

Poster Session of the XIX International Silage Conference

Wednesday, 9 August, 2023

Silage Microbiology and Biochemistry		
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MB-1	Effects of Soybean Density and Sowing Time on the Yield and the Quality of Mixed Silage in Corn-Soybean Strip Intercropping System	Qinyu Li, Tairu Zeng, Yi Hu, Zhaochang Du, Yao Liu, Moran Jin, Muhammad Tahir, Xiaochun Wang, Wenyu Yang and Yanhong Yan
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MB-4	Effects of different additives on the fermentation quality, aerobic stability and bacterial community of whole millet	Xia Hao, Yuerui Li, Na Zhao, Haozhe Yin, Jingyuan Zhang, Chao Wang, Hongyan Han
MB-5	Silage quality as influenced by tannins present in the woody forage ensiled: A meta-analysis	Sasa Zuo, Xiaohui Cao, Chuncheng Xu
MB-6	The effects of microbial inoculants on fermentation and aerobic stability of silage made of naked oats	Jikuan Chai, Zeliang Ju, Xin Liu, Jie Bai, Guiqin Zhao
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MB-9	Effect of mixed treatment with lactic acid bacteria and protease on fermented soybean meal on simulating actual production scale	Xinyu Zhang, Hao Ma, Zhenyu Wang, Pulong Zhou, Zhen Jiao, Huili Pang
MB-10	Effects of a mixture of lactic acid bacteria containing <i>Lactobacillus diolivorans</i> on aerobic stability of corn silage under warm storage conditions	Kramer Ewald and F. Höppner
MB-11	Effect of Homo-LAB Inoculants and Dry Matter on Fermentation Characteristics, VOCs and Bacterial and Fungal Communities in Alfalfa Silage	Bian Binbin, Li yanbing, E. B. da Silva, Li Jingchun, and L. Kung Jr

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MB-13	Inoculating time influences the fermentation quality of stylo silage	J.Y. Wu, J. Tian, J.G. Zhang
MB-14	Exploring the fermentation quality of alfalfa (<i>Medicago sativa</i>) ensiled with mugwort	Yuan Wang, Linna Guo, Hongzhang Zhou, Kuikui Ni and Fuyu Yang
MB-15	Natural Fermentation Quality Characteristics and Bacterial Community of Alfalfa Silage Harvested at Three Cuttings in A Year in Inner Mongolia of China	Wenlong Bao, Tengwei Zhang, Jing Wang, Chunsheng Bai, Jinmei Zhao, Ying Yun, Zhu Yu, Yanlin Xue, Juanjuan Sun
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MB-17	Effect of adding different levels of dry ice on fermentation and microbiome of ensiled lucerne (<i>Medicago sativa</i>)	M. Borsuk-Stanulewicz, S.W. Przemieniecki, P.Opyd, C. Purwin
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MB-30	Effects of a microbial inoculant on fermentation and aerobic stability of rye silage ensiled directly or wilted for one day	I. Eisner, K.L. Witt, V. Vrotniakiene, J. Jatkauskas, G. Copani, A. Collantine
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TM-3	Effects of wilting on ensiling characteristics and amino acid composition of alfalfa silage	R. Y. Tian, W. J. Huo, L. Chen, Q. Liu, S. L. Zhang, C. Wang, Q. F. Xu, G. Guo
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TM-5	Relationship between theoretical length of cut and particle size distribution of corn silage: a meta-analysis	F.A. Piran Filho ¹ , J.L.P. Daniel
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MB-56	Effects of lactic acid bacteria and hemicellulase on fermentation quality, chemical composition and aerobic stability of rice straw silage	Jie Zhao, Siran Wang, Zhihao Dong, Junfeng Li, Jinpeng Zhao, Tao Shao

