

Konferenzraum 1										Konferenzraum 2											
Uhrzeit	Dauer	Sektion	Sektions-Nr.	Vortrag-P	Fortl. Nr.	Abstract-ID	Abstract-Titel	Erstautor	Ort	Uhrzeit	Dauer	Sektion	Sektions-Nr.	Vortrag-P	Fortl. Nr.	Abstract-ID	Abstract-Titel	Erstautor	Ort		
Dienstag, 8. März 2022																					
13:00 00:10 Eröffnung und Begrüßung																					
13:00	00:10	Prof. Dr. Jörg Aschenbach, Vorsitzender der Gesellschaft für Ernährungsphysiologie e. V. Prof. Dr. Henner Simianer, Dekan der Fakultät für Agrarwissenschaften der Georg-August-Universität Göttingen (angefragt)										siehe Konferenzraum 1									
13:10	00:05											Dienstag, 8. März 2022									
13:10	00:05																				
13:15	00:15	Digestion and absorption	1	Oral	1	2	Individual differences in digesta retention and chewing behaviour in cattle: a pilot study	X. Zhang1, Y. Li2, M. Terranova3, S. Ortmann4, M. Kreuzer2, J. M. Peschel1, M. Buffler1, C. Bolduan1, W. Windisch1	1 University of Göttingen, Ruminant Nutrition, Göttingen, Germany	13:10	00:05	Environmental effects	2	Oral	8	119	Influence of European seaweeds on gas production, nutrient degradation and microbiome in the Rusitec	S. Künzel1, T. Yergalyev1, 2, A. Hanauka1, A. Rees1, K. Wild1, A. F. Koch1, C. Hansen2, T. Viergutz3, B. Kuhla1	1 University of Hohenheim, Institute of Animal Science, Stuttgart-Teck, Germany		
13:30	00:15	Digestion and absorption	1	Oral	2	33	Effect of a saliva stimulant on measures of intake and digestion in cattle	X. Zhang1, Y. Li2, M. Terranova3, S. Ortmann4, M. Kreuzer2, J. M. Peschel1, M. Buffler1, C. Bolduan1, W. Windisch1	1 University of Göttingen, Ruminant Nutrition, Lower Saxony, Germany	13:30	00:15	Environmental effects	2	Oral	9	42	Impact of ambient heat on leucocytic HSP70 expression, NF- κ B p65 translocation, and hematology in primiparous Holstein dairy cows	M. Schilde1, 2, F. Billenkamp1, D. Höper3, S. Bühler1, L. Hüther1, D. von P. Niut1, 2, A. Schwarm2, A. Liesegang3, M. Kreuzer1, K. Giller1	1 Friedrich Löffler Institut, Institute for Animal Nutrition, Braunschweig, Germany		
13:45	00:15	Digestion and absorption	1	Oral	3	46	Measurement of apparent dry matter digestibility in cattle: comparison of the quantitative sampling technique with the TiO ₂ indicator method	M. Schmitz1, L. F. Böswald1	1 LMU München, Chair for Animal Nutrition and Dietetics,	13:45	00:15	Environmental effects	2	Oral	10	62	Alterations in the ruminal microbiome diversity and composition of periparturient dairy cows supplied with 3-Nitrooxypropanol and varying concentrate feed proportions in the ration	M. Schilde1, 2, F. Billenkamp1, D. Höper3, S. Bühler1, L. Hüther1, D. von P. Niut1, 2, A. Schwarm2, A. Liesegang3, M. Kreuzer1, K. Giller1	1 Friedrich Löffler Institut, Institute for Animal Nutrition, Braunschweig, Germany		
14:00	00:15	Digestion and absorption	1	Oral	4	96	Digestibility of fat and calcium changes during and after a low carb, moderate protein diet in pigs	N. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 University of Hohenheim, Stuttgart-Hohenheim, Germany	14:00	00:15	Environmental effects	2	Oral	11	123	Utilization of pomegranate peel as functional feed in dairy cows – effects on milk production, methane and urinary nitrogen emissions	M. Schilde1, 2, F. Billenkamp1, D. Höper3, S. Bühler1, L. Hüther1, D. von P. Niut1, 2, A. Schwarm2, A. Liesegang3, M. Kreuzer1, K. Giller1	1 Friedrich Löffler Institut, Institute for Animal Nutrition, Braunschweig, Germany		
14:15	00:15	Digestion and absorption	1	Oral	5	13	Effects of different dietary Ca levels on precaecal and postileal phytate degradation, P digestibility, and faecal microbiota in pigs	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 University of Hohenheim, Stuttgart-Hohenheim, Germany	14:15	00:15	Environmental effects	2	Oral	12	88	How to calculate water demand in pigs – which parameters provide the optimum basis?	M. Schilde1, 2, F. Billenkamp1, D. Höper3, S. Bühler1, L. Hüther1, D. von P. Niut1, 2, A. Schwarm2, A. Liesegang3, M. Kreuzer1, K. Giller1	1 Friedrich Löffler Institut, Institute of Animal Nutrition, Braunschweig, Germany		
