

朴香淑 教授

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基本信息:

朴香淑 (Xiangshu Piao), 女, 教授、博士生导师

专业: 动物营养与饲料科学

学习与工作经历:

2007-至今: 中国农业大学动物科技学院, 教授

2001-2006: 中国农业大学动物科技学院, 副研

1999.8-2001.5: 中国农业大学动物科技学院, 博士后; 导师: 李德发 教授/院士

1994.9-1999.8: 韩国首尔大学, 硕士/博士; 导师: Dr. InK Han教授

1986.1-1987.11: 日本名古屋大学/农林部畜产试验场等, 访学

1984.7-1994.8: 吉林省农科院, 助研

1984.7: 延边大学农学院, 本科/学士

研究方向:

研究方向为单胃动物营养。主要研究饲料原料营养价值评定及功能性添加剂有效性评价。目前研究包括: ①能量蛋白质原料有效能及SID氨基酸消化率回归方程的建立及验证 (如高粱、大麦、玉米DDGS、花生粕、葵花粕、酶解角蛋白、蛋黄粉、HP300、发酵豆粕、酒糟粕、IMP/GMP等); ②替抗功能性活性物质调节肠道健康的作用机理 (植物提取物、益生菌/益生元、酶制剂、有机酸、酵母提取物、植物精油、有机微矿等)。

教学工作:

主讲本科生“猪营养”课程

参与本科生“畜禽福利与畜产品品质安全”、研究生“营养与繁殖”课程

研究生培养:

完整指导已毕业研究生27名(硕士19、博士8名);正在指导研究生11名(硕士4、博士6名);协助指导已毕业博士21名、硕士11名;

承担的科研项目:

近10年:主持5项国家自然科学基金面上基金项目;科技攻关和支撑课题5项;国际合作项目50多项等;

其中主持的基金项目如下:

1. 国家自然科学基金(31772612):母源添加连翘酯苷对仔猪断奶应激的影响及其传递途径的研究,2018.1.1-2021.12.31(进行)
2. 国家自然科学基金(31372316):国产玉米DDGS猪有效能值预测方程的建立及其验证,2014.1.1-2017.12.31(进行)
3. 国家自然科学基金(31072040):连翘兰缓解氧自由基诱发仔猪肠粘膜损伤的作用机理,2011.1.1-2013.12.31(结题)
4. 国家自然科学基金(30671522):壳寡糖对断奶仔猪肠粘膜机械屏障的影响,2007.1.1-2009.12.31(结题)
5. 国家自然科学基金(30270966):色氨酸对仔猪类胰岛素生长因子系统基因表达的调控,2002.1.1-2006.12.31(结题)

专著:主编出版专著《天然活性物质在饲料中的应用研究及策略》;主编《最新猪的营养与饲料》;主编《韩国饲料法规》;参编《猪的营养》;参编《大豆抗营养因子》;

标准:主持4项标准(已出版1项:GB/T 26438-2010《全收粪法测定猪配合饲料表观消化能技术规程》)

奖励与荣誉:

1. 2012年/2016年,两次荣获中国农业大学“百篇优秀毕业论文(设计)优秀指导教师”奖
2. 2009年/2010年,两次荣获“优秀硕士学位论文指导教师”
3. 2015年获中共中国农业大学《优秀共产党员》称号、校党代表
4. 2016年获AAAP亚太畜牧科学学会“The 13th AJAS/CAPI Distinguished Service Award”
5. 2017年获中国农业大学“2016年度北京市级大学生科研训练项目优秀指导教师”奖;
6. 多名研究生获国奖、校长奖学金等;徐叶桐获《AAAP杰出青年科学家奖》;潘龙获校级“学术之星”一等奖,等

社会职务学术兼职:

7. 中国畜牧兽医学会会员
8. 美国动物科学学会会员
9. 美国动物科学杂志(*Journal of Animal Science.*)编委

论文发表:

近10年发表SCI论文共119篇,其中第一作、通作88篇;

