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Preliminary Conference Program

**73rd Conference
of the
Society of Nutrition Physiology**

13th – 15th March 2019 in Göttingen

Gesellschaft für Ernährungsphysiologie (GfE) e.V.
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Lecture Hall 008

Wednesday, 13th March 2019

13:00 – 13:30 Uhr	Opening and welcome Prof. Dr. Wilhelm Windisch, Chairman of the Society of Nutrition Physiology <i>Prof. Dr. Elke Pawelzik, Dean of Faculty of Agricultural Sciences, Georg-August-Universität Göttingen (on request)</i>
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Section 1

Minerals

13:30 h	Oral presentations
141 1	Excretion of inositol phosphates in dairy cows fed soybean meal or rapeseed meal-based diets <i>Haese E., Gänger K., *Rodehutscord M. – Stuttgart-Hohenheim</i>
127 2	The addition of phosphorus and calcium alters the caeca microbial diversity and functionality of broiler chickens <i>Borda-Molina D., Chaves-Moreno D., Rodehutscord M., Camarinha-Silva A. – Stuttgart-Hohenheim / Braunschweig</i>
36 3	Effects of lactic acid treatment of cereals and dietary phytase on calcium and phosphorus balance and serum parameters in growing pigs <i>*Vötterl J. C., Klinsoda J., Zebeli Q., Hennig-Pauka I., Metzler-Zebeli B. - Vienna / Bakum</i>
96 4	Growth performance and copper status of weaned piglets fed two copper sources <i>*Romeo A., Durosoy S., van Baal J., Bikker P. - Sillingy / Wageningen</i>
34 5	The effects of high dosages of zinc on porcine T-cells <i>*Kreuzer-Redmer S., Arends D., Schulte J. N., Karweina D., Pieper R., Brockmann G. A. - Vienna / Berlin</i>
14:45 h	Poster
115 6	Alteration of Ca transporting structures in small intestine and egg shell gland of phylogenetically divergent chicken lines after dietary calcium depletion <i>Bues M., Jansen S., Habig C., Weigend A., Halle I., Breves G., Weigend S., *Wilkins M. R. - Hanover / Neustadt am Rübenberge / Braunschweig</i>
139 7	In situ ruminal degradation of phytate from single and compound feeds for dairy cows <i>Haese E., Feyder A., Grubješić G., *Rodehutscord M. – Stuttgart-Hohenheim</i>
86 8	Differential expression of genes associated with Mg²⁺homeostasis in dairy cows with high and low back fat mobilization <i>*Jurek S., Aschenbach J. R., Martens H., Sponder G. - Berlin</i>
60 9	Effects of different dietary concentrations of copper sulfate and copper glycinate without or with formic acid on performance and copper metabolism in piglets <i>Zentek J., Pelletier W., Ader P., Männer K. - Berlin / Lampertheim</i>
68 10	Copper deficiency in fallow deers (<i>Dama dama</i>) from farms in Lower Saxony? <i>Rieger H., Kölln M., Wahl D., Kamphues J. - Hanover / Nienburg</i>
95 11	Lameness in fattening turkeys due to mineral deficiencies in a complete compound feed – a case report <i>*Kölln M., Rieger H., Engels A., Kamphues J. - Hanover / Bönen</i>
28 12	Influence of feed fermentation on phytate content and phosphorus digestibility in fattening pigs fed a liquid diet based on rye and rapeseed extracted meal <i>*Bunte S., Grone R., Schollenberger M., Rodehutscord M., Rimbach M., Kamphues J. - Hanover / Stuttgart / Wahlstedt</i>
15:06 h	Poster session Section 1 (6-12)
15:30 h	Coffee break