14:30	00:15	Digestion and absorption	1	Oral	6	61	Can differences in InsP6 disappearance in broilers and turkeys be attributed to different endogenous mucosal phosphatase activity?	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 University of Hohenheim, Stuttgart-Hohenheim, Germany	14:30	00:05	Environmental effects	2	Poster	13	113	Physiological responses of grazing dairy cows to increasing ambient temperature in moderate climates	M. Schilde1, 2, F. Billenkamp1, D. Höper3, S. Bühler1, L. Hüther1, D. von P. Niut1, 2, A. Schwarm2, A. Liesegang3, M. Kreuzer1, K. Giller1	1 Friedrich Löffler Institut, Institute of Animal Nutrition, Braunschweig, Germany		
14:45	00:05	Digestion and absorption	1	Poster	7	4	No size-dependent particle retention in the hindgut of horses	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 Norwegian University of Life Sciences, Department of	14:45	00:05	Environmental effects	2	Poster	14	81	Impacts of concentrate supplementation and horn status on responses to mild heat stress in Brown Swiss dairy cows	M. Schilde1, 2, F. Billenkamp1, D. Höper3, S. Bühler1, L. Hüther1, D. von P. Niut1, 2, A. Schwarm2, A. Liesegang3, M. Kreuzer1, K. Giller1	1 Friedrich Löffler Institut, Institute of Animal Nutrition, Braunschweig, Germany		
14:50	00:25	Coffee break											14:50	00:25	Coffee break						
15:15	00:15	Energy	3	Oral	17	127	Organic matter digestibility of total mixed rations (TMR) at restricted feed intake in standardised sheep digestibility trials and ad libitum intake in lactating dairy cows	B. Feldmann1, C. Böttger2, J. Denßen1, M. Pries1, A. Susebeth3, K.-H. Bad Sässendorf, P. M. Jermann1, D. Fritzsche1, L. A. Wagner1, O. Wellnitz1, R. M. J. Gross1, R. Stürmlin1, R. M. Brückmaier1	1 Chamber of Agriculture of North Rhine-Westphalia, Bad Sässendorf, University of Bern, Veterinary Physiology, Bern, Switzerland	15:15	00:15	Undesirable substances and antinutrients	4	Oral	23	77	Influences of glyphosate residues and different concentrate feed proportions in dairy cow rations during early gestation on offsprings' energy-metabolism and leukocytes' gene expression	A.-K. Heymann1, K. Schnabel1, F. Billenkamp1, J. Frahm1, S. Knoop1, K. Knappstein2, F. Kalterer3, 4, J. Tänzer5, S. B. Ohloff1, A. Jahnke1, M. Yamamoto1, A. Jähnemann1, A. F. Koch1, J. Kowalczyk1, H. Schenkel2, R. Schmidt3, P. A. Engell1, F. Klevenhusen1, K. Brandz2, W. Bäumer2, S. J. Tänzer1, S. Geiger2, J. Aschenbach2, R. Pieper1, S. Hessel-F. T. Fichtner-Grabowski1, R. Blank1, M. Hasler2, C. Schulz3, S. F. Klevenhusen1, K. Weiß2, H.-J. Gusovius3, C. Idler4, R. Pieper1	1 Friedrich-Loeffler-Institut, Institute of Animal Nutrition, Braunschweig, Germany		
15:30	00:15	Energy	3	Oral	18	9	Endocrine and metabolic changes in dairy cows fed different diets at dry-off	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 University of Bern, Veterinary Physiology, Bern, Switzerland	15:30	00:15	Undesirable substances and antinutrients	4	Oral	24	91	Chronic exposure of dairy cows to pyrrolizidine alkaloids: Effects on health and performance	A.-K. Heymann1, K. Schnabel1, F. Billenkamp1, J. Frahm1, S. Knoop1, K. Knappstein2, F. Kalterer3, 4, J. Tänzer5, S. B. Ohloff1, A. Jahnke1, M. Yamamoto1, A. Jähnemann1, A. F. Koch1, J. Kowalczyk1, H. Schenkel2, R. Schmidt3, P. A. Engell1, F. Klevenhusen1, K. Brandz2, W. Bäumer2, S. J. Tänzer1, S. Geiger2, J. Aschenbach2, R. Pieper1, S. Hessel-F. T. Fichtner-Grabowski1, R. Blank1, M. Hasler2, C. Schulz3, S. F. Klevenhusen1, K. Weiß2, H.-J. Gusovius3, C. Idler4, R. Pieper1	1 Friedrich-Loeffler-Institut, Institute of Animal Nutrition, Braunschweig, Germany		
