

# Cornelia C Metges

## List of Publications by Year in descending order

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73  
papers

2,868  
citations

172457

29  
h-index

175258

52  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3447  
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution of Microbial Amino Acids to Amino Acid Homeostasis of the Host. <i>Journal of Nutrition</i> , 2000, 130, 1857S-1864S.	2.9	304
2	Nutritional programming of gastrointestinal tract development. Is the pig a good model for man?. <i>Nutrition Research Reviews</i> , 2010, 23, 4-22.	4.1	259
3	Gas Chromatography/Combustion/Isotope Ratio Mass Spectrometric Comparison of N-Acetyl- and N-Pivaloyl Amino Acid Esters to Measure $^{15}\text{N}$ Isotopic Abundances in Physiological Samples: A Pilot Study on Amino Acid Synthesis in the Upper Gastro-intestinal Tract of Minipigs. <i>Journal of Mass Spectrometry</i> , 1996, 31, 367-376.	1.6	154
4	Choice of dietary protein of vegetarians and omnivores is reflected in their hair protein $^{13}\text{C}$ and $^{15}\text{N}$ abundance. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1392-1400.	1.5	139
5	Inulin Alters the Intestinal Microbiota and Short-Chain Fatty Acid Concentrations in Growing Pigs Regardless of Their Basal Diet. <i>Journal of Nutrition</i> , 2006, 136, 1198-1202.	2.9	128
6	Prenatal High Protein Exposure Decreases Energy Expenditure and Increases Adiposity in Young Rats. <i>Journal of Nutrition</i> , 2002, 132, 142-144.	2.9	105
7	Incorporation of urea and ammonia nitrogen into ileal and fecal microbial proteins and plasma free amino acids in normal men and ileostomates. <i>American Journal of Clinical Nutrition</i> , 1999, 70, 1046-1058.	4.7	94
8	Measurement of $^{15}\text{N}/^{14}\text{N}$ Isotopic Composition in Individual Plasma Free Amino Acids of Human Adults at Natural Abundance by Gas Chromatography-Combustion Isotope Ratio Mass Spectrometry. <i>Analytical Biochemistry</i> , 1997, 247, 158-164.	2.4	93
9	Kinetics of $^{13}\text{C}$ leucine when ingested with free amino acids, unlabeled or intrinsically labeled casein. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 278, E1000-E1009.	3.5	86
10	Whole-Body Nitrogen and Splanchnic Amino Acid Metabolism Differ in Rats Fed Mixed Diets Containing Casein or Its Corresponding Amino Acid Mixture. <i>Journal of Nutrition</i> , 2001, 131, 1965-1972.	2.9	79
11	Limited and excess protein intake of pregnant gilts differently affects body composition and cellularity of skeletal muscle and subcutaneous adipose tissue of newborn and weanling piglets. <i>European Journal of Nutrition</i> , 2012, 51, 151-165.	3.9	78
12	Involvement of Skeletal Muscle Protein, Glycogen, and Fat Metabolism in the Adaptation on Early Lactation of Dairy Cows. <i>Journal of Proteome Research</i> , 2011, 10, 4252-4262.	3.7	73
13	Maternal dietary protein restriction and excess affects offspring gene expression and methylation of non-SMC subunits of condensin I in liver and skeletal muscle. <i>Epigenetics</i> , 2012, 7, 239-252.	2.7	63
14	Effects of dietary energy intake during gestation and lactation on milk yield and composition of first, second and fourth parity sows. <i>Archives of Animal Nutrition</i> , 2007, 61, 452-468.	1.8	60
15	Proteome analysis of fatty liver in feed-deprived dairy cows reveals interaction of fuel sensing, calcium, fatty acid, and glycogen metabolism. <i>Physiological Genomics</i> , 2009, 37, 88-98.	2.3	57
16	Intestinal Glucose Absorption but Not Endogenous Glucose Production Differs between Colostrum- and Formula-Fed Neonatal Calves. <i>Journal of Nutrition</i> , 2011, 141, 48-55.	2.9	52
17	Availability of intestinal microbial lysine for whole body lysine homeostasis in human subjects. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 277, E597-E607.	3.5	50
18	$^{13}\text{C}$ Gas Chromatography-Combustion Isotope Ratio Mass Spectrometry Analysis of N-Pivaloyl Amino Acid Esters of Tissue and Plasma Samples. <i>Analytical Biochemistry</i> , 2000, 278, 156-164.	2.4	46