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MB-59	Effects of Maize Varieties on Biomass Yield and Silage Quality of Maize – Soybean Intercropping in the Qinghai-Tibet Plateau	Jiayi Li, Xingjin Wen, Jizhi Yang, Wenyu Yang, Yafen Xin, Lei Zhang, Haiping Liu, Yaling He and Yanhong Yan
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MB-62	Changes flavonoids in Alfalfa silage during fermentation	D. H. Kong, Q. Y. WU, Y. Sun, J. J. Yang, J. B. Zhang, J. Wang, Y. Cao
MB-63	Biogenic amines in stylo silage treated with formic acid and sugar	Kai Mao, Yi Xu, Jian Wang, Musen Wang
MB-64	Aerobic stability of sugarcane ensiled alone or as a total mixed ration (TMR) with or without <i>Lentilactobacillus buchneri</i>	O.G. Pereira, A.J.S. Macêdo, W.S. Alves, F.E. Pimentel, G.D.O. Leite, P.S. Leite, V.S. Santos, Sakamoto, L.Y
MB-65	Fermentation characteristics of forage peanut silage harvested at two regrowth ages and treated with microbial inoculants	O.G. Pereira, A.J.S. Macêdo, K.G. Ribeiro, A.J. Anjos, W.S. Alves, V.P. Silva, F.E. Pimentel, G.D.O. Leite
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MB-67	Effects of Acremonium cellulase and heat-resistant lactic acid bacteria on lignocellulose degradation, fermentation quality, and microbial community structure of hybrid elephant grass silage in humid and hot areas	Chen Chen, Yafen Xin, Xiaomei Li, Haoran Ni, Tairu Zeng, Zhaochang Du, Hao Guan, Yushan Wu, Wenyu Yang, Yimin Cai, Yanhong Yan
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MB-69	Soluble carbohydrate components in different parts of sweet sorghum determine the fermentation characteristics and bacterial community of silage	Z.Q. Sun, Y.T. Liu, F.C. Ji, Y.L. Lin, Z. Wu, Z.M. Zhou, Z. Yu
MB-70	New lactic acid bacteria strains as inoculants on	M. C. N. Agarussi, O. G. Pereira, R. A.

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MB-71	Dynamic microbial diversity and fermentation quality of the mixed silage of corn and soybean grown in strip intercropping system	Qifeng Wu, Tairu Zeng, Xiaoling Li, Hao Guan, Weiguo Liu, Jiang Liu, Zhaochang Du, Xiaomei Li, Xiaochun Wang, Xinquan Zhang, Linkai Huang, Quanju Xiang, Quanhui Peng, Qiyin Xiao, Wenyu Yang, Yanhong Yan
MB-72	Separating the effects of chemical and microbial factors on fermentation quality and bacterial community of sweet sorghum silage by using γ -ray irradiation and epiphytic microbiota transplant	Jie Zhao, Xuejing Yin, Siran Wang, Zhihao Dong, Junfeng Li, Tao Shao
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MB-74	Forage yield, chemical composition and potential milk yield using maize silage from Asia, Europe, North and South American continents	L.E. Robles Jimenez, O.A. Castelan-Ortega, J. Osorio Avalos, J.C. Ángeles-Hernandez , and M. Gonzalez-Ronquillo
MB-75	Effects of various antifungal substances applied at graded dosages on yeast count and aerobic stability of maize silage	H. Auerbach ¹ , E. Nadeau ²
MB-76	Storage temperature is more effective than lactic acid bacteria inoculations in manipulating fermentation and bacterial community diversity, co-occurrence and functionality of the whole-plant corn silage	Jie Bai, Zitong Ding, Rina Su, Musen Wang, Dongmei Xie, Mengyan Chen, Xusheng Guo
MB-77	The effect of cellulase and <i>Lactobacillus plantarum</i> on the fermentation pattern and microbial community in <i>Saccharum arundinaceum</i> silage	Jinyi Xu, Mengxin Li, Yixiao Xie, Hong Sun, Qiming Cheng, Chao Chen, Ping Li, Yulong Zheng
MB-78	Effects of wilting time on microbial metabolic functions of alfalfa by BIOLOG ECO microplates approach	Keyi Zhang, Yufan Lin, Xiaomei Li, Ningwei Wang, Jing Ma, Si-Ta-Ba-Mu, Kuikui Ni, Xuekai Wang, Fuyu Yang
MB-79	Evaluation of the effect of cellulase and <i>Lactobacillus plantarum</i> on the ensiling quality and microbial community of the chopped <i>Saccharum arundinaceum</i> silages	Mengxin Li, Jinyi Xu, Yixiao Xie, Hong Sun, Qiming Cheng, Chao Chen, Ping Li, Yulong Zheng
MB-80	Comprehensive metabolome profiling investigation of fresh and ensiled whole-plant corn with or without <i>Lactiplantibacillus plantarum</i> using different untargeted	Rina Su, Wencan Ke, Jie Bai, Musen Wang, Dongmei Xie, Dongmei Xu, Mengyan Chen, Xusheng Guo

