array expression and tandem repeat organization on the X chromosome. 2011 , 12, R37		21
254	Facioscapulohumeral muscular dystrophy and DUX4: breaking the silence. 2011 , 17, 252-8		107
253	Retinal vascular disease and the pathogenesis of facioscapulohumeral muscular dystrophy. A signalling message from Wnt?. <i>Neuromuscular Disorders</i> , 2011 , 21, 263-71	2.9	35
252	The FSHD atrophic myotube phenotype is caused by DUX4 expression. <i>PLoS ONE</i> , 2011 , 6, e26820	3.7	121
251	Facioscapulohumeral muscular dystrophy: molecular pathological advances and future directions. 2011 , 24, 423-8		42
250	Dystrophie musculaire facio-scapulo-humérale. 2011 , 8, 1-11		
249	The Krüppel-like factor 15 as a molecular link between myogenic factors and a chromosome 4q transcriptional enhancer implicated in facioscapulohumeral dystrophy. 2011 , 286, 44620-31		20
248	The muscular dystrophies: distinct pathogenic mechanisms invite novel therapeutic approaches. 2011 , 13, 199-207		12
247	Gene expression during normal and FSHD myogenesis. <i>BMC Medical Genomics</i> , 2011 , 4, 67	3.7	63

246	DUX4, a candidate gene for facioscapulohumeral muscular dystrophy, causes p53-dependent myopathy in vivo. 2011 , 69, 540-52		166
245	AAV6-mediated systemic shRNA delivery reverses disease in a mouse model of facioscapulohumeral muscular dystrophy. 2011 , 19, 2055-64		39
244	RNA interference improves myopathic phenotypes in mice over-expressing FSHD region gene 1 (FRG1). 2011 , 19, 2048-54		35
243	Distinct epigenomic features in end-stage failing human hearts. 2011 , 124, 2411-22		196
242	Developments in RNA splicing and disease. 2011 , 3, a000778		67
241	Immunodetection of human double homeobox 4. 2011 , 30, 125-30		38
240	Facioscapulohumeral muscular dystrophy: consequences of chromatin relaxation. 2012 , 25, 614-20		37
239	Patients with a phenotype consistent with facioscapulohumeral muscular dystrophy display genetic and epigenetic heterogeneity. <i>Journal of Medical Genetics</i> , 2012 , 49, 41-6	5.8	40
238	De novo and inherited CNVs in MZ twin pairs selected for discordance and concordance on Attention Problems. 2012 , 20, 1037-43		47
237	Epigenetic alterations in muscular disorders. 2012 , 2012, 256892		6
236	Conditional over-expression of PITX1 causes skeletal muscle dystrophy in mice. 2012 , 1, 629-639		39
235	Transcriptional profiling in facioscapulohumeral muscular dystrophy to identify candidate biomarkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16234-9	11.5	61
234	Functional muscle impairment in facioscapulohumeral muscular dystrophy is correlated with oxidative stress and mitochondrial dysfunction. 2012 , 53, 1068-79		73
233	Generation of isogenic D4Z4 contracted and noncontracted immortal muscle cell clones from a mosaic patient: a cellular model for FSHD. 2012 , 181, 1387-401		52
232	Digenic inheritance of an SMCHD1 mutation and an FSHD-permissive D4Z4 allele causes facioscapulohumeral muscular dystrophy type 2. <i>Nature Genetics</i> , 2012 , 44, 1370-4	36.3	405
231	Mutation spectrum and phenotypic manifestation in FSHD Greek patients. <i>Neuromuscular Disorders</i> , 2012 , 22, 339-49	2.9	34
230	A unique library of myogenic cells from facioscapulohumeral muscular dystrophy subjects and unaffected relatives: family, disease and cell function. 2012 , 20, 404-10		42
229	Deciphering transcription dysregulation in FSH muscular dystrophy. 2012 , 57, 477-84		5

228	The CIC-DUX4 fusion transcript is present in a subgroup of pediatric primitive round cell sarcomas. 2012 , 43, 180-9		131
227	DUX4 activates germline genes, retroelements, and immune mediators: implications for facioscapulohumeral dystrophy. 2012 , 22, 38-51		295
226	A long ncRNA links copy number variation to a polycomb/trithorax epigenetic switch in FSHD muscular dystrophy. 2012 , 149, 819-31		290
225	RNA interference inhibits DUX4-induced muscle toxicity in vivo: implications for a targeted FSHD therapy. 2012 , 20, 1417-23		82
224	Facioscapulohumeral Muscular Dystrophy: Unraveling the Mysteries of a Complex Epigenetic Disease. 2012 , 969-977		0
223	Asymmetric bidirectional transcription from the FSHD-causing D4Z4 array modulates DUX4 production. <i>PLoS ONE</i> , 2012 , 7, e35532	3.7	18
222	Different molecular signatures in magnetic resonance imaging-staged facioscapulohumeral muscular dystrophy muscles. <i>PLoS ONE</i> , 2012 , 7, e38779	3.7	80
221	A repetitive elements perspective in Polycomb epigenetics. 2012 , 3, 199		26