Agenda

Lecture Hall 009

Wednesday, 13th March 2019

Section 2

Other Topics

13:30 h	Oral presentations
62 13	What is the impact of organic acids, zinc and copper on the transfer of ESBL-carrying plasmids from an Escherichia coli host to a Salmonella recipient? <i>*Saliu E. - M., Vahjen W., Zentek J. - Berlin</i>
8 14	AMP-activated protein kinase as mediator of short-term adaptation to hypoxia in lagomorph jejunum epithelium <i>*Dengler F., Rackwitz R., Pfannkuche H., Gäbel G. - Leipzig</i>
44 15	Use of milk recording data for characterisation of dairy cow supply situation <i>*Glatz-Hoppe J., Losand B. - Dummerstorf</i>
31 16	Can chewing behavior improve estimation of dry matter intake of individual dairy cows? <i>*Selje-Aßmann N., Lawrence P., Dickhoefer U. – Stuttgart-Hohenheim</i>
108 17	Acceptance of elevated plains and their effects on litter quality, performance, and broiler behavior <i>*Schuchmann F. F., Sürle C., Grafe J., Visscher C., Kamphues J. - Hanover / Ruthe / Vechta</i>
14:45 h	Poster
99 18	Identifying influences on the biological quality of drinking water for dairy cows <i>Hayer J. J., Schulz Dieckhoff B. G., Heinemann C., *Steinhoff-Wagner J. - Bonn</i>
63 19	Serum methylmalonic acid concentrations in dairy cows with retained placenta, parturient paresis and healthy controls ante and post partum <i>*Grützner N., Stangl G., Köller G., Hirche F., Füll M. - Halle (Saale) / Leipzig</i>
40 20	Assessment of muscle mass in fattening bulls by means of body size measurements, bioelectrical impedance analysis and ultrasound measurements <i>*von Soosten D., Meyer U., Rehage J., Dänicke S. - Braunschweig / Hanover</i>
53 21	Time-dependent effect of intestinal microbial colonization patterns on concomitant immune development in neonatal piglets <i>*Martínez-Vallespín B., Schlosser J., Ebner F., Zentek J., Hartmann S., Pieper R. - Berlin</i>
79 22	Analyzing the effects of quercetin on porcine intestinal jejunum and follicle-associated epithelium of Peyer's patches <i>*Cornelius V., Radloff J., Radloff J., Amasheh S. - Berlin</i>
97 23	Effects of body weight gain on selected serum vitamin levels in ponies and horses <i>*Schedlbauer C., Raila J., Blaue D., Starzonek J., Vervuert I. - Leipzig / Nuthetal</i>
15:03 h	Poster session Section 2 (18-23)
15:30 h	Coffee break

Lecture Hall 008

Wednesday, 13th March 2019

Section 3

Energy

16:00 h	Oral presentations
37 24	Recovery of milk somatic cell count and performance after an intramammary LPS challenge is dependent on the metabolic status of dairy cows <i>*Gross J. J., Grossen-Rösti L., Wall S. K., Wellnitz O., Bruckmaier R. M. - Bern</i>
38 25	Metabolic status and performance at the onset of lactation in dairy cows are associated with circulating serotonin <i>Kessler E. C., Wall S. K., Hernandez L. L., Bruckmaier R. M., *Gross J. J. - Bern / Madison</i>
43 26	Impact of breed, sex and body mass on feed intake and energy expenditure for growth of young cattle – a meta-analysis of German and Austrian experiments <i>*Gruber L., Ettle T., Schwarz F., Fischer B., Pries M., Jilg T., Koch C., Meyer U., Kunz H. - J., Susenbeth A., Royer M. - Irdning / Poing-Grub / Freising-Weihenstephan / Iden / Bad Sassendorf / Aulendorf / Münchweiler an der Alsenz / Braunschweig / Kiel / Irdning</i>
80 27	Effect of dietary L-carnitine in dairy cows on performance and high-resolution measurement of clinical parameters after calving <i>*Meyer J., Daniels S., Frahm J., Klüß J., Kersten S., Meyer U., Rehage J., Dänicke S. - Braunschweig / Hanover</i>
82 28	Effect of dietary L-Carnitine in dairy cows on haematological profiles with special emphasis on parturition <i>*Daniels S., Meyer J., Kersten S., Frahm J., Klüß J., Huber K., Dänicke S. - Braunschweig / Stuttgart-Hohenheim</i>
17:15 h	Poster
77 29	The influence of short chain fatty acids and β-hydroxybutyrate on the gene expression of gluconeogenic enzymes in a bovine liver cell line <i>*Sittel A. - M., Fuhrmann H., Schoeniger A. - Leipzig</i>
18 30	Influence of dietary energy concentration on feed intake and growth performance of fattening Fleckvieh and Braunvieh bulls <i>*Ettle T., Obermaier A., Spiekers H. - Poing/Grub</i>
132 31	Metabolizable energy content of functional groups in permanent grassland after 50 years field experiment with different levels of N fertilization <i>*Wahyuni R. D., Pötsch E. M., Gierus M. - Vienna / Irdning</i>
17:24 h	End of 1st day
18:00 h	Awards of the H. Wilhelm Schaumann Foundation at Old Assembly Hall of the University Wilhelmsplatz followed by dinner

