

# Cornelia C Metges

## List of Publications by Citations

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72  
papers

2,296  
citations

28  
h-index

47  
g-index

73  
ext. papers

2,599  
ext. citations

4.1  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
72	Contribution of microbial amino acids to amino acid homeostasis of the host. <i>Journal of Nutrition</i> , <b>2000</b> , 130, 1857S-64S	4.1	234
71	Nutritional programming of gastrointestinal tract development. Is the pig a good model for man?. <i>Nutrition Research Reviews</i> , <b>2010</b> , 23, 4-22	7	199
70	Gas chromatography/combustion/isotope ratio mass spectrometric comparison of N-acetyl- and N-pivaloyl amino acid esters to measure <sup>15</sup> 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> , <b>2004</b> , 39, 247-74	2.2	128
69	Choice of dietary protein of vegetarians and omnivores is reflected in their hair protein <sup>13</sup> C and <sup>15</sup> N abundance. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 1392-400	2.2	119
68	Inulin alters the intestinal microbiota and short-chain fatty acid concentrations in growing pigs regardless of their basal diet. <i>Journal of Nutrition</i> , <b>2006</b> , 136, 1198-202	4.1	104
67	Prenatal high protein exposure decreases energy expenditure and increases adiposity in young rats. <i>Journal of Nutrition</i> , <b>2002</b> , 132, 142-4	4.1	89
66	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> , <b>1999</b> , 70, 1046-58	7	81
65	Kinetics of L-[1-( <sup>13</sup> C)]leucine when ingested with free amino acids, unlabeled or intrinsically labeled casein. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2000</b> , 278, E1000-9	6	77
64	Measurement of <sup>15</sup> N/ <sup>14</sup> 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> , <b>1997</b> , 247, 158-64	3.1	76
63	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> , <b>2001</b> , 131, 1965-72	4.1	69
62	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> , <b>2012</b> , 51, 151-65	5.2	68
61	Involvement of skeletal muscle protein, glycogen, and fat metabolism in the adaptation on early lactation of dairy cows. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 4252-62	5.6	58
60	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> , <b>2012</b> , 7, 239-52	5.7	54
59	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> , <b>2007</b> , 61, 452-68	2.7	48
58	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> , <b>2009</b> , 37, 88-98	3.6	45
57	Intestinal glucose absorption but not endogenous glucose production differs between colostrum- and formula-fed neonatal calves. <i>Journal of Nutrition</i> , <b>2011</b> , 141, 48-55	4.1	42
56	<sup>13</sup> C gas chromatography-combustion isotope ratio mass spectrometry analysis of N-pivaloyl amino acid esters of tissue and plasma samples. <i>Analytical Biochemistry</i> , <b>2000</b> , 278, 156-64	3.1	41

55	Low and high dietary protein:carbohydrate ratios during pregnancy affect materno-fetal glucose metabolism in pigs. <i>Journal of Nutrition</i> , <b>2014</b> , 144, 155-63	4.1	39
54	Availability of intestinal microbial lysine for whole body lysine homeostasis in human subjects. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1999</b> , 277, E597-607	6	38
53	Early nutrition and later obesity: animal models provide insights into mechanisms. <i>Advances in Experimental Medicine and Biology</i> , <b>2009</b> , 646, 105-12	3.6	38
52	Effect of a high-protein diet on food intake and liver metabolism during pregnancy, lactation and after weaning in mice. <i>Proteomics</i> , <b>2010</b> , 10, 2573-88	4.8	37
51	Supplementation of conjugated linoleic acid in dairy cows reduces endogenous glucose production during early lactation. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 2258-2270	4	33
50	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> , <b>2007</b> , 61, 235-46	2.7	32
49	Proteomics analysis of hypothalamic response to energy restriction in dairy cows. <i>Proteomics</i> , <b>2007</b> , 7, 3602-17	4.8	32
48	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> , <b>2013</b> , 24, 484-95	6.3	31
47	Intrauterine growth retarded progeny of pregnant sows fed high protein:low carbohydrate diet is related to metabolic energy deficit. <i>PLoS ONE</i> , <b>2012</b> , 7, e31390	3.7	31
46	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> , <b>2014</b> , 53, 583-97	5.2	28
45	High and low protein: carbohydrate dietary ratios during gestation alter maternal-fetal cortisol regulation in pigs. <i>PLoS ONE</i> , <b>2012</b> , 7, e52748	3.7	28
44	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> , <b>2006</b> , 9, 37-41	3.8	24
43	Effects of inadequate maternal dietary protein:carbohydrate ratios during pregnancy on offspring immunity in pigs. <i>BMC Veterinary Research</i> , <b>2012</b> , 8, 232	2.7	23
42	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> , <b>2012</b> , 107, 791-9	3.6	22
41	Effects of rutin and buckwheat seeds on energy metabolism and methane production in dairy cows. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 2161-2168	4	20
40	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> , <b>2000</b> , 278, E868-76	6	20
39	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> , <b>2002</b> , 76, 1317-25	7	18
38	A high protein diet during pregnancy affects hepatic gene expression of energy sensing pathways along ontogenesis in a porcine model. <i>PLoS ONE</i> , <b>2011</b> , 6, e21691	3.7	17

