Poster Session – Tuesday, 24 July 2018

Advances in Silage Research

TU-1: Application of opto-chemical sensing technology for measuring oxygen in the gas atmosphere of grass-silage during fermentation and under aerobic stress conditions
R. Resch, M. Tscherner, M. Schweiger, S. Köstler

TU-2: Can lucerne silage replace grass silage in Nordic climate?
A. Sairanen, A. Palmio

TU-3: Cutting herbage PM or AM and subsequent effects on silage quality
U. Wyss

TU-4: Development of a preservative for moist hay to extend the hay baling window
S. Rahn, G. Marley

TU-5: Different models of laboratory mini-silos for the study of the fermentation of Lucerne silage
L. C. Solórzano, L. L. Solórzano, A. A. Rodríguez

TU-6: Evaluation of a new aerobic preservation solution for high moisture hay
A. Palmonari, D. Cavallini, A. Formigoni, E. Chevaux

TU-7: Extension of the biological relevance of the Rostock Fermentation Test by curve fitting and interpretation
A. Zeyner, S. Hoedtke, S.D. Martens, O. Steinhöfel, M. Wensch-Dorendorf

TU-8: How do time of fermentation and lactic acid bacteria inoculation influence microbial succession during ensiling?
P. Drouin, F. Chaucheyras

TU-9: Microbial ecology, fermentation, and aerobic stability of conventional and BMR corn hybrids ensiled at high moisture with or without a homo and hetero-fermentative inoculant
J. J. Romero, J. Park, Y. Joo, Y. Zhao, M. A. Balseca-Paredes, E. Gutierrez-Rodriguez, M. S. Castillo

TU-10: Prediction curve for production of silage effluent based on raw materials dry matter content
M.D. Megías, J.A. Cano, M. Valverde, J. Madrid, A. Martínez-Teruel, S. Martínez, M.F. Hernández

TU-11: Relations between silage composition, its metabolome and preference shown by goats
R. Scherer, K. Gerlach, K.-H. Südekum

TU-12: Screening of traditional and novel spring maize genotypes for quality silage production
N. Khan, N. A. Khan

TU-13: The effect of bacterial inoculant and packing density on corn silage quality and safety
G. Copani, K.A. Bryan, N.G. Nielsen, K.L. Witt, O. Queiroz, F. Ghilardelli, F. Masoero, A. Gallo

Economic Issues

TU-14: Oxidative loss of dry matter during storage of grass silage in bunker silos on livestock farms
D.R. Davies, J.M. Wilkinson

Miscellaneous

TU-15: Changes in pH and chemical composition of fungi-treated wheat straw, stored anaerobically, with or without additives
L. Mao, A.S.M. Sonnenberg, W.H. Hendriks, J.W. Cone

TU-16: Chemical composition of silages produced in Mecklenburg-Western Pomerania
S. Hoedtke, S. Milhareck, M. Dunker

TU-17: Determination of the fermentation characteristics and nutritive value of mixed alfalfa and sweet corn stalk silages ensiled at six ratios
M. Wang, Z. Wu, Z. Yu

TU-18: Fermentative profile, microbial and chemical characteristics and aerobic stability of whole crop soybean silage affected by the stage of growth and inoculation with lactic acid bacteria
E. Tabacco, L. Comino, A. Revello-Chion, G. Borreani

TU-19: Grass silage for biorefinery – Effects of type of additive and separation method
M. Rinne, P. Timonen, T. Stefanski, M. Franco, M. Vainio, E. Winquist, M. Siika-aho

TU-20: Influence of ensiling and thermal treatment of peas on their feed value
C. Kuhnitzsch, S.D. Martens, O. Steinhöfel, M. Bachmann, M. Bochnia, A. Zeyner

TU-21: Laboratory silo type and inoculation effects on nutritional composition, fermentation, and bacterial and fungal communities of oat silage
J.J. Romero, Y. Zhao, M. A. Balseca-Paredes, Y. Joo, J. Park, F. Tiezzi, E. Gutierrez-Rodriguez, M.S. Castillo

TU-22: Nutritive value and fermentation characteristics of sweet sorghum silage
J.M.B. Vendramini, J. Erickson, M.L.A. Silveira, A.D. Aguiar, J.M.D. Sanchez, W.L. da Silva, H.M. da Silva

TU-23: Reducing hydrocyanic acid in roots and leaves of cassava by ensiling
J.G. Zhang, L. Zhu

TU-24: True protein conservation in a forage legume comparing drying to ensiling
S.D. Martens, E. Thate, A. Zeyner, O. Steinhöfel

Silage Technology and Management

TU-25: 1968 – 2018: 50 years Silopress. A German idea for conservation and storage of agricultural products in large plastic bags: a review
W. Büscher, C. Maack, O. Steinhöfel, E. Kaiser, U. Weber, G. Weber, H. Auerbach

TU-26: A pH index as a method to identify aerobic deterioration in farm maize silage
G. Gervásio, I. De Oliveira, E. Tabacco, F. Ferrero, G. Borreani, T. Bernardes

TU-27: A survey of maize hybrids for whole-plant silage in a hot climate
M. Bastos, L. Lima, J. Gusmão, M. Cardoso, C. Avila, T. Bernardes

