

FigureS1: Expected estimates in the transmissibility model compared to parameters in the true model $y_i = x_i \beta + a_i + epi_i + e_i$.

$$H^2 = \frac{\sigma_a^2 + \sigma_{epi}^2}{\sigma_a^2 + \sigma_{epi}^2 + \sigma_e^2}, r = \frac{\sigma_a^2}{\sigma_a^2 + \sigma_{epi}^2}, \lambda_s, \lambda_d : \text{sire and dam epigenetic path coefficients of transmission}.$$

Parameters in the transmissibility model: $\tau^2 = \frac{\sigma_t^2}{\sigma_t^2 + \sigma_e^2}$, ω_s and ω_d sire and dam path coefficient of transmission. Values in the transmissibility model have been obtained using the maximum of expected likelihood