

Andrés F. Muro

List of Publications by Year in descending order

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84
papers

3,804
citations

147566

31
h-index

128067

60
g-index

86
all docs

86
docs citations

86
times ranked

4808
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrin- α 9 Is Required for Fibronectin Matrix Assembly during Lymphatic Valve Morphogenesis. <i>Developmental Cell</i> , 2009, 17, 175-186.	3.1	290
2	New insights into form and function of fibronectin splice variants. <i>Journal of Pathology</i> , 2008, 216, 1-14.	2.1	288
3	Coupling of Transcription with Alternative Splicing. <i>Molecular Cell</i> , 1999, 4, 251-258.	4.5	274
4	Regulated splicing of the fibronectin EDA exon is essential for proper skin wound healing and normal lifespan. <i>Journal of Cell Biology</i> , 2003, 162, 149-160.	2.3	274
5	An Essential Role for Fibronectin Extra Type III Domain A in Pulmonary Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 638-645.	2.5	257
6	Brain-specific promoter and polyadenylation sites of the α -adducin pre-mRNA generate an unusually long 3'-UTR. <i>Nucleic Acids Research</i> , 2006, 34, 243-253.	6.5	201
7	Fibronectin splice variants: Understanding their multiple roles in health and disease using engineered mouse models. <i>IUBMB Life</i> , 2011, 63, 538-546.	1.5	141
8	EDA-containing cellular fibronectin induces fibroblast differentiation through binding to α 4 β 7 integrin receptor and MAPK/Erk 1/2-dependent signaling. <i>FASEB Journal</i> , 2010, 24, 4503-4512.	0.2	130
9	Regulation of Fibronectin EDA Exon Alternative Splicing: Possible Role of RNA Secondary Structure for Enhancer Display. <i>Molecular and Cellular Biology</i> , 1999, 19, 2657-2671.	1.1	123
10	RNA Folding Affects the Recruitment of SR Proteins by Mouse and Human Polypurinic Enhancer Elements in the Fibronectin EDA Exon. <i>Molecular and Cellular Biology</i> , 2004, 24, 1387-1400.	1.1	106
11	A Major Fraction of Fibronectin Present in the Extracellular Matrix of Tissues Is Plasma-derived. <i>Journal of Biological Chemistry</i> , 2007, 282, 28057-28062.	1.6	104
12	Life-Long Correction of Hyperbilirubinemia with a Neonatal Liver-Specific AAV-Mediated Gene Transfer in a Lethal Mouse Model of Crigler-Najjar Syndrome. <i>Human Gene Therapy</i> , 2014, 25, 844-855.	1.4	74
13	Rescue of bilirubin-induced neonatal lethality in a mouse model of Crigler-Najjar syndrome type I by AAV9-mediated gene transfer. <i>FASEB Journal</i> , 2012, 26, 1052-1063.	0.2	71
14	A Polar Mechanism Coordinates Different Regions of Alternative Splicing within a Single Gene. <i>Molecular Cell</i> , 2005, 19, 393-404.	4.5	63
15	EMILIN1/ α 9 β 1 Integrin Interaction Is Crucial in Lymphatic Valve Formation and Maintenance. <i>Molecular and Cellular Biology</i> , 2013, 33, 4381-4394.	1.1	62
16	Control of fibroblast fibronectin expression and alternative splicing via the PI3K/Akt/mTOR pathway. <i>Experimental Cell Research</i> , 2010, 316, 2644-2653.	1.2	59
17	Recipient-derived EDA fibronectin promotes cardiac allograft fibrosis. <i>Journal of Pathology</i> , 2012, 226, 609-618.	2.1	50
18	A translationally optimized AAV-UGT1A1 vector drives safe and long-lasting correction of Crigler-Najjar syndrome. <i>Molecular Therapy - Methods and Clinical Development</i> , 2016, 3, 16049.	1.8	50