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19	Low and High Dietary Protein:Carbohydrate Ratios during Pregnancy Affect Materno-Fetal Glucose Metabolism in Pigs. <i>Journal of Nutrition</i> , 2014, 144, 155-163.	2.9	44
20	Early Nutrition and Later Obesity: Animal Models Provide Insights into Mechanisms. <i>Advances in Experimental Medicine and Biology</i> , 2009, 646, 105-112.	1.6	44
21	Supplementation of conjugated linoleic acid in dairy cows reduces endogenous glucose production during early lactation. <i>Journal of Dairy Science</i> , 2013, 96, 2258-2270.	3.4	43
22	Effect of a high-protein diet on food intake and liver metabolism during pregnancy, lactation and after weaning in mice. <i>Proteomics</i> , 2010, 10, 2573-2588.	2.2	40
23	Dietary protein restriction and excess of pregnant German Landrace sows induce changes in hepatic gene expression and promoter methylation of key metabolic genes in the offspring. <i>Journal of Nutritional Biochemistry</i> , 2013, 24, 484-495.	4.2	37
24	Effect of inulin supplementation on selected gastric, duodenal, and caecal microbiota and short chain fatty acid pattern in growing piglets. <i>Archives of Animal Nutrition</i> , 2007, 61, 235-246.	1.8	36
25	Proteomics analysis of hypothalamic response to energy restriction in dairy cows. <i>Proteomics</i> , 2007, 7, 3602-3617.	2.2	36
26	Higher body fatness in intrauterine growth retarded juvenile pigs is associated with lower fat and higher carbohydrate oxidation during ad libitum and restricted feeding. <i>European Journal of Nutrition</i> , 2014, 53, 583-597.	3.9	35
27	Intrauterine Growth Retarded Progeny of Pregnant Sows Fed High Protein:Low Carbohydrate Diet Is Related to Metabolic Energy Deficit. <i>PLoS ONE</i> , 2012, 7, e31390.	2.5	33
28	High and Low Protein Carbohydrate Dietary Ratios during Gestation Alter Maternal-Fetal Cortisol Regulation in Pigs. <i>PLoS ONE</i> , 2012, 7, e52748.	2.5	32
29	Effects of inadequate maternal dietary protein:carbohydrate ratios during pregnancy on offspring immunity in pigs. <i>BMC Veterinary Research</i> , 2012, 8, 232.	1.9	30
30	Synthesis and absorption of intestinal microbial lysine in humans and non-ruminant animals and impact on human estimated average requirement of dietary lysine. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2006, 9, 37-41.	2.5	29
31	Growth efficiency, intestinal biology, and nutrient utilization and requirements of black soldier fly ( <i>Hermetia illucens</i> ) larvae compared to monogastric livestock species: a review. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, 31.	5.3	29
32	Effects of rutin and buckwheat seeds on energy metabolism and methane production in dairy cows. <i>Journal of Dairy Science</i> , 2016, 99, 2161-2168.	3.4	27
33	Somatic cytochrome c (CYCS) gene expression and promoter-specific DNA methylation in a porcine model of prenatal exposure to maternal dietary protein excess and restriction. <i>British Journal of Nutrition</i> , 2012, 107, 791-799.	2.3	24
34	Oxoproline kinetics and oxoproline urinary excretion during glycine- or sulfur amino acid-free diets in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 278, E868-E876.	3.5	23
35	Contribution of intestinal microbial lysine to lysine homeostasis is reduced in minipigs fed a wheat gluten-based diet. <i>American Journal of Clinical Nutrition</i> , 2002, 76, 1317-1325.	4.7	23
36	Effects of a 6-wk intraduodenal supplementation with quercetin on energy metabolism and indicators of liver damage in periparturient dairy cows. <i>Journal of Dairy Science</i> , 2015, 98, 4509-4520.	3.4	22