TU-28: An interpretation of gas pressure dynamics based on the observation of multi-parameter during silage production
G. Shan, M. Li, H. Zhou, W. Buescher, C. Maack, A. Lipski, D. Grantz, Y. Sun, Q. Cheng

TU-29: Assessment of on-farm NIRS methodologies for predicting grass silage quality; A comparison of face measurements with cored mixed sample analysis
D.R. Davies, G.K. Davies, K. Le Cocq

TU-30: Baled whole crop wheat silage: Harvesting losses, bale density and silage quality
A. Johansen, A.K. Bakken, A. Langerud, R. Borchsenius, S. Heggset, A. Haugnes

TU-31: Characteristics of *Pediococcus pentosaceus* Q6 isolated from *Elymus nutans* growing on the Tibetan Plateau and its application for silage preparation at low temperature
D.M. Xu, W.C. Ke, P. Zhang, X.S. Guo

TU-32: Comparison of whole crop triticale-pea, triticale-grass and triticale-oat blends as forage sources at six different phenological stages
Sz. Orosz, J. Kruppa, J. Kruppa Junior, A. Halász, D. Szemethy, R. Hoffmann, G. Bencze, Z. Futó

TU-33: Construction and calibration of a hand penetrometer to estimate crop density at the silo face
C. Maack, B. Hilgers, W. Büscher

TU-34: Determination of water-soluble carbohydrates in forages – comparison of methods
K. Weiß, M. Alt, G. Sommer, B. Kroschewski, W. Richardt, R. Wein, C. Kalzendorf

TU-35: Development of calibrations for hand-held NIRs instrumentation to measure silage density from the open face of grass silage clamps
D.R. Davies, G.K. Davies, C. Piotrowski

TU-36: Dry matter losses and nutrient changes in grass and maize silages stored in bunker silos
B. Köhler, F. Taube, J. Ostertag, S. Thurner, C. Kluß, H. Spiekers

TU-37: Effect of early feed out and additive treatment onto maize silage
A. Milimonka, G. Glenz, G. Römer, T. Ohlmann, W. Richardt

TU-38: Effect of ensiling on fermentation profile and corn silage processing score in whole-plant corn
M.C.N. Agarussi, V.P. Silva, W.I. Silva Filho, D.Vyas, A.T. Adesogan, L.F. Ferraretto

TU-39: Effect of length of storage and sodium benzoate use on in-vitro parameters of sorghum grain silages
W.P. Santos, G.G.S. Salvati, L.H.C. Santos, V.C. Gritti, M.A. Fioravanti, M. Natera, B.A.V. Arthur, J.L.P. Daniel, L.G. Nussio

TU-40: Effect of maturity at harvest on fermentation profile and starch digestibility of corn silage hybrids in Florida
K.G. Arriola, D. Vyas, T. Fernandes, F.X. Amaro, I. Ogunade, Y. Jiang, D.H. Kim, M.C.N. Agarussi, V.P. Silva, A.A. Pech-Cervantes, L.F. Ferraretto, A.T. Adesogan

TU-41: Effect of shredding on silage density and the fermentation characteristics
M. B. Samarasinghe, M. Larsen, M. Johansen, M. R. Weisbjerg

TU-42: Effect of shredlage maize harvesting technology on fermentation parameters, packing densities and aerobic stability of maize crop ensiled in bunker silos
K. Huenting, M. Schneider, H. Spiekers, M. Pries

TU-43: Effects of different moisture levels on fermentation quality and aerobic stability of sweet potato residue TMR silage
P. Tian, D. Niu, D. Jiang, R. Li, F. Yang, C. Xu

TU-44: Effects of lactic acid bacteria inoculants on fermentation quality and aerobic stability of sweet potato residue TMR silage
D. Jiang, D. Niu, P. Tian, R. Li, F. Yang, C. Xu

TU-45: Effects of moisture and *L. buchneri* on the conservation and ruminal degradability of high moisture corn and snaplage
R.M. Santos, F.A. Jacovaci, T. Garcia-Diaz, K.C. Scheidt, C.C. Jobim, J.L.P. Daniel

TU-46: Effects of processing, moisture and length of storage on the fermentative losses and ruminal degradability of reconstituted corn grain silage
A.L.M. Gomes, J.L. Bueno, F.A. Jacovaci, D.C. Bolson, C.C. Jobim, J.L.P. Daniel

TU-47: Effects of relocation and microbial inoculants on microbial population and aerobic stability of corn silage
A.C. do Rêgo, R.C.A. Mendonça, M.S. Souza, R.I.R. Santos M. F.N. Domingues, C. Faturi, T.F. Bernardes, T.C. da Silva

TU-48: Effects of stage of maturity, rollers and chopping length on starch availability, losses and aerobic stability of maize (*Zea mays* L.) silage
J. Thaysen, H.-G.Gerighausen, C. Maack, W. Richardt, A. Ewen, K. Kellner, H.-P. Sierts