220	The epigenetics of facioscapulohumeral muscular dystrophy. 347-361		0
219	Epigenetic modifications in cardiovascular disease. 2012 , 107, 245		93
218	Facioscapulohumeral muscular dystrophy (FSHD): an enigma unravelled?. 2012 , 131, 325-40		61
217	miR-411 is up-regulated in FSHD myoblasts and suppresses myogenic factors. <i>Orphanet Journal of Rare Diseases</i> , 2013 , 8, 55	4.2	33
216	Kinetics and epigenetics of retroviral silencing in mouse embryonic stem cells defined by deletion of the D4Z4 element. 2013 , 21, 1536-50		18
215	[Facioscapulohumeral muscular dystrophy type 2]. 2013 , 169, 564-72		1
214	Facioscapulohumeral Dystrophy. 2013 , 288-297		2
213	The FSHD2 gene SMCHD1 is a modifier of disease severity in families affected by FSHD1. 2013 , 93, 744-51		126
212	Pitx genes are redeployed in adult myogenesis where they can act to promote myogenic differentiation in muscle satellite cells. 2013 , 377, 293-304		24
211	[Clinical and molecular diagnosis of facioscapulohumeral dystrophy type 1 (FSHD1) in 2012]. 2013 , 169, 573-82		1

210	Exome sequencing identifies a novel SMCHD1 mutation in facioscapulohumeral muscular dystrophy 2. <i>Neuromuscular Disorders</i> , 2013 , 23, 975-80	2.9	26
209	Muscular dystrophies. 2013 , 381, 845-60		280
208	DUX4 expression in FSHD muscle cells: how could such a rare protein cause a myopathy?. 2013 , 17, 76-89		90
207	Expression of the human FSHD-linked DUX4 gene induces neurogenesis during differentiation of murine embryonic stem cells. 2013 , 22, 2440-8		10
206	The role of genetics in the establishment and maintenance of the epigenome. 2013 , 70, 1543-73		47
205	Telomere position effect regulates DUX4 in human facioscapulohumeral muscular dystrophy. 2013 , 20, 671-8		74
204	Reevaluating measures of disease progression in facioscapulohumeral muscular dystrophy. <i>Neuromuscular Disorders</i> , 2013 , 23, 306-12	2.9	31
203	Deregulation of the protocadherin gene FAT1 alters muscle shapes: implications for the pathogenesis of facioscapulohumeral dystrophy. <i>PLoS Genetics</i> , 2013 , 9, e1003550	6	58
202	Intrinsic epigenetic regulation of the D4Z4 macrosatellite repeat in a transgenic mouse model for FSHD. <i>PLoS Genetics</i> , 2013 , 9, e1003415	6	83
201	Wnt/βcatenin signaling suppresses DUX4 expression and prevents apoptosis of FSHD muscle cells. <i>Human Molecular Genetics</i> , 2013 , 22, 4661-72	5.6	75
200	Defective regulation of microRNA target genes in myoblasts from facioscapulohumeral dystrophy patients. 2013 , 288, 34989-5002		46
199	A focal domain of extreme demethylation within D4Z4 in FSHD2. <i>Neurology</i> , 2013 , 80, 392-9	6.5	49
198	Facioscapulohumeral muscular dystrophy: Are telomeres the end of the story?. 2013 , 1, e26142		1
197	Expression of DUX4 in zebrafish development recapitulates facioscapulohumeral muscular dystrophy. <i>Human Molecular Genetics</i> , 2013 , 22, 568-77	5.6	61
196	Multiple protein domains contribute to nuclear import and cell toxicity of DUX4, a candidate pathogenic protein for facioscapulohumeral muscular dystrophy. <i>PLoS ONE</i> , 2013 , 8, e75614	3.7	16
195	The "grep" command but not FusionMap, FusionFinder or ChimeraScan captures the CIC-DUX4 fusion gene from whole transcriptome sequencing data on a small round cell tumor with t(4;19)(q35;q13). <i>PLoS ONE</i> , 2014 , 9, e99439	3.7	41
194	DNA methylation analysis of the macrosatellite repeat associated with FSHD muscular dystrophy at single nucleotide level. <i>PLoS ONE</i> , 2014 , 9, e115278	3.7	25
193	Meeting Report: New Directions in the Biology and Disease of Skeletal Muscle 2014. <i>Journal of Neuromuscular Diseases</i> , 2014 , 1, 197-206	5	1

192	Morpholino treatment improves muscle function and pathology of Pitx1 transgenic mice. 2014 , 22, 390-396		16
191	Dominant lethal pathologies in male mice engineered to contain an X-linked DUX4 transgene. <i>Cell Reports</i> , 2014 , 8, 1484-96	10.6	54
190	Double homeobox gene, Duxbl, promotes myoblast proliferation and abolishes myoblast differentiation by blocking MyoD transactivation. 2014 , 358, 551-66		7
189	Satellite DNA and related diseases. 2014 , 30, 249-259		5
188	Dux4 induces cell cycle arrest at G1 phase through upregulation of p21 expression. 2014 , 446, 235-40		34
187	High-throughput screening identifies inhibitors of DUX4-induced myoblast toxicity. <i>Skeletal Muscle</i> , 2014 , 4, 4	5.1	48
186	Subtelomeres. 2014 ,		6