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MB-82	Fermentation quality of oat silage in response to ambient UV radiation	Yixiao Xie, Ermei Du, Maoya Li, Chaosheng Liao, Xiaolong Tang, Ping Li
MB-83	Microbial community and fermentation characteristics of mulberry silage with or without wilting	Z. Du, S. Yamasaki, T. Oya, Y. Cai
MB-84	Effect of nisin at different levels on dynamics of bacterial community and fermentation profile, in vitro rumen fermentation parameters and methane production of alfalfa silage	Z.Q. Li, M.S. Wang, S. Usman, F.H. Li, J. Bai, Y.X. Zhang, M.Y. Chen, Y. Zhang, X.S. Guo
MB-85	Effects of <i>Lactobacillus plantarum</i> with Feruloyl Esterase-producing Ability Combined with Lignocellulosic Degrading Enzyme on Aerobic Stability and Antioxidant Performance of Paper Mulberry Silage	Mengxin Li, Qiang Yu, Yixiao Xie, Hong Sun , Qiming Cheng, Chao Chen, Ping Li, Yulong Zheng
MB-86	<i>Lactobacillus acetotolerans</i> : a core bacteria in whole crop corn silage, faeces and milk	Y.C.Zheng, Y.Y.Liu, B.B.Bin, L.Z.Kong, J.Y.Li, X.Guo, Y.Y.Feng, J.C.Li, Y.B.Li
MB-87	Effects of urea on alfalfa mixed silage quality, in vitro ruminal digestibility and bacterial community	Qinglan Wang, Zhan Xie, Xin cao, Lin Mu, Zhifei Zhang
MB-88	Protein fractions of three ensiled tropical grasses as influenced by age at harvest	Peter Dele, S. Usman, C. Iduwe, F. Enwete, O. Aiyesa, A. Adesote, T. Amole, J. Olanite, O. Arigbede, and A. Jolaosho
MB-89	Effect of homofermentative <i>Lactiplantibacillus paraplantarum</i> St1 inoculant on the aerobic stability of corn silage	N. Pitiwittayakul1, S. Bureenok
MB-90	Effects of additives on the fermentation quality and bacterial community of whole-plant quinoa (<i>Chenopodium quinoa Willd.</i>) silage	Zhihao Dong, Di Fang, Siran Wang, Junfeng Li, Dong Dong, Tao Shao
MB-91	Effect of propionic acid on the fermentation quality of Italian ryegrass	Guofeng Xu, Tongtong Dai, Dong Dong, Cheng Zong, Xuejing Yin, Tao Shao
MB-92	Chemical and microbial differences of oat silages harvested at two growth stages	Xuejing Yin, Jie Zhao, Siran Wang, Zhihao Dong, Junfeng Li, Tao Shao
MB-93	The change mechanism of β -carotene during alfalfa ensiling	Cheng Zong, Yu Xiao, Tao Shao, Chen Chen, Wanqi Jiang, Zhihao Dong, Qinhuo Liu
MB-94	Metabolism analysis of woody forage and herbal forage silage materials	Y. Lin, Y. Gao, X. Wang, D. Zhao, F. Yang

