



	<b>Thursday, Sept. 15<sup>th</sup></b>	
07:30	Registration	
	Lecture Hall 1b (Hörsaal 1b) Chair: J. Zentek	
09:00 – 09:15	<b>Welcome &amp; A look back: 25 years of ESVCN (by Jacques Debraekeleer)</b>	
09:15 – 10:15	<b>Andrea Fascetti:</b> <i>The impact of metabolic flexibility on determining protein and amino acid requirements.</i>	
10:15 – 10:45	Coffee break (sponsored by Tereos) 	
	Lecture Hall 1b (Hörsaal 1b)	Lecture Hall 2 (Hörsaal 2)
	<b>Session I: Farm animals: minerals</b> Chair: A. Liesegang	<b>Session II: Horses and comparative nutrition</b> Chair: P. Harris
10:45 – 11:00	<i>Mickdam et al.:</i> Treatment of concentrates with lactic acid without inorganic phosphorus supplementation modulates ruminal fermentation in dairy cow	<i>Elmiger et al.:</i> Case report: Replacement of some Paddock fence posts of Robinia pseudoacacia associated with laminitis in horses
11:00 – 11:15	<i>Wolf et al.:</i> Bone density and composition of weaned piglets at different phosphorus supply	<i>Bochnia et al.:</i> The daytime chewing frequencies and activity patterns of permanently grazing warmblood type horses
11:15 – 11:30	<i>Böswald et al.:</i> Faecal Ca and P excretion in mammals	<i>Cappai et al.:</i> Parenteral supplementation of $\alpha$ -tocopherol/Se in association with the diet for stallions ameliorates semen quality, hematological and overall metabolic profiles by the late stud-season
11:30 – 11:45	<i>Borgelt et al.:</i> Investigations on the copper supply of sheep in Mecklenburg-Western Pomerania	<i>Hetényi et al.:</i> The effects of oral cholecalciferol supplementation vs. UVB exposure on plasma concentration of 25(OH)D and Ca of bearded dragons ( <i>Pogona vitticeps</i> ) and Hermann's tortoises ( <i>Testudo hermanni</i> )
11:45 – 12:00	<i>Visscher et al.:</i> Iron contents in the liver depending on the degree of liver steatosis in turkeys suffering from hepatic lipidosis	<i>Rawski et al.:</i> The effects of dietary probiotics on microbiota and growth performance of Florida softshell turtle ( <i>Apalone ferox</i> )
12:00 – 12:15	<i>Rehman et al.:</i> <i>In vitro</i> effects of zinc oxide nanoparticles on electrophysiological indices and sodium dependent glucose transport across jejunal mucosa in laying hens	<i>Thum et al.:</i> Alternative protein sources – potential opportunities of algae, mussel and ragworm
12:15 – 13:15	Lunch break	
13:15 – 14:15	<b>Poster Session 1 + 2 + 3</b>	
	Lecture Hall 1b (Hörsaal 1b)	Lecture Hall 2 (Hörsaal 2)
	<b>Session III: Dairy cows: rumen health</b> Chair: G. Janssens	<b>Session IV: Companion animals</b> Chair: N. Paßlack
14:15 – 14:30	<i>Pourazad et al.:</i> Divergent responsiveness of ruminal pH to high concentrate feeding in early-lactating dairy cows	<i>Holda et al.:</i> Qualitative and quantitative PCR verification of undeclared chicken protein in dry dog foods
14:30 – 14:45	<i>Kröger et al.:</i> Supplementation of feed additives to a concentrate-rich diet modulates chewing activity and ruminal pH in Holstein cows	<i>Pagani et al.:</i> Identification of potential species contamination in canine and feline canned foods used in dietary elimination trials

14:45 – 15:00	<i>Neubauer et al.</i> : Modulation of reticuloruminal pH and microbiome of solid rumen digesta during repeated diet-induced subacute rumen acidosis in cows by supplementation with feed additives	<i>Venturini et al.</i> : Processing traits and digestibility of extruded dog foods with soy protein concentrate