185	DUX4 and DUX4 downstream target genes are expressed in fetal FSHD muscles. <i>Human Molecular Genetics</i> , 2014 , 23, 171-81	5.6	49
184	Genetic and epigenetic characteristics of FSHD-associated 4q and 10q D4Z4 that are distinct from non-4q/10q D4Z4 homologs. 2014 , 35, 998-1010		29
183	Facioscapulohumeral dystrophy: the path to consensus on pathophysiology. <i>Skeletal Muscle</i> , 2014 , 4, 12	5.1	113
182	Clinical trial preparedness in facioscapulohumeral dystrophy: outcome measures and patient access: 8-9 April 2013, Leiden, The Netherlands. <i>Neuromuscular Disorders</i> , 2014 , 24, 79-85	2.9	24
181	Chromatin modifications remodel cardiac gene expression. 2014 , 103, 7-16		42
180	Expression of FSHD-related DUX4-FL alters proteostasis and induces TDP-43 aggregation. 2015 , 2, 151-66		35
179	DNA-binding sequence specificity of DUX4. <i>Skeletal Muscle</i> , 2016 , 6, 8	5.1	27
178	Correlation between low FAT1 expression and early affected muscle in facioscapulohumeral muscular dystrophy. 2015 , 78, 387-400		27
177	Culture Conditions Affect Expression of DUX4 in FSHD Myoblasts. 2015 , 20, 8304-15		13
176	A muscle stem cell for every muscle: variability of satellite cell biology among different muscle groups. 2015 , 7, 190		31
175	FHL1 reduces dystrophy in transgenic mice overexpressing FSHD muscular dystrophy region gene 1 (FRG1). <i>PLoS ONE</i> , 2015 , 10, e0117665	3.7	7

174	Aberrant splicing in transgenes containing introns, exons, and V5 epitopes: lessons from developing an FSHD mouse model expressing a D4Z4 repeat with flanking genomic sequences. <i>PLoS ONE</i> , 2015 , 10, e0118813	3.7	10
173	Systemic Redox Biomarkers in Neurodegenerative Diseases. 2015 , 16, 46-70		5
172	Transcriptional Pathways Associated with Skeletal Muscle Changes after Spinal Cord Injury and Treadmill Locomotor Training. 2015 , 2015, 387090		6
171	Direct interplay between two candidate genes in FSHD muscular dystrophy. <i>Human Molecular Genetics</i> , 2015 , 24, 1256-66	5.6	20
170	ZNF555 protein binds to transcriptional activator site of 4qA allele and ANT1: potential implication in Facioscapulohumeral dystrophy. <i>Nucleic Acids Research</i> , 2015 , 43, 8227-42	20.1	4
169	Potential of antisense therapy for facioscapulohumeral muscular dystrophy. 2015 , 3, 1365-1374		2
168	Identification of variants in the 4q35 gene FAT1 in patients with a facioscapulohumeral dystrophy-like phenotype. 2015 , 36, 443-53		29
167	ECatenin is central to DUX4-driven network rewiring in facioscapulohumeral muscular dystrophy. 2015 , 12, 20140797		29
166	Facioscapulohumeral Dystrophy. 2015 , 620-630		
165	Emerging preclinical animal models for FSHD. 2015 , 21, 295-306		34
164	SORBS2 transcription is activated by telomere position effect-over long distance upon telomere shortening in muscle cells from patients with facioscapulohumeral dystrophy. <i>Genome Research</i> , 2015 , 25, 1781-90	9.7	55
163	Genetic and epigenetic contributors to FSHD. 2015 , 33, 56-61		63
162	Genomic Elements in Health, Disease and Evolution. 2015 ,		3
161	Structure and Functions of Telomeres in Organismal Homeostasis and Disease. 2015 , 247-283		
160	The Role of D4Z4-Encoded Proteins in the Osteogenic Differentiation of Mesenchymal Stromal Cells Isolated from Bone Marrow. 2015 , 24, 2674-86		8
159	Loss of epigenetic silencing of the DUX4 transcription factor gene in facioscapulohumeral muscular dystrophy. <i>Human Molecular Genetics</i> , 2015 , 24, R17-23	5.6	18
158	Facioscapulohumeral muscular dystrophy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 607-14	6.9	38
157	Facioscapulohumeral muscular dystrophy as a model for epigenetic regulation and disease. 2015 , 22, 1463-82		27

156	Diagnostic approach for FSHD revisited: SMCHD1 mutations cause FSHD2 and act as modifiers of disease severity in FSHD1. 2015 , 23, 808-16		69
155	Identification of two novel SMCHD1 sequence variants in families with FSHD-like muscular dystrophy. 2015 , 23, 67-71		16
154	Inter-individual differences in CpG methylation at D4Z4 correlate with clinical variability in FSHD1 and FSHD2. <i>Human Molecular Genetics</i> , 2015 , 24, 659-69	5.6	106
153	Ret function in muscle stem cells points to tyrosine kinase inhibitor therapy for facioscapulohumeral muscular dystrophy. 2016 , 5,		11
152	PARP1 Differentially Interacts with Promoter region of Gene in FSHD Myoblasts. 2016 , 7,		8
151	Epigenetics and Epigenomics in Human Health and Disease. 2016 , 51-74		