15:45	00:15	Energy	3	Oral	19	10	Short-term alterations of metabolic and endocrine parameters in mid lactation dairy cows exposed to dietary nutrient imbalances	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 University of Bern, Veterinary Physiology, Bern, Switzerland	15:45	00:15	Undesirable substances and antinutrients	4	Oral	25	80	Investigations on the transfer of non-dioxin like polychlorinated biphenyls from feed into meat and liver of pigs	A.-K. Heymann1, K. Schnabel1, F. Billenkamp1, J. Frahm1, S. Knoop1, K. Knappstein2, F. Kalterer3, 4, J. Tänzer5, S. B. Ohloff1, A. Jahnke1, M. Yamamoto1, A. Jähnemann1, A. F. Koch1, J. Kowalczyk1, H. Schenkel2, R. Schmidt3, P. A. Engell1, F. Klevenhusen1, K. Brandz2, W. Bäumer2, S. J. Tänzer1, S. Geiger2, J. Aschenbach2, R. Pieper1, S. Hessel-F. T. Fichtner-Grabowski1, R. Blank1, M. Hasler2, C. Schulz3, S. F. Klevenhusen1, K. Weiß2, H.-J. Gusovius3, C. Idler4, R. Pieper1	1 German Federal Institute for Risk Assessment, Department Safety in		
16:00	00:15	Energy	3	Oral	20	107	Are there breed-independent relationships between energy availability and fatty acids in hair from Simmental and Holstein cows in early lactation?	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 Humboldt-Universität zu Berlin, Albrecht Daniel Thaer-Institute of Animal Nutrition, Braunschweig, Germany	16:00	00:15	Undesirable substances and antinutrients	4	Oral	26	118	Investigations on the consumption of peat and disinfectant powder by fattening pigs and a possible transfer of therein contained toxic metals and trace elements into food of animal origin	A.-K. Heymann1, K. Schnabel1, F. Billenkamp1, J. Frahm1, S. Knoop1, K. Knappstein2, F. Kalterer3, 4, J. Tänzer5, S. B. Ohloff1, A. Jahnke1, M. Yamamoto1, A. Jähnemann1, A. F. Koch1, J. Kowalczyk1, H. Schenkel2, R. Schmidt3, P. A. Engell1, F. Klevenhusen1, K. Brandz2, W. Bäumer2, S. J. Tänzer1, S. Geiger2, J. Aschenbach2, R. Pieper1, S. Hessel-F. T. Fichtner-Grabowski1, R. Blank1, M. Hasler2, C. Schulz3, S. F. Klevenhusen1, K. Weiß2, H.-J. Gusovius3, C. Idler4, R. Pieper1	1 German Federal Institute for Risk Assessment, Department Safety in		
16:15	00:15	Energy	3	Oral	21	68	Effect of different forage proportions in diets of fattening bulls on performance and body composition.	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 Friedrich Löffler Institut, Institute for Animal Nutrition, Braunschweig, Germany	16:15	00:05	Undesirable substances and antinutrients	4	Poster	27	73	Investigations on a transfer of Hypoglycin A into milk using the isolated perfused bovine udder	A.-K. Heymann1, K. Schnabel1, F. Billenkamp1, J. Frahm1, S. Knoop1, K. Knappstein2, F. Kalterer3, 4, J. Tänzer5, S. B. Ohloff1, A. Jahnke1, M. Yamamoto1, A. Jähnemann1, A. F. Koch1, J. Kowalczyk1, H. Schenkel2, R. Schmidt3, P. A. Engell1, F. Klevenhusen1, K. Brandz2, W. Bäumer2, S. J. Tänzer1, S. Geiger2, J. Aschenbach2, R. Pieper1, S. Hessel-F. T. Fichtner-Grabowski1, R. Blank1, M. Hasler2, C. Schulz3, S. F. Klevenhusen1, K. Weiß2, H.-J. Gusovius3, C. Idler4, R. Pieper1	1 German Federal Institute for Risk Assessment, Department Safety in		
16:30	00:15	Energy	3	Oral	22	35	Comparison of long-chain fatty acid contents in the colostrum of sows of different parities	M. Klein1, N. Sarpong1, D. Feuerstein2, A. Camarinha-Silva1, M. Novotny1, V. Sommerfeld1, J. Krieg1, I. Kühn2, K. Huber1, M. A. Schwarm1, M. Clauss3, S. Ortmann2, R. B. Jensen1	1 University of Vienna, Unit Nutritional	16:20	00:05	Undesirable substances and antinutrients	4	Poster	28	120	Can the different toxicity of pyrrolizidine alkaloids in cows and pigs be explained by their intestinal permeability?	A.-K. Heymann1, K. Schnabel1, F. Billenkamp1, J. Frahm1, S. Knoop1, K. Knappstein2, F. Kalterer3, 4, J. Tänzer5, S. B. Ohloff1, A. Jahnke1, M. Yamamoto1, A. Jähnemann1, A. F. Koch1, J. Kowalczyk1, H. Schenkel2, R. Schmidt			

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Uhrzeit	Dauer	Sektion	Sektions-Nr.	Vortrag-P	Fortl. Nr.	Abstract-ID	Abstract-Titel	Erstautor	Ort	Uhrzeit	Dauer	Sektion	Sektions-Nr.	Vortrag-P	Fortl. Nr.	Abstract-ID	Abstract-Titel	Erstautor	Ort