15:00 – 15:15	<i>Aditya et al.</i> : Intramammary LPS challenge affects feed intake and rumen temperature in dairy cows but the response is stronger in cows experiencing subacute rumen acidosis	<i>Bieri and Liesegang</i> : Effect of BARF-feeding on faecal consistency, coat quality, dental health and blood values of dogs
15:15 – 16:15	Coffee break & <b>Poster session 4 + 5</b>	
	Lecture Hall 1b (Hörsaal 1b)	Lecture Hall 2 (Hörsaal 2)
	<b>Session V: Digestive physiology in farm animals</b> Chair: A. Mößeler	<b>Session VI: Prebiotics</b> Chair: A. Verbrugghe
16:15 – 16:30	<i>Hausmann et al.</i> : Compared effect of essential oils and biotin vs. monensin on energy metabolism of high-yielding dairy cows	<i>Ashraf et al.</i> : Effects of $\beta$ -Galacto-oligosaccharides ( $\beta$ -GOS) supplementation on relative weights of viscera, thyroid and adrenal hormone levels in heat stressed broilers
16:30 – 16:45	<i>Tischler et al.</i> : Effect of dietary xylanase/glucanase supplementation on the energy digestibility and milk composition in lactating sows	<i>Zaneb et al.</i> : Comparative effects of different dietary levels of novelty-linked $\beta$ -galacto-oligosaccharides on intestinal morphometry of cold-stressed broilers
16:45 – 17:00	<i>Leurs et al.</i> : Does a high fibre diet supplement around parturition in addition to a standard lactation feed influence the performance of sows and piglets?	<i>Le Bourgot et al.</i> : Effect of supplementation with short-chain fructooligosaccharides of sows or/and piglets on immune response of piglets subjected to <i>Lawsonia intracellularis</i> vaccine
17:00 – 17:15	<i>Keller et al.</i> : Effects of two different high fibre supplements fed around parturition on the microbiome in faeces of sows	<i>Bourgeois et al.</i> : XOS Supplementation and Gut Health in Cats
17:30	AGM ECVN	

	<b>Friday, Sept. 16<sup>th</sup></b>	
	Lecture Hall 1b (Hörsaal 1b) Chair: C. Iben	
08:30 – 09:30	<b>John Pluske:</b> <i>Some associations between diet and diseases and conditions of the gastrointestinal tract in monogastric production and companion animals: A review.</i>	
09:30 – 09:45	<i>Hooper et al.:</i> Effects of dietary selenium and moisture on the physical activity and thyroid axis of cats - Waltham AAVN award winner	
09:45 – 10:00	Winning presentation: Residency Class	
10:00 – 10:30	Coffee break sponsored by Tereos 	
10:30 – 11:30	<b>Poster session 6 + 7 + 8</b>	
	Lecture Hall 1b (Hörsaal 1b)	Lecture Hall 2 (Hörsaal 2)
	<b>Session VII: Intestinal microbiota in pigs</b> Chair: R. Pieper	<b>Session VIII: Companion animals</b> Chair: E. Hagen-Plantinga
11:30 – 11:45	<i>Möbeler et al.:</i> Effects of exocrine pancreatic insufficiency on microbiota in the ileal digesta – studies in juvenile pancreatic duct ligated pigs	<i>Wichert et al.:</i> Weight development and food intake in growing cats from a family with segregating juvenile overweight phenotype
11:45 – 12:00	<i>Bredenkamp et al.:</i> Varied levels of phosphorus in diets of weaned German Landrace piglets and the influence on the intestinal microbiome in colon and faeces	<i>Boutigny et al.:</i> Effect of energy supplementation between birth and 3 weeks on growth rate in puppies
12:00 – 12:15	<i>Uken et al.:</i> Modulation of the intestinal microbiota in growing pigs by different dietary levels of fermentable substrates and calcium-phosphate	<i>Gerth and Dobenecker:</i> Husbandry matters: activity monitoring in dogs kept privately or in trial animal facilities
12:15 – 12:30	<i>Grześkowiak et al.:</i> Colonisation development of <i>Clostridium difficile</i> and quantitative determination of toxins in sows and neonatal piglets	<i>Radicke and Wolf:</i> Investigation on average body weight, common feeding types, body condition score and the prevalence of diseases in young and adult dogs
