I Cassar-Malek

List of Publications by Citations

73 papers	2,454 citations	25 h-index	48 g-index
84 ext. papers	2,739 ext. citations	3.7 avg, IF	4.55 L-index

#	Paper	IF	Citations
73	Myostatin and the skeletal muscle atrophy and hypertrophy signaling pathways. *Cellular and Molecular Life Sciences*, **2014**, 71, 4361-71	10.3	195
72	A variant form of the nuclear triiodothyronine receptor c-ErbAalpha1 plays a direct role in regulation of mitochondrial RNA synthesis. *Molecular and Cellular Biology*, **1999**, 19, 7913-24	4.8	179
71	New indicators of beef sensory quality revealed by expression of specific genes. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 5229-37	5.7	162
70	A 43-kDa protein related to c-Erb A alpha 1 is located in the mitochondrial matrix of rat liver. *Journal of Biological Chemistry*, **1995**, 270, 16347-54	5.4	158
69	Mitochondrial activity is involved in the regulation of myoblast differentiation through myogenin expression and activity of myogenic factors. *Journal of Biological Chemistry*, **2000**, 275, 2733-44	5.4	143
68	Adipocyte fatty acid-binding protein and mitochondrial enzyme activities in muscles as relevant indicators of marbling in cattle. *Journal of Animal Science*, **2007**, 85, 2660-9	0.7	107
67	Inverse relationships between biomarkers and beef tenderness according to contractile and metabolic properties of the muscle. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 9808-18	5.7	105
66	Ontogenesis of muscle and adipose tissues and their interactions in ruminants and other species. *Animal*, **2010**, 4, 1093-109	3.1	79
65	Recent advances in cattle functional genomics and their application to beef quality. *Animal*, **2007**, 1, 159-73	3.1	69
64	Variations in the abundance of 24 protein biomarkers of beef tenderness according to muscle and animal type. *Animal*, **2011**, 5, 885-94	3.1	63
63	A simplified immunohistochemical classification of skeletal muscle fibres in mouse. *European Journal of Histochemistry*, **2014**, 58, 2254	2.1	62
62	Recent advances in omic technologies for meat quality management. *Meat Science*, **2015**, 109, 18-26	6.4	59
61	Molecular profiles of Quadriceps muscle in myostatin-null mice reveal PI3K and apoptotic pathways as myostatin targets. *BMC Genomics*, **2009**, 10, 196	4.5	59
60	Target genes of myostatin loss-of-function in muscles of late bovine fetuses. *BMC Genomics*, **2007**, 8, 63	4.5	55
59	Glucose-6-phosphate dehydrogenase and leptin are related to marbling differences among Limousin and Angus or Japanese Black x Angus steers. *Journal of Animal Science*, **2007**, 85, 2882-94	0.7	54
58	Muscle-specific metabolic, histochemical and biochemical responses to a nutritionally induced discontinuous growth path. *Animal Science*, **2004**, 79, 49-59		49
57	BTG1: a triiodothyronine target involved in the myogenic influence of the hormone. *Experimental Cell Research*, **1999**, 249, 337-48	4.2	48