10. Long SF, Xu YT, Pan L, Wang QQ, Wang CL, Wu JY, Wu Y, Han YM, Yun CH, X.S. Piao*. 2018. Mixed organic acids as antibiotic substitutes improve performance, serum immunity, intestinal morphology and microbiota for weaned piglets. *Animal Feed Science and Technology*, 235:23-32
11. Pan L, Ma H, X.S. Piao*, Liu L, Li DF. 2018. A computer-controlled simulated digestion system is a promising in vitro digestibility technique to predict digestible energy of corn grain for growing pigs. *Animal Feed Science and Technology*, 235:43-49
12. Shang QH, Ma XK, Li M, Zhang LH, Hu JX, X.S. Piao*. 2018. Effects of α -galactosidase supplementation on nutrient digestibility, growth performance, intestinal morphology and digestive enzyme activities in weaned piglets. *Animal Feed Science and Technology*, 236:48-56
13. Wu Y, Pan L, Tian QY, X.S. Piao*. 2018. Comparative digestibility of energy and ileal amino acid in yeast extract and spray-dried porcine plasma fed to pigs. *Archives of Animal Nutrition*, 72(1):76-84
14. Xu YT, Liu Li, Long SF, Pan L, X.S. Piao*. 2018. Effect of organic acids and essential oils on performance, intestinal health and digestive enzyme activities of weaned pigs. *Animal Feed Science and Technology*, 235: 110-119
15. Xu YT, Ma XK, Wang CL, Yuan MF, and X.S. Piao*. 2018. Effects of dietary valine:lysine ratio on the performance, amino acid composition of tissues and mRNA expression of genes involved in branched-chain amino acid metabolism of weaned piglets. *Asian-Australas Journal of Animal Science*. 31(1):1:106-115
16. Zeng ZK, Li QY, Tian QY, Xu YT, X.S. Piao*. 2018. The combination of carbohydrases and phytase to improve nutritional value and non-starch polysaccharides degradation for growing pigs fed diets with or without wheat bran. *Animal Feed Science and Technology*, 235:138-146

17. Pan L, Zhao PF, Ma XK, Shang QH, Xu YT, Long SF, Wu Y, Yuan MF, [X. S. Piao*](#). 2017. Probiotic supplementation protects weaned pigs against enterotoxigenic *Escherichia coli* K88 challenge and improves the performance in similar to antibiotics. *Journal of Animal Science*. 95:2627-2639
18. Pan L, Shang QH, Wu Y, Ma XK, Long SF, Liu L, Li DF, [X. S. Piao*](#). 2017. Concentration of digestible and metabolizable energy, standardized ileal digestibility, and growth performance of pigs fed diets containing sorghum produced in the United States or corn produced in China. *Journal of Animal Science*. 95:4880-4892
19. Pan L, Shang QH, Ma XK, Wu Y, Long SF, Wang QQ, [X. S. Piao*](#). 2017. Coated compound proteases improve nitrogen utilization by decreasing manure nitrogen output for growing pigs fed sorghum soybean meal based diets. *Animal Feed Science and Technology*. 230:136-142
20. Wang HL, Shi M, Xu X, Pan L, Ma XK, Li P, [X. S. Piao*](#). 2017. Determination and prediction of the digestible and metabolisable energy content of barley for growing pigs based on chemical composition. *Archives of Animal Nutrition*, 71(2): 108-119
21. Wang HL, Shi M, Xu X, Pan L, Liu L, [X. S. Piao*](#). 2017. Partial dehulling increases the energy content and nutrient digestibility of barley in growing pigs. *Asian-Australas Journal of Animal Science*. 30 (4): 562-568
22. Wang HL, Shi M, Xu X, Ma XK, Liu L, [X. S. Piao*](#). 2017. Comparative energy content and amino acid digestibility of barley obtained from diverse sources fed to growing pigs. *Asian-Australas Journal of Animal Science*. 30(7): 999-1005