TU-49: Estimation of ruminal gas production and utilisable crude protein at the duodenum from native, ensiled and ensiled + toasted peas and field beans
M. Bachmann, C. Kuhnitzsch, S.D. Martens, M. Wensch-Dorendorf, O. Steinhöfel, A. Zeyner

TU-50: Fermentation and nutritional quality of high moisture alfalfa leaf and stem silage
M.C. Sikora, R.D. Hatfield, K.F. Kalscheur

TU-51: Fermentation quality of mixed silage of corn stover, broccoli residues and apple pomace
J. Wang, X. Yuan, A. Wen, T. Shao

TU-52: Field survey on silo dimensions, silage characteristics, and its effect on temperature and density of grass silage in the Netherlands
C. Sauzet, V. Demey, R. Ebbers, C. Koorn

TU-53: Field-related quality management system for grass silage production
J. Pickert, D. Brüning, G. Weise

TU-54: Harvest window: comparison of whole crop rye and whole crop triticale in an early cut system
Sz. Orosz, J. Kruppa, J. Kruppa Junior, D. Szemethy, E. Piszkerné Fülöp, Z. Futó, R. Hoffmann

TU-55: Identifying maize hybrids with optimal traits for snaplage
J. Gusmão, L. Lima, M. Bastos, M. Cardoso, R. Binda, I. Carvalho, T.F. Bernardes

TU-56: Impacts of feed-out speed, days after silo opening and surface density on spoilage of silage in the exposed face peripheral area of corn silage piles
Y. Okatsu, N. Swanepoel, H. Gauthier, P.H. Robinson

TU-57: Influence of plant population and maturity, microbial inoculation and ensiling time on fermentation profile, nitrogen fractions and starch digestibility in earlage
L.F. Ferraretto, R.D. Shaver, J.G. Lauer, L.H. Brown, J.P. Kennicker, R.J. Schmidt, D.M. Taysom

TU-58: Maize silage in South Africa: Composition, compaction, top layer losses and aerobic stability
R. Meeske, R. Venter

TU-59: Microbial inoculant, particle size, and storage time effects on crude protein content and concentration of ammonia nitrogen and soluble protein of reconstituted sorghum grain silage
D.O. Sousa, M.A. Arcari, L.G. Nussio, L.J. Mari

TU-60: Mixed silages of fodder beet and different feedstuffs: quality and nutritive value
J. Latré, E. Dupon, E. Wambacq, J. De Boever, G. Haesaert

TU-61: On-farm evaluation of maize silage: Is it possible to estimate dry matter and methane losses?
S. Ohl, M. Leinker, E. Nacke, E. Hartung

TU-62: Relationship among economic and nutritional parameters in flint and semi-dent corn silage
J.L. Monge, F. Bargo, E. Giugge, G. Clemente, D. Combs, F. Clemente

TU-63: Relationship between economic and nutritional variables in alfalfa silage
E. Giugge, J.L. Monge, F. Bargo, G. Clemente, F. Clemente, D. Combs

TU-64: Replacement of polyethylene film with Silostop oxygen barrier film on the nutritive value of corn silage for finishing beef cattle
J. Machado, T. García-Diaz, K.C. Scheidt, M.P. Osmari, C. Banchero, J.M. Wilkinson, C.C. Jobim, J.L.P. Daniel

TU-65: Response to total mixed ration stabilizers depends on feed quality
M. Rinne, M. Franco, K. Kuoppala, A. Seppälä, T. Jalava

TU-66: Silage safety - Preventing serious injuries and fatalities
K. Bolsen, R. Bolsen, P. Schmidt

TU-67: Technologies applied to the production of corn silage in Brazilian capital of milk during nine years
M.S. Dalle Carbonare, R.P. de Mello

TU-68: The effect of processing of Virginia fanpetals (*Sida hermaphrodita* Rusby L.) biomass harvested at different dates on fermentation quality
C. Purwin, M. Fijałkowska, Z. Nogalski, M. Starczewski, P. Żukowski, Z. Antoszkiewicz, J. Kaliniewicz

TU-69: The practical use of a model to predict the wilting time of grass
D. Brüning, J. Pickert, T. Hoffmann

TU-70: The use of quebracho condensed tannins as additive for rehydrated corn grain silage: effects on fermentation pattern and aerobic stability
A.V.I. Bueno, C.C. Jobim, J.L.P. Daniel, M. Gierus

TU-71: Three-dimensional visualization of bulk density and oxygen-induced temperature distributions in silage using a stepwise-profiling penetrometer
Q. Cheng, Y. Sun, W. Buescher, C. Maack, M. Li, H. Zhou, K.H. Jungbluth

TU-72: Wet ensiling of sugar beets with or without ensiling additive
M.R. Weisbjerg, U. Bedenk, A.L.F. Hellwing, M. Larsen, E. Hilscher

Wednesday, 25 July 2018

Emissions and Volatile Organic Compounds

WE-73: Effect of wilting and *Lactobacillus buchneri* on the formation of volatile organic compounds in oat silage
A.L.M. Gomes, D.C. Bolson, F.A. Jacovaci, L.G. Nussio, C.C. Jobim, J.L.P. Daniel

WE-74: Formation of climate relevant gases during the ensiling process
A.J. Schmithausen, K. Gerlach, M. Trimborn, K.-H. Südekum, W. Büscher

