

# 混合线性模型下猪群间遗传联系的度量 Measures of Genetic Connectedness Between Herds in Swine Under Mixed Linear Models

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**摘要** 采用关联指数(IC)和决定系数(CD)两种方法, 度量混合线性模型遗传评估下猪群体间的遗传关联性。结果表明, 加拿大安大略省的大约克夏猪、长白猪、杜洛克猪和汉普夏猪4个主要品种群体间具有良好的遗传联系。CD法既组合了数据结构和信息量, 又考虑了预测误差方差和遗传变异性, 是一个选择判断遗传评估精度的好方法。

**Abstract:** Two criteria for the measures of genetic connectedness in mixed linear model of genetic evaluation are used: the degree of connectedness(IC) and the generalized coefficient of determination(CD). The results indicated that the data of four dominant swine breeds: Yorkshire, Landrace, Duroc and Hampshire in Ontario, Canada are well connected. The CD, which combines data structure and amount of information and also accounts for both prediction error variance and genetic variability, is a good method to select for judging the precision of a genetic evaluation.

**关键词** [混合线性模型](#) [遗传关联](#) [猪群体间](#) **Key words** [mixed linear model](#) [genetic connectedness](#) [between herds in swine](#)

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## Abstract

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