23. Wang HL, Ma XK, Xu X, Shi M, [X.S. Piao*](#). 2017. Apparent and standardized ileal digestibility of amino acids in diverse barley cultivars fed to growing pigs. *Animal Science Journal*, 88, 1994–2000
24. Xu X, Wang HL, Pan L, Ma XK, Tian QY, Xu YT, Long SF, Zhang ZH, [X.S. Piao*](#). 2017. Effects of coated proteases on the performance, nutrient retention, gut morphology and carcass traits of broilers fed corn or sorghum based diets supplemented with soybean meal. *Animal Feed Science and Technology*. 223: 119-127
25. Xu X, Liu L, Long S.F, [X.S. Piao*](#), Terry L. Ward, Fei Ji. 2017. Effects of Chromium Methionine Supplementation with Different Sources of Zinc on Growth Performance, Carcass Traits, Meat Quality, Serum Metabolites, Endocrine Parameters, and the Antioxidant Status in Growing-Finishing Pigs. *Biol Trace Elem Res*. 179:70-78
26. Zhao PF, [X.S. Piao*](#), Zeng ZK, Li P, Xu X, Wang HL. 2017. Effect of Forsythia suspensa extract and chito-oligosaccharide alone or in combination on performance, intestinal barrier function, antioxidant capacity and immune characteristics of weaned piglets. *Animal Science Journal*. 88, 854-862
27. Zhao PF, [X.S. Piao*](#), Long Pan, Zhikai Zeng, Qingyun Li, Xiao Xu, Hongliang Wang. 2017. Forsythia suspensa extract attenuates lipopolysaccharide-induced inflammatory liver injury in rats via promoting antioxidant defense mechanisms. *Animal Science Journal*. 88 (6):873-881
28. Li ZC, Li P, Liu DW, Li DF, Wang FL, Su YB, Zhu ZP, [X.S. Piao*](#). 2017. Determination of the energy value of corn distillers dried grains with solubles containing different oil levels when fed to growing pigs. *Journal of Animal Physiology and Animal Nutrition*. 1101: 339-348
29. She Y, Huang Q, Li DF, [X. S. Piao*](#). 2017. Effects of proteinate complex zinc on growth performance, hepatic and splenic trace elements concentrations, antioxidative function and immune functions in weaned piglets. *Asian-Australas Journal of Animal Science*. 30(8):1160-1167
30. Wu Y, Pan L, Shang QH, Ma XK, Long SF, Xu YT, [X.S. Piao*](#). 2017. Effects of isomalto-oligosaccharides as potential prebiotics on performance, immune function and gut microbiota in weaned pigs. *Animal Feed Science and Technology*. 230:126-135
31. Ma XK, Zhang S, Pan L, [X.S. Piao*](#). 2017. Effects of lysozyme on the growth performance, nutrient digestibility, intestinal barrier and microbiota of weaned pigs fed diets containing spray-dried whole egg or albumen powder. *Can. J. Anim. Sci*. 97: 466-475
32. Xu YT, Zeng ZK, Xu X, Tian QU, Ma XK, Long SF, Piao MJ, Cheng ZB, [X. S. Piao*](#). 2017. Effects of the standardized ileal digestible valine : lysine ratio on performance, milk composition and plasma indices of lactating sows. *Animal Science Journal*. 88, 1082–1092
33. Xie F, Pan L, Li ZC, Shi M, Liu L, Li YK, Huang CF, Li DF, [X.S. Piao*](#), Cao YH*. 2017. Digestibility of energy in four cereal grains fed to barrows at four body weights. *Animal Feed Science and Technology*. 232: 217-221
34. Zhao JB, Li ZC, Lyu MB, Liu L, [X.S. Piao](#), Li DF*, 2017. Evaluation of available energy and total tract digestibility of acid-hydrolyzed ether extract of cottonseed oil for growing pigs by the difference and regression methods. *Asian-Australas Journal of Animal Science*., 30(5):712-719