56	Evidence for expression of IIb myosin heavy chain isoform in some skeletal muscles of Blonde dVAquitaine bulls. *Meat Science*, **2009**, 82, 30-6	6.4	47
55	Changes in muscle gene expression related to metabolism according to growth potential in young bulls. *Meat Science*, **2009**, 82, 205-12	6.4	40
54	Stimulation of avian myoblast differentiation by triiodothyronine: possible involvement of the cAMP pathway. *Experimental Cell Research*, **1995**, 220, 1-10	4.2	40
53	Biochemical and transcriptomic analyses of two bovine skeletal muscles in Charolais bulls divergently selected for muscle growth. *Meat Science*, **2005**, 70, 267-77	6.4	39
52	Responses to nutrients in farm animals: implications for production and quality. *Animal*, **2007**, 1, 1297-313	3.1	27
51	Transcriptome analysis of two bovine muscles during ontogenesis. *Journal of Biochemistry*, **2003**, 133, 745-56	3.1	26
50	Comparison of contractile characteristics of muscle from Holstein and double-muscled Belgian Blue foetuses. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2001**, 131, 21-9	2.6	26
49	Application of gene expression studies in livestock production systems: a European perspective. *Australian Journal of Experimental Agriculture*, **2008**, 48, 701		25
48	Influence of feeding level during postweaning growth on circulating concentrations of thyroid hormones and extrathyroidal 5Vdeiodination in steers. *Journal of Animal Science*, **2001**, 79, 2679-87	0.7	25
47	Regulation of bovine satellite cell proliferation and differentiation by insulin and triiodothyronine. *Domestic Animal Endocrinology*, **1999**, 17, 373-88	2.3	25
46	Triiodothyronine influences quail myoblast proliferation and differentiation. *Biology of the Cell*, **1993**, 78, 191-7	3.5	25
45	Relationships between muscle growth potential, intramuscular fat content and different indicators of muscle fibre types in young Charolais bulls. *Animal Science Journal*, **2012**, 83, 750-8	1.8	24
44	The GENOTEND chip: a new tool to analyse gene expression in muscles of beef cattle for beef quality prediction. *BMC Veterinary Research*, **2012**, 8, 135	2.7	24
43	Induction of c-Erb A-AP-1 interactions and c-Erb A transcriptional activity in myoblasts by RXR. Consequences for muscle differentiation. *Journal of Biological Chemistry*, **1996**, 271, 11392-9	5.4	23
42	Dietary n-3 PUFA affect lipid metabolism and tissue function-related genes in bovine muscle. *British Journal of Nutrition*, **2012**, 108, 858-63	3.6	22
41	Location of myostatin expression during bovine myogenesis in vivo and in vitro. *Reproduction, Nutrition, Development*, **2003**, 43, 527-42		21
40	Opposing functions of ATF2 and Fos-like transcription factors in c-Jun-mediated myogenin expression and terminal differentiation of avian myoblasts. *Oncogene*, **2001**, 20, 7998-8008	9.2	21
39	Myostatin inactivation induces a similar muscle molecular signature in double-muscled cattle as in mice. *Animal*, **2011**, 5, 278-86	3.1	19

38	Adipocyte metabolism and cellularity are related to differences in adipose tissue maturity between Holstein and Charolais or Blond d'Aquitaine fetuses. *Journal of Animal Science*, **2011**, 89, 711-21	0.7	19
37	Expression Marker-Based Strategy to Improve Beef Quality. *Scientific World Journal, The*, **2016**, 2016, 2185323	2.2	19
36	Exploration of Biological Markers of Feed Efficiency in Young Bulls. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 9817-9827	5.7	17
35	Relationships between thyroid status, tissue oxidative metabolism, and muscle differentiation in bovine fetuses. *Domestic Animal Endocrinology*, **2007**, 33, 91-106	2.3	17
34	Expression of enzymes and transcription factors involved in n-3 long chain PUFA biosynthesis in limousin bull tissues. *Lipids*, **2012**, 47, 391-401	1.6	16
33	Calcium Homeostasis and Muscle Energy Metabolism Are Modified in HspB1-Null Mice. *Proteomes*, **2016**, 4,	4.6	16
32	Label free shotgun proteomics for the identification of protein biomarkers for beef tenderness in muscle and plasma of heifers. *Journal of Proteomics*, **2020**, 217, 103685	3.9	15
31	The triiodothyronine nuclear receptor c-ErbAalpha1 inhibits avian MyoD transcriptional activity in myoblasts. *FEBS Letters*, **2001**, 508, 236-40	3.8	15
30	Validation of a Dot-Blot quantitative technique for large scale analysis of beef tenderness biomarkers. *Journal of Physiology and Pharmacology*, **2009**, 60 Suppl 3, 91-7	2.1	15
29	Changes in mitochondrial activity during avian myoblast differentiation: influence of triiodothyronine or v-erb A expression. *Journal of Cellular Physiology*, **1996**, 168, 239-47	7	13
28	The Invalidation of HspB1 Gene in Mouse Alters the Ultrastructural Phenotype of Muscles. *PLoS ONE*, **2016**, 11, e0158644	3.7	13
27	v-erbA stimulates quail myoblast differentiation in a T3 independent, cell-specific manner. *Oncogene*, **1994**, 9, 2197-206	9.2	12
26	Comparison of cloned and non-cloned Holstein heifers in muscle contractile and metabolic characteristics. *Animal*, **2009**, 3, 244-50	3.1	11
25	La maîtrise de la tendreté de la viande bovine : identification de marqueurs biologiques. *INRA Productions Animales*, **2020**, 22, 331-344	0.5	11
24	Expression of DNAJA1 in bovine muscles according to developmental age and management factors. *Animal*, **2011**, 5, 867-74	3.1	9
23	A collection of bovine cDNA probes for gene expression profiling in muscle. *Molecular and Cellular Probes*, **2005**, 19, 61-70	3.3	9
22	Aggregation of Omic Data and Secretome Prediction Enable the Discovery of Candidate Plasma Biomarkers for Beef Tenderness. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
21	Molecular regulation of high muscle mass in developing Blonde d'Aquitaine cattle foetuses. *Biology Open*, **2017**, 6, 1483-1492	2.2	8