16:50	00:15	Transport and epithelial physiology	5	Oral	31	14	cis-Inhibition of amino acid uptake by L-methionine in the porcine small intestine.	I. I. Schermuly ¹ , S. Romanet ¹ , M. Klünenmann ² , J. C. González-Vega ² , R. Physiology, Berlin, Brehm ² , M. Müsken ³ , J. Rohde ⁴ , G. Mazzuoli ¹ , D. Mannecke ¹ , K. T. Schrapers ¹ , J. R. Aschenbach ²	1 Freie Universität Berlin, Institute of Veterinary Medicine Hannover, Institute for Physiology and 2 PerformaNat GmbH, Berlin, Berlin, Germany	16:40	00:15	Omics in animal physiology	6	Oral	34	18	Do turkeys and broiler chickens exhibit differential hepatic metabolite profiles during early development?	F. Gonzalez Uarquin ¹ , M. Novotny ¹ , V. Sommerfeld ¹ , M. C. Roth ¹ , J. Seifert ¹	1 University of Hohenheim, Department of Animal Science, Stuttgart-
17:05	00:15	Transport and epithelial physiology	5	Oral	32	34	Porcine organoids as an intestinal model for epithelial transport functions and pathogen-epithelial cells interactions	B. Hoffmann ¹ , R. Brehm ² , M. Müsken ³ , J. Rohde ⁴ , G. Mazzuoli ¹ , D. Mannecke ¹ , K. T. Schrapers ¹ , J. R. Aschenbach ²	1 University of Veterinary Medicine Hannover, Institute for Physiology and 2 PerformaNat GmbH, Berlin, Berlin, Germany	16:55	00:15	Omics in animal physiology	6	Oral	35	38	The core microbiome of two high-yielding laying hen strains fed with different levels of calcium and phosphorus	A. Camarinha-Silva ¹	1 University of Hohenheim, Institute of Animal Science, Stuttgart-
17:20	00:05	Transport and epithelial physiology	5	Poster	33	52	Effect of phytonic compounds on serotonin- and acetylcholine-induced contractions in the jejunum of pigs	I. I. Schermuly ¹ , S. Romanet ¹ , M. Klünenmann ² , J. C. González-Vega ² , R. Physiology, Berlin, Brehm ² , M. Müsken ³ , J. Rohde ⁴ , G. Mazzuoli ¹ , D. Mannecke ¹ , K. T. Schrapers ¹ , J. R. Aschenbach ²	1 Freie Universität Berlin, Institute of Veterinary Medicine Hannover, Institute for Physiology and 2 PerformaNat GmbH, Berlin, Berlin, Germany	17:10	00:15	Omics in animal physiology	6	Oral	36	65	Differences in performance and metabolic parameters between early lactation dairy cows with high and low hepatic FGF21 expression	D. Geßner ¹ , L. Sandrock ¹ , E. Most ¹ , C. Koch ² , R. Ringsel ¹ , K. Eder ¹	1 Justus-Liebig-University Giessen, Giessen, Germany
17:25										17:25	00:05	Omics in animal physiology	6	Poster	37	104	Bile acids in serum and subcutaneous adipose tissue of dairy cows with high versus normal body condition	L. Dicks ¹ , K. Schuh ² , C. Prehn ³ , H. Sadri ⁴ , I. M. H. Ghaffari ¹ , H.	1 University of Bonn, Physiology Department, Institute of Animal Science,
										17:30							ENDE Tag 1		
		Fortsetzung Folgetag					Mittwoch, 9. März 2022					Fortsetzung Folgetag					Mittwoch, 9. März 2022		
09:00	01:00	Review lecture					The last 25 years (1997-2021) of the Society of Nutrition Physiology (GfE)	G. Flachowsky, J. Kamphus	Braunschweig, Hannover	09:00							siehe Konferenzraum 1		
10:00	00:30	Coffee break								10:00	00:30	Coffee break							
10:30	00:15	Feedstuff evaluation and feeding	7	Oral	38	58	Impact of breed and concentrate level on efficiency traits in Fleckvieh and Holstein dairy cows	M. Ledinek ¹ , 2, L. Gruber ² , E. Stamer ³ , T. Ette ¹ , P. Hertel-Böhnek ¹ , E. Haese ¹ , 2, K. Wild ¹ , M. Rodehutscord ¹	1 Bavarian State Research Center for Agriculture, Institute for Animal Nutrition 1 University of Hohenheim, Stuttgart-Hohenheim, Germany	10:30	00:15	Amino acids and nitrogen	8	Oral	54	121	Estimation of microbial protein flowing from the rumen in dairy cows	N. Gresner ¹ , K.-H. Südekum ¹ , K. Wild ² , M. Rodehutscord ²	1 University of Bonn, Bonn, Germany