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19	Prothrombotic Effects of Fibronectin Isoforms Containing the EDA Domain. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 296-301.	1.1	46
20	Promoterless gene targeting without nucleases rescues lethality of a Crigler-Najjar syndrome mouse model. <i>EMBO Molecular Medicine</i> , 2017, 9, 1346-1355.	3.3	46
21	Absence of regulated splicing of fibronectin EDA exon reduces atherosclerosis in mice. <i>Atherosclerosis</i> , 2008, 197, 534-540.	0.4	45
22	Preclinical Development of an AAV8-hUGT1A1 Vector for the Treatment of Crigler-Najjar Syndrome. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019, 12, 157-174.	1.8	45
23	Regulation of the fibronectin EDA exon alternative splicing. Cooperative role of the exonic enhancer element and the 5' splicing site. <i>FEBS Letters</i> , 1998, 437, 137-141.	1.3	41
24	Bilirubin-Induced Oxidative Stress Leads to DNA Damage in the Cerebellum of Hyperbilirubinemic Neonatal Mice and Activates DNA Double-Strand Break Repair Pathways in Human Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-11.	1.9	41
25	TDP-43 regulates β -adducin (β -Add2) transcript stability. <i>RNA Biology</i> , 2014, 11, 1280-1290.	1.5	40
26	β -adducin (Add2) KO mice show synaptic plasticity, motor coordination and behavioral deficits accompanied by changes in the expression and phosphorylation levels of the α - and β -adducin subunits. <i>Genes, Brain and Behavior</i> , 2010, 9, 84-96.	1.1	39
27	Attenuation of neuro-inflammation improves survival and neurodegeneration in a mouse model of severe neonatal hyperbilirubinemia. <i>Brain, Behavior, and Immunity</i> , 2018, 70, 166-178.	2.0	39
28	Hypertension in β -Adducin-Deficient Mice. <i>Hypertension</i> , 2000, 36, 449-453.	1.3	37
29	Age-dependent pattern of cerebellar susceptibility to bilirubin neurotoxicity <i>in vivo</i> . <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 1057-68.	1.2	36
30	EDA fibronectin-TLR4 axis sustains megakaryocyte expansion and inflammation in bone marrow fibrosis. <i>Journal of Experimental Medicine</i> , 2019, 216, 587-604.	4.2	36
31	Inflammatory signature of cerebellar neurodegeneration during neonatal hyperbilirubinemia in <i>Ugt1</i> $-/-$ mouse model. <i>Journal of Neuroinflammation</i> , 2017, 14, 64.	3.1	34
32	Impairment of enzymatic antioxidant defenses is associated with bilirubin-induced neuronal cell death in the cerebellum of <i>Ugt1</i> KO mice. <i>Cell Death and Disease</i> , 2015, 6, e1739-e1739.	2.7	33
33	Alternative splicing of fibronectin: a mouse model demonstrates the identity of <i>in vitro</i> and <i>in vivo</i> systems and the processing autonomy of regulated exons in adult mice. <i>Gene</i> , 2004, 324, 55-63.	1.0	32
34	Coupling AAV-mediated promoterless gene targeting to SaCas9 nuclease to efficiently correct liver metabolic diseases. <i>JCI Insight</i> , 2019, 4, .	2.3	28
35	The extra domain A of fibronectin is essential for allergen-induced airway fibrosis and hyperresponsiveness in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 127, 439-446.e5.	1.5	27
36	Repeated AAV-mediated gene transfer by serotype switching enables long-lasting therapeutic levels of hUgt1a1 enzyme in a mouse model of Crigler-Najjar Syndrome Type I. <i>Gene Therapy</i> , 2017, 24, 649-660.	2.3	27