Agenda

Lecture Hall 009

Wednesday, 13th March 2019

Section 4

Environmental Effects

16:00 h	Oral presentations
16 32	Time from receipt of a tanniferous extract required to significantly mitigate methane emission from dairy cows <i>*Denninger T., Schwarm A., Dohme-Meier F., Münger A., Eggerschwiler L., Clauss M., Kreuzer M. - Zurich / Ås / Posieux</i>
35 33	Effect of feeding fresh whey on feed intake and ruminal methane emission of grazing beef cattle <i>Dufey P. - A., Oberson J. - L., Martin C., Silacci P., Hess H. D., *Dohme-Meier F. - Posieux / Saint-Genès-Champanelle</i>
15 34	Relationship between feed intake, efficiency, methane emission, metabolism, lymphocyte activation and lymphocyte proliferation during transition in high-yielding dairy cows <i>*Meese S., Ulbrich S. E., Bruckmaier R., Wellnitz O., Bollwein H., Kreuzer M., Röntgen M., Gimsa U., Schwarm A. - Zurich / Bern / Dummerstorf / Ås</i>
16:45 h	Poster
116 35	Animal and environmental factors influencing the β-hydroxybutyrate (BHB)-level in the blood of early lactating dairy cows in commercial farms <i>*Jansen H. M., Zschiesche M., Albers D., Hummel J. - Göttingen / Oldenburg</i>
47 36	Effect of plane of milk replacer feeding on feed intake and methane production from female Holstein dairy calves <i>Tümmler L. - M., Derno M., *Kuhla B. - Dummerstorf</i>
75 37	Influence of a vegetal carbon supplementation on methane emissions of dairy cows in late lactation <i>*Schäfers S., von Soosten D., Meyer U., Dänicke S. - Braunschweig</i>
22 38	Effects of <i>Scrophularia striata</i> extract on <i>in vitro</i> nutrient degradation and CH₄ formation when added to a diet containing a low-quality fibre source <i>*Klevenhusen F., Sarnataro C., Spanghero M., Zebeli Q. - Berlin / Vienna / Udine</i>
4 39	Effects of a mixed-nematode infection on vitamin A and E and carotenoids in plasma, liver and egg-yolks in laying hens <i>Das G., Karadas F., Karagecili M. R., Stehr M., Grashorn M., Metges C. C. - Dummerstorf / Van / Stuttgart</i>
17:00 h	Poster session Section 4 (35-39)
17:30 h	End of 1st day
18:00 h	Awards of the H. Wilhelm Schaumann Foundation at Old Assembly Hall of the University at Wilhelmsplatz

Lecture Hall 008

Thursday, 14th March 2019

09:00 – 10:00 h	Invited Review: Metabolic imprinting by pre- and early postnatal nutrition in farm animals <i>Prof. Dr. Korinna Huber – University of Hohenheim, Faculty of Agricultural Sciences, Institute of Animal Science, Stuttgart</i>
10:00 h	Coffee break

Section 5

Feeding concepts

10:30 h	Oral presentations
54 40	Effects of feeding chopped hay and grass-clover silage on feed intake, apparent total tract digestibility, and performance of organic dairy cows <i>*Haselmann A., Zehetgruber K., Knaus W., Zebeli Q. - Vienna</i>
76 41	Effects of concentrate proportion of the ration on rumen fermentation, rumination activity and the risk of a subacute ruminal acidosis in early lactating dairy cows <i>*Bünemann K., von Soosten D., Meyer U., Dänicke S., Zeyner A. - Braunschweig / Halle</i>
81 42	Effect of varying trypsin inhibitor activity in differently processed soybean cakes on praecaecal amino acid digestibility in broilers <i>*Kuenz S., Thurner S., Hoffmann D., Kraft K., Wiltafsky M., Damme K., Windisch W., Brugger D. - Freising / Kitzingen / Hanau-Wolfgang</i>
143 43	Effects of type of concentrate and timing of supplementation on feed intake, milk performance, and nitrogen use in cows grazing an alfalfa-rye grass sward <i>*Sainz-Sanchez P. A., Rojas G., Castro-Montoya J. M., Gómez C. A., Dickhoefer U. - Stuttgart-Hohenheim / Lima</i>
11:30 h	Poster
69 44	Effect of roughage energy and concentrate level on characteristics of feed / energy intake and milk yield by Holstein and Simmental dairy cows <i>*Becker V. A. E., Junge W., Stamer E., Thaller G. - Kiel / Brux</i>
112 45	Effects of continuous or pulsed-feeding application of a multi-strain probiotic on body weight gain in whiteleg shrimp (<i>Litopenaeus vannamei</i>) <i>*Kesselring J., Standen B., Sendao J., Gruber C., Wein S. - Getzersdorf</i>
30 46	Gastric health in fattening pigs fed fermented liquid diets – findings on diets and at slaughterhouses <i>*Bunte S., Grone R., Pecher H. - P., Kamphues J. - Hanover / Pinneberg</i>
58 47	Effects of feeding chopped hay and grass-clover-silage on feed selection behavior and chewing activity in organic dairy cows <i>*Haselmann A., Zehetgruber K., Knaus W., Zebeli Q. - Vienna</i>
122 48	Effect of an energy- and nutrient-reduced diet containing 10% lignocellulose on the development of gastrointestinal organs, intestinal histomorphology and intestinal metabolites in dual purpose laying hens <i>*Röhe I., Zentek J. - Berlin</i>
93 49	Preliminary test in piglets offered a compound feed containing humic acid-rich peat on performance, fermentation characteristics and composition of the microbiome in the digesta <i>*Visscher C., Hankel J., Nies A., Keller B., Galvez E., Strowig T., Breves G. - Hanover / Braunschweig</i>
100 50	Effects of marginal differences in dietary physically effective fiber concentration on feed intake and feeding behavior in lactating dairy cows <i>*Heering R., *Heering R., Selje-Aßmann N., Dickhoefer U. - Stuttgart</i>
29 51	Survival rate of <i>Salmonella Typhimurium</i> in a liquid diet for pigs simulating the 'controlled' fermentation <i>*Bunte S., Grone R., Keller B., Rimbach M., Kamphues J. - Hanover / Wahlstedt</i>
11:57 h	Poster session Sections 3 (29-31) and 5 (44-51)
12:30 h	Lunch