12:30 – 13:30	Lunch break	
13:30 – 14:30	<b>Poster Session 9 + 10</b>	
	<b>Session IX: Protein sources in poultry</b> Chair: C. Visscher	<b>Session X: Farm animals: health &amp; welfare</b> Chair: P. Wolf
14:30 – 14:45	<i>Goodarzi Boroojeni et al.:</i> The effects of microbial fermentation and enzymatic pre-digestion of pea on performance and nutrient digestibility in broilers	<i>von und zur Mühlen and Kamphues:</i> Gastric health of piglets at weaning and during rearing - housed with or without straw
14:45 – 15:00	<i>Normant et al.:</i> The impact of choice feeding with black soldier fly larvae ( <i>Hermetia illucens</i> ) on flock performance of free-range laying hens	<i>Sander et al.:</i> Effects of particle size distribution in a meal diet on animal behaviour, fattening performance and boar taint in entire male pigs

15:00 – 15:15	<i>Ruhnke et al.</i> : The impact of choice feeding with the black soldier fly larvae ( <i>Hermetia illucens</i> ) on egg quality in free range laying hens	<i>Zirpins et al.</i> : Ad libitum feeding of young calves - influences on body weight gains and faeces quality
15:15 – 15:30	<i>Schiavone et al.</i> : Growth performance of broiler chickens fed diets formulated with increasing inclusion level of Black Soldier fly meal	<i>Chuppava et al.</i> : Development of enrofloxacin-resistance in commensal <i>Escherichia coli</i> isolated from broilers housed on different floor designs
15:30 – 15:45	Coffee break	
15:45 – 17:45	AGM ESVCN	
19:00	Arminiusmarkthalle: “Anniversary Food Market”	

	Saturday, Sept. 17 <sup>th</sup>	
	Lecture Hall 1b (Hörsaal 1b) Chair: J. Kamphues	
09:00 – 10:00	<b>Cornelia C. Metges</b> : <i>What do we know about the dietary amino acid requirements of neonates?</i>	
10:00 – 10:30	Coffee break	
	<b>Session XI: Various aspects of animal nutrition</b> Chair: M. Hesta	
10:30 – 10:45	<i>Kienzle et al.</i> : Faecal calcium losses in adult dogs eating complete pet food increase with faecal dry matter excretion	
10:45 – 11:00	<i>Paßlack et al.</i> : <i>In vitro</i> effects of varying amino acid concentrations on the cytokine secretion of the feline cell line MYA-1	
11:00 – 11:15	<i>Moharrery et al.</i> : Is there a relationship between nitrogen intake and testicular urea in sheep?	
11:15 – 11:30	<i>Brenes-Soto et al.</i> : Passage rate and digestibility of diets in tropical small wild felids	
11:30 – 11:45	<i>Kamphues</i> : The trend for an application of feed additives via drinking water – consequences from the veterinary point of view	
11:45 – 12:00	<i>Hankel et al.</i> : Influence of distilled palm kernel fatty acids on the susceptibility of chicken to an experimental <i>Campylobacter jejuni</i> infection	
12:00	Closing remarks / Awards	

## POSTER SESSION

	<b>Thursday, Sept. 15<sup>th</sup></b>
13:15 – 14:15	<b>Session 1: Minerals &amp; Vitamins</b>
	1. <i>Kiefer-Hecker and Dobenecker</i> : Serum concentrations of ionised calcium in puppies with normal and phosphorus deficient feeding
	2. <i>Rieger et al.</i> : Investigations on the suitability of diverse bone characteristics in different bones for the diagnosis of mineral deficiency in growing pigs
	3. <i>Zimmermann et al.</i> : Sulphur and Sulphate – contents in the alimentary tract as well as digestibility rates in broilers at different dietary intake
	4. <i>Männer et al.</i> : Effects of inorganic and organic dietary trace minerals (Fe, Mn, Zn, Cu) in male broiler chickens