150	Dux4 controls migration of mesenchymal stem cells through the Cxcr4-Sdf1 axis. 2016 , 7, 65090-65108		15
149	Targeting mRNA for the treatment of facioscapulohumeral muscular dystrophy. 2016 , 5, 168-76		6
148	Homologous Transcription Factors DUX4 and DUX4c Associate with Cytoplasmic Proteins during Muscle Differentiation. <i>PLoS ONE</i> , 2016 , 11, e0146893	3.7	19
147	Transgenic Drosophila for Investigating DUX4 and FRG1, Two Genes Associated with Facioscapulohumeral Muscular Dystrophy (FSHD). <i>PLoS ONE</i> , 2016 , 11, e0150938	3.7	11
146	Influence of Repressive Histone and DNA Methylation upon D4Z4 Transcription in Non-Myogenic Cells. <i>PLoS ONE</i> , 2016 , 11, e0160022	3.7	36
145	Nuclear bodies reorganize during myogenesis in vitro and are differentially disrupted by expression of FSHD-associated DUX4. <i>Skeletal Muscle</i> , 2016 , 6, 42	5.1	12
144	DUX4 induces a transcriptome more characteristic of a less-differentiated cell state and inhibits myogenesis. 2016 , 129, 3816-3831		50
143	Polycomb repressive complex 1 provides a molecular explanation for repeat copy number dependency in FSHD muscular dystrophy. <i>Human Molecular Genetics</i> , 2017 , 26, 753-767	5.6	0
142	Deciphering "B-others": Novel fusion genes driving B-cell acute lymphoblastic leukemia. 2016 , 8, 8-9		3
141	A complex interplay of genetic and epigenetic events leads to abnormal expression of the DUX4 gene in facioscapulohumeral muscular dystrophy. <i>Neuromuscular Disorders</i> , 2016 , 26, 844-852	2.9	23
140	Mouse Dux is myotoxic and shares partial functional homology with its human paralog DUX4. <i>Human Molecular Genetics</i> , 2016 , 25, 4577-4589	5.6	30
139	Deregulation of DUX4 and ERG in acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2016 , 48, 1481-1489	36.3	145

138	Transcriptional Inhibitors Identified in a 160,000-Compound Small-Molecule DUX4 Viability Screen. 2016 , 21, 680-8		11
137	Antisense targeting of 3Rend elements involved in DUX4 mRNA processing is an efficient therapeutic strategy for facioscapulohumeral dystrophy: a new gene-silencing approach. <i>Human Molecular Genetics</i> , 2016 , 25, 1468-78	5.6	55
136	Recurrent DUX4 fusions in B cell acute lymphoblastic leukemia of adolescents and young adults. <i>Nature Genetics</i> , 2016 , 48, 569-74	36.3	141
135	DUX4 recruits p300/CBP through its C-terminus and induces global H3K27 acetylation changes. <i>Nucleic Acids Research</i> , 2016 , 44, 5161-73	20.1	84
134	Antisense oligonucleotide development for the treatment of muscular dystrophies. 2016 , 4, 139-152		16
133	Large family cohorts of lymphoblastoid cells provide a new cellular model for investigating facioscapulohumeral muscular dystrophy. <i>Neuromuscular Disorders</i> , 2017 , 27, 221-238	2.9	16
132	Emerging roles of macrosatellite repeats in genome organization and disease development. 2017 , 12, 515-526		22
131	Long-term regulation of gene expression in muscle cells by systemically delivered siRNA. 2017 , 256, 101-113		4
130	Primary CIC-DUX4 round cell sarcoma of the kidney: A treatment-refractory tumor with poor outcome. 2017 , 213, 154-160		5
129	A double-edged sword: The world according to Capicua in cancer. 2017 , 108, 2319-2325		16
128	Muscle pathology from stochastic low level DUX4 expression in an FSHD mouse model. <i>Nature Communications</i> , 2017 , 8, 550	17.4	50
127	Facioscapulohumeral Muscular Dystrophy. 2017 , 7, 1229-1279		29
126	The DUX4 homeodomains mediate inhibition of myogenesis and are functionally exchangeable with the Pax7 homeodomain. 2017 , 130, 3685-3697		33
125	p53-independent DUX4 pathology in cell and animal models of facioscapulohumeral muscular dystrophy. <i>DMM Disease Models and Mechanisms</i> , 2017 , 10, 1211-1216	4.1	18
124	Generation of novel patient-derived CIC- DUX4 sarcoma xenografts and cell lines. <i>Scientific Reports</i> , 2017 , 7, 4712	4.9	29
123	SMCHD1 regulates a limited set of gene clusters on autosomal chromosomes. <i>Skeletal Muscle</i> , 2017 , 7, 12	5.1	18
122	Analyzing Copy Number Variation Using Pulsed-Field Gel Electrophoresis: Providing a Genetic Diagnosis for FSHD1. 2017 , 1492, 107-125		5
121	PAX7 target genes are globally repressed in facioscapulohumeral muscular dystrophy skeletal muscle. <i>Nature Communications</i> , 2017 , 8, 2152	17.4	49



120	Clinical and genetic characteristics and diagnostic features of LandouzyDejerine facioscapulohumeral muscular dystrophy. 2017 , 53, 640-650		0