WE-75: Nitrate degradation and gas formation in silages
M. Knicky, F. Eide, B. Gertzell

WE-76: Sugar beets with varying ensiling partners: losses and volatile organic compounds
F. Kindermann, S.D. Martens, U. Bedenk, K. Weiß, A. Zeyner, O. Steinhöfel

Silage Additives

WE-77: Action of lactic acid bacteria used as silage inoculants on the digestive tract of ruminants
M. Zopollatto, A.S. Neto, J.L.P. Daniel, L.G. Nussio

WE-78: Additive type and composition affect fermentation pattern, yeast count, aerobic stability and formation of volatile organic compounds in whole-crop rye silage
H. Auerbach, K. Weiss, P. Theobald

WE-79: Additives with Lactobacillus spp. mix and cellulose enzymes affect the chemical quality and in situ ruminal degradability of whole –plant corn silage
J.L. Monge, G. Clemente, J. Petri

WE-80: Aerobic stability of crimped wheat grain manipulated by additive treatments detected using different methods
M. Franco, T. Stefanski, T. Jalava, K. Kuoppala, A. Huuskonen, M. Rinne

WE-81: An evaluation of monopropionine as chemical additive to improve aerobic stability of corn silage
G. Borreani, F. Ferrero, E. Tabacco

WE-82: Biological and chemical additives maintain nutritive value of grass silage during air exposure
H. Auerbach, E. Nadeau

WE-83: Carrot by-product fermentation quality and aerobic stability could be modified with silage additives
M. Franco, T. Jalava, E. Järvenpää, M. Kahala, M. Rinne

WE-84: Changes in the chemical composition of sugarcane silages treated with microbial and chemical additives
T.C. da Silva, O.G. Pereira, L. Kung Jr., J.P.S. Roseira., F.X. Amaro, R.M. Martins, L.D. da Silva, K.G. Ribeiro

WE-85: Combination of chemical additives or microbial inoculants affects aerobic stability of whole corn silage differently
B.A.V. Arthur, D.O. Sousa, W.P. Santos, G.G.S. Salvati, G.H. Francetto, J.M. Silveira, M.A.O. Fioravanti, V.C. Gritti, K.S. Oliveira, L.G. Nussio

WE-86: Effect of different additives and their interactions on alfalfa silage quality
D. Li, K. Ni, Y. Zhang, Y. Lin, F. Yang

WE-87: Effect of chemical additives on silage composition, aerobic stability and feed intake of maize silage depending on aerobic storage
D. Brüning, K. Gerlach, K. Weiß, K.-H. Südekum

WE-88: Effect of chemical additives, lactic acid bacteria and their combinations on the fermentation of low dry matter crops
C. Kalzendorf, A. Milimonka

WE-89: Effect of different inocula on aerobic stability of corn silage
G. Borreani, F. Ferrero, M.Coppa, V. Demey, E. Tabacco

WE-90: Effect of length of ensiling on fermentation characteristics, aerobic stability and structural microexamination of the grain in corn silages treated with bacterial inocula in a tropical climate
A.A. Rodríguez, J. Suárez, P.F. Randel, L.C. Solórzano

WE-91: Effect of microbial inoculant and fermentation period on the fermentation profile of silage of rehydrated corn and sorghum grains
O.G. Pereira, J.O. Alves, F.E. Pimentel, S.D. Simão, J.P.S. Roseira, M.C.N. Agarussi, V.P. Silva, K.G. Ribeiro

WE-92: Effect of microbial inoculant, particle size, and storage length on chemical composition and starch degradability of rehydrated sorghum grain silage
D.O. Sousa, M.A. Arcari, L.G. Nussio, L.J. Mari

WE-93: Effect of sealing strategies and sampling site on fermentation profile of corn silage
K.S. Oliveira, J.P.P. Winckler, D.O. Sousa, V.C. Gritti, J.M. Silveira, W.P. Santos, J.L.P. Daniel, L.G. Nussio

WE-94: Effect of silage additives on the fermentation and the protein quality of clover-grass mixture
M. Gallo, L. Rajcakova, M. Polacikova, R. Mlynar

WE-95: Effects of additive, herbage dry matter concentration and clostridia inoculation on fermentation quality of a red clover-grass silage
W. König, E. König, K. Elo, A. Vanhatalo, S. Jaakkola

WE-96: Effects of storage conditions and additive type on fermentation quality, aerobic stability and nutritional value of grass-clover silage
H. Auerbach, E. Nadeau

WE-97: Effects of storage time and silage additives on aerobic stability of maize silages
K. Huenting, T. Aymanns, M. Pries

WE-98: Effects of *Lactobacillus buchneri* PJB/1 alone and in combination with *Lactobacillus plantarum* MTD-1 on the bacterial community composition and aerobic stability of high moisture corn stored with or without air stress
E.B. da Silva, S.A. Polukis, R.M. Savage, M.L. Smith, R.N. Mester, L. Kung Jr.

WE-99: Effects of a chemical additive on the microbial community composition and aerobic stability of short-term ensiled corn silage
E.B. da Silva, R.M. Savage, S.A. Polukis, M.L. Smith, R.N. Mester, L. Kung Jr.