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Lecture Hall 009

Thursday, 14th March 2019

Section 6 Intermediary metabolism

10:30 h	Oral presentations
17 52	Growth, milk intake, and plasma metabolites and free amino acid concentrations in low and normal birth weight piglets in the late neonatal period <i>*Sciascia Q. L., Li Z., Goers S., Nguyen N., Tuchscherer A., Metges C. - Dummerstorf</i>
19 53	Body weight gaining - Impact on metabolic health in ponies and horses <i>*Blaue D., Schedlbauer C., Starzonek J., Gittel C., Brehm W., Einspanier A., Vervuert I. - Leipzig</i>
24 54	Effects of equine obesity on liver metabolism <i>*Schedlbauer C., Blaue D., Starzonek J., Blüher M., Gittel C., Brehm W., Gericke M., Vervuert I. - Leipzig</i>
11:15 h	Poster
84 55	Impact of inulin/oligofructose supplementation to a high-protein or control diet on body weight gain and intermediary metabolism in mice <i>*Koch F., Derno M., Langhammer M., Tuchscherer A., Hammon H. M., Mielenz M., Metges C. C., Kuhla B. - Dummerstorf</i>
45 56	Increase in hypothalamic microglia activation during early lactation of dairy cows <i>*Kuhla B., Kuhla A., Dannenberger D. - Dummerstorf / Rostock</i>
125 57	The effect of feeding rumen-protected niacin during the transition from late pregnancy to early lactation on hepatic transcriptome of early-lactation dairy cows <i>*Ringseis R., Zeitz J., Weber A., Koch C., Eder K. - Giessen / Münchweiler an der Alsenz</i>
49 58	Influence of quercetin on DNA methylation pattern in growing pigs <i>*Burdeos G., Blank R., Wolfram S. - Kiel</i>

Section 7 Nutrition and Inflammation

11:27 h	Oral presentations
39 59	Effects of an oral supplementation of green tea and curcuma extract on lipopolysaccharide-induced inflammation in horses and ponies <i>*Starzonek J., Roscher K., Blüher M., Blaue D., Schedlbauer C., Vervuert I. - Leipzig / Giessen</i>
140 60	Oxidative status and serum concentrations of the acute phase protein haptoglobin in piglets fed either conventional soy bean meal (SBM) or enzymatically treated SBM <i>*Bayer S., Schuh K., Schuh K., Heitkönig B., von Heimendahl E., Brøkner C., Dusel G., Sauerwein H. - Bingen am Rhein / Bonn / Horsens</i>
20 61	Adipose tissue – do inflammation parameters change within progressive body weight gain in ponies and horses? <i>*Blaue D., Schedlbauer C., Starzonek J., Blüher M., Gittel C., Brehm W., Vervuert I. - Leipzig</i>
120 62	Correlation of gene expression of fibroblast growth factor 21 in the liver of dairy cows in the transition period with genes of stress signaling pathways, inflammation, β-oxidation, and lipogenesis <i>*Geßner D. K., Hof L. M., Koch C., Eder K. - Giessen / Münchweiler an der Alsenz</i>
12:27 h	Poster
106 63	Changes in NO production of HD11 chicken macrophages <i>in vitro</i> incubated with Masson Pine pollen (<i>Pinus massoniana</i>) or LPS in the presence and without polymyxin B <i>*Brugger D., Schusser B., Wilhelm B., Shi L., Zhao L., Windisch W. - Freising / Yantai</i>
98 64	Analysis of the inflammasome signaling pathway in a porcine intestinal co-culture model exposed to probiotic <i>E. faecium</i> and enterotoxigenic <i>E. coli</i> <i>*Loss H., Aschenbach J. R., Tedin K., Lodemann U. - Berlin</i>
12:30 Uhr	Lunch