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37	Resistance and tolerance to mixed nematode infections in relation to performance level in laying hens. <i>Veterinary Parasitology</i> , 2019, 275, 108925.	1.8	22
38	Systemic Absorption of Catechins after Intraruminal or Intraduodenal Application of a Green Tea Extract in Cows. <i>PLoS ONE</i> , 2016, 11, e0159428.	2.5	21
39	cis-9,trans-11 and trans-10,cis-12 CLA affect lipid metabolism differently in primary white and brown adipocytes of djungarian hamsters. <i>Lipids</i> , 2003, 38, 1133-1142.	1.7	19
40	High-protein and low-carbohydrate diet during pregnancy alters maternal plasma amino acid concentration and placental amino acid extraction but not fetal plasma amino acids in pigs. <i>British Journal of Nutrition</i> , 2012, 108, 2176-2189.	2.3	18
41	Utilization of essential amino acids synthesized in the intestinal microbiota of monogastric mammals. <i>British Journal of Nutrition</i> , 2005, 94, 621-622.	2.3	17
42	A High Protein Diet during Pregnancy Affects Hepatic Gene Expression of Energy Sensing Pathways along Ontogenesis in a Porcine Model. <i>PLoS ONE</i> , 2011, 6, e21691.	2.5	17
43	Enrichment of selected serum fatty acids after a small oral dosage of (1-13C)- and (8-13C)triolein in human volunteers analysed by gas chromatography/combustion isotope ratio mass spectrometry. <i>Biological Mass Spectrometry</i> , 1994, 23, 295-301.	0.5	16
44	A low protein diet during pregnancy provokes a lasting shift of hepatic expression of genes related to cell cycle throughout ontogenesis in a porcine model. <i>BMC Genomics</i> , 2012, 13, 93.	2.8	16
45	Effects on Transcriptional Regulation and Lipid Droplet Characteristics in the Liver of Female Juvenile Pigs after Early Postnatal Feed Restriction and Refeeding Are Dependent on Birth Weight. <i>PLoS ONE</i> , 2013, 8, e76705.	2.5	16
46	Proteome and radioimmunoassay analyses of pituitary hormones and proteins in response to feed restriction of dairy cows. <i>Proteomics</i> , 2010, 10, 4491-4500.	2.2	15
47	Co-expulsion of <i>Ascaridia galli</i> and <i>Heterakis gallinarum</i> by chickens. <i>International Journal for Parasitology</i> , 2018, 48, 1003-1016.	3.1	14
48	Methane prediction based on individual or groups of milk fatty acids for dairy cows fed rations with or without linseed. <i>Journal of Dairy Science</i> , 2019, 102, 1788-1802.	3.4	14
49	Hepatic expression of the GH/JAK/STAT/IGF pathway, acute-phase response signalling and complement system are affected in mouse offspring by prenatal and early postnatal exposure to maternal high-protein diet. <i>European Journal of Nutrition</i> , 2011, 50, 611-623.	3.9	13
50	Influence of maternal low protein diet during pregnancy on hepatic gene expression signature in juvenile female porcine offspring. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 277-290.	3.3	13
51	Effects of Oral Glutamine Supplementation on Early Postnatal Muscle Morphology in Low and Normal Birth Weight Piglets. <i>Animals</i> , 2020, 10, 1976.	2.3	11
52	Stable production of cyanophycinase in <i>Nicotiana benthamiana</i> and its functionality to hydrolyse cyanophycin in the murine intestine. <i>Plant Biotechnology Journal</i> , 2017, 15, 605-613.	8.3	10
53	Milk fatty acids estimated by mid-infrared spectroscopy and milk yield can predict methane emissions in dairy cows. <i>Agronomy for Sustainable Development</i> , 2018, 38, 1.	5.3	10
54	Phenotype Selection Reveals Coevolution of Muscle Glycogen and Protein and PTEN as a Gate Keeper for the Accretion of Muscle Mass in Adult Female Mice. <i>PLoS ONE</i> , 2012, 7, e39711.	2.5	9