119	Pitx2 in Embryonic and Adult Myogenesis. 2017 , 5, 46		27
118	Antisense Oligonucleotides Used to Target the DUX4 mRNA as Therapeutic Approaches in Facioscapulohumeral Muscular Dystrophy (FSHD). <i>Genes</i> , 2017 , 8,	4.2	38
117	Are Antioxidants a Potential Therapy for FSHD? A Review of the Literature. 2017 , 2017, 7020295		15
116	Pre-clinical Safety and Off-Target Studies to Support Translation of AAV-Mediated RNAi Therapy for FSHD. 2018 , 8, 121-130		32
115	Muscle Microdialysis to Investigate Inflammatory Biomarkers in Facioscapulohumeral Muscular Dystrophy. 2018 , 55, 2959-2966		16
114	Deep characterization of a common D4Z4 variant identifies biallelic DUX4 expression as a modifier for disease penetrance in FSHD2. 2018 , 26, 94-106		15
113	Nablus syndrome: Easy to diagnose yet difficult to solve. 2018 , 178, 447-457		2
112	Low level DUX4 expression disrupts myogenesis through deregulation of myogenic gene expression. <i>Scientific Reports</i> , 2018 , 8, 16957	4.9	16
111	Advances in the Understanding of Skeletal Myopathies from Zebrafish Models. 2018 , 151-183		1
110	Zebrafish, Medaka, and Other Small Fishes. 2018 ,		2
109	Phenotype-genotype relations in facioscapulohumeral muscular dystrophy type 1. <i>Clinical Genetics</i> , 2018 , 94, 521-527	4	14
108	Cis D4Z4 repeat duplications associated with facioscapulohumeral muscular dystrophy type 2. <i>Human Molecular Genetics</i> , 2018 , 27, 3488-3497	5.6	11
107	Myoediting: Toward Prevention of Muscular Dystrophy by Therapeutic Genome Editing. 2018 , 98, 1205-1240		18
106	Targeting the Polyadenylation Signal of Pre-mRNA: A New Gene Silencing Approach for Facioscapulohumeral Dystrophy. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	8
105	Muscle Involvement and Restricted Disorders. 2018 , 922-970.e15		2
104	Overexpression of the double homeodomain protein DUX4c interferes with myofibrillogenesis and induces clustering of myonuclei. <i>Skeletal Muscle</i> , 2018 , 8, 2	5.1	9
103	A cre-inducible DUX4 transgenic mouse model for investigating facioscapulohumeral muscular dystrophy. <i>PLoS ONE</i> , 2018 , 13, e0192657	3.7	38

102	Muscle xenografts reproduce key molecular features of facioscapulohumeral muscular dystrophy. 2019 , 320, 113011		16
101	SMCHD1 mutation spectrum for facioscapulohumeral muscular dystrophy type 2 (FSHD2) and Bosma arhinia microphthalmia syndrome (BAMS) reveals disease-specific localisation of variants in the ATPase domain. <i>Journal of Medical Genetics</i> , 2019 , 56, 693-700	5.8	14
100	Intronic variants in FSHD: testing the potential for CRISPR-Cas9 genome editing. <i>Journal of Medical Genetics</i> , 2019 , 56, 828-837	5.8	15
99	Omics Approaches to Understanding Muscle Biology. 2019 ,		2
98	240th ENMC workshop: The involvement of skeletal muscle stem cells in the pathology of muscular dystrophies 25-27 January 2019, Hoofddorp, The Netherlands. <i>Neuromuscular Disorders</i> , 2019 , 29, 704-719	5.9	2
97	RNAscope in situ hybridization-based method for detecting RNA expression in vitro. <i>Rna</i> , 2019 , 25, 1211-1217	5.17	10
96	DUX4 Pathological Expression: Causes and Consequences in Cancer. <i>Trends in Cancer</i> , 2019 , 5, 268-271	12.5	9
95	4q-D4Z4 chromatin architecture regulates the transcription of muscle atrophic genes in facioscapulohumeral muscular dystrophy. <i>Genome Research</i> , 2019 , 29, 883-895	9.7	10
94	The Genetics and Epigenetics of Facioscapulohumeral Muscular Dystrophy. <i>Annual Review of Genomics and Human Genetics</i> , 2019 , 20, 265-291	9.7	29
93	Molecular Basis of Muscle Disease. 2019 , 13-39		
92	Genotype-phenotype correlations in FSHD. <i>BMC Medical Genomics</i> , 2019 , 12, 43	3.7	3
91	PAX7 target gene repression is a superior FSHD biomarker than DUX4 target gene activation, associating with pathological severity and identifying FSHD at the single-cell level. <i>Human Molecular Genetics</i> , 2019 , 28, 2224-2236	5.6	21
90	Identifying the RNA signatures of coronary artery disease from combined lncRNA and mRNA expression profiles. <i>Genomics</i> , 2020 , 112, 4945-4958	4.3	7
89	Multi-Omics Identifies Circulating miRNA and Protein Biomarkers for Facioscapulohumeral Dystrophy. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	4
88	Cellular and animal models for facioscapulohumeral muscular dystrophy. <i>DMM Disease Models and Mechanisms</i> , 2020 , 13,	4.1	2
