Bing Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8208722/publications.pdf

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31	1,768	394286 19	501076 28
papers	citations	h-index	g-index

31	31	31	1604
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sialic Acid Is an Essential Nutrient for Brain Development and Cognition. Annual Review of Nutrition, 2009, 29, 177-222.	4.3	283
2	Dietary sialic acid supplementation improves learning and memory in piglets. American Journal of Clinical Nutrition, 2007, 85, 561-569.	2.2	252
3	Concentration and distribution of sialic acid in human milk and infant formulas. American Journal of Clinical Nutrition, 2001, 74, 510-515.	2.2	211
4	Molecular Mechanism Underlying Sialic Acid as an Essential Nutrient for Brain Development and Cognition. Advances in Nutrition, 2012, 3, 465S-472S.	2.9	189
5	Brain ganglioside and glycoprotein sialic acid in breastfed compared with formula-fed infants. American Journal of Clinical Nutrition, 2003, 78, 1024-1029.	2.2	162
6	Lactoferrin Promotes Early Neurodevelopment and Cognition in Postnatal Piglets by Upregulating the BDNF Signaling Pathway and Polysialylation. Molecular Neurobiology, 2015, 52, 256-269.	1.9	86
7	Bovine Milk Oligosaccharides with Sialyllactose Improves Cognition in Preterm Pigs. Nutrients, 2019, 11, 1335.	1.7	60
8	LCâ€“MS/MS quantification of N-acetylneuraminic acid, N-glycolylneuraminic acid and ketodeoxynonulosonic acid levels in the urine and potential relationship with dietary sialic acid intake and disease in 3- to 5-year-old children. British Journal of Nutrition, 2014, 111, 332-341.	1.2	53
9	Sialic Acid Concentration of Brain Gangliosides: Variation Among Eight Mammalian Species. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1998, 119, 435-439.	0.8	52
10	LCâ€“MS/MS glycomic analyses of free and conjugated forms of the sialic acids, Neu5Ac, Neu5Gc and KDN in human throat cancers. Glycobiology, 2015, 25, 1362-1374.	1.3	52
11	Lactoferrin up-regulates intestinal gene expression of brain-derived neurotrophic factors BDNF, UCHL1 and alkaline phosphatase activity to alleviate early weaning diarrhea in postnatal piglets. Journal of Nutritional Biochemistry, 2014, 25, 834-842.	1.9	42
12	Molecular Determinants of Milk Lactoferrin as a Bioactive Compound in Early Neurodevelopment and Cognition. Journal of Pediatrics, 2016, 173, S29-S36.	0.9	34
13	Protective effects of maternal nutritional supplementation with lactoferrin on growth and brain metabolism. Pediatric Research, 2014, 75, 51-61.	1.1	33
14	Characterization of porcine milk oligosaccharides over lactation between primiparous and multiparous female pigs. Scientific Reports, 2018, 8, 4688.	1.6	31
15	Developmental changes in the level of free and conjugated sialic acids, Neu5Ac, Neu5Gc and KDN in different organs of pig: a LC-MS/MS quantitative analyses. Glycoconjugate Journal, 2017, 34, 21-30.	1.4	27
16	A longitudinal study of salivary sialic acid in preterm infants: Comparison of human milkâ€“fed versus formula-fed infants. Journal of Pediatrics, 2001, 138, 914-916.	0.9	26
17	Current Perspective of Sialylated Milk Oligosaccharides in Mammalian Milk: Implications for Brain and Gut Health of Newborns. Foods, 2021, 10, 473.	1.9	25
18	Dietary lactoferrin supplementation to gilts during gestation and lactation improves pig production and immunity. PLoS ONE, 2017, 12, e0185817.	1.1	23

#	Article	IF	Citations
19	The non-human glycan, N-glycolylneuraminic acid (Neu5Gc), is not expressed in all organs and skeletal muscles of nine animal species. Food Chemistry, 2021, 343, 128439.	4.2	21
20	Metabolic fate of intravenously administered N-acetylneuraminic acid-6-14C in newborn piglets. Asia Pacific Journal of Clinical Nutrition, 2007, 16, 110-5.	0.3	21
21	Sialylated milk oligosaccharides alter neurotransmitters and brain metabolites in piglets: an In vivo magnetic resonance spectroscopic (MRS) study. Nutritional Neuroscience, 2021, 24, 885-895.	1.5	19
22	Maternal chitosan oligosaccharide intervention optimizes the production performance and health status of gilts and their offspring. Animal Nutrition, 2020, 6, 134-142.	2.1	12
23	Molecular characterization of pig ST8Sia IVâ€"a critical gene for the formation of neural cell adhesion molecule and its response to sialic acid supplement in piglets. Nutritional Neuroscience, 2006, 9, 147-154.	1.5	11
24	Molecular Mechanisms Underlying How Sialyllactose Intervention Promotes Intestinal Maturity by Upregulating GDNF Through a CREB-Dependent Pathway in Neonatal Piglets. Molecular Neurobiology, 2019, 56, 7994-8007.	1.9	11
25	Functional Correlates and Impact of Dietary Lactoferrin Intervention and its Concentrationâ€dependence on Neurodevelopment and Cognition in Neonatal Piglets. Molecular Nutrition and Food Research, 2021, 65, e2001099.	1.5	10
26	Development of new population-averaged standard templates for spatial normalization and segmentation of MR images for postnatal piglet brains. Magnetic Resonance Imaging, 2014, 32, 1396-1402.	1.0	9
27	Molecular characterization and expression analyses of ST8Sia II and IV in piglets during postnatal development: lack of correlation between transcription and posttranslational levels. Glycoconjugate Journal, 2015, 32, 715-728.	1.4	7
28	Biochemical Characterization and Analyses of Polysialicâ€Acidâ€Associated Carrier Proteins and Genes in Piglets during Neonatal Development. ChemBioChem, 2017, 18, 1270-1278.	1.3	5
29	The Potential for Sialic Acid and Sialylated Glycoconjugates as Feed Additives to Enhance Pig Health and Production. Animals, 2021, 11, 2318.	1.0	1
30	Serum lactoferrin concentration of primiparous sow during gestation and lactation, and comparison between sow-fed and formula-fed piglets1. Translational Animal Science, 2019, 3, 1410-1415.	0.4	0
31	Effects of maternal milk lactoferrin supplementation on neurodevelopment and neuroprotection. FASEB Journal, 2012, 26, 112.6.	0.2	0