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37	CPEB2, CPEB3 and CPEB4 are coordinately regulated by miRNAs recognizing conserved binding sites in paralog positions of their 3' UTRs. <i>Nucleic Acids Research</i> , 2010, 38, 7698-7710.	6.5	25
38	The CRE-binding factor ATF-2 facilitates the occupation of the CCAAT box in the fibronectin gene promoter. <i>FEBS Letters</i> , 1993, 327, 25-28.	1.3	24
39	Hypertension-Linked Decrease in the Expression of Brain β -Adducin. <i>Circulation Research</i> , 2002, 91, 633-639.	2.0	22
40	Albumin administration prevents neurological damage and death in a mouse model of severe neonatal hyperbilirubinemia. <i>Scientific Reports</i> , 2015, 5, 16203.	1.6	22
41	Impaired motor coordination in mice lacking the EDA exon of the fibronectin gene. <i>Behavioural Brain Research</i> , 2005, 161, 31-38.	1.2	21
42	Fibronectin extra domain A stabilises atherosclerotic plaques in apolipoprotein E and in LDL-receptor-deficient mice. <i>Thrombosis and Haemostasis</i> , 2015, 114, 186-197.	1.8	21
43	EDA-Containing Fibronectin Increases Proliferation of Embryonic Stem Cells. <i>PLoS ONE</i> , 2013, 8, e80681.	1.1	21
44	Characterisation and chromosomal localisation of the rat β - and β -adducin-encoding genes. <i>Gene</i> , 1995, 166, 307-311.	1.0	19
45	Genomic organisation and chromosomal localisation of the gene encoding human beta adducin. <i>Gene</i> , 1995, 167, 313-316.	1.0	19
46	<i>Neurospora crassa</i> cDNA clones coding for a new member of the aspartate protein family. <i>FEBS Letters</i> , 1990, 273, 103-106.	1.3	17
47	Involvement of fibronectin in the regulation of urokinase production and binding in murine mammary tumor cells. <i>J Biol Chem</i> , 1999, 274, 748-753.		17
48	The erythrocyte skeletons of β -adducin deficient mice have altered levels of tropomyosin, tropomodulin and EcapZ. <i>FEBS Letters</i> , 2004, 576, 36-40.	1.3	17
49	Lack of Fibronectin Extra Domain A Alternative Splicing Exacerbates Endothelial Dysfunction in Diabetes. <i>Scientific Reports</i> , 2016, 6, 37965.	1.6	17
50	Advances in understanding disease mechanisms and potential treatments for Crigler-Najjar syndrome. <i>Expert Opinion on Orphan Drugs</i> , 2018, 6, 425-439.	0.5	17
51	Expression of RGD minus fibronectin that does not form extracellular matrix fibrils is sufficient to decrease tumor metastasis. <i>J Biol Chem</i> , 1998, 273, 233-241.		16
52	Beclin-1-mediated activation of autophagy improves proximal and distal urea cycle disorders. <i>EMBO Molecular Medicine</i> , 2021, 13, e13158.	3.3	16
53	An Exonic Splicing Enhancer Offsets the Atypical GU-rich 3' Splice Site of Human Apolipoprotein A-II Exon 3. <i>Journal of Biological Chemistry</i> , 2004, 279, 39331-39339.	1.6	15
54	Experimental models assessing bilirubin neurotoxicity. <i>Pediatric Research</i> , 2020, 87, 17-25.	1.1	14