87	Skeletal muscle regeneration in facioscapulohumeral muscular dystrophy is correlated with pathological severity. <i>Human Molecular Genetics</i> , 2020 , 29, 2746-2760	5.6	9
86	Expression in FSHD Muscles: Focus on Its mRNA Regulation. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	5
85	Therapeutic Strategies Targeting DUX4 in FSHD. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	7

84	Expression of Dux family genes in early preimplantation embryos. <i>Scientific Reports</i> , 2020 , 10, 19396	4.9	4
83	Current Genetic Survey and Potential Gene-Targeting Therapeutics for Neuromuscular Diseases. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
82	Yeast mismatch repair components are required for stable inheritance of gene silencing. <i>PLoS Genetics</i> , 2020 , 16, e1008798	6	0
81	Emerging Roles of RNA 3'end Cleavage and Polyadenylation in Pathogenesis, Diagnosis and Therapy of Human Disorders. <i>Biomolecules</i> , 2020 , 10,	5.9	21
80	DUX4, a Zygotic Genome Activator, Is Involved in Oncogenesis and Genetic Diseases. <i>Russian Journal of Developmental Biology</i> , 2020 , 51, 176-182	0.8	1
79	G-quadruplex ligands mediate downregulation of DUX4 expression. <i>Nucleic Acids Research</i> , 2020 , 48, 4179-4194	20.1	9
78	Applying genome-wide CRISPR-Cas9 screens for therapeutic discovery in facioscapulohumeral muscular dystrophy. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	24
77	Does DNA Methylation Matter in FSHD?. <i>Genes</i> , 2020 , 11,	4.2	8
76	Antibodies Against Three Novel Peptides in Early Axial Spondyloarthritis Patients From Two Independent Cohorts. <i>Arthritis and Rheumatology</i> , 2020 , 72, 2094-2105	9.5	3
75	DNA aptamers against the DUX4 protein reveal novel therapeutic implications for FSHD. <i>FASEB Journal</i> , 2020 , 34, 4573-4590	0.9	10
74	Consequences of epigenetic derepression in facioscapulohumeral muscular dystrophy. <i>Clinical Genetics</i> , 2020 , 97, 799-814	4	16
73	DUX4 Signalling in the Pathogenesis of Facioscapulohumeral Muscular Dystrophy. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	22
72	DUX4 expressing immortalized FSHD lymphoblastoid cells express genes elevated in FSHD muscle biopsies, correlating with the early stages of inflammation. <i>Human Molecular Genetics</i> , 2020 , 29, 2285-2299	5.6	6
71	Transgenic mice expressing tunable levels of DUX4 develop characteristic facioscapulohumeral muscular dystrophy-like pathophysiology ranging in severity. <i>Skeletal Muscle</i> , 2020 , 10, 8	5.1	18
70	Chromosome 10q-linked FSHD identifies as principal disease gene. <i>Journal of Medical Genetics</i> , 2021 ,	5.8	6
69	Systemic antisense therapeutics inhibiting DUX4 expression improves muscle function in an FSHD mouse model.		1
68	Facioscapulohumeral muscular dystrophy: genetics, gene activation and downstream signalling with regard to recent therapeutic approaches: an update. <i>Orphanet Journal of Rare Diseases</i> , 2021 , 16, 129	4.2	7
67	Designed U7 snRNAs inhibit "expression and improve FSHD-associated outcomes in "overexpressing cells and FSHD patient myotubes. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 23, 476-486	10.7	6

66	Genetic Approaches for the Treatment of Facioscapulohumeral Muscular Dystrophy. <i>Frontiers in Pharmacology</i> , 2021 , 12, 642858	5.6	2
65	Herpesviral induction of germline transcription factor DUX4 is critical for viral gene expression.		2
64	FSHD1 Diagnosis in a Russian Population Using a qPCR-Based Approach. <i>Diagnostics</i> , 2021 , 11,	3.8	
63	Current Therapeutic Approaches in FSHD. <i>Journal of Neuromuscular Diseases</i> , 2021 , 8, 441-451	5	5
62	Systemic antisense therapeutics inhibiting DUX4 expression ameliorates FSHD-like pathology in an FSHD mouse model. <i>Human Molecular Genetics</i> , 2021 , 30, 1398-1412	5.6	4
61	DUX4 induces a homogeneous sequence of molecular changes, culminating in the activation of a stem-cell-like transcriptional network and induction of apoptosis in somatic cells.		0
60	Losing DNA methylation at repetitive elements and breaking bad. <i>Epigenetics and Chromatin</i> , 2021 , 14, 25	5.8	10
59	CRISPR mediated targeting of DUX4 distal regulatory element represses DUX4 target genes dysregulated in Facioscapulohumeral muscular dystrophy. <i>Scientific Reports</i> , 2021 , 11, 12598	4.9	3
58	Pathomechanisms and biomarkers in facioscapulohumeral muscular dystrophy: roles of DUX4 and PAX7. <i>EMBO Molecular Medicine</i> , 2021 , 13, e13695	12	9
