Ana S H Costa

List of Publications by Year
in descending order

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57 papers	7,697 citations	201658 27 h-index	144002 57 g-index
61 all docs	61 docs citations	61 times ranked	13569 citing authors

#	Article	IF	Citations
1	Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. Nature, 2014, 515, 431-435.	27.8	1,989
2	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. Cell, 2016, 167, 457-470.e13.	28.9	1,396
3	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. Nature, 2018, 556, 113-117.	27.8	1,115
4	Fumarate is an epigenetic modifier that elicits epithelial-to-mesenchymal transition. Nature, 2016, 537, 544-547.	27.8	443
5	Macrophage-Derived Extracellular Succinate Licenses Neural Stem Cells to Suppress Chronic Neuroinflammation. Cell Stem Cell, 2018, 22, 355-368.e13.	11.1	216
6	Identification of methylated deoxyadenosines in vertebrates reveals diversity in DNA modifications. Nature Structural and Molecular Biology, 2016, 23, 24-30.	8.2	215
7	Effect of cooking methods on fatty acids, conjugated isomers of linoleic acid and nutritional quality of beef intramuscular fat. Meat Science, 2010, 84, 769-777.	5.5	162
8	Effect of the feeding system on intramuscular fatty acids and conjugated linoleic acid isomers of beef cattle, with emphasis on their nutritional value and discriminatory ability. Food Chemistry, 2009, 114, 939-946.	8.2	158
9	Cell Surface Proteomic Map of HIV Infection RevealsÂAntagonism of Amino Acid Metabolism by Vpu and Nef. Cell Host and Microbe, 2015, 18, 409-423.	11.0	158
10	Mitochondria-Endoplasmic Reticulum Contact Sites Function as Immunometabolic Hubs that Orchestrate the Rapid Recall Response of Memory CD8+ T Cells. Immunity, 2018, 48, 542-555.e6.	14.3	133
11	Bone Marrow Mesenchymal Stem Cells Support Acute Myeloid Leukemia Bioenergetics and Enhance Antioxidant Defense and Escape from Chemotherapy. Cell Metabolism, 2020, 32, 829-843.e9.	16.2	122
12	Glutaminolysis is a metabolic dependency in FLT3ITD acute myeloid leukemia unmasked by FLT3 tyrosine kinase inhibition. Blood, 2018, 131, 1639-1653.	1.4	114
13	Mitochondrial Protein Lipoylation and the 2-Oxoglutarate Dehydrogenase Complex Controls HIF1Î± Stability in Aerobic Conditions. Cell Metabolism, 2016, 24, 740-752.	16.2	112
14	Extracellular vesicles are independent metabolic units with asparaginase activity. Nature Chemical Biology, 2017, 13, 951-955.	8.0	107
15	Succinate accumulation drives ischaemia-reperfusion injury during organ transplantation. Nature Metabolism, 2019, 1, 966-974.	11.9	103
16	Cancer associated fibroblast FAK regulates malignant cell metabolism. Nature Communications, 2020, 11, 1290.	12.8	95
17	Causal integration of multiâ€omics data with prior knowledge to generate mechanistic hypotheses. Molecular Systems Biology, 2021, 17, e9730.	7.2	78
18	Acute Iron Deprivation Reprograms Human Macrophage Metabolism and Reduces Inflammation InÂVivo. Cell Reports, 2019, 28, 498-511.e5.	6.4	75

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19	Metabolomic Profiling in Acute STâ€Segmentâ€“Elevation Myocardial Infarction Identifies Succinate as an Early Marker of Human Ischemiaâ€“Reperfusion Injury. Journal of the American Heart Association, 2018, 7, .	3.7	66
20	Dissection of metabolic reprogramming in polycystic kidney disease reveals coordinated rewiring of bioenergetic pathways. Communications Biology, 2018, 1, 194.	4.4	65
21	Control of endothelial quiescence by FOXO-regulated metabolites. Nature Cell Biology, 2021, 23, 413-423.	10.3	56
22	Mammalian Circadian Period, But Not Phase and Amplitude, Is Robust Against Redox and Metabolic Perturbations. Antioxidants and Redox Signaling, 2018, 28, 507-520.	5.4	48
23	Differential effects of reduced protein diets on fatty acid composition and gene expression in muscle and subcutaneous adipose tissue of Alentejana purebred and Large WhiteÃÃ—ÂLandraceÃÃ—ÂPietrain crossbred pigs. British Journal of Nutrition, 2013, 110, 216-229.	2.3	45
24	Expression of genes controlling fat deposition in two genetically diverse beef cattle breeds fed high or low silage diets. BMC Veterinary Research, 2013, 9, 118.	1.9	41
25	Ischemic preconditioning protects against cardiac ischemia reperfusion injury without affecting succinate accumulation or oxidation. Journal of Molecular and Cellular Cardiology, 2018, 123, 88-91.	1.9	38
26	Fumarate hydratase loss promotes mitotic entry in the presence of DNA damage after ionising radiation. Cell Death and Disease, 2018, 9, 913.	6.3	30
27	Actions of a nitric oxide donor on prostaglandin production and angiogenic activity in the equine endometrium. Reproduction, Fertility and Development, 2008, 20, 674.	0.4	29
28	ABHD11 maintains 2-oxoglutarate metabolism by preserving functional lipoylation of the 2-oxoglutarate dehydrogenase complex. Nature Communications, 2020, 11, 4046.	12.8	28
29	ASO-Based PKM Splice-Switching Therapy Inhibits Hepatocellular Carcinoma Growth. Cancer Research, 2022, 82, 900-915.	0.9	28
30	Post-translational regulation of metabolism in fumarate hydratase deficient cancer cells. Metabolic Engineering, 2018, 45, 149-157.	7.0	27
31	Effect of low- and high-forage diets on meat quality and fatty acid composition of Alentejana and BarrosÃ£ beef breeds. Animal, 2012, 6, 1187-1197.	3.3	26
32	BCAT1 affects mitochondrial metabolism independently of leucine transamination in activated human macrophages. Journal of Cell Science, 2020, 133, .	2.0	24
33	Long-Term Increased Carnitine Palmitoyltransferase 1A Expression in Ventromedial Hypotalamus Causes Hyperphagia and Alters the Hypothalamic Lipidomic Profile. PLoS ONE, 2014, 9, e97195.	2.5	23
34	Metabolic Reprogramming and Oncogenesis. International Review of Cell and Molecular Biology, 2017, 332, 213-231.	3.2	23
35	Eukaryotic cell biology is temporally coordinated to support the energetic demands of protein homeostasis. Nature Communications, 2020, 11, 4706.	12.8	23
36	Nitric oxide stimulates progesterone and prostaglandin E2 secretion as well as angiogenic activity in the equine corpus luteum. Domestic Animal Endocrinology, 2011, 40, 1-9.	1.6	22