MB-95	Whole-plant corn silage treated with bacillus-based inoculants compared with commercial inoculants	L. M. Nazato, A. Volpato, K. S. Oliveira, V. C. Gritti, D. P. Santos, L. B. L. Goulart, J. Machado, B. A. V. Arthur, L. F. Francisco, A. B. Silva Neto, A. P. Ribeiro, G. A. Reis, R.H.P.Reis, G. Morais, L. G. Nussio
MB-96	Changes in Phytol in Alfalfa Silage during its Storage	S.X. Hu, Y. Sun, Q. Y. WU, J. J. Yang, D. H. Kong, J. B. Zhang, J. Wang, Y. Cao
MB-97	Metabolism analysis of woody forage and herbal forage silage materials	Y. Lin, Y. Gao, X. Wang, D. Zhao, F. Yang
MB-98	Effect of biochar additive on water activity and ensiling microorganism of paper mulberry silage	Jingwen Cao, Mengyao Sun, Ningwei Wang, Chunze Guo, Rong Luo, Hongzhang Zhou, Xin Cui, Kuikui Ni, Xuekai Wang, Fuyu Yang
MB-99	Effects of inoculation of lactic acid bacteria on fermentation quality, aerobic stability, and microbial community dynamics of wilted <i>Leymus chinensis</i> silage	B. Wu, Z. Hu, M. Yong, M. Wei, H. Niu
Silage Technology and Management		
TM-24	The effect of storage method and silage additive on fermentation quality and losses in round bales	Mariana Schneider, B. Misthilger, J. Rinderle, H. Spiekers
TM-25	Calcium propionate application improved aerobic stability of total mixed rations	Marcia Franco, Taina Jalava, Arja Seppälä, Marketta Rinne
TM-26	Validation of laboratory-scale ensiling methods to evalu	Marcia Franco, Marketta Rinne
TM-27	New steps to understanding gas absorption by silages	Patrick Schmidt, F. X. Amaro, D. Vyas, A. T. Adesogan
TM-28	Total Digestible Nutrient, Energy Values, and Feed Milk Value of Intercropped Silage in Beef and Dairy Cattle: Effect of Growth Stage/Cutting Time and Intercropping of Whole Plant Oat with Whole Plant Faba Bean Forage Silage	Carlene Nagy, David A. Christensen, Herbert (Bart) Lardner, Victor Guevara-Oquendo, Peiqiang Yu
TM-29	Effect of lactic acid bacteria on fermentation quality of sugarcane top silage	B. Saenmahayak, S. Bureenok, N. Pitiwitayakul
TM-30	Wet hulless barley distiller grains in fermented total mixed ration: ensiling characteristics, chemical compositions, in vitro digestibility and gas production kinetics, and aerobic stability	Siran Wang, Junfeng Li, Zhihao Dong, Jie Zhao, Chunwang Jia, Liang Ding, Tao Shao
TM-31	Impact of air stress (AirS) during storage on grass silage fermentation profile and aerobic stability	Villot Clothilde, Vanessa Demey, Irène Joulié, Eric Chevaux, Mathieu Castex