57	The asymmetric Pitx2 regulates intestinal muscular-lacteal development and protects against fatty liver disease.		
56	Hypoxia and Hypoxia-Inducible Factor Signaling in Muscular Dystrophies: Cause and Consequences. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
55	Analysis of genes regulated by DUX4 via oxidative stress reveals potential therapeutic targets for treatment of facioscapulohumeral dystrophy. <i>Redox Biology</i> , 2021 , 43, 102008	11.3	3
54	p53 convergently activates Dux/DUX4 in embryonic stem cells and in facioscapulohumeral muscular dystrophy cell models. <i>Nature Genetics</i> , 2021 , 53, 1207-1220	36.3	11
53	Precise Epigenetic Analysis Using Targeted Bisulfite Genomic Sequencing Distinguishes FSHD1, FSHD2, and Healthy Subjects. <i>Diagnostics</i> , 2021 , 11,	3.8	0
52	High resolution breakpoint junction mapping of proximally extended D4Z4 deletions in FSHD1 reveals evidence for a founder effect. <i>Human Molecular Genetics</i> , 2021 ,	5.6	0
51	The CAM Model for Sarcoma and Its Potential Use for Precision Medicine. <i>Cells</i> , 2021 , 10,	7.9	1
50	ECrystallin in Mouse Skeletal Muscle Promotes a Shift from Glycolytic toward Oxidative Metabolism. <i>Current Research in Physiology</i> , 2021 , 4, 47-59	1.8	1
49	RNAi Therapy for Dominant Muscular Dystrophies and Other Myopathies. 2010 , 99-115		6

48	A genome-wide CRISPR/Cas phenotypic screen for modulators of DUX4 cytotoxicity reveals screen complications.		0
47	Transgenic mice expressing tunable levels of DUX4 develop characteristic facioscapulohumeral muscular dystrophy-like pathophysiology ranging in severity.		1
46	Single-nucleus RNA-seq identifies divergent populations of FSHD2 myotube nuclei.		1
45	AAV-mediated follistatin gene therapy improves functional outcomes in the TIC-DUX4 mouse model of FSHD. <i>JCI Insight</i> , 2018 , 3,	9.9	38
44	Estrogens enhance myoblast differentiation in facioscapulohumeral muscular dystrophy by antagonizing DUX4 activity. <i>Journal of Clinical Investigation</i> , 2017 , 127, 1531-1545	15.9	31
43	Complex evolution of a Y-chromosomal double homeobox 4 (DUX4)-related gene family in hominoids. <i>PLoS ONE</i> , 2009 , 4, e5288	3.7	7
42	Biphasic myopathic phenotype of mouse DUX, an ORF within conserved FSHD-related repeats. <i>PLoS ONE</i> , 2009 , 4, e7003	3.7	47
41	Variation in array size, monomer composition and expression of the macrosatellite DXZ4. <i>PLoS ONE</i> , 2011 , 6, e18969	3.7	18
40	Expression profiling of FSHD-1 and FSHD-2 cells during myogenic differentiation evidences common and distinctive gene dysregulation patterns. <i>PLoS ONE</i> , 2011 , 6, e20966	3.7	35
39	DNA replication timing is maintained genome-wide in primary human myoblasts independent of D4Z4 contraction in FSH muscular dystrophy. <i>PLoS ONE</i> , 2011 , 6, e27413	3.7	19
38	FSHD myotubes with different phenotypes exhibit distinct proteomes. <i>PLoS ONE</i> , 2012 , 7, e51865	3.7	20
37	DUX4 differentially regulates transcriptomes of human rhabdomyosarcoma and mouse C2C12 cells. <i>PLoS ONE</i> , 2013 , 8, e64691	3.7	47
36	Facioscapulohumeral Muscular Dystrophy: More Complex than it Appears. <i>Current Molecular Medicine</i> , 2014 , 14, 1052-1068	2.5	22
35	Gene Editing Targeting the DUX4 Polyadenylation Signal: A Therapy for FSHD?. <i>Journal of Personalized Medicine</i> , 2020 , 11,	3.6	3
34	Modeling diseases of noncoding unstable repeat expansions using mutant pluripotent stem cells. <i>World Journal of Stem Cells</i> , 2015 , 7, 823-38	5.6	6
33	Inactivation of the CIC-DUX4 oncogene through P300/CBP inhibition, a therapeutic approach for CIC-DUX4 sarcoma. <i>Oncogenesis</i> , 2021 , 10, 68	6.6	0
32	DNA crosslinking and recombination-activating genes 1/2 (RAG1/2) are required for oncogenic splicing in acute lymphoblastic leukemia. <i>Cancer Communications</i> , 2021 , 41, 1116-1136	9.4	1