10:45	00:15	Feedstuff evaluation and feeding	7	Oral	39	98	A meta-analysis on estimates of efficiency of phosphorus utilization in lactating dairy cows	K. Schmitz ¹ , S. Kehraus ¹ , K.-H. Südekum ¹	1 University of Bonn, Bonn, Germany	10:45	00:15	Amino acids and nitrogen	8	Oral	55	15	Growth hormone receptor-insulin-like growth factor I axis in the kidney of young goats fed a nitrogen-reduced diet	H. Van Nevel ¹ , K. Husted ² , N. Schnepel ² , A. Muscher-Banze ²	1 University of California, College of Veterinary Medicine, Davis, California,
11:00	00:15	Feedstuff evaluation and feeding	7	Oral	40	78	Phosphorus digestibility and metabolisable energy concentration of compound feeds for pigs based on rye or wheat and soybean meal or rapeseed meal	M. Liebl ¹ , 2, M. Gierus ² , E. Schneeberger ³ , C. Potthast ⁴ , K. Hartinger ¹ , K. Fröschl ¹ , B. Bruschek-Pfleger ¹ , C. Schwarz ¹ , K. B. Raulcks ¹ , L. Waldinger ¹ , W. Windisch ¹	1 FFOQSI GmbH, Tulln, Nieder-österreich, Austria 1 University of Natural Resources and Life Sciences Vienna, Institute of Technical University Munich, School of Life Sciences, Freising, M. Liebl ¹ , 2, M. Gierus ² , E. Schneeberger ³ , C. Potthast ⁴ , K. Hartinger ¹ , K. Fröschl ¹ , B. Bruschek-Pfleger ¹ , C. Schwarz ¹ , K. B. Raulcks ¹ , L. Waldinger ¹ , W. Windisch ¹	11:00	00:15	Amino acids and nitrogen	8	Oral	56	26	Impact of the dietary protein quality and concentration on the fecal microbiota of healthy adult cats	N. Paßlack ¹ , 2, L. Thies ² , W. Vahjen ² , J. Zentek ²	1 Justus-Liebig-University Giessen, Faculty of Veterinary Medicine, Small
11:15	00:15	Feedstuff evaluation and feeding	7	Oral	41	106	Effect of various insoluble dietary fibres on ileal morphology, caecal gene expression, performance and footpad health of broilers	Z. Li ¹ , Q. L. Sciascia ¹ , S. Girs ¹ , N. Nguyen ¹ , F. R. Baghai ¹ , A. Z. Li ¹ , Q. L. Sciascia ¹ , J. Schrege ¹ , Z. Li ¹ , A. Tuchscherer ² , J. Zentek ³ , C. C.	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional										
11:30	00:15	Feedstuff evaluation and feeding	7	Oral	42	93	Changes in apparent precaecal digestibility, microbial metabolites and intestinal histology under the influence of feeding <i>Hermetia illucens</i> protein meal and fat to broilers	M. Liebl ¹ , 2, M. Gierus ² , E. Schneeberger ³ , C. Potthast ⁴ , K. Hartinger ¹ , K. Fröschl ¹ , B. Bruschek-Pfleger ¹ , C. Schwarz ¹ , K. B. Raulcks ¹ , L. Waldinger ¹ , W. Windisch ¹	1 University of Natural Resources and Life Sciences Vienna, Institute of Technical University Munich, School of Life Sciences, Freising, M. Liebl ¹ , 2, M. Gierus ² , E. Schneeberger ³ , C. Potthast ⁴ , K. Hartinger ¹ , K. Fröschl ¹ , B. Bruschek-Pfleger ¹ , C. Schwarz ¹ , K. B. Raulcks ¹ , L. Waldinger ¹ , W. Windisch ¹	11:15	00:15	Amino acids and nitrogen	8	Oral	57	7	Glutamine supplementation improves growth and influences plasma metabolite and free amino acid patterns in neonatal low birth weight piglets	Z. Li ¹ , Q. L. Sciascia ¹ , S. Girs ¹ , N. Nguyen ¹ , F. R. Baghai ¹ , A. Z. Li ¹ , Q. L. Sciascia ¹ , J. Schrege ¹ , Z. Li ¹ , A. Tuchscherer ² , J. Zentek ³ , C. C.	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional
11:45	00:15	Feedstuff evaluation and feeding	7	Oral	43	71	Feeding yellow mealworms (larvae of <i>Tenebrio molitor</i>) with various protein sources and their effects on growth performance	M. Liebl ¹ , 2, M. Gierus ² , E. Schneeberger ³ , C. Potthast ⁴ , K. Hartinger ¹ , K. Fröschl ¹ , B. Bruschek-Pfleger ¹ , C. Schwarz ¹ , K. B. Raulcks ¹ , L. Waldinger ¹ , W. Windisch ¹	1 FFOQSI GmbH, Tulln, Nieder-österreich, Austria 1 University of Natural Resources and Life Sciences Vienna, Institute of Technical University Munich, School of Life Sciences, Freising, M. Liebl ¹ , 2, M. Gierus ² , E. Schneeberger ³ , C. Potthast ⁴ , K. Hartinger ¹ , K. Fröschl ¹ , B. Bruschek-Pfleger ¹ , C. Schwarz ¹ , K. B. Raulcks ¹ , L. Waldinger ¹ , W. Windisch ¹	11:30	00:15	Amino acids and nitrogen	8	Oral	58	72	Association of oral glutamine supplementation during the neonatal period, on growth and blood immune cell parameters in low birth weight piglets	Q. L. Sciascia ¹ , J. Schrege ¹ , Z. Li ¹ , A. Tuchscherer ² , J. Zentek ³ , C. C.	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional
12:00	00:05	Feedstuff evaluation and feeding	7	Poster	44	102	Effects of replacing soybean meal by regional co-products (DDGS, rapeseed meal, sunflower meal) and a phytonutrient on broiler performance and footpad health	A. G. Wessels ¹ , T. Chalvon-Demersay ² , Berlin, Institut für Animal Nutrition, Berlin, Germany	11:45	00:05	Amino acids and nitrogen	8	Poster	59	126	Influence of oral glutamine supplementation on bacterial metabolites in stomach and jejunum in neonatal piglets	J. Schulz ¹ , Holthausen ¹ , Q. Sciascia ² , J. Schrege ² , C. C.	1 Freie Universität Berlin, Department of Veterinary Medicine, Berlin, Germany	
12:05	00:05	Feedstuff evaluation and feeding	7	Poster	45	122	Creatine contents in feed components for monogastric animals: Are current feeding programs adequate for omnivores?	A. G. Wessels ¹ , T. Chalvon-Demersay ² , Berlin, Institut für Animal Nutrition, Berlin, Germany	11:50	00:05	Amino acids and nitrogen	8	Poster	60	105	Use of low dosage amino acid mixtures to prevent stress-related piglet diarrhea	J. Zentek ¹	1 Freie Universität Berlin, Institut für Animal Nutrition, Berlin, Germany	
12:10	00:05	Feedstuff evaluation and feeding	7	Poster	46	29	Meta-analysis on the estimation of ruminal amino acid degradability from crude protein degradability	H. Ahmad ¹ , 2, W. Siegert ¹ , M. Rodehutscord ¹	1 University of Hohenheim, Stuttgart-Hohenheim, Germany	11:55	00:05	Amino acids and nitrogen	8	Poster	61	67	Estimating optimal amino acids intake of broiler chickens using Gaussian process regression and genetic algorithm	H. Ahmad ¹ , 2, W. Siegert ¹ , M. Rodehutscord ¹	1 University of Hohenheim, Stuttgart-Hohenheim, Germany
12:15	00:05	Feedstuff evaluation and feeding	7	Poster	47	63	Ruminal and post-ruminal phytate degradation in wethers fed rapeseed meal or soybean meal-based diets	H. Kiuth ¹ , M. Bachmann ¹ , U. Abraham ² , A. Zeyner ¹	1 University of Hohenheim, Stuttgart-Hohenheim, Germany	12:00	00:05	Amino acids and nitrogen	8	Poster	62	36	Effect of the sex of broilers on the precaecal digestibility of amino acids from dehulled pea and lupin grains	D. Siebert ¹ , J. Millecam ² , B. Saremi ¹	1 Martin Luther University Halle-Wittenberg, Institute of Agricultural and
12:20	00:40	Lunch and Conversation break								12:05	00:05	Amino acids and nitrogen	8	Poster	63	75	Influence of an increasing dietary arginine content on performance parameters of starter broiler chickens	S. Kuenz ¹ , D. Hoffmann ¹ , 2, S. Thurner ² , K. Damme ³ , W. M. Danesh ¹ , M. Mesgaran ¹ , H. Kargar ¹ , S. Danesh ¹ , M. Mesgaran ² , A.	1 Technical University Munich, Chair of Animal Nutrition, Freising, 2 Poulpharm BVBA, 1 Ferdowsi University of Mashhad, Department of
										12:10	00:05	Amino acids and nitrogen	8	Poster	64	111	Impact of varying trypsin inhibitor activities in differently processed soybean expellers on nitrogen utilization of male broiler chickens	S. Kuenz ¹ , D. Hoffmann ¹ , 2, S. Thurner ² , K. Damme ³ , W. M. Danesh ¹ , M. Mesgaran ¹ , H. Kargar ¹ , S. Danesh ¹ , M. Mesgaran ² , A.	1 Technical University Munich, Chair of Animal Nutrition, Freising, 2 Poulpharm BVBA, 1 Ferdowsi University of Mashhad, Department of
										12:15	00:05	Amino acids and nitrogen	8	Poster	65	5	Effect of a rumen-protected Zinc-methionine complex on distinct productive performance parameters of high lactating Holstein dairy cows during an environmental heat stress period	S. Kuenz ¹ , D. Hoffmann ¹ , 2, S. Thurner ² , K. Damme ³ , W. M. Danesh ¹ , M. Mesgaran ¹ , H. Kargar ¹ , S. Danesh ¹ , M. Mesgaran ² , A.	1 Technical University Munich, Chair of Animal Nutrition, Freising, 2 Poulpharm BVBA, 1 Ferdowsi University of Mashhad, Department of
12:20	00:40	Lunch and Conversation break								12:20	00:40	Lunch and Conversation break							

Konferenzraum 1							Konferenzraum 2													
