Nuria Mach

List of Publications by Year in Descending Order

59 papers	2,056 citations	23 h-index	44 g-index
77 ext. papers	2,851 ext. citations	3.4 avg, IF	5.4 L-index

#	Paper	IF	Citations
59	Understanding the Holobiont: Crosstalk Between Gut Microbiota and Mitochondria During Long Exercise in Horse. *Frontiers in Molecular Biosciences*, **2021**, 8, 656204	5.6	5
58	The Airway Pathobiome in Complex Respiratory Diseases: A Perspective in Domestic Animals. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 583600	5.9	2
57	Integrative biology defines novel biomarkers of resistance to strongylid infection in horses. *Scientific Reports*, **2021**, 11, 14278	4.9	0
56	Gut microbiota resilience in horse athletes following holidays out to pasture. *Scientific Reports*, **2021**, 11, 5007	4.9	5
55	Priming for welfare: gut microbiota is associated with equitation conditions and behavior in horse athletes. *Scientific Reports*, **2020**, 10, 8311	4.9	9
54	Effects of a temporary period on pasture on the welfare state of horses housed in individual boxes. *Applied Animal Behaviour Science*, **2020**, 228, 105027	2.2	3
53	Inter-breed diversity and temporal dynamics of the faecal microbiota in healthy horses. *Journal of Animal Breeding and Genetics*, **2020**, 137, 103-120	2.9	12
52	Identification of rumen microbial biomarkers linked to methane emission in Holstein dairy cows. *Journal of Animal Breeding and Genetics*, **2020**, 137, 49-59	2.9	23
51	Housing Horses in Individual Boxes Is a Challenge with Regard to Welfare. *Animals*, **2019**, 9,	3.1	24
50	The miRNA-targeted transcriptome of porcine alveolar macrophages upon infection with Porcine Reproductive and Respiratory Syndrome Virus. *Scientific Reports*, **2019**, 9, 3160	4.9	6
49	A First Step Toward Unraveling the Energy Metabolism in Endurance Horses: Comparison of Plasma Nuclear Magnetic Resonance Metabolomic Profiles Before and After Different Endurance Race Distances. *Frontiers in Molecular Biosciences*, **2019**, 6, 45	5.6	7
48	Unraveling the effects of the gut microbiota composition and function on horse endurance physiology. *Scientific Reports*, **2019**, 9, 9620	4.9	14
47	Integration of GWAS, pathway and network analyses reveals novel mechanistic insights into the synthesis of milk proteins in dairy cows. *Scientific Reports*, **2018**, 8, 566	4.9	27
46	Inferring the evolution of the major histocompatibility complex of wild pigs and peccaries using hybridisation DNA capture-based sequencing. *Immunogenetics*, **2018**, 70, 401-417	3.2	4
45	Strongyle Infection and Gut Microbiota: Profiling of Resistant and Susceptible Horses Over a Grazing Season. *Frontiers in Physiology*, **2018**, 9, 272	4.6	29
44	Progressive habituation to separation alleviates the negative effects of weaning in the mother and foal. *Psychoneuroendocrinology*, **2018**, 97, 59-68	5	14
43	Endurance exercise and gut microbiota: A review. *Journal of Sport and Health Science*, **2017**, 6, 179-197	8.2	151

42	Understanding the response to endurance exercise using a systems biology approach: combining blood metabolomics, transcriptomics and miRNomics in horses. *BMC Genomics*, **2017**, 18, 187	4.5	23
41	Micronutrient Deficiencies and the Human Gut Microbiota. *Trends in Microbiology*, **2017**, 25, 607-610	12.4	24
40	Developing a 670k genotyping array to tag ~2M SNPs across 24 horse breeds. *BMC Genomics*, **2017**, 18, 565	4.5	66
39	SNP co-association and network analyses identify E2F3, KDM5A and BACH2 as key regulators of the bovine milk fatty acid profile. *Scientific Reports*, **2017**, 7, 17317	4.9	17
38	The Crosstalk between the Gut Microbiota and Mitochondria during Exercise. *Frontiers in Physiology* , **2017**, 8, 319	4.6	145
37	The Effects of Weaning Methods on Gut Microbiota Composition and Horse Physiology. *Frontiers in Physiology*, **2017**, 8, 535	4.6	34
36	Endurance Exercise Ability in the Horse: A Trait with Complex Polygenic Determinism. *Frontiers in Genetics*, **2017**, 8, 89	4.5	20
35	RNA sequencing-based analysis of the spleen transcriptome following infectious bronchitis virus infection of chickens selected for different mannose-binding lectin serum concentrations. *BMC Genomics*, **2016**, 17, 82	4.5	16
34	Transcriptomic Changes in Liver of Young Bulls Caused by Diets Low in Mineral and Protein Contents and Supplemented with n-3 Fatty Acids and Conjugated Linoleic Acid. *PLoS ONE*, **2016**, 11, e0167747	3.7	8
33	Role of Vitamin D in the Hygiene Hypothesis: The Interplay between Vitamin D, Vitamin D Receptors, Gut Microbiota, and Immune Response. *Frontiers in Immunology*, **2016**, 7, 627	8.4	75
32	Novel equine tissue miRNAs and breed-related miRNA expressed in serum. *BMC Genomics*, **2016**, 17, 831	4.5	18
31	Exercise-induced stress behavior, gut-microbiota-brain axis and diet: a systematic review for athletes. *Journal of the International Society of Sports Nutrition*, **2016**, 13, 43	4.5	176
30	Integrated mRNA and miRNA expression profiling in blood reveals candidate biomarkers associated with endurance exercise in the horse. *Scientific Reports*, **2016**, 6, 22932	4.9	34
29	Phylogenetic network analysis applied to pig gut microbiota identifies an ecosystem structure linked with growth traits. *ISME Journal*, **2016**, 10, 2973-2977	11.9	167
28	The effect of polyunsaturated fatty acids on obesity through epigenetic modifications. *Endocrinologia Y Nutricion: Organo De La Sociedad Espanola De Endocrinologia Y Nutricion*, **2015**, 62, 338-49		12
27	Early-life establishment of the swine gut microbiome and impact on host phenotypes. *Environmental Microbiology Reports*, **2015**, 7, 554-69	3.7	216
26	The effect of polyunsaturated fatty acids on obesity through epigenetic modifications. *Endocrinología Y Nutrición (English Edition)*, **2015**, 62, 338-349		7
25	Lactobacillus rhamnosus CNCMI-4317 Modulates Fiaf/Angptl4 in Intestinal Epithelial Cells and Circulating Level in Mice. *PLoS ONE*, **2015**, 10, e0138880	3.7	19