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Section 8

Nitrogen and Amino acids

13:30 h	Oral presentations
65 65	Changes in the microbiome of caecal content and excreta in broilers induced by a reduced dietary protein content <i>*Keller B., Klingenberg L., Galvez E., Strowig T., Hankel J., Helmbrecht A., Keller C., Visscher C. - Hanover / Braunschweig / Hanau</i>
128 66	Effects of supplementation of methionine on growth performance and antioxidant status of broilers under condition of heat stress <i>*Eder K., Fleischmann A., Ehrbrecht T., Most E., Maha C., Whelan R., Zeitz J. O., Eder K. - Giessen / Hanau-Wolfgang</i>
136 67	Intensively expander processed corn in broiler diets: impact on apparent ileal amino acid digestibility at different stages of fattening <i>*Puntigam R., Brugger D., Eipper J., Hechenberger P., Schedle K., Schwarz C., Gierus M. - Vienna / Freising</i>
26 68	Protein intake of broiler chickens in choice experiments after experimental infection with <i>Campylobacter jejuni</i> <i>*Hankel J., Klingenberg L., Helmbrecht A., Visscher C. - Hanover / Hanau</i>
72 69	Application of an <i>in vitro</i> multi-enzyme assay to estimate the precaecal digestibility of crude protein and amino acids in broiler chicken <i>*Witten S., Ritteser C., Grashorn M. A., Aulrich K. - Westerau / Stuttgart</i>
14:45 h	Poster
2 70	Investigations on the optimal arginine supply for performance and carcass parameters in turkeys <i>*Siebert D., Khan D. R., Tischler A., Tossenberger J. - Schwalbach am Taunus / Kaposvár</i>
113 71	Free amino acid pattern in serum of fattening turkeys suffering from hepatic lipidosis <i>*Middendorf L., Radko D., Düngelhoef K., Sieverding E., Windhaus H., Mischok D., Visscher C. - Hanover / Bad Homburg / Hamminkeln / Lohne / Vechta</i>
110 72	Effects of leucine supplementation on growth performance and biochemical pathways of protein synthesis and protein degradation in muscle and liver of broilers <i>*Geßner D. K., Zeitz J. O., Käding S., Soto-Gonzales A., Niewalda I., Most E., Dorigam J. C. P., Eder K. - Giessen / Hanau</i>
142 73	Precaecal amino acid digestibility and InsP₆ disappearance in broiler diets containing different oilseed meals as influenced by phytase supplementation <i>Krieg J., Siegert W., Berghaus D., Bock J., Feuerstein D., *Rodehutsord M. – Stuttgart-Hohenheim / Lampertheim</i>
104 74	Effects of hydrolysing the protein sources (wheat gluten/rice protein) on apparent digestibility of nutrients in dogs <i>*Ingenpaß L., Kölln M., Mandel S., Kamphues J. - Hanover / Kevelaer</i>
61 75	Postprandial amino acid absorption in pigs fed soybean meal or enzyme treated soybean meal <i>*Brøkner C., Nørgaard J. V. - Horsens / Tjele</i>
14 76	Effect of increasing condensed tannin intake on fecal and urinary nitrogen excretion in growing finisher pigs <i>Seoni E., Battacone G., Dohme-Meier F., *Bee G. - Posieux / Sassari</i>
66 77	The total tract digestibility of two protein meals (processed poultry meal vs. insect meal from <i>Hermetia illucens</i>) in dogs <i>*Meyer L. F., Kölln M., Kamphues J. - Hanover</i>
130 78	Porcine intestinal cells IPEC-J2 tolerate the absence or elevated levels of L-glutamine and certain environmental stressors <i>*Grzeskowiak L., Kehl M., Vahjen W., Zentek J. - Berlin</i>
15:12 h	Poster session Section 8 (70-78)
15:35 h	Coffee break

