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## Amino acids and immune function

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1005	Nitric Oxide: Role in Biological System. <b>2005</b> , 1, 1-17		14
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1003	Dietary supplementation with watermelon pomace juice enhances arginine availability and ameliorates the metabolic syndrome in Zucker diabetic fatty rats. <b>2007</b> , 137, 2680-5		153
1002	Important roles for the arginine family of amino acids in swine nutrition and production. <b>2007</b> , 112, 8-22		187
1001	L-arginine metabolism and its impact on host immunity against Leishmania infection. <b>2008</b> , 41, 15-25		114
1000	Proline metabolism in the conceptus: implications for fetal growth and development. <b>2008</b> , 35, 691-702		144
999	Effects of glycinin on IgE-mediated increase of mast cell numbers and histamine release in the small intestine. <b>2008</b> , 19, 627-33		102
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997	Emerging technologies and their applications in interactions between nutrition and immunity to gastrointestinal parasites in sheep. <b>2008</b> , 30, 101-11		9
996	Temporal delay of peak T-cell immunity determines Chlamydia pneumoniae pulmonary disease in mice. <b>2008</b> , 76, 4913-23		5
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819	Leucine and methionine deficiency impairs immunity to gastrointestinal parasites during lactation. <i>British Journal of Nutrition</i> , <b>2013</b> , 109, 273-82	3.6	15
818	Roles of heat-shock protein 70 in protecting against intestinal mucosal damage. <b>2013</b> , 18, 356-65		20
817	Effects of Oral L-Citrulline Supplementation on Lipoprotein Oxidation and Endothelial Dysfunction in Humans with Vasospastic Angina. <b>2013</b> , 13, 214-220		28
816	Dietary arginine supplementation altered expression of IGFs and IGF receptors in weaning piglets. <b>2013</b> , 7, 44-50		0
815	Nuclear magnetic resonance based profiling of biofluids reveals metabolic dysregulation in HIV-infected persons and those on anti-retroviral therapy. <b>2013</b> , 8, e64298		31
814	Effects of spirulina supplementation on selected anthropometric, biochemical, and hematological parameters of HIV-infected adults in Ouagadougou, Burkina Faso. <b>2013</b> , 7,		
813	Decolonizing the Diet: synthesizing Native-American history, immunology, and nutritional science.. <b>2013</b> , 1,		4
812	Effects of dietary arginine supplementation on reproductive performance and immunity of sows. <b>2013</b> , 58, 167-175		17
811	Apolipoprotein E plays a key role against cryptosporidial infection in transgenic undernourished mice. <b>2014</b> , 9, e89562		28
810	<i>Toxoplasma gondii</i> is dependent on glutamine and alters migratory profile of infected host bone marrow derived immune cells through SNAT2 and CXCR4 pathways. <b>2014</b> , 9, e109803		7
809	Metabolic profiling of human peripheral blood mononuclear cells: influence of vitamin d status and gender. <b>2014</b> , 4, 248-59		15

808	Sources of trophic action on performance and intestinal morphometry of broiler chickens vaccinated against coccidiosis. <b>2014</b> , 16, 389-396	3
807	Effects of Chitosan on the Secretion of Cytokines and Expression of Inducible Nitric Oxide Synthase mRNA in Peritoneal Macrophages of Broiler Chicken. <b>2014</b> , 57, 466-471	5
806	Comparison of single and blend acidifiers as alternative to antibiotics on growth performance, fecal microflora, and humoral immunity in weaned piglets. <b>2014</b> , 27, 93-100	38
805	Effects of dietary L-glutamine supplementation on specific and general defense responses in mice immunized with inactivated <i>Pasteurella multocida</i> vaccine. <b>2014</b> , 46, 2365-75	22
804	Regulation of the arginine deiminase system by ArgR2 interferes with arginine metabolism and fitness of <i>Streptococcus pneumoniae</i> . <b>2014</b> , 5,	35
803	Comparison of casein and whey in diets on performance, immune responses and metabolomic profile of weanling pigs challenged with <i>Escherichia coli</i> F4. <b>2014</b> , 94, 479-491	4
802	Dietary arginine requirement of juvenile red sea bream <i>Pagrus major</i> . <b>2014</b> , 434, 418-424	30
801	Imbalanced lysine to arginine ratios reduced performance in juvenile cobia ( <i>Rachycentron canadum</i> ) fed high plant protein diets. <b>2014</b> , 20, 25-35	17
800	Amino acid supplementation and impact on immune function in the context of exercise. <b>2014</b> , 11, 61	79
799	Effects of dietary arginine supplementation on growth, protein optimization and innate immune response of channel catfish <i>Ictalurus punctatus</i> (Rafinesque 1818). <b>2014</b> , 45, 491-500	27
798	Effects of low carbohydrate diets on energy and nitrogen balance and body composition in rats depend on dietary protein-to-energy ratio. <b>2014</b> , 30, 863-8	11
797	Effects of supplemental chromium propionate and rumen-protected amino acids on nutrient metabolism, neutrophil activation, and adipocyte size in dairy cows during peak lactation. <b>2014</b> , 97, 3822-31	9
796	Detection of Aspartic Acid in Fermented Cordyceps Powder Using Near Infrared Spectroscopy Based on Variable Selection Algorithms and Multivariate Calibration Methods. <b>2014</b> , 7, 598-604	19
795	Arginine and nitric oxide synthase: regulatory mechanisms and cardiovascular aspects. <b>2014</b> , 58, 101-16	64
794	Dietary threonine requirement of juvenile Nile tilapia, <i>Oreochromis niloticus</i> . <b>2014</b> , 22, 1457-1467	12
793	Chitosan-Zn chelate increases antioxidant enzyme activity and improves immune function in weaned piglets. <b>2014</b> , 158, 45-50	33
792	Mleko - produkt o wyjątkowym potencjale immunostymulacyjnym. <b>2014</b> , 89, 54-59	
791	Bioavailability and Bioactivity of Nanomaterial, Nano- and Microencapsulated Ingredients in Foods. <b>2014</b> , 345-362	

790	Effects of β-hydroxy-β-methylbutyrate free acid and cold water immersion on expression of CR3 and MIP-1β following resistance exercise. <b>2014</b> , 306, R483-9	17
789	Effect of arginine or glutamine supplementation on production, organ weights, interferon gamma, interleukin 6 and antibody titre of broilers. <b>2014</b> , 62, 348-61	6
788	Cytosolic branched chain aminotransferase (BCATc) regulates mTORC1 signaling and glycolytic metabolism in CD4+ T cells. <b>2014</b> , 289, 18793-804	54
787	A combined chemometric and quantitative NMR analysis of HIV/AIDS serum discloses metabolic alterations associated with disease status. <b>2014</b> , 10, 2889-97	15
786	Inflammatory response related scoring systems in assessing the prognosis of patients with pancreatic ductal adenocarcinoma: a systematic review. <b>2014</b> , 13, 474-81	37
785	Effects of dietary threonine and tryptophan supplementation on growing pigs induced by porcine respiratory and reproductive syndrome vaccination. <b>2014</b> , 68, 385-97	1
784	Abomasal protein infusion in postpartum transition dairy cows: effect on performance and mammary metabolism. <b>2014</b> , 97, 5608-22	37
783	Fenretinide prevents inflammation and airway hyperresponsiveness in a mouse model of allergic asthma. <b>2014</b> , 51, 783-92	19
782	Deep sequencing of the tilapia ( <i>Oreochromis niloticus</i> ) liver transcriptome response to dietary protein to starch ratio. <b>2014</b> , 433, 299-306	35
781	Effects of anti-inflammatory drugs in primary kidney cell culture of a freshwater fish. <b>2014</b> , 40, 296-303	25
780	BNNTs under the influence of external electric field as potential new drug delivery vehicle of Glu, Lys, Gly and Ser amino acids: A first-principles study. <b>2014</b> , 320, 391-399	25
779	Dietary arginine supplementation enhances intestinal expression of SLC7A7 and SLC7A1 and ameliorates growth depression in mycotoxin-challenged pigs. <b>2014</b> , 46, 883-92	99
778	Expression of threonine-biosynthetic genes in mammalian cells and transgenic mice. <b>2014</b> , 46, 2177-88	2
777	Amino acid nutrition in animals: protein synthesis and beyond. <b>2014</b> , 2, 387-417	277
776	The impaired intestinal mucosal immune system by valine deficiency for young grass carp ( <i>Ctenopharyngodon idella</i> ) is associated with decreasing immune status and regulating tight junction proteins transcript abundance in the intestine. <b>2014</b> , 40, 197-207	120
775	Nutrition affects longevity and gene expression in honey bee ( <i>Apis mellifera</i> ) workers. <b>2014</b> , 45, 618-625	32
774	Dietary L-glutamine supplementation modulates microbial community and activates innate immunity in the mouse intestine. <b>2014</b> , 46, 2403-13	80
773	Metabolomic analysis of amino acid and fat metabolism in rats with L-tryptophan supplementation. <b>2014</b> , 46, 2681-91	35

772	Fillet quality and health of Atlantic salmon ( <i>Salmo salar</i> L.) fed a diet supplemented with glutamate. <b>2014</b> , 426-427, 288-295		40
771	Interactive effects of dietary valine and leucine on two sizes of Japanese flounder <i>Paralichthys olivaceus</i> . <b>2014</b> , 432, 130-138		19
770	Metabolic self-destruction in critically ill patients: origins, mechanisms and therapeutic principles. <b>2014</b> , 30, 261-7		39
769	Oral free and dipeptide forms of glutamine supplementation attenuate oxidative stress and inflammation induced by endotoxemia. <b>2014</b> , 30, 602-11		60
768	High dietary protein restores overreaching induced impairments in leukocyte trafficking and reduces the incidence of upper respiratory tract infection in elite cyclists. <b>2014</b> , 39, 211-9		32
767	L-Arginine modulates neonatal lymphocyte proliferation through an interleukin-2 independent pathway. <b>2014</b> , 143, 184-92		16
766	Metabolomic analysis of amino acid and energy metabolism in rats supplemented with chlorogenic acid. <b>2014</b> , 46, 2219-29		24
765	Increased levels of standardized ileal digestible threonine attenuate intestinal damage and immune responses in <i>Escherichia coli</i> K88+ challenged weaned piglets. <b>2014</b> , 195, 67-75		21
764	Apoptosis-inducing effect of three medicinal plants on oral cancer cells KB and ORL-48. <b>2014</b> , 2014, 125353		11
763	Asparagine attenuates intestinal injury, improves energy status and inhibits AMP-activated protein kinase signalling pathways in weaned piglets challenged with <i>Escherichia coli</i> lipopolysaccharide. <i>British Journal of Nutrition</i> , <b>2015</b> , 114, 553-65	3.6	37
762	Effect of bovine colostrum feeding in comparison with milk replacer and natural feeding on the immune responses and colonisation of enterotoxigenic <i>Escherichia coli</i> in the intestinal tissue of piglets. <i>British Journal of Nutrition</i> , <b>2015</b> , 113, 923-34	3.6	24
761	Asparagine attenuates hepatic injury caused by lipopolysaccharide in weaned piglets associated with modulation of Toll-like receptor 4 and nucleotide-binding oligomerisation domain protein signalling and their negative regulators. <i>British Journal of Nutrition</i> , <b>2015</b> , 114, 189-201	3.6	7
760	Different Effects of Sheep- and Duck-Meat Supplemented Diets on Serum Cytokine Levels of Rats. <b>2015</b> , 61, 228-32		
759	Feeding the critically ill obese patient: a systematic review protocol. <b>2015</b> , 13, 95-109		11
758	Oral administration of putrescine and proline during the suckling period improves epithelial restitution after early weaning in piglets. <b>2015</b> , 93, 1679-88		49
757	Genome-wide association study and biological pathway analysis of the <i>Eimeria maxima</i> response in broilers. <b>2015</b> , 47, 91		12
756	Effect of tanniferous leaf meal based multi-nutrient blocks on feed intake, hematological profile, immune response, and body weight changes in <i>Haemonchus contortus</i> infected goats. <b>2015</b> , 8, 572-9		7
755	Metabolomics Approach Reveals Altered Plasma Amino Acid and Sphingolipid Profiles Associated with Pathological State in Transition Dairy Cows. <b>2015</b> , 2, 184-195		19