WE-100: Effects of a chemical additive on the microbial community composition, fermentation, and aerobic stability of corn silage stored with or without air stress
E.B. da Silva, R.M. Savage, S.A. Polukis, M.L. Smith, R.N. Mester, L. Kung Jr.

WE-101: Effects of a homolactic inoculant on fermentation and aerobic stability of alfalfa silage
D.K. Combs, D.J. Undersander, R.J. Schmidt, R.C. Charley

WE-102: Effects of a mixture of lactic acid bacteria containing *Lactobacillus diolivorans* on aerobic stability of grass silage after short time of storage
J. Thaysen, E. Kramer

WE-103: Effects of different formic acid/salt containing additives on stabilisation of TMRs
G. Glenz, A. Milimonka, G. Römer, R. Beck, T. Ohlmann

WE-104: Effects of four organic acids known as key intermediates in citric acid cycle on fermentation quality of lucerne silage
W.C. Ke, D.M. Xu, P. Zhang, F.H. Li, M.N. Shah, X.S. Guo

WE-105: Effects of intermediate storage and additive use on the formation of volatile organic compounds in sugar beet pulp silage pressed in plastic bags
H. Auerbach, K. Weiss

WE-106: Effects of lactic acid bacteria isolated from cow rumen fluid and feces on quality and in vitro digestibility of alfalfa silage
L. Guo, D. Yao, D. Li, F. Yang

WE-107: Effects of molasses and exogenous enzymes on the fermentation, aerobic stability and nutrient composition of ensiled maize cob and potato hash mixtures
R.S. Thomas, C. Ncobela, R.J.G. Kgopong, K. Mphofu, P. Sebothoma, O.G Makgothi, B.D. Nkosi

WE-108: Effects of sucrose and lactic acid bacteria inoculant on quality and characteristics of protein fractions of mulberry silage
X.K. Wang, Y. Wang, Q. Zhang, X.J. Liu, F.Y. Yang

WE-109: Effects of three strains of heterofermentative bacteria on the conservation of sugarcane silage
A.L.M. Gomes, M.P. Osmari, J. Machado, A.C.O. Poppi, L.J. Mari, E. Chevaux, L.G. Nussio, C.C. Jobim, J.L.P. Daniel

WE-110: Effects of viable lactic acid bacteria inoculants on perennial ryegrass silage fermentation and aerobic stability
V. Vrotniakiene, J. Jatkauskas

WE-111: Ensiling of crimped faba beans decreased selected antinutritional factors
M. Rinne, K. Manni, K. Kuoppala, T. Niemi, E. Koivunen, M. Kahala, T. Jalava

WE-112: Ensiling wet lucerne with biological or formic acid based silage additives
A. Seppälä, S. Hoedtke, P. Wolf

WE-113: Evaluation of silage additives and fermentation characteristics of maize forage using laboratory and field scale silo
J. Jatkauskas, V. Vrotniakiene, K.L. Witt, N.G. Nielsen, R. Stoskus

WE-114: Fermentation and aerobic stability of grass and grass-legume silages ensiled for 14 days
G. Copani, N. Milora, K.A. Bryan, N.G. Nielsen, K.L. Witt

WE-115: Fermentation profile and aerobic stability of sugar cane silage inoculated with *Lactobacillus buchneri* NCIMB 40788
J. Peiretti, J.A. Navarro.

WE-116: Fermentation quality and *in vitro* gas production of corn stover silage inoculated with or without *Lactobacillus plantarum* and *Enterococcus faecium*
G. Guo, W. J. Huo, Q. Liu, C. Shen, Y.X. Wang, Q.F. Xu, S.L. Zhang

WE-117: Fermentation suitability of Moso bamboo silage prepared with sake cake and lactic acid bacteria
H. Kikukawa, Y. Cai

WE-118: First estimation and validation of a new model to predict dry matter loss based on temperature changes – II. Validation of maize mini silo and big scale silage
K.L. Witt , J.N. Joergensen, N.G. Nielsen, K.A. Bryan, G. Copani, S. Pires, V. Vrotniakiene, J. Jatkauskas

WE-119: First estimation and validation of a new model to predict dry matter loss based on temperature changes – III. Validation of model in a crop with low ensilability
K.L. Witt, J.N. Joergensen, N.G. Nielsen, K.A. Bryan, G. Copani, S. Pires, V. Vrotniakiene, J. Jatkauskas

WE-120: First estimation and validation of a new model to predict dry matter loss based on temperature changes – IV. Validation of model in a short fermentation regime
K.L. Witt, J.N. Joergensen, N.G. Nielsen, K.A. Bryan, G. Copani, S. Pires, V. Vrotniakiene, J. Jatkauskas

WE-121: Grass silage fermentation characteristics and aerobic stability as affected by type of silage additive
E. Nadeau, J. Jakobsson, H. Auerbach

WE-122: Growth of lactic acid bacteria in the presence of various tannins
U. Korn, B. Pieper

WE-123: Identification of lactic acid bacteria isolated from mulberry (*Morus alba* L.) to improve tannin degradation and silage quality
Y.C. Zhang, D.X. Li, X.K. Wang, Y.L. Lin, F.Y. Yang