20	A network-based approach for predicting Hsp27 knock-out targets in mouse skeletal muscles. *Computational and Structural Biotechnology Journal*, **2013**, 6, e201303008	6.8	8
19	Pasture-feeding of Charolais steers influences skeletal muscle metabolism and gene expression. *Journal of Physiology and Pharmacology*, **2009**, 60 Suppl 3, 83-90	2.1	8
18	Integrated data mining of transcriptomic and proteomic datasets to predict the secretome of adipose tissue and muscle in ruminants. *Molecular BioSystems*, **2016**, 12, 2722-34		7
17	Myogenesis is delayed in bovine fetal clones. *Cellular Reprogramming*, **2010**, 12, 191-201	2.1	7
16	Effects of hay quality on intake, growth path, body composition and muscle characteristics of Salers heifers. *Animal Research*, **2005**, 54, 241-257		6
15	Quest for Novel Muscle Pathway Biomarkers by Proteomics in Beef Production **2011**, 395-405		4
14	Image analysis and data normalization procedures are crucial for microarray analyses. *Gene Regulation and Systems Biology*, **2008**, 2, 107-12	2	4
13	Autophagy in farm animals: current knowledge and future challenges. *Autophagy*, **2021**, 17, 1809-1827	10.2	4
12	Molecular basis of the cell-specific activity of v-erb A in quail myoblasts. *Oncogene*, **1997**, 14, 1099-108	9.2	3
11	Does growth path influence beef lipid deposition and fatty acid composition?. *PLoS ONE*, **2018**, 13, e0193875	3.7	2
10	Abundance of some skeletal muscle mitochondrial proteins is associated with increased blood serum insulin in bovine fetuses. *Research in Veterinary Science*, **2010**, 89, 445-50	2.5	2
9	Transcriptome analysis of muscle in order to identify genes which determine muscle characteristics and sensory quality traits of beef. *Sciences Des Aliments*, **2003**, 23, 65-69		2
8	Immunohistochemical analysis of bFGF, TGF-beta1 and catalase in rectus abdominis muscle from cattle foetuses at 180 and 260 days post-conception. *Tissue and Cell*, **2002**, 34, 416-26	2.7	1
7	Myostatin gene inactivation increases post-mortem calpain-dependent muscle proteolysis in mice.. *Meat Science*, **2021**, 185, 108726	6.4	0
6	v-erb A and v-erb B do not cooperate in quail myoblasts. *International Journal of Oncology*, **1997**, 11, 1095-101	3.5	
5	Influence of the oncoprotein v-erbA on quail myoblast proliferation and differentiation. *Biology of the Cell*, **1992**, 76, 219-219	3.5	
4	Throdothyronine influences quail myoblast proliferation and differentiation, as cAMP production. *Biology of the Cell*, **1992**, 76, 220-220	3.5	
3	Quest for Novel Muscle Pathway Biomarkers Using Proteomics in Beef Production **2017**, 404-414		

2 Herbivore nutrition supporting sustainable intensification and agro-ecological approaches. *Animal*, **2018**, 12, s185-s187 3.1

1 Transcriptome profiling reveals stress-responsive gene networks in cattle muscles.. *PeerJ*, **2022**, 10, e13150 3.1