754	Glutamic acid supplementation on low protein diets for laying hens. <b>2015</b> , 37, 129	4
753	European Sea Bass ( <i>Dicentrarchus labrax</i> ) Immune Status and Disease Resistance Are Impaired by Arginine Dietary Supplementation. <b>2015</b> , 10, e0139967	36
752	Plant-derived immunomodulators: an insight on their preclinical evaluation and clinical trials. <b>2015</b> , 6, 655	173
751	The Impaired Function of Macrophages Induced by Strenuous Exercise Could Not Be Ameliorated by BCAA Supplementation. <b>2015</b> , 7, 8645-56	4
750	N-acetylcysteine and intestinal health: a focus on its mechanism of action. <b>2015</b> , 20, 872-91	27
749	Branched-chain Amino Acids are Beneficial to Maintain Growth Performance and Intestinal Immune-related Function in Weaned Piglets Fed Protein Restricted Diet. <b>2015</b> , 28, 1742-50	49
748	Growth Enhancement by Intramuscular Injection of Elemental Iron Nano- and Microparticles. <b>2015</b> , 9,	3
747	Dietary essentiality of "nutritionally non-essential amino acids" for animals and humans. <b>2015</b> , 240, 997-1007	133
746	Effect of proline supplementation on anti-oxidative capacity, immune response and stress tolerance of juvenile Pacific white shrimp, <i>Litopenaeus vannamei</i> . <b>2015</b> , 448, 105-111	35
745	Nutritional Composition of Five Varieties of Pap Commonly Consumed in Maroua (Far- North, Cameroon). <b>2015</b> , 65, 183-190	3
744	Dietary threonine requirement of juvenile blunt snout bream ( <i>Megalobrama amblycephala</i> ). <b>2015</b> , 437, 304-311	38
743	Metabolomics reveals significant impairments in the immune system of the APP/PS1 transgenic mice of Alzheimer's disease. <b>2015</b> , 36, 577-87	22
742	Iron chelation and redox chemistry of anthranilic acid and 3-hydroxyanthranilic acid: A comparison of two structurally related kynurenine pathway metabolites to obtain improved insights into their potential role in neurological disease development. <b>2015</b> , 782, 103-110	24
741	Effects of dietary protein levels on growth performance and haemato-immunological parameters of juvenile genetically improved farmed tilapia (GIFT), <i>Oreochromis niloticus</i> . <b>2015</b> , 23, 1189-1201	24
740	Effect of dietary arginine on the immune response and gene expression in head kidney and spleen following infection of Jian carp with <i>Aeromonas hydrophila</i> . <b>2015</b> , 44, 195-202	73
739	Amino acids, major carotenoids and vitamin A activity of some traditional sauces consumed in the Far North Region of Cameroon. <b>2015</b> , 43, 88-95	4
738	A review on the analysis of ingredients with health care effects in health food in Taiwan. <b>2015</b> , 23, 343-350	10
737	PD-1 alters T-cell metabolic reprogramming by inhibiting glycolysis and promoting lipolysis and fatty acid oxidation. <b>2015</b> , 6, 6692	554



736	Dysfunction in macrophage toll-like receptor signaling caused by an inborn error of cationic amino acid transport. <b>2015</b> , 67, 416-25		17
735	Induced lung inflammation and dietary protein supply affect nitrogen retention and amino acid metabolism in growing pigs. <i>British Journal of Nutrition</i> , <b>2015</b> , 113, 414-25	3.6	12
734	Renal haemodynamic response to amino acids infusion in an experimental porcine model of septic shock. <b>2015</b> , 59, 598-608		6
733	Effect of increasing the dietary tryptophan to lysine ratio on plasma levels of tryptophan, kynurenine and urea and on production traits in weaner pigs experimentally infected with an enterotoxigenic strain of <i>Escherichia coli</i> . <b>2015</b> , 69, 17-29		11
732	Characterization of buffalo interleukin 8 (IL-8) and its expression in endometritis. <b>2015</b> , 13, 71-77		5
731	Metabolomic research on the role of interleukin-4 in Alzheimer's disease. <b>2015</b> , 11, 1175-1183		15
730	Lysine nutrition in swine and the related monogastric animals: muscle protein biosynthesis and beyond. <b>2015</b> , 4, 147		65
729	Metabolomics study of hematopoietic function of <i>Angelica sinensis</i> on blood deficiency mice model. <b>2015</b> , 166, 261-9		41
728	Enteral Feeding and Infections in Preterm Neonates. <b>2015</b> , 1481-1498		
727	In vitro anti-inflammatory effects of citrulline on peritoneal macrophages in Zucker diabetic fatty rats. <i>British Journal of Nutrition</i> , <b>2015</b> , 113, 120-4	3.6	29
726	Hepatic cumulative net appearance of amino acids and related gene expression response to different protein diets in pigs. <b>2015</b> , 182, 11-21		7
725	Threonine and tryptophan supplementation enhance porcine respiratory and reproductive syndrome (PRRS) vaccine-induced immune responses of growing pigs. <b>2015</b> , 86, 294-304		2
724	Effects of a Monocomponent Protease on Performance Parameters and Protein Digestibility in Broiler Chickens. <b>2015</b> , 6, 216-225		15
723	Optimisation of broiler chicken responses from 0 to 7 d of age to dietary leucine, isoleucine and valine using Taguchi and mathematical methods. <b>2015</b> , 56, 696-707		3
722	Individual non-essential amino acids fortification of a low-protein diet for broilers under the hot and humid tropical climate. <b>2015</b> , 94, 2772-7		21
721	A deficiency or an excess of dietary threonine level affects weight gain, enzyme activity, immune response and immune-related gene expression in juvenile blunt snout bream ( <i>Megalobrama amblycephala</i> ). <b>2015</b> , 42, 439-46		74
720	Methionine deficiency reduces autophagy and accelerates death in intestinal epithelial cells infected with enterotoxigenic <i>Escherichia coli</i> . <b>2015</b> , 47, 2199-204		21
719	Dietary supplementation with yeast product improves intestinal function, and serum and ileal amino acid contents in weaned piglets. <b>2015</b> , 171, 20-27		22

7 <sup>18</sup>	Dietary tryptophan and methionine as modulators of European seabass ( <i>Dicentrarchus labrax</i> ) immune status and inflammatory response. <b>2015</b> , 42, 353-62	78
7 <sup>17</sup>	Metabolic, immune, and gut microbial signals mount a systems response to <i>Leishmania major</i> infection. <b>2015</b> , 14, 318-29	12
7 <sup>16</sup>	Glutamine and intestinal barrier function. <b>2015</b> , 47, 2143-54	121
7 <sup>15</sup>	Effect of condensed tannins supplementation through leaf meal mixture on voluntary feed intake, immune response and worm burden in <i>Haemonchus contortus</i> infected sheep. <b>2016</b> , 40, 100-5	15
7 <sup>14</sup>	Dietary arginine silicate inositol complex inhibits periodontal tissue loss in rats with ligature-induced periodontitis. <b>2016</b> , 10, 3771-3778	4
7 <sup>13</sup>	Theoretical investigations of interactions between boron nitride nanotubes and drugs. <b>2016</b> , 59-77	5
7 <sup>12</sup>	Amino acids in sheep production. <b>2016</b> , 8, 264-88	14
7 <sup>11</sup>	Glutamine-Induced Secretion of Intestinal Secretory Immunoglobulin A: A Mechanistic Perspective. <b>2016</b> , 7, 503	42
7 <sup>10</sup>	Arginine: New Insights into Growth Performance and Urinary Metabolomic Profiles of Rats. <b>2016</b> , 21,	6
7 <sup>09</sup>	The Effect of Post-Resistance Exercise Amino Acids on Plasma MCP-1 and CCR2 Expression. <b>2016</b> , 8,	5
7 <sup>08</sup>	Technical note: A procedure to estimate glucose requirements of an activated immune system in steers. <b>2016</b> , 94, 4591-4599	24
7 <sup>07</sup>	Dietary leucine requirement of Juvenile Nile tilapia, <i>Oreochromis niloticus</i> . <b>2016</b> , 22, 1040-1046	22
7 <sup>06</sup>	Branched-chain amino acid-enriched nutrient increases blood platelet count in patients after endoscopic injection sclerotherapy. <b>2016</b> , 46, 1129-1136	7
7 <sup>05</sup>	The effects of early postnatal exposure to a low dose of decabromodiphenyl ether (BDE-209) on serum metabolites in male mice. <b>2016</b> , 41, 667-75	7
7 <sup>04</sup>	Dietary methionine requirement of pre-adult blunt snout bream, ( <i>Megalobrama amblycephala</i> Yih, 1955). <b>2016</b> , 32, 1171-1178	10
7 <sup>03</sup>	Performance of pigs kept under different sanitary conditions affected by protein intake and amino acid supplementation. <b>2016</b> , 94, 4704-4719	21
7 <sup>02</sup>	Hyperinsulinemic-normoglycemic clamp administered together with amino acids induces anabolism after cardiac surgery. <b>2016</b> , 311, R1085-R1092	8
7 <sup>01</sup>	Diastolic Left Ventricular Function in Relation to Circulating Metabolic Biomarkers in a General Population. <b>2016</b> , 5, e002681	15