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55	Resistance and tolerance to mixed nematode infections in chicken genotypes with extremely different growth rates. <i>International Journal for Parasitology</i> , 2019, 49, 579-591.	3.1	8
56	Classical and post-genomic methods to study GIT function with emphasis on the pig. <i>Livestock Science</i> , 2010, 133, 10-19.	1.6	7
57	Enhanced sensitivity of skeletal muscle growth in offspring of mice long-term selected for high body mass in response to a maternal high-protein/low-carbohydrate diet during lactation. <i>European Journal of Nutrition</i> , 2013, 52, 1201-1213.	3.9	7
58	Early postnatal feed restriction reduces liver connective tissue levels and affects H3K9 acetylation state of regulated genes associated with protein metabolism in low birth weight pigs. <i>Journal of Nutritional Biochemistry</i> , 2016, 29, 41-55.	4.2	7
59	Substitution of Dietary Sulfur Amino Acids by DL-2-hydroxy-4-Methylthiobutyric Acid Increases Remethylation and Decreases Transsulfuration in Weaned Piglets. <i>Journal of Nutrition</i> , 2019, 149, 432-440.	2.9	7
60	Low-abundance plasma and urinary [15N]urea enrichments analyzed by gas chromatography/combustion/isotope ratio mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2002, 37, 489-494.	1.6	6
61	Substitution of Dietary Sulfur Amino Acids by DL-2-Hydroxy-4-Methylthiobutyric Acid Reduces Fractional Glutathione Synthesis in Weaned Piglets. <i>Journal of Nutrition</i> , 2020, 150, 722-729.	2.9	6
62	Glutamine supplementation moderately affects growth, plasma metabolite and free amino acid patterns in neonatal low birth weight piglets. <i>British Journal of Nutrition</i> , 2022, 128, 2330-2340.	2.3	6
63	Effects of oral glutamine supplementation on jejunal morphology, development, and amino acid profiles in male low birth weight suckling piglets. <i>PLoS ONE</i> , 2022, 17, e0267357.	2.5	6
64	Maternal high-protein diet during pregnancy, but not during suckling, induced altered expression of an increasing number of hepatic genes in adult mouse offspring. <i>European Journal of Nutrition</i> , 2016, 55, 917-930.	3.9	5
65	Protein value of diets for dairy cows with different proportions of crude protein originating from red clover silage versus soybean meal. <i>Animal Feed Science and Technology</i> , 2018, 245, 126-135.	2.2	5
66	Glutamine supplementation stimulates cell proliferation in skeletal muscle and cultivated myogenic cells of low birth weight piglets. <i>Scientific Reports</i> , 2021, 11, 13432.	3.3	5
67	Distinct Roles of Perilipins in the Intramuscular Deposition of Lipids in Glutamine-Supplemented, Low-, and Normal-Birth-Weight Piglets. <i>Frontiers in Veterinary Science</i> , 2021, 8, 633898.	2.2	5
68	Breath water-based doubly labelled water method for the noninvasive determination of CO <sub>2</sub> production and energy expenditure in mice. <i>Isotopes in Environmental and Health Studies</i> , 2018, 54, 561-572.	1.0	4
69	Transcript profile of skeletal muscle lipid metabolism genes affected by diet in a piglet model of low birth weight. <i>PLoS ONE</i> , 2019, 14, e0224484.	2.5	2
70	Kinetics of Physiological and Behavioural Responses in Endotoxemic Pigs with or without Dexamethasone Treatment. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1393.	4.1	2
71	Diets for Dairy Cows with Different Proportions of Crude Protein Originating from Red Clover Silage versus Soybean Meal: Ruminal Degradation and Intestinal Digestibility of Amino Acids. <i>Animals</i> , 2021, 11, 2177.	2.3	1
72	The Effect of Dietary Protein Imbalance during Pregnancy on the Growth, Metabolism and Circulatory Metabolome of Neonatal and Weaned Juvenile Porcine Offspring. <i>Nutrients</i> , 2021, 13, 3286.	4.1	1

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73	Differentially Expressed Gene Patterns in Ascarid-Infected Chickens of Higher- or Lower-Performing Genotypes. <i>Animals</i> , 2021, 11, 1002.	2.3	0