Uhrzeit	Dauer	Sektion	Sektions-Nr.	Vortrag-Poster	Fortl. Nr.	Abstract-ID	Abstract-Titel	Erstautor	Ort	Uhrzeit	Dauer	Sektion	Sektions-Nr.	Vortrag-Poster	Fortl. Nr.	Abstract-ID	Abstract-Titel	Erstautor	Ort	
Fortsetzung Folgetag							Donnerstag, 10. März 2022										Fortsetzung Folgetag			
Donnerstag, 10. März 2022							Donnerstag, 10. März 2022										Donnerstag, 10. März 2022			
09:00	00:15	Gut health	15	Oral	101	57	Weaning age influences the host microbiome, metabolome and the host-microbe interactions in calves	N. Amin ¹ , S. Schwarzkopf ¹ , J. Trösscher-Mußotter ¹ , A. Camarinha-Y. ²	1 University of Hohenheim, Institute of Animal Science, Stuttgart, Baden-Württemberg, Germany	9:00	00:15	Feed additives	16	Oral	107	60	Whole black soldier fly larvae in broiler rations: Impact on carcass characteristics, blood metabolites and fatty acids profiles in plasma, muscle and fat tissues	S. M. Seyedalmoosavi ¹ , G. Das ¹ , D. Dannenberger ² , S. F. Larsberg ¹ , M. Sprechert ¹ , D. Hesse ¹ , G. Loh ² , G. Brockmann ¹ , S. E. Rajković ¹ , D. Schwarzz ² , D. Tischler ¹ , K. Schedle ² , N. L. Carlson ¹ , A. Grümpe-Schlüter ¹ , J. Klüssel ¹ , D. Schatzmayr ² , S. K. Zeilinger ¹ , A. G. Wessels ¹ , W. Vahjen ¹ , J. Zentek ¹	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional 1 Humboldt University of Berlin, Albrecht Daniel Thaer-Institute, 1 FFoQSI GmbH – Austrian Competence Centre for Feed and Food 1 Friedrich-Loeffer-Institut, Institute of Animal Nutrition, Braunschweig, 1 Freie Universität Berlin, Institut für Tierernährung, Berlin, Berlin,	
09:15	00:15	Gut health	15	Oral	102	12	The effect of age, breed, sex, and dietary factors on metabolite concentration and immunological traits in the caecum of broilers	Duangnumsaeng ¹ , F. Goodarzi ¹ , Borojeni ¹ , W. L. Fuhrmann ¹ , W. Vahjen ¹ , J. Zentek ¹ , R. Günther ² , E.-M. Saliu ¹	1 Freie Universität Berlin, Institute of Animal Nutrition, Department of Veterinary Medicine Hannover, Institute for Animal Nutrition, Berlin, Berlin, Germany	9:15	00:15	Feed additives	16	Oral	108	94	Effects of the probiotic <i>Bacillus amyloliquefaciens</i> CETC 5490 on primary cultured chicken immune cells.	E. Rajković ¹ , D. Hesse ¹ , G. Loh ² , G. Brockmann ¹ , S. E. Rajković ¹ , D. Schwarzz ² , D. Tischler ¹ , K. Schedle ² , N. L. Carlson ¹ , A. Grümpe-Schlüter ¹ , J. Klüssel ¹ , D. Schatzmayr ² , S. K. Zeilinger ¹ , A. G. Wessels ¹ , W. Vahjen ¹ , J. Zentek ¹	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional 1 Humboldt University of Berlin, Albrecht Daniel Thaer-Institute, 1 FFoQSI GmbH – Austrian Competence Centre for Feed and Food 1 Friedrich-Loeffer-Institut, Institute of Animal Nutrition, Braunschweig, 1 Freie Universität Berlin, Institut für Tierernährung, Berlin, Berlin,	
09:30	00:15	Gut health	15	Oral	103	100	Investigation of a specific prevention strategy against an <i>Escherichia coli</i> infection using a pre-/probiotic combination and parent stock vaccination in broilers	J. Hankel ¹ , S. Sander ¹ , E. Galvez ² , T. Strowig ² , J. L. Grzeskowiak ¹ , W. Vahjen ¹ , J. Zentek ¹	1 University of Veterinary Medicine Hannover, Institute for Animal Nutrition, Berlin, Berlin, Germany	9:30	00:15	Feed additives	16	Oral	109	114	Effect of a grape extract on performance, digestibility and microbial metabolites of weaning piglets in comparison to a negative and positive control	M. Mielenz ¹ , S. M. Seyedalmoosavi ¹ , G. Da ² , K. Schleifer ¹ , J. Martinez ¹ , Vallespin ¹ , P. Ader ² , J. Zentek ¹	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional 1 Humboldt University of Berlin, Albrecht Daniel Thaer-Institute, 1 FFoQSI GmbH – Austrian Competence Centre for Feed and Food 1 Friedrich-Loeffer-Institut, Institute of Animal Nutrition, Braunschweig, 1 Freie Universität Berlin, Institut für Tierernährung, Berlin, Berlin,	