700	Effects of L-glutamine on growth performance, antioxidant ability, immunity and expression of genes related to intestinal health in weanling pigs. <b>2016</b> , 189, 102-109	13
699	Amino acid composition in eyes from zebrafish ( <i>Danio rerio</i> ) and sardine ( <i>Sardina pilchardus</i> ) at the larval stage. <b>2016</b> , 5, 519	5
698	Arginine, -carbamyglutamate, and glutamine exert protective effects against oxidative stress in rat intestine. <b>2016</b> , 2, 242-248	26
697	Dietary Protein, Metabolism, and Aging. <b>2016</b> , 85, 5-34	83
696	Short communication: Amino acid supplementation and stage of lactation alter apparent utilization of nutrients by blood neutrophils from lactating dairy cows in vitro. <b>2016</b> , 99, 3777-3783	3
695	Effects of dietary L-isoleucine on laying performance and immunomodulation of laying hens. <b>2016</b> , 95, 2297-305	16
694	Die metabolische Selbstzerstörung des kritisch kranken Patienten (Teil I): Evolutionsbiologische Hintergründe, Mechanismen und Sinnhaftigkeit. <b>2016</b> , 41, 40-44	1
693	A metabolomics approach to characterize phenotypes of metabolic transition from late pregnancy to early lactation in dairy cows. <b>2016</b> , 12, 1	33
692	Targeted Metabolomics of Nonhuman Primate Serum after Exposure to Ionizing Radiation: Potential Tools for High-throughput Biodosimetry. <b>2016</b> , 6, 51192-51202	28
691	Mixed-ligand complex formation of tenoxicam drug with some transition metal ions in presence of valine: Synthesis, characterization, molecular docking, potentiometric and evaluation of the humeral immune response of calves. <b>2016</b> , 223, 1311-1332	57
690	Primer of Geriatric Urology. <b>2016</b> ,	
689	Atlantic salmon ( <i>Salmo salar</i> ) and Coho salmon ( <i>Oncorhynchus kisutch</i> ) display differential metabolic changes in response to infestation by the ectoparasite <i>Caligus rogercresseyi</i> . <b>2016</b> , 464, 469-479	17
688	Functions of innate and acquired immune system are reduced in domestic pigeons ( <i>Columba livia domestica</i> ) given a low protein diet. <b>2016</b> , 3, 150408	4
687	Effects of free amino acids on cytokine secretion and proliferative activity of feline T cells in an in vitro study using the cell line MYA-1. <b>2016</b> , 68, 1949-61	7
686	Glutaminolysis and Fumarate Accumulation Integrate Immunometabolic and Epigenetic Programs in Trained Immunity. <b>2016</b> , 24, 807-819	398
685	Dietary methyl donors affect in vivo methionine partitioning between transmethylation and protein synthesis in the neonatal piglet. <b>2016</b> , 48, 2821-2830	8
684	Leucine Metabolism in T Cell Activation: mTOR Signaling and Beyond. <b>2016</b> , 7, 798S-805S	59
683	Regulatory effects of dietary L-Arg supplementation on the innate immunity and antioxidant ability in broiler chickens. <b>2016</b> , 15, 2578-2587	4

682	The first description of complete invertebrate arginine metabolism pathways implies dose-dependent pathogen regulation in <i>Apostichopus japonicus</i> . <b>2016</b> , 6, 23783	12
681	Rumen tissue derived decellularized submucosa collagen or its chitosan-treated film as a cutaneous wound healant and <sup>1</sup> H NMR-metabolite profiling of plasma. <b>2016</b> , 6, 107403-107415	4
680	The effects of increasing dietary levels of soy protein concentrate (SPC) on the immune responses and disease resistance (furunculosis) of vaccinated and non-vaccinated Atlantic salmon ( <i>Salmo salar</i> L.) parr. <b>2016</b> , 59, 83-94	11
679	Identifying factors contributing to slow growth in pigs. <b>2016</b> , 94, 2103-16	12
678	Effect of supplemental dietary leucine and immune system stimulation on whole-body nitrogen utilization in starter pigs. <b>2016</b> , 94, 2366-77	5
677	Investigation of relative metabolic changes in the organs and plasma of rats exposed to X-ray radiation using HR-MAS (1)H NMR and solution (1)H NMR. <b>2016</b> , 29, 507-18	14
676	NMR- and LC-MS/MS-based urine metabolomic investigation of the subacute effects of hexabromocyclododecane in mice. <b>2016</b> , 23, 8500-7	14
675	Effects of dietary L-threonine levels on antioxidant capacity, digestive enzyme activities, and antibody production of Xinyang green-shell laying hens. <b>2016</b> , 25, 422-427	4
674	Effects of dietary β-ketoglutarate supplementation on the growth performance, glutamine synthesis and amino acid concentrations of juvenile hybrid sturgeon <i>Acipenser schrenckii</i> ? <i>Acipenser baerii</i> ? fed high levels of soy protein concentrate. <b>2016</b> , 211, 199-207	13
673	GC/TOF-MS-based metabolomic profiling in cultured fibroblast-like synoviocytes from rheumatoid arthritis. <b>2016</b> , 83, 707-713	45
672	Effect of l-glutamic acid supplementation on performance and nitrogen balance of broilers fed low protein diets. <b>2016</b> , 100, 590-600	3
671	Alterations of amino acid metabolism in osteoarthritis: its implications for nutrition and health. <b>2016</b> , 48, 907-914	33
670	Dietary protein intake and human health. <b>2016</b> , 7, 1251-65	208
669	An integrated in silico approach for functional and structural impact of non- synonymous SNPs in the MYH1 gene in Jeju Native Pigs. <b>2016</b> , 17, 35	12
668	Endogenous Synthesis of Amino Acids Limits Growth, Lactation, and Reproduction in Animals. <b>2016</b> , 7, 331-42	41
667	Regeneration of the intestinal mucosa in <i>Eimeria</i> and <i>E. Coli</i> challenged broilers supplemented with amino acids. <b>2016</b> , 95, 1056-65	16
666	The effect of dietary methionine levels on fattening performance and selected blood and tissue parameters of turkeys. <b>2016</b> , 70, 127-40	9
665	Dietary vitamin C deficiency depresses the growth, head kidney and spleen immunity and structural integrity by regulating NF-β, TOR, Nrf2, apoptosis and MLCK signaling in young grass carp ( <i>Ctenopharyngodon idella</i> ). <b>2016</b> , 52, 111-38	67

664	Integrating candidate metabolites and biochemical factors to elucidate the action mechanism of Xue-sai-tong injection based on (1)H NMR metabolomics. <b>2016</b> , 1026, 87-96	7
663	Comparative transcriptome analysis reveals molecular strategies of oriental river prawn <i>Macrobrachium nipponense</i> in response to acute and chronic nitrite stress. <b>2016</b> , 48, 254-65	30
662	Dietary Amino Acid Deficiency Reduces the Utilization of Amino Acids for Growth in Growing Pigs after a Period of Poor Health. <b>2016</b> , 146, 51-8	10
661	The role of leucine and its metabolites in protein and energy metabolism. <b>2016</b> , 48, 41-51	124
660	Dietary supplementation with L-glutamate and L-aspartate alleviates oxidative stress in weaned piglets challenged with hydrogen peroxide. <b>2016</b> , 48, 53-64	57
659	Immunometabolism within the tuberculosis granuloma: amino acids, hypoxia, and cellular respiration. <b>2016</b> , 38, 139-52	43
658	Loss of function mutation of the Slc38a3 glutamine transporter reveals its critical role for amino acid metabolism in the liver, brain, and kidney. <b>2016</b> , 468, 213-27	31
657	Aspartate attenuates intestinal injury and inhibits TLR4 and NODs/NF- $\kappa$ B and p38 signaling in weaned pigs after LPS challenge. <b>2017</b> , 56, 1433-1443	34
656	Effects of <i>Piper sarmentosum</i> extract on the growth performance, antioxidant capability and immune response in weaned piglets. <b>2017</b> , 101, 105-112	16
655	Boron Affects Immune Function Through Modulation of Splenic T Lymphocyte Subsets, Cytokine Secretion, and Lymphocyte Proliferation and Apoptosis in Rats. <b>2017</b> , 178, 261-275	22
654	Dietary administration of <i>Pontogammarus maoticus</i> extract affects immune responses, stress resistance, feed intake and growth performance of caspian roach ( <i>Rutilus caspicus</i> ) fingerlings. <b>2017</b> , 63, 196-200	6
653	The dietary replacement of marine ingredients by terrestrial animal and plant alternatives modulates the antiviral immune response of Atlantic salmon ( <i>Salmo salar</i> ). <b>2017</b> , 64, 24-38	39
652	Amino acid digestibility of animal protein ingredients for bullfrogs in different phases of post-metamorphic development. <b>2017</b> , 48, 4822-4835	2
651	Acquired Amino Acid Deficiencies: A Focus on Arginine and Glutamine. <b>2017</b> , 32, 30S-47S	65
650	Effect of dietary supplementation with arginine on haematological indices, serum chemistry, carcass yield, gut microflora, and lymphoid organs of growing turkeys. <b>2017</b> , 198, 58-64	12
649	Supplemental methionine, choline, or taurine alter in vitro gene network expression of polymorphonuclear leukocytes from neonatal Holstein calves. <b>2017</b> , 100, 3155-3165	23
648	Effect of dietary phosphorus deficiency on the growth, immune function and structural integrity of head kidney, spleen and skin in young grass carp ( <i>Ctenopharyngodon idella</i> ). <b>2017</b> , 63, 103-126	53
647	Metabotyping reveals distinct metabolic alterations in ketotic cows and identifies early predictive serum biomarkers for the risk of disease. <b>2017</b> , 13, 1	25

646	An early feeding regime and a high-density amino acid diet on growth performance of broilers under subclinical necrotic enteritis challenge. <b>2017</b> , 3, 25-32	12
645	New insights into the role of chitosan oligosaccharide in enhancing growth performance, antioxidant capacity, immunity and intestinal development of weaned pigs. <b>2017</b> , 7, 9669-9679	60
644	Supplemental Smartamine M in higher-energy diets during the prepartal period improves hepatic biomarkers of health and oxidative status in Holstein cows. <b>2017</b> , 8, 17	4
643	Pigs experimentally infected with an enterotoxigenic strain of <i>Escherichia coli</i> have improved feed efficiency and indicators of inflammation with dietary supplementation of tryptophan and methionine in the immediate post-weaning period. <b>2017</b> , 57, 935	8
642	Interactive effects of dietary leucine and isoleucine on growth, blood parameters, and amino acid profile of Japanese flounder <i>Paralichthys olivaceus</i> . <b>2017</b> , 43, 1265-1278	16
641	Effect of a low crude protein diet supplemented with different levels of threonine on growth performance, carcass traits, blood parameters, and immune responses of growing broilers. <b>2017</b> , 96, 2751-2760	23
640	Determination of the optimum standardised ileal digestible sulphur amino acids to lysine ratio in weaned pigs challenged with enterotoxigenic <i>Escherichia coli</i> . <b>2017</b> , 227, 118-130	4
639	Improved growth performance, food efficiency, and lysine availability in growing rats fed with lysine-biofortified rice. <b>2017</b> , 7, 1389	14
638	Effect of methionine supplementation in chicken feed on the quality and shelf life of fresh poultry meat. <b>2017</b> , 96, 2853-2861	16
637	Insight on the impacts of free amino acids and their metabolites on the immune system from a perspective of inborn errors of amino acid metabolism. <b>2017</b> , 21, 611-626	11
636	Roles of amino acids in preventing and treating intestinal diseases: recent studies with pig models. <b>2017</b> , 49, 1277-1291	34
635	Effects of dietary methionine and taurine supplementation to low-fish meal diets on growth performance and oxidative status of European sea bass ( <i>Dicentrarchus labrax</i> ) juveniles. <b>2017</b> , 479, 447-454	60
634	The effects of dietary leucine on the growth performances, body composition, metabolic abilities and innate immune responses in black carp <i>Mylopharyngodon piceus</i> . <b>2017</b> , 67, 419-428	27
633	Changes in intestinal microbiota composition and metabolism coincide with increased intestinal permeability in young adults under prolonged physiological stress. <b>2017</b> , 312, G559-G571	154
632	Dietary tryptophan requirements of juvenile Nile tilapia fed corn-soybean meal-based diets. <b>2017</b> , 227, 62-67	18
631	Supplementation with rumen-protected methionine or choline during the transition period influences whole-blood immune response in periparturient dairy cows. <b>2017</b> , 100, 3958-3968	31
630	Current applications, selection, and possible mechanisms of actions of synbiotics in improving the growth and health status in aquaculture: A review. <b>2017</b> , 64, 367-382	87
629	Leucine Protects Against Skeletal Muscle Atrophy in Lipopolysaccharide-Challenged Rats. <b>2017</b> , 20, 93-101	11