Agenda

Lecture Hall 009

Thursday, 14th March 2019

Section 9

Feedstuff Evaluation

13:30 h	Oral presentations
33 79	Postprandial kinetic of free plasma lysine in dependence of soluble and insoluble protein fractions of feedstuffs for horses <i>*Bockisch F., Taubert J., Adolph S., Coenen M., Vervuert I. - Leipzig</i>
67 80	Do fruit and vegetable pomaces in varying concentrations affect the <i>in vitro</i> ruminal fermentation, methane production and nutrient degradability? <i>*Giller K., Bossut L., Eggerschwiler L., Kreuzer M., Terranova M. - Zurich / Nantes / Posieux</i>
105 81	Effect of finely-graded differences in dietary trypsin inhibitor activity on zootechnical performance and pancreas development of broilers <i>*Hoffmann D., Thurner S., Ankerst D., Damme K., Windisch W., Brugger D. - Freising / Kitzingen / Freising</i>
114 82	Feeding two separate meals of crushed or pelleted oat grains from different varieties and the effect on postprandial blood concentrations of amylase, glucose, GLP-1 and insulin in adult healthy horses <i>*Bochnia M., Czetoje A., Glatter M., Schuerer C., Bachmann M., Gottschalk J., Einspanier A., Koeller G., Wensch-Dorendorf M., Zeyner A. - Halle (Saale) / Leipzig</i>
135 83	Using soluble and insoluble dietary fibre in piglet nutrition – Effect of soybean hulls and lignocellulose on performance and physiology <i>*Slama J., Pekar D., Schwarz C., Schedle K., Gierus M. - Vienna</i>
14:45 h	Poster
57 84	Feed processing effects on energy digestibility and performance of broilers <i>*Ebbing M. A., Naranjo V. D., Sitzmann W., Gierus M. - Vienna / Hanau / Reinbek</i>
12 85	Are there differences in starch gelatinisation between differently processed laboratory rodent maintenance feedstuffs marketed as identical? <i>*Böswald L. F., Kienzle E. - Munich</i>
46 86	Effect of lactic acid treatment of cereals and dietary phytase on fecal microbiome and shedding of virulence factors in growing pigs <i>*Klinsoda J., Vötterl J., Zebeli Q., Metzler-Zebeli B. - Vienna</i>
51 87	Crushing or pelleting of oat grains from different varieties and the effect on the morphology of starch granules and chewing parameters in horses fed twice per day <i>*Bochnia M., Czetoje A., Schuerer C., Zeyner A. - Halle (Saale)</i>
129 88	Variation of the hygienic status of hay due to soaking and steaming as well as subsequent storage at different temperatures <i>*Glatter M., Bochnia M., Wensch-Dorendorf M., Greef J. M., Zeyner A. - Halle (Saale) / Braunschweig</i>
103 89	Effect of different pre-ensiling treatments on <i>in vitro</i> ruminal fibre degradation of lucerne silages <i>*Hartinger T., Gresner N., Südekum K. - H. - Bonn</i>
119 90	Effects of toasting temperature and time on ruminal gas production kinetics and post-ruminal crude protein from field pea (<i>Pisum sativum</i>) grain silages measured <i>in vitro</i> <i>*Bachmann M., Kuhnitzsch C., Thierbach A., Michel S., Bochnia M., Greef J. M., Martens S., Steinhöfel O., Zeyner A. - Halle (Saale) / Köllitsch / Braunschweig</i>
27 91	Testing effects of grinding, soaking and fermentation of different cereals on the 'structure' of the diet and stomach health in pigs <i>*Grone R., Bunte S., Kölln M., von Felde A., Becker B., Kamphues J. - Hanover / Bergen / Schweringen</i>
124 92	Variability of the equine intestinal microbiota after feeding of Jerusalem Artichoke meal <i>*Glatter M., Borewicz K., van den Bogert B., Wensch-Dorendorf M., Bochnia M., Greef J. M., Bachmann M., Breves G., Smidt H., Zeyner A. - Halle (Saale) / Wageningen / Braunschweig / Hanover</i>
15:12 h	Poster session Sections 6 (55-58), 7 (63, 64), 9 (84-92)
15:50 h	Coffee break

Lecture Hall 008

Thursday, 14th March 2019

Section 10

Rumen Conversions

16:00 h	Oral presentations
94 93	Effect of rumen nitrogen balance and dietary protein source on intake, milk yield, nitrogen excretion, and behavior of dairy cows <i>*Kand D., Dickhoefer U. - Stuttgart-Hohenheim</i>
123 94	Differences in the <i>in vitro</i> rumen fermentation of tropical legumes and grasses and temperate legumes, and their neutral detergent fraction <i>*Castro-Montoya J., Goetz K., Dickhoefer U. – Stuttgart-Hohenheim</i>
13 95	Heat stress and hyperosmolarity impact rumen bacteria and fermentation <i>in vitro</i> <i>*Petri R. M., Mahmood M., Klevenhusen F., Khiaosa-ard R., Zebeli Q. - Vienna / Berlin</i>
138 96	Comparison of <i>in situ</i> ruminal crude protein and starch degradation values of single feeds and compound feeds for dairy cows produced thereof <i>Grubješić G., Titze N., Krieg J., *Rodehutscord M. – Stuttgart-Hohenheim</i>
50 97	Effects of different concentrate levels and buffer compositions on the induction of a subacute acidosis by applying the Rumen Simulation Technique <i>*Maasjost T., Eger M., Breves G. - Hanover</i>
89 98	Fermentation characteristics of feeds with different carbohydrate composition incubated at low and high dilution rate in the RUSITEC <i>*Pfau F., Hünerberg M., Zhang X., Hummel J. - Göttingen</i>
17:30 h	Poster
48 99	Betaine as a rumen fermentation modulator during physiological, hyperthermal and hyperosmotic rumen conditions <i>in vitro</i> <i>*Khiaosa-ard R., *Khiaosa-ard R., Mahmood M., Klevenhusen F., Gavrău A., Zebeli Q. - Vienna / Berlin</i>
101 100	Effects of yeast supplementation on performance parameters and rumen fermentation profile in dairy cows <i>*Elcoso G., Ragués J., Müller I., Bach A. - Getzersdorf / Lleida / Barcelona / Caldes de Montbui</i>
52 101	<i>In vitro</i> disappearance of betaine by ruminal microbes under physiological, thermal-stressed and osmotic-stressed rumen conditions <i>*Mahmood M., Khiaosa-ard R., Klevenhusen F., Gavrău A., Zebeli Q. - Vienna / Berlin</i>
17:39 h	End of 2nd day
18:00 h	GfE General assembly (according to special invitation)