TM-32	Carbon dioxide emission and reduction technology of rice straw silage	Y. Cai, A. Nakagawa, J. Fang, Z. Du, R. Ridwan, W. Astuti, K. Sarwono, A. Sofyan, Y. Widyastuti
TM-33	Effect of different wet distiller grains ratios on fermentation quality and nitrogen fractions of total mixed ration silage	Ermei Du, Xiaolong Tang, Yixiao Xie
TM-34	The effect of grass species and harvest date on the carotenoid content of silage	Z. Antoszkiewicz, P.M. Opyd, M. Borsuk-Stanulewicz, K. Lipiński, M. Mazur-Kuśnirek
TM-35	Effect of fermentation time on fermentation quality of natural forage silage type fermented total mixed ration	Xingliang Zhuo, Yi fan Wang, Jia liang Geng, Lei Wang, Xue Chen, Zhu Yu
TM-36	The Effects of the Ensiling Density on the Quality of Triticale Silage	Y. Liu, H.R. Zhang, R. Gao, J.C.ZB,G.M.Li,L.M.YG, Z. Yu
TM-37	Aerobic stability of corn wet distillers grains using additives and strategies of storage	A. V. Andrade, N. Chittolina, T. J. B. Silva, L. M. Nazato, A. Volpato, L. Mandro, B. A. V. Arthur, A. B. Silva Neto, A. P. Ribeiro, V. F. L. dos Anjos, P. C. Bortoleto Jr., R. H. P. Reis , G. Morais, L. G. Nussio
TM-38	Effect of chemical additive based on propionic and formic acid on whole corn plant silage	B. A. V. Arthur, G. G. S. Salvati, W. P. Santos, L. M. Nazato, K. S. Oliveira, R.H.P. Reis, G. Morais, L. G. Nussio
TM-39	Effect of silo sealing strategy on the conservation of whole-plant corn silage for finishing beef cattle	J. Machado, A. Volpato, L.F. Francisco, D.F.D. Sant`Anna, V.F.L. dos Anjos, D.O. de Sousa, R.H.P. Reis, G. Morais, J.L.P. Daniel, A.S. Netto, L.G. Nussio
TM-40	Effect of grain processing by pull-type harvesting machinery on the quality of whole-plant corn silage	L. Mandro, G. A. Reis, W. P. Santos, G. Salvati, K. S. Oliveira, V. C. Gritti, B. A. V. Arthur, L. M. Nazato, R.H.P.Reis, G. Morais, L. G. Nussio
TM-41	Farm-scale storage of wet distillers bran plus solubles: feed quality profile according to the use of bag or pile type silos	E.R.A Zambrano, L. S. Martins, L. Leite, F. H. Moura, A. C. Rodrigues, G. R. Lisboa, E. D. Souza, G. Morais, R. H. P. Reis, L. G. Nussio
TM-42	Losses and dry matter recovery during storage of wet co-product from corn based ethanol bio refinery ensiled with additives and silo types	E.R.A. Zambrano, A.C. Rodrigues, F.H. Moura, L. Leite, L.S. Martins, G. Morais, R.H.P. Reis, L.G. Nussio
TM-43	Microbiology and fermentative losses of rehydrated whole plant silage harvested at high maturity	V. F. L. dos Anjos, A. Volpato, D. F. D. Sant`Anna, G. A. Reis, J. Machado L. M. Coelho G. Morais1, L. G. Nussio
TM-44	Acidification rate of whole plant corn silages treated with Bradyrhizobium, Azospirillum and	N. Chittolina, L. M. Nazato, G. Morais, L. G. Nussio