628	Identification and Characterization of Diploid and Tetraploid in <i>Platycodon grandiflorum</i> . <b>2017</b> , 72, 13-19	2
627	Immune function? A missing link in the gender disparity in preterm neonatal outcomes. <b>2017</b> , 13, 1061-1071	29
626	The role of methionine on metabolism, oxidative stress, and diseases. <b>2017</b> , 49, 2091-2098	158
625	Dietary l-arginine inhibits intestinal <i>Clostridium perfringens</i> colonisation and attenuates intestinal mucosal injury in broiler chickens. <i>British Journal of Nutrition</i> , <b>2017</b> , 118, 321-332	3.6 37
624	PepBio: predicting the bioactivity of host defense peptides. <b>2017</b> , 7, 35119-35134	7
623	The effect of aspartate supplementation on the microbial composition and innate immunity on mice. <b>2017</b> , 49, 2045-2051	21
622	Amino acid modulation of lifespan and reproduction in <i>Drosophila</i> . <b>2017</b> , 23, 118-122	11
621	Comparative transcriptomic evidence for Tween80-enhanced biodegradation of phenanthrene by <i>Sphingomonas</i> sp. GY2B. <b>2017</b> , 609, 1161-1171	22
620	Effects of dietary essential amino acid deficiencies on the growth performance and humoral immune response in silvery-black porgy ( <i>Sparidentex hasta</i> ) juveniles. <b>2017</b> , 48, 5311-5323	14
619	Effect of Dietary Fish Oil Replacement with Plant Oils on Growth Performance and Gene Expression in Juvenile Rainbow Trout ( <i>Oncorhynchus mykiss</i> ). <b>2017</b> , 17, 1135-1153	17
618	Glutamine Ameliorates Mucosal Damage Caused by Immune Responses to Duck Plague Virus. <b>2017</b> , 15, 1559325817708674	3
617	Effects of dietary threonine levels on growth performance, serum biochemical indexes, antioxidant capacities, and gut morphology in broiler chickens. <b>2017</b> , 96, 1290-1297	21
616	Effects of dietary arginine and glutamine on growth performance, nonspecific immunity, and disease resistance in relation to arginine catabolism in juvenile turbot ( <i>Scophthalmus maximus</i> L.). <b>2017</b> , 468, 246-254	20
615	GC-MS Metabolomics Identifies Metabolite Alterations That Precede Subclinical Mastitis in the Blood of Transition Dairy Cows. <b>2017</b> , 16, 433-446	41
614	Maternal feed restriction during pregnancy in Wistar rats: Evaluation of offspring using classical and immunoteratology protocols. <b>2017</b> , 36, 603-615	4
613	Interaction Between 2 Nutraceutical Treatments and Host Immune Status in the Pediatric Critical Illness Stress-Induced Immune Suppression Comparative Effectiveness Trial. <b>2017</b> , 41, 1325-1335	8
612	Effects of threonine supplementation on the growth performance, immunity, oxidative status, intestinal integrity, and barrier function of broilers at the early age. <b>2017</b> , 96, 405-413	57
611	Application of stabilizer improves stability of nanosuspended branched-chain amino acids and anti-inflammatory effect in LPS-induced RAW 264.7 cells. <b>2018</b> , 27, 451-459	6

610	Periparturient Diseases of Dairy Cows. <b>2017,</b>	4
609	Ketosis Under a Systems Veterinary Medicine Perspective. <b>2017,</b> 201-222	
608	Physico-chemical properties of late-incubation egg amniotic fluid and a potential feed supplement. <b>2017,</b> 30, 1124-1134	4
607	Cultivar-Specific Changes in Primary and Secondary Metabolites in Pak Choi (Brassica Rapa, Chinensis Group) by Methyl Jasmonate. <b>2017,</b> 18,	26
606	Peptides from Colochirus robustus Enhance Immune Function via Activating CD3 $\beta$ and ZAP-70-Mediated Signaling in C57BL/6 Mice. <b>2017,</b> 18,	2
605	Therapeutic Potential of Amino Acids in Inflammatory Bowel Disease. <b>2017,</b> 9,	68
604	l-Arginine-Dependent Epigenetic Regulation of Interleukin-10, but Not Transforming Growth Factor- $\beta$ Production by Neonatal Regulatory T Lymphocytes. <b>2017,</b> 8, 487	13
603	ASCT2 (SLC1A5)-Deficient Mice Have Normal B-Cell Development, Proliferation, and Antibody Production. <b>2017,</b> 8, 549	27
602	Neuroendocrine and Immune Responses Undertake Different Fates following Tryptophan or Methionine Dietary Treatment: Tales from a Teleost Model. <b>2017,</b> 8, 1226	27
601	Roles of Dietary Amino Acids and Their Metabolites in Pathogenesis of Inflammatory Bowel Disease. <b>2017,</b> 2017, 6869259	19
600	Cellular and Physiological Effects of Arginine in Seniors. <b>2017,</b> 317-336	1
599	A link between damaging behaviour in pigs, sanitary conditions, and dietary protein and amino acid supply. <b>2017,</b> 12, e0174688	12
598	Metabolomics based predictive biomarker model of ARDS: A systemic measure of clinical hypoxemia. <b>2017,</b> 12, e0187545	23
597	Metabolic regulations of a decoction of in acute liver injury of mouse models. <b>2017,</b> 12, 35	9
596	Profiling of the perturbed metabolomic state of mouse spleen during acute and chronic toxoplasmosis. <b>2017,</b> 10, 339	15
595	Effects of Nutrient Density and exogenous enzymes in Starter Diet on Performance, Intestinal Microflora, Gut Morphology and Immune Response of Broiler Chickens. <b>2017,</b> 19, 509-518	3
594	Comparative transcriptomic analysis of two important life stages of Angiostrongylus cantonensis: fifth-stage larvae and female adults. <b>2017,</b> 40, 540-549	4
593	Effect of experimentally increased protein supply to postpartum dairy cows on plasma protein synthesis, rumen tissue proliferation, and immune homeostasis. <b>2017,</b> 95, 2097-2110	1



592	Effects of different space allowances on growth performance, blood profile and pork quality in a grow-to-finish production system. <b>2017</b> , 30, 1796-1802	7
591	Effect of plant growth promoting spp. on nutritional properties of grains. <b>2018</b> , 25, 1066-1071	22
590	Epizootics of <i>Pseudomonas anguilliseptica</i> among cultured seabream ( <i>Sparus aurata</i> ) populations: Control and treatment strategies. <b>2018</b> , 121, 1-8	11
589	Effects of dietary lysine restriction on inflammatory responses in piglets. <b>2018</b> , 8, 2451	16
588	Effects of deficiency and surplus dietary threonine on reproductive performance of primiparous pregnant gilts. <b>2018</b> , 102, e964-e971	0
587	Gastrointestinal and hepatic enzyme activities in juvenile silvery-black porgy ( <i>Sparidentex hasta</i> ) fed essential amino acid-deficient diets. <b>2018</b> , 44, 853-868	4
586	Dietary arginine supplementation enhances the growth performance and immune status of broiler chickens. <b>2018</b> , 209, 8-13	15
585	The role of nutrition in immunity in infants and toddlers: An expert panel opinion. <b>2018</b> , 6, 155-159	7
584	Threonine, arginine, and glutamine: Influences on intestinal physiology, immunology, and microbiology in broilers. <b>2018</b> , 97, 937-945	28
583	Upregulation of genes encoding digestive enzymes and nutrient transporters in the digestive system of broiler chickens by dietary supplementation of fiber and inclusion of coarse particle size corn. <b>2018</b> , 19, 208	25
582	Responses to dietary levels of methionine in broilers medicated or vaccinated against coccidia under <i>Eimeria tenella</i> -challenged condition. <b>2018</b> , 14, 140	15
581	Effects of dietary arginine on antioxidant status and immunity involved in AMPK-NO signaling pathway in juvenile blunt snout bream. <b>2018</b> , 78, 69-78	22
580	Post-ruminal branched-chain amino acid supplementation and intravenous lipopolysaccharide infusion alter blood metabolites, rumen fermentation, and nitrogen balance of beef steers. <b>2018</b> , 96, 2886-2906	3
579	Effects of dietary threonine and immune stress on growth performance, carcass trait, serum immune parameters, and intestinal muc2 and NF- $\kappa$ B gene expression in Pekin ducks from hatch to 21 days. <b>2018</b> , 97, 177-187	8
578	Hemato-immunological and plasma biochemical responses of silvery-black porgy ( <i>Sparidentex hasta</i> ) fed protein and essential amino acid deficient diets. <b>2018</b> , 27, 55-60	3
577	The spectrum of T cell metabolism in health and disease. <b>2018</b> , 18, 19-34	202
576	The Physiological Mechanisms of Effect of Vitamins and Amino Acids on Tendon and Muscle Healing: A Systematic Review. <b>2018</b> , 28, 294-311	5
575	Dietary leucine modulates growth performance, Nrf2 antioxidant signaling pathway and immune response of juvenile blunt snout bream ( <i>Megalobrama amblycephala</i> ). <b>2018</b> , 73, 57-65	30