24	Therapeutic potential of Hibiscus sabdariffa: A review of the scientific evidence. *Endocrinología Y Nutrición (English Edition)*, **2014**, 61, 274-295		14
23	Extensive expression differences along porcine small intestine evidenced by transcriptome sequencing. *PLoS ONE*, **2014**, 9, e88515	3.7	21
22	Efectos del tÃ© verde sobre el riesgo de cÃ¡ncer de mama. *Revista Espanola De Nutricion Humana Y Dietetica*, **2014**, 18, 25	1.2	2
21	Dietary effects of linseed on fatty acid composition of milk and on liver, adipose and mammary gland metabolism of periparturient dairy cows. *Journal of Animal Physiology and Animal Nutrition*, **2013**, 97 Suppl 1, 89-104	2.6	17
20	The peripheral blood transcriptome reflects variations in immunity traits in swine: towards the identification of biomarkers. *BMC Genomics*, **2013**, 14, 894	4.5	29
19	Surface-enhanced laser desorption/ionisation time-of-flight mass spectrometry: a tool to predict pork quality. *Meat Science*, **2013**, 95, 688-93	6.4	11
18	Relationship between milk fatty acid composition and the expression of lipogenic genes in the mammary gland of dairy cows. *Livestock Science*, **2013**, 151, 92-96	1.7	7
17	Analysis of raw hams using SELDI-TOF-MS to predict the final quality of dry-cured hams. *Meat Science*, **2013**, 93, 233-9	6.4	9
16	Flavonoides como agentes quimiopreventivos y terapÃ©uticos contra el cÃ¡ncer de pulmÃ³n. *Revista Espanola De Nutricion Humana Y Dietetica*, **2012**, 16, 143-153	1.2	1
15	Efecto del consumo de soja en relaciÃ³n con los sÃntomas de la menopausia. *Revista Espanola De Nutricion Humana Y Dietetica*, **2012**, 16, 69-76	1.2	
14	Papel de los antioxidantes en la prevenciÃ³n del cÃ¡ncer. *Revista Espanola De Nutricion Humana Y Dietetica*, **2012**, 16, 16-24	1.2	3
13	Efecto de los probiÃ³ticos en el control de la obesidad en humanos: hipÃ³tesis no demostradas. *Revista Espanola De Nutricion Humana Y Dietetica*, **2012**, 16, 100-107	1.2	
12	Liver transcriptome profile in pigs with extreme phenotypes of intramuscular fatty acid composition. *BMC Genomics*, **2012**, 13, 547	4.5	89
11	Pleiotropic effects of polymorphism of the gene diacylglycerol-O-transferase 1 (DGAT1) in the mammary gland tissue of dairy cows. *Journal of Dairy Science*, **2012**, 95, 4989-5000	4	16
10	Efectos de los Ã¡cidos grasos omega 3 y otros suplementos alimenticios en procesos patolÃ³gicos relacionados con la tercera edad. *Revista Espanola De Nutricion Humana Y Dietetica*, **2011**, 15, 20-29	1.2	2
9	Papel de los Ã¡cidos grasos omega 3 en la prevenciÃ³n del cÃ¡ncer de colon. *Revista Espanola De Nutricion Humana Y Dietetica*, **2011**, 15, 47-55	1.2	1
8	Efecto de los Ã¡cidos grasos poliinsaturados omega-3 y omega-6 en el riesgo de cÃ¡ncer de mama. *Revista Espanola De Nutricion Humana Y Dietetica*, **2011**, 15, 189-193	1.2	
7	Alteration of gene expression in mammary gland tissue of dairy cows in response to dietary unsaturated fatty acids. *Animal*, **2011**, 5, 1217-30	3.1	28

6	Dietary unsaturated fatty acids affect the mammary gland integrity and health in lactating dairy cows. *BMC Proceedings*, **2011**, 5 Suppl 4, S35	2.3	6
5	Comparative proteomic profiling of 2 muscles from 5 different pure pig breeds using surface-enhanced laser desorption/ionization time-of-flight proteomics technology. *Journal of Animal Science*, **2010**, 88, 1522-34	0.7	18
4	Burdizzo pre-pubertal castration effects on performance, behaviour, carcass characteristics, and meat quality of Holstein bulls fed high-concentrate diets. *Meat Science*, **2009**, 81, 329-34	6.4	37
3	Effects of crude glycerin supplementation on performance and meat quality of Holstein bulls fed high-concentrate diets. *Journal of Animal Science*, **2009**, 87, 632-8	0.7	121
2	Association between animal, transportation, slaughterhouse practices, and meat pH in beef. *Meat Science*, **2008**, 78, 232-8	6.4	103
1	Increasing the amount of n-3 fatty acid in meat from young Holstein bulls through nutrition. *Journal of Animal Science*, **2006**, 84, 3039-48	0.7	62