35. Zhang L, Liu L, Li DF, Li QF, X.S. Piao, Thacker PA, Brownd MA, Lai CH*. 2017. Effects of variety and storage duration on the nutrient digestibility and the digestible and metabolisable energy content of maize fed to growing pigs. *Archives of Animal Nutrition*, 71(1):67-80
36. 徐叶桐, 曾志凯, 何政肖, 朴香淑*, 王玉璘. 2017. 木聚糖酶对小麦型基础日粮肉仔鸡生长和消化率的影响. 饲料研究. 7: 1-11
37. 尚庆辉, 朴香淑*, 王玉璘. 2017. 木聚糖酶在畜禽饲料中应用效果及其机理的研究进展. 饲料工业. 38(2): 17-24
38. 王丁, M. D Lindemann, 曾志凯, 朴香淑*. 2017. 母猪的乳腺发育及其影响因素. 中国畜牧杂志. 53(2):3-9
39. Pan L, Ma XK, Wang HL, Xu X, Zeng ZK, Tian QY, Zhao PF, Zhang S, Yang ZY, X.S. Piao*. 2016. Enzymatic feather meal as an alternative animal proteinsource in diets for nursery pigs. *Animal Feed Science and Technology*, 212: 112-121
40. Pan L, Zhao PF, Yang ZY, Long SF, Wang HL, Tian QY, Xu YT, Xu X, Zhang ZH, X.S. Piao*. 2016. Effects of Coated Compound Proteases on Apparent Total Tract Digestibility of Nutrients and Apparent Ileal Digestibility of Amino Acids for Pigs. *Asian-Australas Journal of Animal Science*. 29(12) : 1761-1767
41. Tian QY, Zeng ZK, Zhang YX, Long SF, X.S. Piao*. 2016. Effect of L- or DL-methionine Supplementation on Nitrogen Retention, Serum Amino Acid Concentrations and Blood Metabolites Profile in Starter Pigs. *Asian-Australas Journal of Animal Science*. 29(5): 689-694
42. Wang HL, Shi M, Xu X, Pan L, Zhao PF, Ma XK, Tian QY, X.S. Piao*. 2016. Effects of Flavomycin, Bacillus licheniformis and Enramycin on Performance, Nutrient Digestibility, Gut Morphology and the Intestinal Microflora of Broilers. *J. Poult. Sci.*, 53: 128-135
43. Xu X, Wang HL, Li P, Zeng ZK, Tian QY, X.S. Piao*, E.Y.W. Kuang. 2016. A comparison of the nutritional value of organic-acidpreserved corn and heat-dried corn for pigs. *Animal Feed Science and Technology*, 214: 95-103
44. Xu X, Wang HL, X.S. Piao*. 2016. Validation of metabolisable energy prediction equation for de-oiled corn distillers dried grains with solubles fed to finishing pigs. *Italian Journal of Animal Science*. 15(1):55-61
45. Zeng ZK, Li QY, Zhao PF, Xu X, Tian QY, Wang HL, Pan L, Yu S, X.S. Piao*. 2016. A new Buttiauxella phytase continuously hydrolyzes phytate and improves amino acid digestibility and mineral balance in growing pigs fed phosphorous-deficient diet. *Journal of Animal Science*. 94:629-638
46. 徐叶桐, 朴香淑*. 2016. 猪和鸡缬氨酸需要量的最新研究进展. 饲料工业.37(22): 30-33
47. 龙沈飞, 朴香淑*. 2016. 有机酸(盐)在养猪生产中的应用及作用机理研究. 养猪. 6: 9-15
48. Lei XJ, X.S. Piao*, Ru YJ, Zhang HY, Alexandre Péron, Zhang HF. 2015. Effect of Bacillus amyloliquefaciens-based Direct-fed Microbial on Performance, Nutrient Utilization, Intestinal Morphology and Cecal Microflora in Broiler Chickens. *Asian-Australas Journal of Animal Science*. 28(2):239-246
49. Li J, Xia H, Yao W, Wang T, Li J, X. Piao, P. Thacker, Wu G, Wang F*. 2015. Effects of arginine supplementation during early gestation (day 1 to 30) on litter size and plasma metabolites in gilts and sows. *Journal of Animal Science*. 93:1-13
50. Li P, Li DF, Zhang HY, Li ZC, Zhao PF, Zeng ZK, Xu X, X.S. Piao*. 2015. Determination and prediction of energy values in corn distillers dried grains with solubles sources with varying oil content for growing pigs. *Journal of Animal Science*. 93:3458-3470
51. Li P, Xu X, Zhang Q, Liu JD, Li QY, Zhang S, Ma XK, X.S. Piao*. 2015. Effect of Different Inclusion Level of Condensed Distillers Solubles Ratios and Oil Content on Amino Acid Digestibility of Corn Distillers Dried Grains with Solubles in Growing Pigs. *Asian-Australas Journal of Animal Science*. 28(1):102-110
52. Li ZC, Wang XX, Guo PP, Liu L, X.S. Piao, HH. Stein, Li DF, Lai CH. 2015. Prediction of digestible and metabolisable energy in soybean meals produced from soybeans of different origins fed to growing pigs, *Archives of Animal Nutrition*, 69(6):473-486
53. Liu JD, Li QY, Zeng ZK, Li P, Xu X, Wang HL, Zhang S, X.S. Piao*. 2015. Determination and Prediction of the Amino Acid Digestibility of Sunflower Seed Meals in Growing Pigs. *Asian-Australas Journal of Animal Science*. 28(1):86-94
54. Liu JD, Xu X, Zhao PF, Tian QY, Zhang S, Li P, Li QY, X.S. Piao*. 2015. Evaluation of energy digestibility and prediction of digestible and metabolisable energy in sunflower seed meal fed to growing pigs. *Italian Journal of Animal Science*. 14:3533-3538
55. She Y, Su YB, Liu L, Huang CF, Li JT, Li P, Li DF, X.S. Piao*. 2015. Effects of microbial phytase on coefficient of standardized total tract digestibility of phosphorus in growing pigs fed corn and corn co-products, wheat and wheat co-products and oilseed meals. *Animal Feed Science and Technology*, 208 (2015) 132-144
56. Su YB, Bi XH, Ma XK, Huang Q, Li ZC, Liu L, X.S. Piao, Li DF, Lai CH. 2015. Determination and prediction of the digestible and metabolizable energy content of lipid sources fed to growing pigs. *Animal Feed Science and Technology*, 209:119-127
57. Su YB, She Y, Huang Q, Shi CX, Li ZC, Huang CF, X.S. Piao, Li DF. 2015. The Effect of Inclusion Level of Soybean Oil and Palm Oil on Their Digestible and Metabolizable Energy Content Determined with the Difference and Regression Method When Fed to Growing Pigs. *Asian-Australas Journal of Animal Science*. 28(12) : 1751-1759
58. Zeng ZK, Li QY, Tian QY, Zhao PF, Xu X, Yu SK, X.S. Piao*. 2015. Super High Dosing with a Novel Buttiauxella Phytase Continuously Improves Growth Performance, Nutrient Digestibility, and Mineral Status of Weaned Pigs. *Biol Trace Elem Res*. 168(1):103-109