574	Inducers of salmon innate immunity: An in vitro and in vivo approach. <b>2018</b> , 72, 247-258	7
573	Regulation of intestinal health by branched-chain amino acids. <b>2018</b> , 89, 3-11	20
572	Antioxidant and immunomodulatory activities of Oviductus ranae in mice. <b>2018</b> , 54,	1
571	Description of amino acid and fatty acid content during initial development of <i>Lophiosilurus alexandri</i> (Siluriformes: Pseudopimelodidae), a carnivorous freshwater catfish. <b>2018</b> , 16,	4
570	Oral Administration of Silk Peptide Enhances the Maturation and Cytolytic Activity of Natural Killer Cells. <b>2018</b> , 18, e37	8
569	Is the Response of Tumours Dependent on the Dietary Input of Some Amino Acids or Ratios among Essential and Non-Essential Amino Acids? All That Glitters Is Not Gold. <b>2018</b> , 19,	3
568	Antioxidative Efficacy of a Supplement and Its Effect on the Plasma Amino Acid Profile in Inflammatory Bowel Disease: A Randomised, Double-Blind, Placebo-Controlled Trial. <b>2018</b> , 10,	14
567	BOARD-INVITED REVIEW: Arginine nutrition and metabolism in growing, gestating, and lactating swine. <b>2018</b> , 96, 5035-5051	36
566	The effect of different dietary levels of DL-methionine and DL-hydroxy analogue on the antioxidant status of young turkeys infected with the haemorrhagic enteritis virus. <b>2018</b> , 14, 404	4
565	Amino acid and mineral composition of milk from local Ukrainian cows and their crossbreedings with Brown Swiss and Montbeliarde breeds. <b>2018</b> , 43, 238	2
564	Dietary Methionine Improves the European Seabass ( <i>) Immune Status, Inflammatory Response, and Disease Resistance. <b>2018</b>, 9, 2672</i>	22
563	Estimation of energy balance and training volume during Army Initial Entry Training. <b>2018</b> , 15, 55	14
562	Feed Choice Led to Higher Protein Intake in Broiler Chickens Experimentally Infected With. <b>2018</b> , 5, 79	2
561	Use of some nutritional supplements in drinking water of growing turkeys during 1st month of age and their effect on performance, meat quality, blood profile and antioxidant status. <b>2018</b> , 102, 1625-1633	4
560	Impact of dietary fiber and immune system stimulation on threonine requirement for protein deposition in growing pigs. <b>2018</b> , 96, 5222-5232	6
559	Digestible threonine for slow-growing broilers: performance, carcass characteristics, intestinal mucin, and duodenal morphometry. <b>2018</b> , 47,	2
558	The fractional synthesis rates of plasma proteins as determined using deuterated water are sensitive to dietary intake of lysine in rats. <b>2018</b> , 50, 1719-1727	
557	The relevance of functional amino acids to support the health of growing pigs. <b>2018</b> , 245, 104-116	23

556	Effect of Dietary Lysine Regimens on Growth Performance and Meat Composition in Aseel Chicken. <b>2018</b> , 20, 203-210		3
555	Characterizing amino-acid biosignatures amongst individuals with schizophrenia: a case-control study. <b>2018</b> , 50, 1013-1023		26
554	Dietary l-threonine supplementation attenuates lipopolysaccharide-induced inflammatory responses and intestinal barrier damage of broiler chickens at an early age. <i>British Journal of Nutrition</i> , <b>2018</b> , 119, 1254-1262	3.6	51
553	Metabolomic profile of systemic sclerosis patients. <b>2018</b> , 8, 7626		19
552	Evaluation of Dietary Protein Level in Practical Feed for Twoband Bream <i>Diplodus vulgaris</i> . <b>2018</b> , 80, 379-387		5
551	Homeostatic regulation of plasma amino acid concentrations. <b>2018</b> , 23, 640-655		14
550	Jugular infusion of arginine has a positive effect on antioxidant mechanisms in lactating dairy cows challenged intravenously with lipopolysaccharide1. <b>2018</b> , 96, 3850-3855		4
549	Functions and Signaling Pathways of Amino Acids in Intestinal Inflammation. <b>2018</b> , 2018, 9171905		69
548	Protective effects of taurine on growth performance and intestinal epithelial barrier function in weaned piglets challenged without or with lipopolysaccharide. <b>2018</b> , 58, 2011		7
547	l-glutamine in vitro supplementation enhances Nile tilapia <i>Oreochromis niloticus</i> (Linnaeus, 1758) leukocyte function. <b>2018</b> , 80, 592-599		6
546	The effect of time-dependent protein restriction on growth factors, nonspecific immunity, body composition, fatty acids and amino acids in the Siberian sturgeon ( <i>Acipenser baerii</i> ). <b>2018</b> , 49, 3033-3044		18
545	Metal particles as trace-element sources: current state and future prospects. <b>2018</b> , 74, 523-540		24
544	Role of SLC7A5 in Metabolic Reprogramming of Human Monocyte/Macrophage Immune Responses. <b>2018</b> , 9, 53		52
543	Amino Acids As Mediators of Metabolic Cross Talk between Host and Pathogen. <b>2018</b> , 9, 319		49
542	Modulation of Free Amino Acid Profile in Healthy Humans Administered with Mastiha Terpenes. An Open-Label Trial. <b>2018</b> , 10,		4
541	Dietary N-carbamylglutamate and rumen-protected L-arginine supplementation during intrauterine growth restriction in undernourished ewes improve fetal thymus development and immune function. <b>2018</b> , 30, 1522-1531		12
540	Advances in low-protein diets for swine. <b>2018</b> , 9, 60		62
539	Cattle infection response network and its functional modules. <b>2018</b> , 19, 2		3

538	l-arginine supplementation in sow diet during late gestation decrease stillborn piglet, increase piglet birth weight and increase immunoglobulin G concentration in colostrum. <b>2018</b> , 121, 27-34		14
537	Immunomodulatory role of branched-chain amino acids. <b>2018</b> , 76, 840-856		24
536	Effects of dietary arginine on intestinal antioxidant status and immunity involved in Nrf2 and NF- $\kappa$ B signaling pathway in juvenile blunt snout bream, <i>Megalobrama amblycephala</i> . <b>2018</b> , 82, 243-249		26
535	Multi-strain probiotics enhance immune responsiveness and alters metabolic profiles in the New Zealand black-footed abalone ( <i>Haliotis iris</i> ). <b>2018</b> , 82, 330-338		25
534	Dietary arginine affects growth, gut morphology, oxidation resistance and immunity of hybrid grouper ( <i>Epinephelus fuscoguttatus</i> ? <i>Epinephelus lanceolatus</i> ?) juveniles. <i>British Journal of Nutrition</i> , <b>2018</b> , 120, 269-282	3.6	32
533	Metabolic Profiling of Multiorgan Samples: Evaluation of MODY5/RCAD Mutant Mice. <b>2018</b> , 17, 2293-2306		3
532	Maternal supply of methionine during late pregnancy is associated with changes in immune function and abundance of microRNA and mRNA in Holstein calf polymorphonuclear leukocytes. <b>2018</b> , 101, 8146-8158		20
531	Roles of microRNA in the immature immune system of neonates. <b>2018</b> , 433, 99-106		12
530	The immune modulatory effect of oregano ( <i>Origanum vulgare</i> L.) essential oil on <i>Tilapia zillii</i> following intraperitoneal infection with <i>Vibrio anguillarum</i> . <b>2018</b> , 26, 1147-1160		22
529	Diet, Nutrition and the Immune System. <b>2019</b> , 250-255		2
528	Nutritional and functional activities of protein from steamed, baked, and high hydrostatic pressure treated cod ( <i>Gadus morhua</i> ). <b>2019</b> , 96, 9-15		9
527	Plasma free amino acid profile in quiescent Inflammatory Bowel Disease patients orally administered with Mastiha ( <i>Pistacia lentiscus</i> ); a randomised clinical trial. <b>2019</b> , 56, 40-47		8
526	Immunological effects of altering the concentrate inclusion level in a grass silage-based diet for early lactation Holstein Friesian cows. <b>2019</b> , 13, 799-809		2
525	Multi-platform metabolomics unravel amino acids as markers of HIV/combo antiretroviral therapy-induced oxidative stress. <b>2019</b> , 176, 112796		12
524	Serum amino acid concentrations and clinical outcomes in smokers: SPIROMICS metabolomics study. <b>2019</b> , 9, 11367		10
523	Amino acid supplementation of a simple inorganic salt solution supports efficient in vitro maturation (IVM) of bovine oocytes. <b>2019</b> , 9, 11739		8
522	Nutrition influence on sow reproductive performance and conceptuses development and survival: A review about l-arginine supplementation. <b>2019</b> , 228, 97-103		4
521	The Use of Dietary Additives in Fish Stress Mitigation: Comparative Endocrine and Physiological Responses. <b>2019</b> , 10, 447		37

520	In vitro methionine supplementation during lipopolysaccharide stimulation modulates immunometabolic gene network expression in isolated polymorphonuclear cells from lactating Holstein cows. <b>2019</b> , 102, 8343-8351	10
519	Non-specific immune responses, stress resistance and growth performance of Caspian roach ( <i>Rutilus caspicus</i> ) fed diet supplemented with earthworm ( <i>Eisenia foetida</i> ) extract. <b>2019</b> , 511, 734275	4
518	MSC-triggered metabolomic alterations in liver-resident immune cells isolated from CCl <sub>4</sub> -induced mouse ALI model. <b>2019</b> , 383, 111511	6
517	Diet-Microbe-Host Interactions That Affect Gut Mucosal Integrity and Infection Resistance. <b>2019</b> , 10, 1802	34
516	Postprandial insulin and nutrient concentrations in lipopolysaccharide-challenged growing pigs reared in thermoneutral and high ambient temperatures <sup>1</sup> . <b>2019</b> , 97, 3354-3368	2
515	On the influence of water on fragmentation of the amino acid L-threonine. <b>2019</b> , 17, 250-262	
514	Animal Welfare as Preventative Medicine. <b>2019</b> , 28, 137-141	3
513	Dendritic Cells Require PINK1-Mediated Phosphorylation of BCKDE1 $\beta$ to Promote Fatty Acid Oxidation for Immune Function. <b>2019</b> , 10, 2386	7
512	Supplemental effects of dietary nucleotides on intestinal health and growth performance of newly weaned pigs. <b>2019</b> , 97, 4875-4882	21
511	Effects of nano zinc oxide as an alternative to pharmacological dose of zinc oxide on growth performance, diarrhea, immune responses, and intestinal microflora profile in weaned piglets. <b>2019</b> , 258, 114312	17
510	Effect of supplementation of pelleted hazel ( <i>Corylus avellana</i> ) leaves on blood antioxidant activity, cellular immune response, and heart beat parameters in sheep <sup>1</sup> . <b>2019</b> , 97, 4496-4502	4
509	Effect of dietary valine supplementation to low protein diets on performance, intestinal morphology and immune responses in broiler chickens. <b>2019</b> , 229, 137-144	8
508	Effect of dietary glutathione supplementation on the immune responses and the fatty acid and amino acid composition in Chinese mitten crab, <i>Eriocheir sinensis</i> . <b>2019</b> , 15, 100217	5
507	RNA-seq revealed the signatures of immunity and metabolism in the <i>Litopenaeus vannamei</i> intestine in response to dietary succinate. <b>2019</b> , 95, 16-24	3
506	Interfacing a Personal Glucose Meter with Cell-Free Protein Synthesis for Rapid Analysis of Amino Acids. <b>2019</b> , 91, 2531-2535	16
505	Effects of supplementing organic microminerals and methionine with or without limiting growth during the rearing phase of replacement gilts on lameness, growth, and body composition. <b>2019</b> , 3, 717-730	1
504	Dietary tryptophan deficiency and its supplementation compromises inflammatory mechanisms and disease resistance in a teleost fish. <b>2019</b> , 9, 7689	19
503	Hematological parameters and prevalence of anemia in white and British Indian vegetarians and nonvegetarians in the UK Biobank. <b>2019</b> , 110, 461-472	14