31	Facioscapulohumeral Muscular Dystrophy.		

30	FSHD: A Subtelomere-Associated Disease. 2014 , 165-185		
29	  Russian <i>Journal of Genetics</i> , 2017 , 651-662	0.8	
28	Molecular signatures of differential responses to exercise trainings during rehabilitation. 2017 , 2,		2
27	p53 is not necessary for DUX4 pathology.		
26	Facioscapulohumeral Muscular Dystrophy: Genetics. 1-13		2
25	Transcriptomic Approaches for Muscle Biology and Disorders. 2019 , 79-107		
24	4q-D4Z4 chromatin architecture regulates the transcription of muscle atrophic genes in FSHD.		
23	Lymphocytes contribute to DUX4 target genes in FSHD muscle biopsies.		1
22	Muscular Dystrophy- Facioscapulohumeral Dystrophy - A Rare Autosomal Dominant Disorder. <i>Journal of Evolution of Medical and Dental Sciences</i> , 2020 , 9, 1616-1618	0.1	
21	Testing the effects of FSHD candidate gene expression in vertebrate muscle development. <i>International Journal of Clinical and Experimental Pathology</i> , 2010 , 3, 386-400	1.4	67
20	Nucleolar-based Dux repression is essential for 2-cell stage exit.		0
19	The asymmetric Pitx2 gene regulates gut muscular-lacteal development and protects against fatty liver disease. <i>Cell Reports</i> , 2021 , 37, 110030	10.6	0
18	Improving molecular and histopathology in diaphragm muscle of the double transgenic ACTA1-MCM/FLEXDUX4 mouse model of FSHD with systemic antisense therapy.. <i>Human Gene Therapy</i> , 2022 ,	4.8	1
17	Zygotic gene activation in mice: profile and regulation.. <i>Journal of Reproduction and Development</i> , 2022 ,	2.1	1
16	Cross-sectional, Neuromuscular Phenotyping Study of Arhinia Patients With Variants.. <i>Neurology</i> , 2022 ,	6.5	1
15	The evolution of DUX4 gene regulation and its implication for facioscapulohumeral muscular dystrophy.. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022 , 1868, 166367	6.9	1
14	Human miRNA miR-675 inhibits DUX4 expression and may be exploited as a potential treatment for Facioscapulohumeral muscular dystrophy. <i>Nature Communications</i> , 2021 , 12, 7128	17.4	3
13	Outcome Measures in Facioscapulohumeral Muscular Dystrophy Clinical Trials.. <i>Cells</i> , 2022 , 11,	7.9	2

12	Considerations and practical implications of performing a phenotypic CRISPR/Cas survival screen.. <i>PLoS ONE</i> , 2022 , 17, e0263262	3.7	1
11	Nucleolar-based repression is essential for embryonic two-cell stage exit.. <i>Genes and Development</i> , 2022 ,	12.6	1
10	Long-Term Systemic Treatment of a Mouse Model Displaying Chronic FSHD-like Pathology with Antisense Therapeutics That Inhibit DUX4 Expression. <i>Biomedicines</i> , 2022 , 10, 1623	4.8	0
9	ANT1 overexpression models: Some similarities with facioscapulohumeral muscular dystrophy. 2022 , 56, 102450		
8	Methylation of the 4q35 D4Z4 repeat defines disease status in facioscapulohumeral muscular dystrophy.		0
7	Update on the Molecular Aspects and Methods Underlying the Complex Architecture of FSHD. 2022 , 11, 2687		0
6	Antagonism Between DUX4 and DUX4c Highlights a Pathomechanism Operating Through E-Catenin in Facioscapulohumeral Muscular Dystrophy. 10,		0
5	A circulating biomarker of facioscapulohumeral muscular dystrophy clinical severity, valid in skeletal muscle and blood.		0
4	Facioscapulohumeral muscular dystrophy: the road to targeted therapies.		0
3	The double homeodomain protein DUX4c is associated with regenerating muscle fibers and RNA-binding proteins. 2023 , 13,		0
2	Nutritional Status of Patients with Facioscapulohumeral Muscular Dystrophy. 2023 , 15, 1673		0
1	268th ENCM workshop - Genetic diagnosis, clinical classification, outcome measures, and biomarkers in Facioscapulohumeral Muscular Dystrophy (FSHD): relevance for clinical trials. 2023 ,		0