Agenda

Lecture Hall 009

Thursday, 14th March 2019

Section 11

Digestibility and Absorption

16:15 h	Oral presentations
21 102	Determinating the precaecal digestibility of alfalfa (<i>Medicago sativa</i>) and red clover (<i>Trifolium pratense</i>) products in the organic feeding of broilers <i>*Pleger L., Weindl P. N., Weindl P. A., Carrasco L. S., Bellof G. - Freising</i>
25 103	Fermented wheat bran in diets for laying hens: Effect on nutrient digestibility/retention and microbiota <i>*Wanzenböck E., Kneifel W., Domig K., Schedle K. - Vienna</i>
41 104	Effect of resistant starch type 4 on intestinal passage rate, nutrient flow, microbial metabolites and gut microbiome composition in pigs <i>*Metzler-Zebeli B., Newman M., Ladinig A., Kandler W., Zebeli Q. - Vienna / Tulln</i>
144 105	Digesta passage in nondomestic ruminants: separation mechanisms in 'moose-type' and 'cattle-type' ruminants, and seemingly atypical browser species <i>Przybyło M., Hummel J., Ortman S., Kohlschein G. - M., Schaub D., Smithyman J., Przybyło U., Świerk S., Hammer S., Hatt J. - M., Górka P., *Clauss M. - Zurich / Goettingen / Krakow / Goerlitz / Berlin</i>
71 106	Effects of abomasally infused starch and amylase on faecal excretion of microbial crude protein and short-chain fatty acids in heifers <i>*Robbers K., Westreicher-Kristen E., Troescher A., Susenbeth A. - Kiel / Lampertheim</i>
17:30 h	Poster
32 107	Impact of 'controlled fermentation' of rye based compound liquid diets on extract viscosity (diet / digesta) and its relevance regarding digestibility in pigs <i>*Grone R., Bunte S., Kamphues J. - Hanover</i>
102 108	Effects of substitution of wheat by rye in diets for young fattening pigs regarding digestibility and performance <i>*Wilke V., Grone R., Kamphues J. - Hanover</i>
121 109	Losses of fecal starch in production dairy herds <i>Hünerberg M., *Endres A. - C., Hummel J. - Goettingen</i>
117 110	Estimating segmental and total tract apparent digestibility of nutrients in horses using feed-internal and external markers <i>*Bachmann M., Glatter M., Bochnia M., Greef J. M., Breves G., Zeyner A. - Halle (Saale) / Braunschweig / Hanover</i>
17:42 h	End of 2nd day
18:00 h	GfE General assembly at Lecture Hall 008 (according to special invitation)

Lecture Hall 008

Friday, 15th March 2019

Section 12

Fat

09:00 h	Oral presentations
5 111	Effect of conjugated linoleic acid and α-linolenic acid on the somatotropic axis of dairy cows fed a diet with reduced n-3 fatty acid content during late pregnancy and early lactation <i>Vogel L., Gnott M., Kröger-Koch C., Hoeflich A., Groß J. J., Bruckmaier R. M., Tröscher A., Starke A., *Hammon H. M. - Dummerstorf / Bern / Lampertheim / Leipzig</i>
7 112	Influence of the maternal supply with essential fatty acids and conjugated linoleic acid on the energy status of neonatal calves <i>Uken K. L., Vogel L., Gnott M., Görs S., Hoeflich A., Weitzel J. M., Tuchscherer A., Tröscher A., Bruckmaier R. M., Groß J. J., Sauerwein H., *Hammon H. M. - Dummerstorf / Lampertsheim / Bern / Bonn</i>
56 113	Studies with the BFH12 cell line as an <i>in vitro</i> model for bovine hepatic steatosis <i>*Reichelt K., Schoeniger A., Fuhrmann H. - Leipzig</i>
09:45 h	Poster
59 114	Effects of essential fatty acids and conjugated linoleic acid on fatty acid and oxidative status in plasma and hepatic acute phase response in dairy cows fed a diet with reduced n-3 fatty acid content from late pregnancy to early lactation <i>Gnott M., Vogel L., Kröger-Koch C., Dannenberger D., Starke A., Tröscher A., Bernabucci U., *Hammon H. M. - Dummerstorf / Leipzig / Lampertheim / Viterbo</i>
83 115	Effects of essential fatty acids supplementation on the mRNA abundance of the adiponectin system and the antibacterial peptide BSP30a in submandibular salivary glands of dairy cows fed a maize based ration <i>*Mielenz M., Kröger-Koch C., Vogel L., Gnott M., Tuchscherer A., Tröscher A., Hammon H. M., Dall'Aglio C. - Dummerstorf / Lampertheim / Perugia</i>
6 116	Effect of conjugated linoleic acid and α-linolenic acid on hepatic glucose metabolism of dairy cows fed a diet with reduced n-3 fatty acid content during late pregnancy and early lactation <i>Vogel L., Gnott M., Kröger-Koch C., Görs S., Tröscher A., Starke A., *Hammon H. M. - Dummerstorf / Lampertsheim / Leipzig</i>
09:54 h	Poster session Sections 10 (99-101) und 12 (114-116)
10:30 h	Coffee break