502	Silk peptide treatment potentiates natural killer cell activity and induces natural killer cell maturation and activation in mouse splenocytes. <b>2019</b> , 57, 369-379	3
501	Lifestyle medicine – An evidence based approach to nutrition, sleep, physical activity, and stress management on health and chronic illness. <b>2019</b> , 8, 3-9	6
500	Physiological Effects of Dietary Amino Acids on Gut Health and Functions of Swine. <b>2019</b> , 6, 169	40
499	NMR metabolome of <i>Borrelia burgdorferi</i> in vitro and in vivo in mice. <b>2019</b> , 9, 8049	4
498	Comparative analysis of growth performance and liver transcriptome response of juvenile <i>Ancherythroculter nigrocauda</i> fed diets with different protein levels. <b>2019</b> , 31, 100592	6
497	Glutamine protects against LPS-induced inflammation via adjusted NODs signaling and enhanced immunoglobulins secretion in rainbow trout leukocytes. <b>2019</b> , 98, 148-156	9
496	Propolis Exerts an Anti-Inflammatory Effect on PMA-Differentiated THP-1 Cells via Inhibition of Purine Nucleoside Phosphorylase. <b>2019</b> , 9,	14
495	Functions of Macrophages in the Maintenance of Intestinal Homeostasis. <b>2019</b> , 2019, 1512969	38
494	Arginine, histidine and tryptophan: A new hope for cancer immunotherapy. <b>2019</b> , 8, 100149	7
493	Tryptophan Metabolic Pathways and Brain Serotonergic Activity: A Comparative Review. <b>2019</b> , 10, 158	109
492	A Systems Vaccinology Approach Reveals the Mechanisms of Immunogenic Responses to Hantavax Vaccination in Humans. <b>2019</b> , 9, 4760	12
491	Effects of chronic stress on intestinal amino acid pathways. <b>2019</b> , 204, 199-209	8
490	Whey Protein Isolate Supplementation While Endurance Training Does Not Alter Cycling Performance or Immune Responses at Rest or After Exercise. <b>2019</b> , 6, 19	7
489	Reviews on Biomarker Studies of Metabolic and Metabolism-Related Disorders. <b>2019</b> ,	3
488	The Role of Inflammation in the Development of GDM and the Use of Markers of Inflammation in GDM Screening. <b>2019</b> , 1134, 217-242	36
487	Immunometabolism is a key factor for the persistent spontaneous elite control of HIV-1 infection. <b>2019</b> , 42, 86-96	33
486	Effects of dietary methionine supplementation on growth performance, intestinal morphology, antioxidant capacity and immune function in intra-uterine growth-retarded suckling piglets. <b>2019</b> , 103, 868-881	7
485	Transcriptome analysis reveals the activation of neuroendocrine-immune system in shrimp hemocytes at the early stage of WSSV infection. <b>2019</b> , 20, 247	20

484	IRMS as a tool to obtain the carbon turnover ( $\text{IC}$ ) in organs of weaned piglets fed glutamic acid and nucleotides. <b>2019</b> , 103, 906-914	2
483	The Anti-depression Effect of Angelicae Sinensis Radix Is Related to the Pharmacological Activity of Modulating the Hematological Anomalies. <b>2019</b> , 10, 192	20
482	Optimizing Gastrointestinal Integrity in Poultry: The Role of Nutrients and Feed Additives. <b>2018</b> , 5, 348	31
481	Effects of arginase inhibition via jugular infusion of N-hydroxy-nor-l-arginine on metabolic and immune indices in lactating dairy cows. <b>2019</b> , 102, 3310-3320	2
480	Urine metabolic profiles in paediatric asthma. <b>2019</b> , 24, 572-581	8
479	Synthesis, Characterization and Study Biological Activity of New Para-methoxy Benzene Sulfonamide Derivatives and some Amino Acid. <b>2019</b> , 571, 012093	
478	A Multi-Omics Study of Chicken Infected by Nephropathogenic Infectious Bronchitis Virus. <b>2019</b> , 11,	8
477	Gut Microbiota in Children With Cystic Fibrosis: A Taxonomic and Functional Dysbiosis. <b>2019</b> , 9, 18593	28
476	Sex differences in dietary intake in British Army recruits undergoing phase one training. <b>2019</b> , 16, 59	6
475	Evaluation of Filamentous Fungal Biomass Cultivated on Vinasse as an Alternative Nutrient Source of Fish Feed: Protein, Lipid, and Mineral Composition. <b>2019</b> , 5, 99	40
474	The purification and identification of immunoregulatory peptides from oyster () enzymatic hydrolysate.. <b>2019</b> , 9, 32854-32863	5
473	Serum metabolic profiling using small molecular water-soluble metabolites in individuals with schizophrenia: A longitudinal study using a pre-post-treatment design. <b>2019</b> , 73, 100-108	13
472	Dietary l-Tryptophan Supplementation Enhances the Intestinal Mucosal Barrier Function in Weaned Piglets: Implication of Tryptophan-Metabolizing Microbiota. <b>2018</b> , 20,	30
471	l-arginine protects against T-2 toxin-induced male reproductive impairments in mice. <b>2019</b> , 126, 249-253	8
470	Altered cancer metabolism in mechanisms of immunotherapy resistance. <b>2019</b> , 195, 162-171	54
469	Rapid Cerebral Metabolic Shift during Neonatal Sepsis Is Attenuated by Enteral Colostrum Supplementation in Preterm Pigs. <b>2019</b> , 9,	3
468	Shifts in the Skin-Associated Microbiota of Hatchery-Reared Common Snook <i>Centropomus undecimalis</i> During Acclimation to the Wild. <b>2019</b> , 77, 770-781	20
467	Dietary histidine affects intestinal antioxidant enzyme activities, antioxidant gene expressions and inflammatory factors in juvenile blunt snout bream ( <i>Megalobrama amblycephala</i> ). <b>2019</b> , 25, 249-259	16

466	Relative bioavailability of l-lysine sulfate is equivalent to that of l-lysine HCl for nursery piglets. <b>2019</b> , 97, 269-278	2
465	Early metabolic characterization of brain tissues after whole body radiation based on gas chromatography-mass spectrometry in a rat model. <b>2019</b> , 33, e4448	1
464	Ecoimmunology in degus: interplay among diet, immune response, and oxidative stress. <b>2019</b> , 189, 143-152	5
463	The effects of supplemental threonine on performance, carcass characteristics, immune response and gut health of broilers in subtropics during pre-starter and starter period. <b>2019</b> , 103, 29-40	5
462	Influences of Short-Term Fasting and Carbohydrate Supplementation on Gut Immunity and Mucosal Morphology in Mice. <b>2019</b> , 43, 516-524	7
461	Design of composite microparticle systems based on pectin and waste material of propolis for modified l-alanyl-l-glutamine release and with immunostimulant activity. <b>2019</b> , 24, 12-23	5
460	The optimal arginine requirement in diets for juvenile humpback grouper, <i>Cromileptes altivelis</i> . <b>2020</b> , 514, 734509	3
459	An open-label, single-center pilot study to test the effects of an amino acid mixture in older patients admitted to internal medicine wards. <b>2020</b> , 69, 110588	1
458	Effect of the total replacement of fishmeal with plant proteins and supplemental essential amino acids in the extruded diet on antioxidants genes, enzyme activities, and immune response in juvenile blunt snout bream. <b>2020</b> , 28, 555-568	3
457	Effects of intravenous arginine infusion on inflammation and metabolic indices of dairy cows in early lactation. <b>2020</b> , 14, 346-352	5
456	Interactive effects of threonine levels and protein source on growth performance and carcass traits, gut morphology, ileal digestibility of protein and amino acids, and immunity in broilers. <b>2020</b> , 99, 280-289	7
455	Supplementation with an Inorganic Iron Source Modulates the Metalloproteomic Profile of the Royal Jelly Produced by <i>Apis mellifera</i> L. <b>2020</b> , 195, 648-657	2
454	Intermediary metabolic response and gene transcription modulation on the Sub-Antarctic notothenioid <i>Eleginops maclovinus</i> (Valenciennes, 1930) injected with two strains of <i>Piscirickettsia salmonis</i> . <b>2020</b> , 43, 111-127	4
453	Effect of dietary tryptophan supplementation on growth performance, immune response and anti-oxidant status of broiler chickens from 7 to 21 days. <b>2020</b> , 6, 48-53	13
452	The impact of in ovo injection of l-arginine on hatchability, immune system and caecum microflora of broiler chickens. <b>2020</b> , 104, 178-185	4
451	Severity of the autoimmune encephalomyelitis symptoms in mouse model by inhibition of LAT-1 transporters. <b>2020</b> , 50, 481-491	0
450	Effects of dietary tryptophan supplementation and stocking density on growth performance and stress responses in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <b>2020</b> , 519, 734908	15
449	Serum metabolic fingerprinting of pre-lameness dairy cows by GC-MS reveals typical profiles that can identify susceptible cows. <b>2020</b> , 213, 103620	2



448	Methionine and arginine supplementation alter inflammatory and oxidative stress responses during lipopolysaccharide challenge in bovine mammary epithelial cells in vitro. <b>2020</b> , 103, 676-689	20
447	Effect of hydroxyproline supplementation on growth performance, body composition, amino acid profiles, blood-biochemistry and collagen synthesis of juvenile chu's croaker ( <i>Nibea coibor</i> ). <b>2020</b> , 51, 1264-1275	10
446	Implications of gut microbiota dysbiosis and metabolic changes in prion disease. <b>2020</b> , 135, 104704	16
445	Skeletal muscle size, function, and adiposity with lifelong aerobic exercise. <b>2020</b> , 128, 368-378	23
444	A review on fish immuno-nutritional response to indispensable amino acids in relation to TOR, NF- $\kappa$ B and Nrf2 signaling pathways: Trends and prospects. <b>2020</b> , 241, 110389	18
443	Nutritional Value and Physiological Effects of Some Proteinaceous Diets on Honey Bee Workers ( <i>Apis mellifera</i> L.). <b>2020</b> , 97, 26-31	2
442	Microbiota associated with the skin, gills, and gut of the fish <i>Parachondrostoma toxostoma</i> from the Rhine basin. <b>2020</b> , 65, 446-459	2
441	Elucidation of gastrointestinal dysfunction in response to irradiation using metabolomics. <b>2020</b> , 23, 100789	
440	A pathogen branched-chain amino acid catabolic pathway subverts host survival by impairing energy metabolism and the mitochondrial UPR. <b>2020</b> , 16, e1008918	7
439	Effects of Probiotics Administration on Human Metabolic Phenotype. <b>2020</b> , 10,	3
438	Intestinal Macrophages at the Crossroad between Diet, Inflammation, and Cancer. <b>2020</b> , 21,	11
437	Effects of different levels of arginine and methionine in a high-lysine diet on the immune status, performance, and carcass traits of turkeys. <b>2020</b> , 99, 4730-4740	3
436	Functional diets in fish health management. <b>2020</b> , 187-234	6
435	How to manage celiac disease and gluten-free diet during the COVID-19 era: proposals from a tertiary referral center in a high-incidence scenario. <b>2020</b> , 20, 387	12
434	Integrative Metabolomics to Identify Molecular Signatures of Responses to Vaccines and Infections. <b>2020</b> , 10,	14
433	Elimination of Hepatic Rodent Parasites by Amino Acid Supplementation. <b>2020</b> , 23, 101781	3
432	Secondary Functions of Arginine and Sulfur Amino Acids in Poultry Health: Review. <b>2020</b> , 10,	5
431	Amino Acids in Nutrition and Health. <b>2020</b> ,	1