	5. <i>Kölln et al.</i> : Evaluation of copper contents in sheep liver sent in to a service laboratory
	6. <i>Lefebvre et al.</i> : Preliminary study on the efficiency of vitamin K on hypocoagulable rats
	7. <i>Mößeler et al.</i> : Efficacy of vitamin D supplementation (oral vs. parenteral) in case of exocrine pancreatic insufficiency induced by pancreatic duct ligation in young pigs
	8. <i>Sizmaz et al.</i> : Composition of egg yolk lipid in laying hens fed with boron with various levels of vitamin D
13:15 – 14:15	<b>Session 2: Horse nutrition</b>
	9. <i>Gerstner et al.</i> : Effect of a montmorillonite-bentonite based product on faecal parameters of horses
	10. <i>Glatter et al.</i> : Compliance between fermentation characteristics in different segments of the terminal tract of horses fed a hay-oats diet alone or added with Jerusalem artichoke meal
	11. <i>Vergnano et al.</i> : Cases report on Equine Motor Neuron Disease: when the outcome depends on nutrition
	12. <i>Dobenecker et al.</i> : Bioactive collagen peptides as supplement for horses with osteoarthritis
	13. <i>Winter et al.</i> : Oral supplementation of magnesium aspartate hydrochloride in five horses with peripheral insulin resistance
	14. <i>Penning et al.</i> : Field Study: Overview of a Screening Test for Allergens in Horses on Diverse Allergens (Mite, Fungi, Pollen, Insects)
	15. <i>Ahlfänger et al.</i> : Investigation on possible anabolic effects of a horse supplement enriched with gamma-oryzanol on testosterone levels and body composition of young fattening rabbits – used as a model for horses
13:15 – 14:15	<b>Session 3: Various aspects of animal nutrition</b>
	16. <i>Moharrery and Jazaeri</i> : Comparative analysis of gas production profiles obtained with cows ruminal or fecal fluid as the source of inoculum
	17. <i>Huang et al.</i> : Relationship between ruminal redox potential and pH in dairy cattle
	18. <i>Kamphues et al.</i> : Energy and protein balances, changes in body weight and back fat thickness of high producing primiparous sows during lactation
	19. <i>Visscher et al.</i> : Interaction between dietary concepts, <i>Lawsonia intracellularis</i> infections and boar taint in fattening pigs
	20. <i>Visscher et al.</i> : <i>Lawsonia intracellularis</i> in fattening pigs: Spreading of infection in animals fed different diets
	21. <i>Karakas Oguz et al.</i> : The effects of <i>ad libitum</i> limestone grit consumption with whole or ground flaxseed containing rations on performance, egg quality and some blood parameters in quails
	22. <i>Lucke et al.</i> : Responses of serum $\alpha$ 1-acid glycoprotein and lymphocyte DNA damage to oral LPS challenge in broilers fed graded levels of deoxynivalenol

15:15 – 16:15	<b>Session 4: Feed: composition, processing and hygiene</b>
	23. <i>Ricci et al.</i> : Microbial contamination of raw dog foods purchased online
	24. <i>Ansel et al.</i> : <i>Salmonella</i> in food and in faeces of dogs fed raw food (BARF)
	25. <i>Ricci et al.</i> : Attitudes of dog owners using BARF in Italy: a survey
	26. <i>Virtanen et al.</i> : Exploratory report: 632 shared experiences from dog owners changing their dogs' food to a raw food (BARF) diet
	27. <i>Braun et al.</i> : Nutritional characteristics of commercial canned cat foods
	28. <i>Guidi et al.</i> : Iodine level in canine and feline commercial canned foods
	29. <i>Stojko et al.</i> : Analysis of compliance labels of traditional grocery brands for dog with FEDIAF standards in Poland
	30. <i>Ratert et al.</i> : Changes in dietary particle size distribution due to soaking of porcine diets?