	Bacillus strains as potential additives, compared to commercial inoculants	
TM-45	Effects of silage inoculants on the conservation of Marandu palisadegrass silage with high dry matter content	M.G.M. Carvalho, J.M. Bragatto, S.C. Buttow, R. C. C. Pinto, P.J. Roco, J.L.P. Daniel
TM-46	Testing the aerobic stability of silage-based mixed rations	Siriwan D. Martens, A. Jilg, M. Schneider, B. Misthilger, S. Ohl, O. Steinhöfel
Silage Utilization and Animal Production		
UP-14	Response of the silage nutrition of triticale, rye, and oat to the harvesting stage in Qinghai-Tibet plateau	Jun Ma, Hanling Dai, Hancheng Liu, Wenhua Du
UP-15	Effects of feruloyl esterase-producing <i>Lactobacillus plantarum</i> A1 or a commercial inoculant <i>L. plantarum</i> MTD/1 on ensiling characteristics, in vitro ruminal digestibility, gas production, fermentation and microbiota of alfalfa silage	Fuhou Li, Wenkang Huang, Mengya Jia, Baibing Zhang, Xusheng Guo
UP-16	Feed digestibility, antioxidant and immunity status of lactating dairy goats fed alfalfa silage-based diets with feruloyl esterase-producing <i>Lactobacillus plantarum</i> inoculation	Fuhou Li, Baibing Zhang, Yixin Zhang, Xusheng Guo
UP-17	Meta-analysis of the effect of additives on the silage quality of sweet sorghum silage	F.C. Ji, Z.Q. Sun, Z. Yu
UP-18	Influence of fermentation quality, CNCPS protein components, and in vitro digestibility of alfalfa silage with different concentration of soil contamination	Lei Wang, Xingliang Zhuo, Wenyan Zhan, Yifan Wang, Xue Chen, Jinze Bao, Zhu Yu
UP-19	Feeding behavior of beef cattle fed whole-plant corn silage from flint or dent hybrids chopped at different length of cut	A. Volpato, J. Machado, D. F. D. Sant'Anna, G. A. Reis, G.G.Salvati, W.P Santos, V. F. L. dos Anjos, R.H.P reis, G. Morais, A. S. Netto, L. G. Nussio
UP-20	Propionic acid-based additive with surfactant action on the nutritive value of rehydrated corn grain silage for growing lambs performance	Álvaro B. Silva Neto, L. B. L. Goulart, A. P. Ribeiro, L. M. Nazato, D. P. Santos, L. F. Francisco, B. A. V. Arthur, R.H.P. Reis, G. Morais, E. M. Ferreira, L. G. Nussio
UP-21	Effect of chemical additive based on propionic and formic acid in whole corn plant relocated silage on nutritive value and performance of dairy cows	B. A. V. Arthur, G. G. S. Salvati, W. P. Santos, L. M. Nazato, V. C. Gritti, R.H.P Reis, G. Morais, L. G. Nussio
UP-22	Effects of strategic supplementation with ground	C. Q. Wang, G. A. Reis, W. P. Santos,

	corn or whole-plant corn silage mechanically processed on lactating dairy cows in Brazil	G. Salvati, K. S. Oliveira, V. C. Gritti, B. A. V. Arthur, L. M. Nazato, R.H.P. Reis, G. Morais, L. G. Nussio
UP-23	The impact of a corn second-crop snaplage chopped with different particle length of cut on the beef cattle performance	D. F. D. Sant'Anna, D. P. Santos, A. Volpato, V. F. L. dos Anjos, G. A. Reis, J. Machado, G.G Salvati, W.P. Santos, R.H.P. Reis, G. Morais, R.A.M. Vieira, A. S. Netto, L. G. Nussio
UP-24	Impact of harvesting processing and level of dietary inclusion of whole-plant corn silage on beef cattle performance	J. Machado, A. Volpato, L.F. Francisco, D.F.D. Sant'Anna, V.F.L. dos Anjos, D.O. de Sousa, R.H.P. Reis, G. Morais, A.S. Netto, L.G. Nussio
UP-25	Mechanical processing during harvesting of snaplage on feeding behavior of beef cattle in the feedlot	D. F. D. Sant'Anna, D. P. Santos, A. Volpato, V. F. L. dos Anjos, G. A. Reis, J. Machado, A. S. Netto, S. L. Silva, P. H. M. Rodrigues, G. Morais, R. H. P. Reis, G. G. S. Salvati, R. Jonker, L.G. Nussio
UP-26	Nellore bull's performance and carcass traits in TMR diets containing wet co product from corn-based ethanol bio refinery ensiled with additives and strategies of storage	E.R.A Zambrano, R. H. P. Reis, G. Morais, A. C. Rodrigues, F.H. Moura, L. Leite, L.S. Martins, L. G. Nussio
UP-27	Effect of the combination of hetero and homolactic acid bacteria and enzymes on fermentation, nutritional value, and aerobic stability of grass silage	Villot Clothilde, Vanessa Demey, Irène Joulié, Eric Chevaux, Mathieu Castex