WE-124: Impact of various silage additives on propylene glycol content of grass silages
N. Lau, M. Huenerberg, E. Kramer, J. Hummel

WE-125: Influence of chemical pesticides on the survival of lactic acid bacteria in silage inoculants
A.C.O. Poppi, M.P. Osmari, G. Lazzari, E.C. Poppi, L.J. Mari, C.C. Jobim, J.L.P. Daniel

WE-126: Inoculant effects on mycotoxins, fermentation characteristics, and nutritive value of bermudagrass silage
J.M.B. Vendramini, J.C.B. Dubeux Jr., L.E. Sollenberger, F. Leite de Oliveira, F. Kuhawara, U. Cecato, C. V. Soares Filho, J.M.D. Sanchez, J.K. Yarborough

WE-127: *Lactobacillus hilgardii* as inoculant for corn silage in Italy
F. Ferrero, E. Tabacco, S. Piano, V. Demey, G. Borreani

WE-128: *Lactobacillus plantarum* TAK 59 as a silage additive to improve the silage quality
A. Olt, E. Songisepp, M. Ots

WE-129: Long or short shredded corn silage with additives - differences in fermentation quality parameters
A. Jilg

WE-130: Silage fermentation of sugarcane plants prepared in Mozambique
Y. Cai, S. Yamasaki, D. Nguluve, B. Tinga, A. Fumo, T. Oya

WE-131: Sugar-rich grass: effect of two inoculants on silage fermentation characteristics and nutritional value
E. Wambacq, J.P. Latré, P. Vermeir, G. Haesaert

WE-132: Temperature track and spoilage microbes affected by different additives in wet hay
G. Römer, G. Glenz, A. Milimonka

WE-133: The aerobic stability of avocado (*Persia Americana*) pulp silage treated with microbial additives
B.D. Nkosi, R.S. Thomas, T. Langa, M.M. Seshoka, R. Meeske, J. van Niekerk

WE-134: The effect of *Lactobacillus buchneri* and *Pediococcus acidilactici* inoculants on pH and microbial population of wilted alfalfa silage
M. Rezaeian, N. Nafarieh

WE-135: The effect of adding fibrolytic enzymes and lactic acid bacteria on fermentation quality and *in vitro* digestibility of napier grass silage
S. Bureenok, S. Langsoumechai, N. Pitiwittayakul, C. Yuangklang, K. Vasupen, B. Saenmahayak

WE-136: The effect of cellulase and/or *Lactobacillus plantarum* on fermentation quality of napier grass silage
X.J. Yuan, S.T. Desta, J.F. Li, Z.H. Dong, T. Shao

WE-137: The effect of cellulolytic bacteria isolated from Tibetan yak (*Bos Grunniens*) on fermentation quality and cellulose convertibility of *Pennisetum sinese* silage
J.F. Li, X.J. Yuan, S.T. Desta, Z.H. Dong, T. Shao

WE-138: The effect of inoculation on fermentation characteristics and nutritional value of grass silage at farm scale
C. Sauzet, V. Demey, R. Ebbers, C. Koorn

WE-139: The effect of two heterofermentative bacteria (*L. hilgardii* CNCM I-4785 and *L. buchneri* NCIMB 40788) and their combination on fermentation and aerobic stability of corn silage at different opening times
J.P. Szucs, A. Suli, V. Demey

WE-140: The effects of inoculation of grass with either homo-fermentative or hetero-fermentative lactic acid bacteria on silage quality, diurnal variation in rumen pH, lactic and volatile fatty acids
A. King, D.R. Davies, J.A. Huntington

WE-141: Use of straw like absorbent to ensiling lettuce and broccoli by-products
M.D. Megías, I. Fernández, F.J Cánovas, M. Valverde

Thursday, 26 July 2018

Fermented Feeds for Non-Ruminants

TH-142: Effect of lactic acid bacteria on the reduction of phytate-phosphorus in fermented liquid feed – a contribution to ecology?
E. Kramer, N. Lau

TH-143: Ensiling features of thistle (*Cynara cardunculus* L.) to be used for biogas production
F. Ferrero, E. Tabacco, G. Borreani

TH-144: Impact of cultivar, maturity stage and storage period on fermentation quality of wet sorghum seeds
R. Resch, M. Schweiger, R. Schmied

TH-145: Roughage based liquid diets for pregnant sows – Harvest, post-shredding and feeding management of whole-plant silages (wheat and maize)
P. Ebertz, A. J. Schmithausen, S. Schulz, C. Visscher, J. Kamphues, R. Hölscher, W. Büscher

TH-146: Roughage based liquid diets for pregnant sows? Apparent digestibility and nutritive value of whole plant silages (wheat and maize)
S. Schulz, C. Visscher, P. Ebertz, W. Büscher, R. Hölscher, J. Kamphues

Microbiology

TH-147: A survey of silage hygiene on Wisconsin dairy farms
M. Western, P. Hoffman, M. Windle