59. Zeng ZK, Xu X, Zhang Q, Li P, Zhao PF, Li QY, Liu JD, **X. S. Piao***. 2015. Effects of essential oil supplementation of a low-energy diet on performance, intestinal morphology and microflora, immune properties and antioxidant activities in weaned pigs. *Animal Science Journal*, 86, 279–285
60. Zeng ZK, Zhang S, Wang HL, **X. S. Piao***. 2015. Essential oil and aromatic plants as feed additives in non-ruminant nutrition: a review. *J. Anim. Sci. Biotech.*, 6:7
DOI 10.1186/s40104-015-0004-5
61. Zhang S, **X. S. Piao***, Ma XK, Xu X, Zeng ZK, Tian QY, Li Y. 2015. Comparison of spray-dried egg and albumen powder with conventional animal protein sources as feed ingredients in diets fed to weaned pigs. *Animal Science Journal*, 86, 772–781
62. Zhu YZ, Cheng JL, Ren M, Yin L, **X. S. Piao**. 2015. Effect of γ -Aminobutyric Acid-producing Lactobacillus Strain on Laying Performance, Egg Quality and Serum Enzyme Activity in Hy-Line Brown Hens under Heat Stress. *Asian-Aust. J. Anim. Sci.* 28(7):1006-1013
63. Li QY, **X. S. Piao***, Liu JD, Zeng ZK, Zhang S, Lei XJ. 2014. Determination and prediction of the energy content and amino acid digestibility of peanut meals fed to growing pigs. *Archives of Animal Nutrition*, 68(3):196–210.
64. Zeng ZK, Wang D, **X. S. Piao***, Li PF, Zhang HY, Shi CX, Yu SK. 2014. Effects of Adding Super Dose Phytase to the Phosphorus-deficient Diets of Young Pigs on Growth Performance, Bone Quality, Minerals and Amino Acids Digestibilities. *Asian-Aust. J. Anim. Sci.* 27(2): 237-246
65. Zeng ZK, Li QY, **X. S. Piao***. 2014. Forsythia suspensa extract attenuates corticosterone-induced growth inhibition, oxidative injury, and immune depression in broilers. *Poultry Science*. 93 :1-8.
66. Wang Y, Lu WQ, Li DF, Liu XT, Wang HL, S. Niu, **X. S. Piao***. 2014. Energy and Ileal Digestible Amino Acid Concentrations for Growing Pigs and Performance of Weanling Pigs Fed Fermented or Conventional Soybean Meal. *Asian-Aust. J. Anim. Sci.* 27(5): 706-716.
67. Wang TT, Liu DW, Huang CF, Liu L, **X. S. Piao**, Wang FL. 2014. Determination and Prediction of Digestible and Metabolizable Energy from the Chemical Composition of Chinese Corn Gluten Feed Fed to Finishing Pigs. *Asian-Aust. J. Anim. Sci.* 27(6):871-879
68. Huang Q, Shi CX, Su YB, Liu ZY, Li DF, Liu L, Huang CF, **X.S. Piao**, Lai CH. 2014. Prediction of the digestible and metabolizable energy content of wheat milling by-products for growing pigs from chemical composition. *Animal Feed Science and Technology*. 196 (5) :107-116
69. Chen Y, Li DF, Dai ZL, **X. S. Piao**, Wu ZL, Wang B, Zhu YH, Zeng ZK. 2014. L-Methionine supplementation maintains the integrity and barrier function of the small-intestinal mucosa in post-weaning piglets. *Amino Acids*. 46:1131–1142
70. Li QF, Zang JJ, Liu DW, **X. S. Piao**, Lai CH, Li DF*. 2014. Predicting corn digestible and metabolizable energy content from its chemical composition in growing pigs. *J. Anim. Sci. Biotech.*, 5:11