	31. <i>Ratert et al.</i> : Case report: Diminution of a crumbled diet due to the techniques of transport from the silo to the trough
	32. <i>Visscher et al.</i> : Case Report: Hygiene in a liquid feeding system with the use of by-products in pig fattening
	33. <i>Gimmel et al.</i> : Are fish really waterproof? Storing and thawing losses in fish fed in zoos
	34. <i>Wolf and Dibbert</i> : Feed intake of rabbits and feed hygiene status for storage feeding of hay or a mixed feed
15:15 – 16:15	<b>Session 5: Clinical nutrition in companion animals</b>
	35. <i>Rückert et al.</i> : The effects of sodium chloride or ammonium chloride on urolithic potential in rabbits
	36. <i>Goloni et al.</i> : Alkalinization of urine in dog with ammonium urate urolith: case report
	37. <i>Böswald et al.</i> : Observation about phosphorus and protein supply in cats and dogs prior diagnosis of chronic renal insufficiency
	38. <i>Leriche et al.</i> : Assessment of a new high protein – low carbohydrate diet in dogs with chronic gastrointestinal disorders
	39. <i>André et al.</i> : Weight loss with a high-protein diet allows the recovery of optimal body composition and improves insulin sensitivity in obese cats
	40. <i>Blanchard and Gardet</i> : Case report Post-prandial hypoglycemia in a Yorkshire dog resolved by a very low-starch diet
	41. <i>Anturaniemi et al.</i> : Blood biochemistry and haematology profiles between raw and dry food diet fed Staffordshire bull terriers
	42. <i>Uusitalo et al.</i> : Dietary fats are associated with the risk of owner-reported epilepsy among Finnish pet dogs
	43. <i>Bjørnvad et al.</i> : Evaluation of Dual Energy X-ray Absorptiometry precision and effect of positioning
	44. <i>Siebert et al.</i> : About the perceived nutritional knowledge of veterinarians and students in Germany

	<b>Friday, Sept. 16<sup>th</sup></b>
10:30 – 11:30	<b>Session 6: Fibre &amp; Starch</b>
	45. <i>Hoedtke et al.</i> : Influence of varying factors on the precision of silage particle size determination by a forage particle separator
	46. <i>Hoedtke et al.</i> : Mineral contents in grass silages in dependence of origin and harvesting periods
	47. <i>Hoedtke et al.</i> : Cadmium and lead contents in grass silages of different origin and harvesting periods
	48. <i>Sievers et al.</i> : Intake and digestibility of whole plant wheat silage (WPWS) as roughage for pregnant sows – chances for a concept enabling ad libitum feeding?
	49. <i>Hoedtke et al.</i> : Effect of ensiling of two tobacco ( <i>Nicotiana tabacum</i> ) cultivars with and without additives on fermentation quality and the amino acid profile
	50. <i>Kölln et al.</i> : Case report: Esophageal obstruction in three runner ducks due to feeding of lucerne meal pellets
	51. <i>von und zur Mühlen et al.</i> : Amounts of roughage consumed when offered additionally to compound feed and effects on gastric health in pigs at slaughter
	52. <i>Visscher</i> : Case report: Interaction of an incorrect milk yield measurement, dosing of concentrate feeding and lactation curve in a high producing dairy herd
	53. <i>Musco et al.</i> : <i>In vivo</i> and <i>in vitro</i> starch digestion, glucose and insulin response in pig
10:30 – 11:30	<b>Session 7: Feed additives</b>
	54. <i>Fusi et al.</i> : Effect of <i>Lactobacillus acidophilus</i> strain supplementation on nutritional status and faecal quality in two canine breeds
	55. <i>Musco et al.</i> : <i>In vitro</i> evaluation of <i>Saccharomyces cerevisiae</i> cell walls fermentability
	56. <i>Ortiz et al.</i> : Supplementation of <i>Bacillus amyloliquefaciens</i> CECT 5940 based probiotic reduces <i>Salmonella</i> spp. colonization in broiler chickens
	57. <i>Pinna et al.</i> : <i>In vitro</i> evaluation of the effect of <i>Yucca schidigera</i> and chestnut tannins on composition and metabolism of canine and feline fecal microbiota
	58. <i>Engler et al.</i> : Use of a dry grape extract to improve carcass quality in meat ducks
	59. <i>Kölln et al.</i> : Influences of NSP-degrading enzymes in broilers' diets with different grinding intensities on performance, excreta / litter quality and foot pad health
	60. <i>Bachmann et al.</i> : Impact of alpha-amylase supplementation on energy balance and performance of high-yielding dairy cows on moderate starch feeding
	61. <i>Kierończyk et al.</i> : The effect of nisin on growth performance and selected blood parameters of broiler chickens
	62. <i>Papadopoulos et al.</i> : Effects of lysolecithin supplementation in broilers' diets on performance, digestibility and mucosal morphology
	63. <i>Schiel et al.</i> : Influences of different dietary levels of mannan-degrading enzymes on performance, digesta/excreta/litter quality, foot pad health as well as on a blood parameter in broilers
10:30 – 11:30	<b>Session 8: Energy requirements &amp; Growth performance</b>
	64. <i>Divol and Priymenko</i> : Maintenance energy requirements of pet dogs in France: determination of allometric equation
	65. <i>Kurosad et al.</i> : Impact of food quality on the consumption curve and energy intake of cats kept in a group
	66. <i>Casini et al.</i> : The effect of creatine monohydrate supplementation on blood lactate and performance in agility dogs

	67. <i>Schmitt et al.</i> : Growth development of a Rhinoceros calf kept in a zoo
	68. <i>Fens et al.</i> : The effects of dietary starch gelatinization on growth performance and nutrient metabolism in amazon chicks ( <i>Amazona</i> spp.)