TH-148: Aerobic spoilage of grass silage: *Listeria* and forage quality
J. McFadzean, K. Le Cocq, D.R. Davies , B. Brown, M. van der Giezen, C.J. Hodgson, M.R.F. Lee , J.A.J. Dungait

TH-149: An attempt to study suppression of feruloyl esterase activity in *Lactobacillus ultunensis* by presence of sugars
K. Mogodiniyai Kasmaei, D. Schlosser, H. Sträuber, S. Kleinsteuber

TH-150: Can *Fasciola hepatica* metacercariae survive ensiling and retain their viability?
B.C. John, D.R. Davies, D.J.L. Williams, J. Hodgkinson

TH-151: Characterisation of different yeast species from corn silage and their ability to degrade lactate
J. Zielke, B. Pieper

TH-152: Characterization of the microbial community in lucerne silages differing in fermentation quality
K. Kube, T. Hartinger, N. Gresner, K.-H. Südekum

TH-153: Effect of sealing strategies and sampling site on microbial communities of corn silage
V.C. Gritti, J.P.P. Winckler, B.A.V. Arthur, J.M. Silveira, G.G.S. Salvati, W.P. Santos, K.S. Oliveira, D.O. Sousa, J.L.P. Daniel, L.G. Nussio

TH-154: Identification of lactic acid bacteria isolated from *Stipa grandis* silage and native grass silage in Eurasian steppe
Y.L. Xue, L. Sun, C.S. Bai, M. Jia, J.J. Sun, G.M. Yin, S.B. Liu, Y.Y. Zhang, Q.Z. Sun

TH-155: Impact of inoculation with *Lactobacillus buchneri* and *Lactobacillus hilgardii* on bacterial and fungal communities during feed-out period of corn silage
P. Drouin, F. Chaucheyras

TH-156: Impact of plant biostimulants on maize forage and subsequent silage quality: A field experiment using mini-silos
A. Christou, C. Hodgson, T. Cogan, M. Gaffney, K. Le Cocq, D.R. Davies, M.R.F. Lee

TH-157: Influence of storage period on the quality of a maize silage
U. Wyss

TH-158: *In vitro* fermentation profiles of *Clostridia* at different ensiling pH
P. Drouin, N. Thorgreen

TH-159: *In vitro* screening of technical lignins for their antifungal activity against three molds and one yeast isolated from spoiled forage
D.C. Reyes, S.L. Annis, S.A. Rivera, D.S. Argyropoulos, J.J. Perry, C. Wu, S. Alparslan, D. Gomez, D. DePippo, M.S. Castillo, J.J. Romero

TH-160: Interaction between lactic acid bacteria and two species of the *Penicillium roqueforti* group: an *in vitro* and *in vivo* approach
E. Wambacq, K. Audenaert, M. Höfte, S. De Saeger, G. Haesaert

TH-161: Isolation and identification of lactic acid bacteria from fermented juice of tropical crops in Thailand
N. Pitiwittayakul, S. Bureenok

TH-162: Isolation and identification of lactic acid bacteria in sorghum silage
O.G. Pereira, R.M.A. Pinho, R.A. de Paula, J.P.S. Roseira, F.P. Evangelista, H.C. Mantovani

TH-163: Recovery and PCR-based characterization of *Listeria* strains from total mixed ration and maize silages with different silo management practices
E. Tabacco, D.M. Nucera, S. Piano, G. Borreani

TH-164: Selection of heterofermentative lactic acid bacteria in sugarcane silages
R.A. de Paula, O.G. Pereira, T.C. da Silva, K.G. Ribeiro, H. C. Mantovani, L. Kung Jr.

TH-165: Silage additives suppress fungal growth and mycotoxin formation in whole-crop rye silage exposed to air
H. Auerbach, P. Theobald

TH-166: The use of *Lactobacillus diolivorans* as silage inoculant
H. Schein, M. Hirz, M. Buchebner, W. Kramer

TH-167: Using molecular microbial ecology to define differential responses to the inoculation of barley silage
S. Xu, L. Duniere, W. Addah, B. Smiley, W. Rutherford, S. Qi, Y. Wang, T.A. McAllister

Silage Feeding and Utilization

TH-168: A data analysis on the effect of acetic acid on dry matter intake in dairy cattle
J.L.P. Daniel, C.C. Jobim, L.G. Nussio

TH-169: Corn silage (native vs. hybrid varieties) as forage to evaluate potential milk yield production in Mexico
M. Rosas Davila, L.E. Robles Jimenez, R. Montes de Oca, J. Osorio Avalos, A.J. Chay Canul, M. Gonzalez Ronquillo

TH-170: Digestion kinetics of neutral detergent fibre fraction of corn silages determined from *in vitro* gas production
P.R. Score, E. Margaria, Y. Sun, G.F. Schroeder, A. Zontini, M.A. Messman, J.R. Knapp, W. Hu

TH-171: Effect of differently conserved herbage on chemical composition of forages and nitrogen turnover in dairy cows
U. Wyss, C. Böttger, F. Dohme-Meier, K.-H. Südekum

TH-172: Effect of dry matter concentration and a chemical silage additive on fermentation quality of ensiled sugar beet pulp and preference shown by goats
K. Gerlach, L. Kampeter, M. Eklund, K.-H. Südekum