71. Li QF, Shi M, Shi CX, Liu DW, **X. S. Piao**, Li DF, Lai CH*. 2014. Effect of variety and drying method on the nutritive value of corn for growing pigs. *J. Anim. Sci. Biotech.* 5:18
72. Lv JN, Chen YQ, Guo XJ, **X. S. Piao**, Cao YH, Dong B. 2013. Effects of Supplementation of β -Mannanase in Corn-soybean Meal Diets on Performance and Nutrient Digestibility in Growing Pigs. *Asian-Aust. J. Anim. Sci.* 26(4): 579-587.
73. Yi JQ, **X. S. Piao**, Li ZC, Zhang HY, Chen Y, Li QY, Liu JD, Zhang Q, Ru YJ, Dong B*. 2013. The Effects of Enzyme Complex on Performance, Intestinal Health and Nutrient Digestibility of Weaned Pigs. *Asian-Aust. J. Anim. Sci.* 26(8):1181-1188
74. Zhang HY, Yi JQ, **X. S. Piao***, Li PF, Zeng ZK, Wang D, Liu L, Wang GQ, Han X. 2013. The Metabolizable Energy Value, Standardized Ileal Digestibility of Amino Acids in Soybean Meal, Soy Protein Concentrate and Fermented Soybean Meal, and the Application of These Products in Early-weaned Piglets. *Asian-Aust. J. Anim. Sci.* 26 (5): 691-699.
75. Zhang HY, **X. S. Piao***, Li P, Yi JQ, Zhang Q, Li QY, Liu JD, Wang GQ. 2013. Effects of Single Cell Protein Replacing Fish Meal in Diet on Growth Performance, Nutrient Digestibility and Intestinal Morphology in Weaned Pigs. *Asian-Aust. J. Anim. Sci.* 26(9): 1320-1328.
76. Zhang HY, **X. S. Piao***, Zhang Q, Li P, Yi JQ, Liu JD, Li QY, Wang GQ. 2013. The effects of Forsythia suspensa extract and berberine on growth performance, immunity, antioxidant activities, and intestinal microbiota in broilers under high stocking density. *Poult Sci*. 92:1981-1988
77. 陈颖, 刘君地, 朴香淑*, 张宏宇, 王园. 2013. 白酒糟发酵粉对生长猪消化能、代谢能和氨基酸标准回肠消化率的评定. 饲料工业. 34(9):47-52
78. 陈颖, 朴香淑*, 赵泮峰, 曾志凯. 2013. 评估 L-蛋氨酸的有效性及其标准回肠可消化蛋氨酸水平对断奶仔猪生长性能、营养物质表观消化率及血浆参数的影响. 动物营养学报. 25(10): 2430-2439.
79. Han Xu, **X. S. Piao***, Zhang HY, Li PF, Yi JQ, Zhang Q, Li P. 2012. Forsythia suspensa Extract Has the Potential to Substitute Antibiotic in Broiler Chicken. *Asian-Aust. J. Anim. Sci.* 25(4) : 569- 576
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82. Huang Q, X. S. Piao, Ren P, Li DF. 2012. Prediction of Digestible and Metabolizable Energy Content and Standardized Ileal Amino Acid Digestibility in Wheat Shorts and Red Dog for Growing Pigs. *Asian-Aust. J. Anim. Sci.* 25(12) : 1748-1758
83. Li PF, X. S. Piao*, Ru YJ, Han X, Xue LF, Zhang HY. 2012. Effects of Adding Essential Oil to the Diet of Weaned Pigs on Performance, Nutrient Utilization, Immune Response and Intestinal Health. *Asian-Aust. J. Anim. Sci.* 25:1617-1626
84. Li PF, X. S. Piao*, Zeng ZK, Wang D, Xue LF, Zhang RF, Dong B, Kim SW. 2012. Effects of the Standardized Ileal Digestible Lysine to Metabolizable Energy Ratio on Performance, Nutrient Digestibility, and Plasma Parameters of 10 to 28 kg Pigs. *J. Anim. Sci. Biotech.* 2(1):35-43
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