Agenda

Lecture Hall 009

Friday, 15th March 2019

Section 13

Undesirable substances

09:00 h	Oral presentations
126 117	Do glyphosate-based herbicides have different effects on <i>in vitro</i> rumen microbial metabolism and metaproteome compared to pure glyphosate? <i>*Riede S., Haange S., Rohn K., von Bergen M., Breves G. - Hanover / Leipzig</i>
42 118	Long-term dietary exposure to Fusarium-toxin contaminated and sodium sulphite treated feedstuff in pigs and its impact on physiological parameters and vaccination response <i>*Bahrenthien L., Kluess J., Berk A., Kersten S., Frahm J., Hüther L., Beer M., Wernike K., Harder T., Schatzmayr D., Zeyner A., Dänicke S. - Braunschweig / Greifswald-Insel Riems / Tulln / Halle</i>
74 119	Transfer of perfluoroalkyl acids (PFAAs) and their precursors from contaminated feed into eggs of laying hens <i>*Kowalczyk J., Göckener B., Eichhorn M., Bücking M. - Berlin / Schmallenberg</i>
88 120	Effects of glyphosate residues and different concentrate feed proportions in dairy cow rations on the ruminal microbial community <i>*Billenkamp F., Schnabel K., von Soosten D., Meyer U., Frahm J., Kersten S., Höper D., Beer M., Dänicke S. - Braunschweig / Greifswald - Insel Riems</i>
10.00 h	Poster
70 121	Excretion of non-dioxin like polychlorinated biphenyls (ndl-PCBs) in blood and milk of accidentally exposed dairy cattle and transfer to the calf <i>Schulz K., *Bloch D., Lüth A., Spolders M., Schafft H., Lahrssen-Wiederholt M. - Berlin</i>
92 122	Study on the transfer of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/Fs) into milk of high-yielding cows for the determination of dioxin half-lives in milk in consideration of cows' metabolic state <i>*Krause T., Kowalczyk J., Knappstein K., Lamp J., von Soosten D., Numata J., Lahrssen-Wiederholt M., Dänicke S., Susenbeth A., Molkentin J. - Berlin / Kiel / Braunschweig</i>
10:06 Uhr	Poster session Sections 11 (107-110) und 13 (121,122)
10:30 Uhr	Coffee break
11:00 Uhr	Workshop at Lecture Hall 008

Lecture Hall 008

Friday, 15th March 2019

Workshop

Vitamins for Ruminants

	Introductory papers and discussion
11:00 h	Vitamin D – Too soon to turn off the light G.I. Stangl - Halle
11:20 h	<i>Diskussion</i>
11:35 h	Vitamin D Supplementation & Vitamin D Metabolism– Unexpected Findings M.R. Wilkens - Hannover
11:55 h	<i>Diskussion</i>
12:10 h	The Role of Vitamins for Optimizing Performance and Health of Ruminants G.M. Weber - Basel (Switzerland)
12:30 h	<i>Diskussion</i>
12:45 h	Functional aspects of supplementing selected water-soluble vitamins in ruminants R. Ringseis - Giessen
13:05 h	<i>Diskussion</i>
13:20 h	Closing remarks
13:30 h	End

General Information

1. Venue

Central lecture building (ZHG), lecture halls 008 and 009, University of Göttingen, Platz der Göttinger Sieben 5 (Weender Straße – Kreuzbergring), Göttingen.

2. Oral presentations

All speakers are restricted to 10 minutes, followed by 5 minutes of discussion. For poster presentations all speakers are restricted to 3 minutes (at most 2 charts). Speakers are asked to present briefly setting, methods and results. Presentations and posters should be prepared in English – also, if the lecture is delivered in German language. Posters have to be fixed on the respective poster wall at the beginning of the conference. During the poster sessions, which are scheduled in the programme, the authors will be present at their posters.

3. Accomodation

For accomodation please contact:

Göttingen Tourismus e.V., Markt 9/Altes Rathaus, 37073 Göttingen, Tel.:+49 (0)551/4 99 80-20, zimmerreservierung@goettingen.de, <http://www.goettingen-tourismus.de/ueber-nacht/hotels-und-gasthaeuser.html> .

4. Registration

Please register not later than March 8th 2019 at: <http://www.gfe-frankfurt.de/jahrestagung.html> ; in short-term exceptional cases you may reach us at +49 (0)69/24788-322.

5. Conference fee

Non-members: **EUR 150,-** (discount for members of public authorities 50 %)

Members and their co-workers: **EUR 70,-**

Students: **EUR 25,-**

One-Day ticket: **EUR 100,-**

Please transfer the conference fee to bank account which will be posted at registration confirmation.

6. Meetings of the executive board

According to special invitation on March, 13th 2019.

7. Meeting of members

According to special invitation on March, 14th 2019, Lecture hall 008.

8. Conference office

Phone number: +49 (0)551/39 95 95