430	Transcriptome Analysis and Expression of Selected Cationic Amino Acid Transporters in the Liver of Broiler Chicken Fed Diets with Varying Concentrations of Lysine. <b>2020</b> , 21,	2
429	Short-Term Supplementation of Dietary Arginine and Citrulline Modulates Gilthead Seabream () Immune Status. <b>2020</b> , 11, 1544	5
428	Metabolomic Signature of Amino Acids, Biogenic Amines and Lipids in Blood Serum of Patients with Severe Osteoarthritis. <b>2020</b> , 10,	6
427	Effects of dietary leucine levels on intestinal antioxidant status and immune response for juvenile golden pompano ( <i>Trachinotus ovatus</i> ) involved in Nrf2 and NF- $\kappa$ B signaling pathway. <b>2020</b> , 107, 336-345	11
426	Metabolome fingerprints, performance and carcass quality of beef calves supplemented with antibiotic free additive. <b>2020</b> , 1-13	1
425	Prenatal Exposure to Multiple Air Pollutants, Mediating Molecular Mechanisms, and Shifts in Birthweight. <b>2020</b> , 54, 14502-14513	4
424	A preliminary study of the effect of total fishmeal replacement with different dietary sources on the gut microbiota of spotted rose snapper juvenile ( <i>Lutjanus guttatus</i> Steindachner, 1869). <b>2020</b> , 51, 4771-4784	1
423	Automated On-Line Isolation and Fractionation System for Nanosized Biomacromolecules from Human Plasma. <b>2020</b> , 92, 13058-13065	10
422	Importance of Dietary Changes During the Coronavirus Pandemic: How to Upgrade Your Immune Response. <b>2020</b> , 8, 476	19
421	Effects of dietary protein/energy ratio and water temperature on growth performance, digestive enzymes activity and non-specific immune response of spotted seabass ( <i>Lateolabrax maculatus</i> ). <b>2020</b> , 26, 2023-2031	2
420	Effect of light intensity on digestion and immune responses, plasma cortisol and amino acid composition of <i>Scylla paramamosain</i> during indoor overwintering. <b>2020</b> , 51, 5005-5014	2
419	Amino acids and the regulation of oxidative stress and immune function in dairy cattle. <b>2020</b> , 98, S175-S193	18
418	Effects of Multi-Strain Probiotics on Immune Responses and Metabolic Balance in -Infected Mice. <b>2020</b> , 12,	7
417	Supplementing Synbiotic in Sows' Diets Modifies Beneficially Blood Parameters and Colonic Microbiota Composition and Metabolic Activity in Suckling Piglets. <b>2020</b> , 7, 575685	5
416	Role of Dietary Amino Acids and Nutrient Sensing System in Pregnancy Associated Disorders. <b>2020</b> , 11, 586979	7
415	Relation of Dietary Factors with Infection and Mortality Rates of COVID-19 across the World. <b>2020</b> , 24, 1011-1018	18
414	COVID-19: Is there a role for immunonutrition in obese patient?. <b>2020</b> , 18, 415	29
413	Nutritional requirement and its role on honeybee: a review. <b>2020</b> , 3, 321-334	2

412	Nutrition and metabolism of glutamate and glutamine in fish. <b>2020</b> , 52, 671-691	36
411	Effects of dietary lysine on regulating GH-IGF system, intermediate metabolism and immune response in largemouth bass ( <i>Micropterus salmoides</i> ). <b>2020</b> , 17, 100323	11
410	Strengthening the Immune System and Reducing Inflammation and Oxidative Stress through Diet and Nutrition: Considerations during the COVID-19 Crisis. <b>2020</b> , 12,	251
409	Tryptophan as a Central Hub for Host/Microbial Symbiosis. <b>2020</b> , 13, 1178646920919755	11
408	Serum metabolomics identifies metabolite panels that differentiate lame dairy cows from healthy ones. <b>2020</b> , 16, 73	2
407	Changes in Metabolites from Bovine Milk with $\beta$ Casein Variants Revealed by Metabolomics. <b>2020</b> , 10,	3
406	Haematological and immunological plasma assays and histological study of the grass carp ( <i>Ctenopharyngodon idella</i> ) to determine health status. <b>2020</b> , 51, 3685-3697	2
405	Increasing the ratio of SID lysine to metabolizable energy improves pig performance during a viral challenge. <b>2020</b> , 98,	0
404	Roles of arginine in fish nutrition and health: insights for future researches. <b>2020</b> , 12, 2091-2108	15
403	Composition of amino acids and related nitrogenous nutrients in feedstuffs for animal diets. <b>2020</b> , 52, 523-542	75
402	Multi-Platform Characterization of Cerebrospinal Fluid and Serum Metabolome of Patients Affected by Relapsing-Remitting and Primary Progressive Multiple Sclerosis. <b>2020</b> , 9,	12
401	Beyond Heat Stress: Intestinal Integrity Disruption and Mechanism-Based Intervention Strategies. <b>2020</b> , 12,	31
400	Variable dependency on associated yeast communities influences host range in <i>Drosophila</i> species. <b>2020</b> , 129, 964-982	5
399	Pharmacodynamic and Metabolomics Studies on the Effect of Kouyanqing Granule in the Treatment of Phenol-Induced Oral Ulcer Worsened by Sleep Deprivation. <b>2020</b> , 11, 824	4
398	Metabolic Reprogramming of Mouse Bone Marrow Derived Macrophages Following Erythrophagocytosis. <b>2020</b> , 11, 396	4
397	Branched chain amino acids improve mesenchymal stem cell proliferation, reducing nuclear factor kappa B expression and modulating some inflammatory properties. <b>2020</b> , 78, 110935	4
396	Relation of Dietary Factors with Infection and Mortality Rates of COVID-19 across the World. <b>2020</b> , 24, 1011	2
395	Amino acid nutrition and chicken gut health. <b>2020</b> , 76, 563-576	2

394	Nutrients in prevention, treatment, and management of viral infections; special focus on Coronavirus. <b>2020</b> , 1-10	32
393	The optimum methionine requirement in diets of juvenile hybrid grouper ( <i>Epinephelus fuscoguttatus</i> ? <i>Epinephelus lanceolatus</i> ?): Effects on survival, growth performance, gut micromorphology and immunity. <b>2020</b> , 520, 735014	12
392	Metabolome and proteome changes in skeletal muscle and blood of pre-weaning calves fed leucine and threonine supplemented diets. <b>2020</b> , 216, 103677	5
391	Dietary methionine spares the requirement for taurine in juvenile Yellowtail Kingfish ( <i>Seriola lalandi</i> ). <b>2020</b> , 522, 735090	14
390	Evaluation of whey protein sources on performance, liver antioxidants and immune responses of broiler chickens challenged with ethanol. <b>2020</b> , 104, 898-908	4
389	Interaction of field realistic doses of clothianidin and <i>Varroa destructor</i> parasitism on adult honey bee ( <i>Apis mellifera</i> L.) health and neural gene expression, and antagonistic effects on differentially expressed genes. <b>2020</b> , 15, e0229030	15
388	Tryptophan promoted $\beta$ -defensin-2 expression the mTOR pathway and its metabolites: kynurenine banding to aryl hydrocarbon receptor in rat intestine.. <b>2020</b> , 10, 3371-3379	6
387	Effects of arginine and ornithine supplementation to a high-protein diet on selected cellular immune variables in adult cats. <b>2020</b> , 34, 852-856	2
386	Anti-Inflammatory and Anti-Oxidative Activity of Indole-3-Acetic Acid Involves Induction of HO-1 and Neutralization of Free Radicals in RAW264.7 Cells. <b>2020</b> , 21,	20
385	Effect of threonine and potassium carbonate on broiler chicken performance, immunity, carcass traits, and small intestine morphology. <b>2020</b> , 52, 943-953	1
384	Effect of experimental arginine supplementation on the growth, immunity and resistance of tilapia fingerlings to <i>Streptococcus agalactiae</i> . <b>2020</b> , 51, 1276-1283	4
383	GC-MS based metabolomic profiling of lung tissue couple with network pharmacology revealed the possible protection mechanism of Pudilan Xiaoyan Oral Liquid in LPS-induced lung injury of mice. <b>2020</b> , 124, 109833	8
382	The effect of different dietary ratios of lysine and arginine in diets with high or low methionine levels on oxidative and epigenetic DNA damage, the gene expression of tight junction proteins and selected metabolic parameters in <i>Clostridium perfringens</i> -challenged turkeys. <b>2020</b> , 51, 50	6
381	Assessment of nutritional stress in famine burials using stable isotope analysis. <b>2020</b> , 172, 214-226	11
380	Toxic effect of chronic waterborne copper exposure on growth, immunity, anti-oxidative capacity and gut microbiota of Pacific white shrimp <i>Litopenaeus vannamei</i> . <b>2020</b> , 100, 445-455	13
379	Dietary l-arginine supplementation ameliorates inflammatory response and alters gut microbiota composition in broiler chickens infected with <i>Salmonella enterica</i> serovar Typhimurium. <b>2020</b> , 99, 1862-1874	14
378	Effects of lysine and methionine in a low crude protein diet on the growth performance and gene expression of immunity genes in broilers. <b>2020</b> , 99, 2916-2925	7
377	Acetylation of Phenylalanine Hydroxylase and Tryptophan 2,3-Dioxygenase Alters Hepatic Aromatic Amino Acid Metabolism in Weaned Piglets. <b>2020</b> , 10,	