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55	DNA sequencing by the chemical method: a 10 minute procedure for the G+A reaction. <i>Trends in Genetics</i> , 1993, 9, 337-338.	2.9	13
56	Binding of nuclear factors to a satellite DNA of retroviral origin with marked differences in copy number among species of the rodent <i>Ctenomys</i> . <i>Nucleic Acids Research</i> , 1994, 22, 656-661.	6.5	13
57	Modulation of bilirubin neurotoxicity by the <i>Abcb1</i> transporter in the <i>Ugt1</i> ^{-/-} lethal mouse model of neonatal hyperbilirubinemia. <i>Human Molecular Genetics</i> , 2016, 26, ddw375.	1.4	13
58	Long-term correction of ornithine transcarbamylase deficiency in Spf-Ash mice with a translationally optimized AAV vector. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 20, 169-180.	1.8	12
59	Human liver stem cells express <i>UGT1A1</i> and improve phenotype of immunocompromised Crigler Najjar syndrome type I mice. <i>Scientific Reports</i> , 2020, 10, 887.	1.6	11
60	Generation of <i>Ugt1</i> -Deficient Murine Liver Cell Lines Using TALEN Technology. <i>PLoS ONE</i> , 2014, 9, e104816.	1.1	11
61	Regulation of the human apolipoprotein AIV gene expression in transgenic mice. <i>FEBS Letters</i> , 1999, 445, 45-52.	1.3	9
62	Brief Report: Alternative Splicing of Extra Domain A (EIIIA) of Fibronectin Plays a Tissue-Specific Role in Hematopoietic Homeostasis. <i>Stem Cells</i> , 2016, 34, 2263-2268.	1.4	9
63	A Quantitative In Vitro Potency Assay for Adeno-Associated Virus Vectors Encoding for the <i>UGT1A1</i> Transgene. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 250-258.	1.8	9
64	Efficacy of AAV8-h <i>UGT1A1</i> with Rapamycin in neonatal, suckling, and juvenile rats to model treatment in pediatric CNs patients. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 20, 287-297.	1.8	9
65	Unexpected Rescue of Alpha-synuclein and Multimerin1 Deletion in C57BL/6J <i>OlaHsd</i> Mice by Beta-adducin Knockout. <i>Transgenic Research</i> , 2006, 15, 255-259.	1.3	8
66	Characterization of the Distal Polyadenylation Site of the β -Adducin (<i>Add2</i>) Pre-mRNA. <i>PLoS ONE</i> , 2013, 8, e58879.	1.1	8
67	Promoterless Gene Targeting Approach Combined to CRISPR/Cas9 Efficiently Corrects Hemophilia B Phenotype in Neonatal Mice. <i>Frontiers in Genome Editing</i> , 2022, 4, 785698.	2.7	8
68	Fludarabine increases nuclease-free AAV- and CRISPR/Cas9-mediated homologous recombination in mice. <i>Nature Biotechnology</i> , 2022, 40, 1285-1294.	9.4	8
69	Identification of 3â€² gene ends using transcriptional and genomic conservation across vertebrates. <i>BMC Genomics</i> , 2012, 13, 708.	1.2	5
70	Extra domain-A fibronectin is necessary for the development of nasal remodeling in chronic allergen-induced rhinitis. <i>Annals of Allergy, Asthma and Immunology</i> , 2013, 110, 322-327.	0.5	5
71	Structural and Functional Analysis of the cAMP Binding Domain from the Regulatory Subunit of <i>Mucor rouxii</i> Protein Kinase A. <i>Archives of Biochemistry and Biophysics</i> , 2000, 382, 173-181.	1.4	4
72	Alternatively spliced fibronectin extra domain A is required for hemangiogenic recovery upon bone marrow chemotherapy. <i>Haematologica</i> , 2018, 103, e42-e45.	1.7	4

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73	Long-distance regulation of Add2 pre-mRNA 3' end processing. RNA Biology, 2013, 10, 516-527.	1.5	3
74	EDA Fibronectin-TLR4 Axis Sustains Megakaryocyte Expansion and Inflammation during Bone Marrow Fibrosis Progression. Blood, 2018, 132, 1781-1781.	0.6	3
75	Long-Term Effects of Biliverdin Reductase a Deficiency in Ugt1 ^{-/-} Mice: Impact on Redox Status and Metabolism. Antioxidants, 2021, 10, 2029.	2.2	3
76	Stam2 expression pattern during embryo development. Gene Expression Patterns, 2012, 12, 68-76.	0.3	2
77	Gene Therapy in Pediatric Liver Disease. , 2019, , 799-829.		2
78	158. Cryptic ATG Removal from Synthetic Introns Increase the Therapeutic Efficacy of AAV Vector Mediated Gene Transfer. Molecular Therapy, 2016, 24, S62.	3.7	1
79	Absence of fibronectin-EDA contributes to sepsis outcomes in a murine model. Atherosclerosis, 2016, 252, e179.	0.4	1
80	Extra Domain A Fibronectin Promotes Fibrotic Remodeling In Chronic Cardiac Allograft Rejection. , 2011, , .		0
81	547. Untranslated Region Optimization Increases Transgene mRNA and Protein Levels, Resulting in Enhanced Therapeutic Efficacy of AAV Vector Gene Transfer In Vivo for Crigler-Najjar Syndrome. Molecular Therapy, 2015, 23, S219-S220.	3.7	0
82	688. AAV8-Mediated Liver Gene Targeting Without Nucleases Rescues Lethality in a Mouse Model of the Crigler-Najjar Syndrome. Molecular Therapy, 2015, 23, S274.	3.7	0
83	704. Long-Term Correction of Crigler-Najjar Syndrome and Scale-Up Production of an Optimized AAV8 Vector Expressing the UGT1A1 Transgene. Molecular Therapy, 2015, 23, S280-S281.	3.7	0
84	Low efficacy of recombinant SV40 in Ugt1a1 ^{-/-} mice with severe inherited hyperbilirubinemia. PLoS ONE, 2021, 16, e0250605.	1.1	0