09:45	00:15	Gut health	15	Oral	104	79	Fecal microbiota of vaccinated or non-vaccinated clinically inconspicuous and conspicuous piglets under <i>Lawsonia intracellularis</i> infection	C. Pisch ¹ , M. Glatter ¹ , L. Rechenburg ¹ , M. Wensch-Dorendorf ¹	1 Martin Luther University Halle-Wittenberg, Institute of Agricultural and	9:45	00:05	Feed additives	16	Poster	110	103	Effectiveness of combined feed additives for inactivation of deoxynivalenol and zearalenone in diets for weaned piglets	J. Schwerdtfeger ¹ , B. Puppe ² , A. Krause ² , B. Kuhla ¹ , V. Röttgen ² , D. Brugger ¹ , J. Salzmann ² , A. Liesegang ¹ , R. Bolt ³	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional 1 Humboldt University of Berlin, Albrecht Daniel Thaer-Institute, 1 FFoQSI GmbH – Austrian Competence Centre for Feed and Food 1 Friedrich-Loeffer-Institut, Institute of Animal Nutrition, Braunschweig, 1 Freie Universität Berlin, Institut für Tierernährung, Berlin, Berlin,	
10:00	00:05	Gut health	15	Poster	105	59	Impact of colostrum from sows fed different fibers against <i>Clostridioides difficile</i> toxin-induced effects on IPEC-J2 cells	L. Grzeskowiak ¹ , W. Vahjen ¹ , J. Zentek ¹	1 Freie Universität Berlin, Institute of Animal Nutrition, Berlin, Berlin, Germany	9:50	00:05	Feed additives	16	Poster	111	108	Impact of a combination of fructooligosaccharides and a <i>Bacillus</i> multi-strain probiotic on performance parameters of piglets challenged with <i>Escherichia coli</i>	M. Glatter ¹ , A. de Oliveira Silva ² , H. B. Wessels ¹ , W. Vahjen ¹ , J. Zentek ¹	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional 1 Humboldt University of Berlin, Albrecht Daniel Thaer-Institute, 1 FFoQSI GmbH – Austrian Competence Centre for Feed and Food 1 Friedrich-Loeffer-Institut, Institute of Animal Nutrition, Braunschweig, 1 Freie Universität Berlin, Institut für Tierernährung, Berlin, Berlin,	
10:05	00:05	Gut health	15	Poster	106	50	Faecal characteristics of old vs younger adult horses under similar housing and feeding conditions	C. Pisch ¹ , M. Glatter ¹ , L. Rechenburg ¹ , M. Wensch-Dorendorf ¹	1 Martin Luther University Halle-Wittenberg, Institute of Agricultural and	9:55	00:05	Feed additives	16	Poster	112	69	Effects of sewage sludge recyclate addition to substrate on selected mineral contents of Black Soldier Fly larvae	J. Schwerdtfeger ¹ , B. Puppe ² , A. Krause ² , B. Kuhla ¹ , V. Röttgen ² , D. Brugger ¹ , J. Salzmann ² , A. Liesegang ¹ , R. Bolt ³	1 Research Institute for Farm Animal Biology (FBN), Institute of Nutritional 1 Humboldt University of Berlin, Albrecht Daniel Thaer-Institute, 1 FFoQSI GmbH – Austrian Competence Centre for Feed and Food 1 Friedrich-Loeffer-Institut, Institute of Animal Nutrition, Braunschweig, 1 Freie Universität Berlin, Institut für Tierernährung, Berlin, Berlin,	
10:10	00:35	Coffee break							10:00										10:00	
10:45	00:05	Workshop	Introduction							J. Aschenbach	Freie Universität Berlin, Institute of Veterinary Physiology, Berlin, Tierärztliche Hochschule, Hannover							10:20		
10:50	00:35	Workshop	Importance of colostrum supply for the development of the neonatal immune system							H.-J. Schuberth								00:25		
11:25	00:35	Workshop	Implementation of adequate milk feeding until weaning							C. Koch	Lehr- und Versuchsanstalt für Viehhaltung, Hofgut Neumühle, Tiergesundheitsdienst Bayern, Grub							siehe Konferenzraum 1		
12:00	00:35	Workshop	Influence of milk supply on calf health							I. Lorenz										
12:35	00:45	Workshop	Improving calf welfare: Effects of social housing and milk volume on behavior, growth and weaning							M. von Keyserlingk	University of British Columbia, Vancouver, Canada									
13:20	00:15	Workshop	Summary discussion							J. Aschenbach	Freie Universität Berlin, Institute of Veterinary Physiology, Berlin, Tierärztliche Hochschule, Berlin, Institute of Veterinary Physiology, Berlin,									
13:35	00:10	Closing remarks							J. Aschenbach	Freie Universität Berlin, Institute of Veterinary Physiology, Berlin,										
13:45	Tagungsende																			