37	Systemic Absorption of Catechins after Intraruminal or Intraduodenal Application of a Green Tea Extract in Cows. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159428	3.7	17
36	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> , <b>2012</b> , 13, 93	4.5	16
35	High-protein-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> , <b>2012</b> , 108, 2176-89	3.6	16
34	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> , <b>2003</b> , 38, 1133-42	1.6	16
33	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> , <b>2015</b> , 98, 4509-20	4	15
32	Utilization of essential amino acids synthesized in the intestinal microbiota of monogastric mammals. <i>British Journal of Nutrition</i> , <b>2005</b> , 94, 621-2	3.6	14
31	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> , <b>1994</b> , 23, 295-301		14
30	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> , <b>2013</b> , 8, e76705	3.7	13
29	Resistance and tolerance to mixed nematode infections in relation to performance level in laying hens. <i>Veterinary Parasitology</i> , <b>2019</b> , 275, 108925	2.8	12
28	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> , <b>2011</b> , 50, 611-23	5.2	12
27	Proteome and radioimmunoassay analyses of pituitary hormones and proteins in response to feed restriction of dairy cows. <i>Proteomics</i> , <b>2010</b> , 10, 4491-500	4.8	11
26	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> , <b>2013</b> , 57, 277-90	5.9	10
25	Stable production of cyanophycinase in <i>Nicotiana benthamiana</i> and its functionality to hydrolyse cyanophycin in the murine intestine. <i>Plant Biotechnology Journal</i> , <b>2017</b> , 15, 605-613	11.6	7
24	Co-expulsion of <i>Ascaridia galli</i> and <i>Heterakis gallinarum</i> by chickens. <i>International Journal for Parasitology</i> , <b>2018</b> , 48, 1003-1016	4.3	7
23	Effects of Oral Glutamine Supplementation on Early Postnatal Muscle Morphology in Low and Normal Birth Weight Piglets. <i>Animals</i> , <b>2020</b> , 10,	3.1	6
22	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> , <b>2013</b> , 52, 1201-13	5.2	6
21	Classical and post-genomic methods to study GIT function with emphasis on the pig. <i>Livestock Science</i> , <b>2010</b> , 133, 10-19	1.7	6
20	Resistance and tolerance to mixed nematode infections in chicken genotypes with extremely different growth rates. <i>International Journal for Parasitology</i> , <b>2019</b> , 49, 579-591	4.3	5

19	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> , <b>2016</b> , 55, 917-30	5.2	5
18	Milk fatty acids estimated by mid-infrared spectroscopy and milk yield can predict methane emissions in dairy cows. <i>Agronomy for Sustainable Development</i> , <b>2018</b> , 38, 1	6.8	5
17	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> , <b>2019</b> , 102, 1788-1802	4	5
16	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> , <b>2016</b> , 29, 41-55	6.3	4
15	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> , <b>2012</b> , 7, e39711	3.7	4
14	Low-abundance plasma and urinary [(15)N]urea enrichments analyzed by gas chromatography/combustion/isotope ratio mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2002</b> , 37, 489-94	2.2	4
13	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> , <b>2019</b> , 149, 432-440	4.1	3
12	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> , <b>2018</b> , 245, 126-135	3	3
11	Breath water-based doubly labelled water method for the noninvasive determination of CO production and energy expenditure in mice. <i>Isotopes in Environmental and Health Studies</i> , <b>2018</b> , 54, 561-572	1.5	3
10	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> , <b>2022</b> , 13, 31	6	3
9	Kinetics of Physiological and Behavioural Responses in Endotoxemic Pigs with or without Dexamethasone Treatment. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	2
8	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> , <b>2020</b> , 150, 722-729	4.1	2
7	Transcript profile of skeletal muscle lipid metabolism genes affected by diet in a piglet model of low birth weight. <i>PLoS ONE</i> , <b>2019</b> , 14, e0224484	3.7	1
6	Glutamine supplementation moderately affects growth, plasma metabolite and free amino acid patterns in neonatal low birthweight piglets.. <i>British Journal of Nutrition</i> , <b>2022</b> , 1-32	3.6	1
5	Glutamine supplementation stimulates cell proliferation in skeletal muscle and cultivated myogenic cells of low birth weight piglets. <i>Scientific Reports</i> , <b>2021</b> , 11, 13432	4.9	1
4	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> , <b>2021</b> , 8, 633898	3.1	1
3	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> , <b>2021</b> , 11,	3.1	1
2	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> , <b>2021</b> , 13,	6.7	1

1 Effects of oral glutamine supplementation on jejunal morphology, development, and amino acid profiles in male low birth weight suckling piglets.. *PLoS ONE*, **2022**, 17, e0267357

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