376	Ameliorative effects of L-glutamine on haematological parameters in heat-stressed Red Sokoto goats. <b>2020</b> , 90, 102571	2
375	In silico and functional analyses of immunomodulatory peptides encrypted in the human gut metaproteome. <b>2020</b> , 70, 103969	2
374	Complete replacement of fishmeal by soybean and poultry meals in Pacific whiteleg shrimp feeds: Growth and tolerance to EMS/AHPND and WSSV challenge. <b>2020</b> , 527, 735383	9
373	Diet complexity and l-threonine supplementation: effects on growth performance, immune response, intestinal barrier function, and microbial metabolites in nursery pigs. <b>2020</b> , 98,	11
372	Serum amino acid profile in 51 dogs with immunosuppressant-responsive enteropathy (IRE): a pilot study on clinical aspects and outcomes. <b>2020</b> , 16, 117	3
371	Nutritional ecology and ecological immunology in degus: Does early nutrition affect the postnatal development of the immune function?. <b>2021</b> , 335, 239-249	1
370	Nutritional significance of amino acids, vitamins and minerals as nutraceuticals in poultry production and health - a comprehensive review. <b>2020</b> , 41, 1-29	35
369	Evaluating the impact of methionine-enriched diets in the liver of European seabass through label-free shotgun proteomics. <b>2021</b> , 232, 104047	3
368	Use of alternative protein sources for fishmeal replacement in the diet of largemouth bass ( <i>Micropterus salmoides</i> ). Part I: effects of poultry by-product meal and soybean meal on growth, feed utilization, and health. <b>2021</b> , 53, 33-47	18
367	Nutritional assessment and surgical outcomes in very elderly patients undergoing pancreaticoduodenectomy: a retrospective study. <b>2021</b> , 51, 941-953	2
366	Dietary Whey Protein Supplementation Increases Immunoglobulin G Production by Affecting Helper T Cell Populations after Antigen Exposure. <b>2021</b> , 10,	0
365	Tyrosine amino acid as a sustainable material for chemical functionalization of single-wall BC2N nanotubes: quantum chemical study. <b>2021</b> , 32, 1197-1203	2
364	Metabolic markers distinguish COVID-19 from other intensive care patients and show potential to stratify for disease risk.	2
363	. <b>2021</b> , 26,	3
362	Interorgan Metabolism of Amino Acids in Human Health and Disease. <b>2021</b> , 1332, 129-149	1
361	Amino Acids in Swine Nutrition and Production. <b>2021</b> , 1285, 81-107	21
360	Essential amino acid supplementation is associated with reduced serum C-reactive protein levels and improved circulating lymphocytes in post-acute inflamed elderly patients. <b>2021</b> , 35, 20587384211036823	0
359	Effects of sulphur type and concentration on growth performance, body composition and resistance of juvenile sea cucumber ( <i>Apostichopus japonicus</i> ) subjected to air and low salinity exposure stressors. <b>2021</b> , 52, 2481-2491	

358	Nutrition and Functions of Amino Acids in Aquatic Crustaceans. <b>2021</b> , 1285, 169-198	17
357	Dietary glutamine-glutamate supplementation enhances growth performance and intestinal villi development in cage-farmed Nile tilapia fingerlings. <b>2021</b> , 50,	2
356	Selection for feed efficiency elicits different postprandial plasma metabolite profiles in response to poor hygiene of housing conditions in growing pigs.	
355	Immunomodulatory Supplements. <b>2021</b> ,	0
354	Density functional theory study to functionalization of BCN nanotubes with cysteine amino acid. <b>2021</b> , 27, 72	
353	Effects of L-proline on cellular responses of hen erythrocytes subjected to thermal stress. <b>2021</b> , 96, 102855	
352	Free amino acids mix made of poultry keratin improves survival of whiteleg shrimp post larvae ( <i>Litopenaeus vannamei</i> ) challenged with acute hepatopancreatic necrosis disease and white spot syndrome virus. <b>2021</b> , 29, 879-890	2
351	Improving rehabilitation outcomes using metabolomics: Health, recovery and biomarkers of mortality in sick and injured green turtles ( <i>Chelonia mydas</i> ). <b>2021</b> , 254, 108943	2
350	Metabolomics Insights of the Immunomodulatory Activities of Phlorizin and Phloretin on Human THP-1 Macrophages. <b>2021</b> , 26,	3
349	Multifaceted role of one-carbon metabolism on immunometabolic control and growth during pregnancy, lactation and the neonatal period in dairy cattle. <b>2021</b> , 12, 27	8
348	The SARS-CoV-2 induced targeted amino acid profiling in patients at hospitalized and convalescent stage. <b>2021</b> , 41,	6
347	Selection for feed efficiency elicits different postprandial plasma metabolite profiles in response to poor hygiene of housing conditions in growing pigs. <b>2021</b> , 16, e0246216	1
346	Expression of the PEPT1, CAT, SOD2 and GPX1 genes in the zebrafish intestine supplemented with methionine dipeptide under predation risk. <b>2021</b> , 105, 1214-1225	2
345	Polymerized Whey Protein Concentrate-Based Glutathione Delivery System: Physicochemical Characterization, Bioavailability and Sub-Chronic Toxicity Evaluation. <b>2021</b> , 26,	0
344	Utilization of pelleted and extruded feed by blunt snout bream <i>Megalobrama amblycephala</i> : Insights from growth performance, health status and feed cost. <b>2021</b> , 105, 1203-1213	0
343	The Influence of different growing modes on the physiological state of mulard ducks. <b>2021</b> , 723, 022038	
342	Effects of different branched-chain amino acids supplementation protocols on the inflammatory response of LPS-stimulated RAW 264.7 macrophages. <b>2021</b> , 53, 597-607	3
341	Integrated Nutritional Supports for Diabetic Patients during COVID-19 Infection: A Comprehensive Review. <b>2021</b> ,	

340	Role of pharmaco- and micronutrients in nutritional metabolic therapy of COVID-19 and other viral infections. <b>2021</b> , 56-63	1
339	Metabolic Profile Reveals the Immunosuppressive Mechanisms of Methionyl-Methionine in Lipopolysaccharide-Induced Inflammation in Bovine Mammary Epithelial Cell. <b>2021</b> , 11,	0
338	Methionine and Tryptophan Play Different Modulatory Roles in the European Seabass () Innate Immune Response and Apoptosis Signaling-An Study. <b>2021</b> , 12, 660448	0
337	Proximate Analyses and Amino Acid Composition of Selected Wild Indigenous Fruits of Southern Africa. <b>2021</b> , 10,	6
336	Effects of Supplementing Rumen-Protected Methionine and Lysine on Milk Performance and Oxidative Status of Dairy Ewes. <b>2021</b> , 10,	4
335	Effect of egg cannibalism on mating preferences and reproductive fitness of <i>Menochilus sexmaculatus</i> Fabricius (Coleoptera: Coccinellidae). <b>2021</b> , 24, 271-277	0
334	Unique adaptations in neonatal hepatic transcriptome, nutrient signaling, and one-carbon metabolism in response to feeding ethyl cellulose rumen-protected methionine during late-gestation in Holstein cows. <b>2021</b> , 22, 280	3
333	COVID-19 ve Beslenme Arasındaki İlişkiye Gönül Bir Bakış108-115	2
332	Evaluation of Analytes Characterized with Potential Protective Action after Rat Exposure to Lead. <b>2021</b> , 26,	
331	Immunomodulatory Effect of a New Ingredients Group Extracted from Through Membrane Separation Technique. <b>2021</b> , 15, 1595-1607	
330	Invited Review: Maintain or Improve Piglet Gut Health around Weaning: The Fundamental Effects of Dietary Amino Acids. <b>2021</b> , 11,	3
329	Green Design of Novel Starch-Based Packaging Materials Sustaining Human and Environmental Health. <b>2021</b> , 13,	3
328	Stress management in aquaculture: a review of dietary interventions. <b>2021</b> , 13, 2190-2247	16
327	Functionalization of single-wall BC2N nanotubes by using amino acid: DFT study. <b>2021</b> , 44, 1	
326	Effects of age on mineral elements, amino acids and fatty acids in Chinese chestnut fruits. <b>2021</b> , 247, 2079-2086	3
325	Altered Amino Acid Metabolism in Patients with Cardiorenal Syndrome Type 2: Is It a Problem for Protein and Exercise Prescriptions?. <b>2021</b> , 13,	0
324	The Influence of Nutritional Factors on Immunological Outcomes. <b>2021</b> , 12, 665968	11
323	Metabolomics of Plant Parts (Leaf, Flower, Bud) and Their Antidiabetic Medicinal Potentials. <b>2021</b> , 25, 294-301	0

322	Potential Mechanisms Mediating the Protective Effects of -Derived Peptides in Mitigating DSS-Induced Colitis. <b>2021</b> , 69, 5536-5546	9
321	Promotion of Anti-Tuberculosis Macrophage Activity by L-Arginine in the Absence of Nitric Oxide. <b>2021</b> , 12, 653571	3
320	Effects of using vital wheat gluten in practical diets on growth, intestinal histopathology, proinflammation-related gene expression, and resistance of white seabream ( <i>Diplodus sargus</i> ) to <i>Staphylococcus epidermidis</i> infection. <b>2021</b> , 537, 736508	3
319	Free amino acid composition of saliva in patients with healthy periodontium and periodontitis. <b>2021</b> , 25, 4175-4183	4
318	Physiological role of Arginine in growth performance, gut health and immune response in broilers: a review. <b>2021</b> , 77, 517-537	0
317	Immune Response and Bone Marker Enzyme Activities of Broiler Birds Fed Graded Level Taurine-Supplemented-Diets. <b>2021</b> ,	0
316	Lysine supplemented to poultry by-product meal replacement diet modulates body growth, metabolism and related gene expressions of hybrid sturgeon ( <i>Acipenser schrenckii</i> ? [ <i>Acipenser baerii</i> ?]).	0
315	Phytosteranes, phytofurans, tocopherols, tocotrienols, carotenoids and free amino acids and biological potential of sea buckthorn juices. <b>2022</b> , 102, 185-197	2
314	Cysteine in Broiler Poultry Nutrition.	
313	Theoretical investigation of chemical functionalization BxCyNz ( $x'=z'=1, y'=2$ ) nanotube with pralines amino acid. <b>2021</b> , 1200, 113239	0
312	Dysregulated inflammation may predispose patients with serious mental illnesses to severe COVID-19 (Review). <b>2021</b> , 24,	4
311	Effects of graded levels of xylo-oligosaccharides on growth performance, serum parameters, intestinal morphology, and intestinal barrier function in weaned piglets. <b>2021</b> , 99,	5
310	Lysine deficiency impaired growth performance and immune response and aggravated inflammatory response of the skin, spleen and head kidney in grown-up grass carp (). <b>2021</b> , 7, 556-568	3
309	Metabolic Dynamics in Short- and Long-Term Microgravity in Human Primary Macrophages. <b>2021</b> , 22,	1
308	Anti-Inflammatory Effects of Heat-Processed Thunberg by Regulating IB/NF-B Complex and 15-PGDH in Mouse Macrophage Cells. <b>2021</b> , 2021, 5320314	1
307	Overview of the latest developments in the role of probiotics, prebiotics and synbiotics in shrimp aquaculture. <b>2021</b> , 114, 263-281	23
306	Effects of dietary methionine on growth performance and metabolism through modulating nutrient-related pathways in largemouth bass ( <i>Micropterus salmoides</i> ). <b>2021</b> , 20, 100642	2
305	Review: Physiological growth trend of current meat broilers and dietary protein and energy management approaches for sustainable broiler production. <b>2021</b> , 15, 100284	5



304	Construction and Analysis of Coexpression Network to Understand Biological Responses in Chickens Infected by. <b>2021</b> , 8, 688684	1
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