	69. <i>Fens et al.</i> : The effects of dietary nutrient density on growth and nutrient metabolism in macaw chicks ( <i>Ara</i> spp.)
13:30 – 14:30	<b>Session 9: Animal health and welfare</b>
	70. <i>Labalette et al.</i> : Plant extracts repellent against <i>Dermanyssus gallinae</i>
	71. <i>Labalette et al.</i> : Effect of <i>Melissa officinalis</i> on the sound level in broiler farm
	72. <i>Visscher and Kamphues</i> : Foot pad health and performance in broilers in the context of floor design, contact intensity to excreta and antibiotic treatment under identical feeding conditions
	73. <i>Saliu et al.</i> : Literature review: Spread of ESBL-producing bacteria throughout the poultry production pyramid
	74. <i>Miesorski et al.</i> : Suckling behaviour of artificially fed neonate calves depending on different feeding techniques and drinking amounts
	75. <i>Petersen and Wolf</i> : Investigation into selective feed intake behavior of dairy cows feeding a TMR
13:30 – 14:30	<b>Session 10: Proteins &amp; Lipids</b>
	76. <i>Oguz et al.</i> : The effects of using margarine as a energy source in the laying hen diets on feed consumption, feed conversion ratio, egg production, egg quality and some blood parameters
	77. <i>Mößeler et al.</i> : Effects of exocrine pancreatic insufficiency on blood lipids – studies in juvenile pancreatic duct ligated pigs
	78. <i>Jeusette et al.</i> : Dietary chitosan does not decrease fat digestibility in adult healthy cats when fed a moderate fat diet
	79. <i>Corbee and Goffin</i> : Plasma levels of EPA and DHA administered (single dose) by soft gel capsule compared with liquid fish oil and enriched kibble in dogs
	80. <i>Borgelt et al.</i> : Malassimilation of an alpaca cria ( <i>Vicugna pacos</i> ) – a case report
	81. <i>Röhe et al.</i> : Effect of feeding differently processed peas on jejunal morphology and glucose transport in broilers
	82. <i>Abd El-Wahab et al.</i> : Litter quality and foot pad health in broilers fed different dietary protein sources
	83. <i>Heuermann et al.</i> : High grinding intensity for soybean products – effects on protein digestibility, performance, excreta composition and foot pad health of broilers?
	84. <i>Kurosad et al.</i> : Apparent digestibility of protein in two dry pet foods with different animal protein origin influences blood level of selected amino acids in dogs
	85. <i>Nery et al.</i> : Preliminary results on TLR mRNA expression in intestinal mucosa samples of poultry fed <i>Tenebrio molitor</i> meal
	86. <i>Kierończyk et al.</i> : Insects as an alternative for commercial aroma additives in dog nutrition – preliminary data
	87. <i>Kriesten et al.</i> : Analysis of chitin from <i>Hermetia illucens</i> larvae by high-performance anion-exchange chromatography with pulsed amperometric detection (HPAEC-PAD)
	88. <i>Pagani et al.</i> : Veterinary practitioners perception on insects as protein source for dogs and cat