TH-173: Effect of maize hybrid and year on chemical composition and digestibility of nutrients
R. Loučka, V. Jambor, Y. Tyrolová, F. Jančík, P. Kubelková, A. Výborná, P. Homolka

TH-174: Effect of maize hybrids differing by maturity and endosperm type on digestibility of silage
R. Loučka, V. Jambor, P. Homolka, Y. Tyrolová, F. Jančík, V. Koukolová, P. Kubelková, A. Výborná

TH-175: Effects of plant species and ensiling conditions on the formation of biogenic amines in silage and the preference behaviour of ruminants
R. Scherer, K. Gerlach, J. Taubert, S. Adolph, K. Weiß, K.-H. Südekum

TH-176: Effects of plant species, ensiling conditions and storage duration on chemical composition and protein quality of lucerne and red clover silage
R. Scherer, K. Gerlach, K. Weiß, K.-H. Südekum

TH-177: Effects of two various chopping lengths and crop processing conditions of maize silage on silage quality, nutrient digestibility and performance of high yielding dairy cows
D. Kampf, L. Prokop, J. Thaysen, K. Kellner, E. Boll

TH-178: Ensilage characteristics of three tropical grasses fertilized with different animal manures, each harvested at four dates
P. Dele, B. Akinyemi, O. Okukenu, T. Amole, O. Sowande, A. Jolaosho, O. Arigbede, J. Olanite

TH-179: Effect of ensiling reconstituted corn grains with whole soybeans on the performance of finishing beef cattle
F.A. Jacovaci, D.C. Bolson, V.C. Gritti, K.C. Sheidt, B.S. Campos, J.L.P. Daniel, C.C. Jobim

TH-180: Improving nitrogen utilization of alfalfa protein by co-ensiling with red clover
Z. Dong, X. Yuan, J. Li, T. Shao

TH-181: *In vitro* ruminal fermentation of lucerne silages differing in nitrogen fractions and fermentation quality
T. Hartinger, N. Gresner, K.-H. Südekum

TH-182: Kinetics parameters of different purpose sorghum silages at second crop
A. Behling Neto, R.H.P. Reis, A.P.S. Carvalho, J.G. Abreu, L.S. Cabral, D.P. Sousa

TH-183: Profile of chemical quality of corn silage in the Brazilian milk capital
R.P. de Mello, M.S. Dalle Carbonare

TH-184: Relationship between length of cut and mean particle length in whole-plant corn silage at two types of forage harvesters
G.G.S. Salvati, W.P. Santos, J.M. Silveira, B.A.V., Arthur, L. Fachin, M. Fioravanti, L.G. Nussio

TH-185: Relationship of the chemical composition of corn silage to milk production
L.E. Robles Jiménez, M. Rosas Davila, J Osorio Avalos, O.A. Castelan Ortega, C. Palacios Riocerezo, M. Gonzalez Ronquillo

TH-186: Shredlage and its effect on particle size and digestibility
F. Jančík, R. Loučka, V. Jambor, P. Kubelková, A. Výborná, P. Homolka, Y. Tyrolová, V. Koukolová

TH-187: Silage fermentation of fresh and exposed corn stover
L. Sun, Z.J. Wang, G. Gentu, M.L. Hou, Y.L. Xue, F.J. Zhang, G.M. Yin, H.P. Zhao, Y.S. Jia, M. Jia, Y.M. Cai

TH-188: Silage preparation and fermentation quality of Napier grass treated with lactic acid bacteria and cellulase in Mozambique
S. Yamasaki, D. Nguluve, B. Tinga, T. Ohya, Y. Cai

TH-189: Substitution of soybean meal and cotton seed with whole crop soybean silage in dairy cow diets to increase feed self-sufficiency of dairy farms in Italy
L. Comino, A. Revello Chion, A. Zappino, E. Tabacco, G. Borreani

TH-190: Sugar beet-straw mixed silage and its effect on milk production and feed intake of dairy cows
B. Beeger, W. Junge, U. Bedenk, E. Stamer, L. Andersen

TH-191: The effect of additives (formic acid or molasses) on the protein composition of Virginia fanpetals (*Sida hermaphrodita* Rusby L.) silage
M. Fijałkowska, Z. Nogalski, Z. Antoszkiewicz, S. Kotlarczyk, K. Lipiński, C. Purwin

TH-192: The effect of technological factors on the concentrations of carotenoids and tocopherols in Virginia fanpetals (*Sida hermaphrodita*) herbage and silage
Z. Antoszkiewicz, M. Fijałkowska, M. Mazur-Kuśnirek, Z. Nogalski, C. Purwin

TH-193: The increment of iron solubility through ensiling soil contaminated grass and its effect on growing goats
S.D. Martens, J. Zentek, M. Spolders, O. Steinhöfel

TH-194: The use of maize straw as alternative substrate for biogas production
J. Winkelmann, M. Kurzbuch, E. Kramer

TH-195: Virginia fanpetals (*Sida hermaphrodita* Rusby L.) silage can be fed to young bulls
Z. Nogalski, C. Purwin, M. Fijałkowska, Z. Antoszkiewicz