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37	mTORC1ÂUpregulation Leads to Accumulation of the Oncometabolite Fumarate in a Mouse Model of Renal Cell Carcinoma. Cell Reports, 2018, 24, 1093-1104.e6.	6.4	20
38	A YAP/TAZ-TEAD signalling module links endothelial nutrient acquisition to angiogenic growth. Nature Metabolism, 2022, 4, 672-682.	11.9	20
39	Two parallel pathways connect glutamine metabolism and mTORC1 activity to regulate glutamoptosis. Nature Communications, 2021, 12, 4814.	12.8	19
40	Seasonal changes and muscle type effect on the nutritional quality of intramuscular fat in Mirandesa-PDO veal. Meat Science, 2012, 90, 819-827.	5.5	18
41	Effect of slaughter season and muscle type on the fatty acid composition, including conjugated linoleic acid isomers, and nutritional value of intramuscular fat in organic beef. Journal of the Science of Food and Agriculture, 2012, 92, 2428-2435.	3.5	16
42	Genetic Background and Diet Impact Beef Fatty Acid Composition and Stearoylâ€CoA Desaturase mRNA Expression. Lipids, 2013, 48, 369-381.	1.7	15
43	Signaling metabolite L-2-hydroxyglutarate activates the transcription factor HIF-1Î± in lipopolysaccharide-activated macrophages. Journal of Biological Chemistry, 2022, 298, 101501.	3.4	15
44	Carcass fat partitioning and meat quality of Alentejana and BarrosÃ£ young bulls fed high or low maize silage diets. Meat Science, 2013, 93, 405-412.	5.5	14
45	SLC5A3-Dependent Myo-inositol Auxotrophy in Acute Myeloid Leukemia. Cancer Discovery, 2022, 12, 450-467.	9.4	14
46	Progesterone and Caspase-3 Activation in Equine Cyclic Corpora Lutea. Reproduction in Domestic Animals, 2007, 42, 380-386.	1.4	13
47	Contrasting cellularity on fat deposition in the subcutaneous adipose tissue and longissimus lumborum muscle from lean and fat pigs under dietary protein reduction. Animal, 2014, 8, 629-637.	3.3	13
48	Repercussions of growth path on carcass characteristics, meat colour and shear force in Alentejana bulls. Animal, 2015, 9, 1414-1422.	3.3	13
49	CHCHD4 regulates tumour proliferation and EMT-related phenotypes, through respiratory chain-mediated metabolism. Cancer & Metabolism, 2019, 7, 7.	5.0	13
50	Contrasting Cellularity and Fatty Acid Composition in Fat Depots from Alentejana and BarrosÃ£ Bovine Breeds Fed High and Low Forage Diets. International Journal of Biological Sciences, 2012, 8, 214-227.	6.4	12
51	Differential mesenteric fat deposition in bovines fed on silage or concentrate is independent of glycerol membrane permeability. Animal, 2011, 5, 1949-1956.	3.3	10
52	Identification of Methylated Deoxyadenosines in Genomic DNA by dA6m DNA Immunoprecipitation. Bio-protocol, 2016, 6, .	0.4	10
53	Content and distribution of conjugated linoleic acid isomers in bovine milk, cheese and butter from Azores. Dairy Science and Technology, 2009, 89, 193-200.	2.2	7
54	The breast cancer oncogene IKKÎµ coordinates mitochondrial function and serine metabolism. EMBO Reports, 2020, 21, e48260.	4.5	6

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55	Does growth path influence beef lipid deposition and fatty acid composition?. PLoS ONE, 2018, 13, e0193875.	2.5	4
56	Lipid composition and nutritional quality of intramuscular fat in Charneca-PDO beef. European Food Research and Technology, 2012, 234, 187-196.	3.3	2
57	Metabolic adaptations to targeted therapy in FLT3 mutated acute myeloid leukaemia. Lancet, The, 2017, 389, S37.	13.7	0