**Modelling for the inheritance of endangered equid multiple births and fertility: determining risk factors and genetic parameters in donkeys *(Equus asinus)***

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| Animals |
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**Supplementary Table S7.**Comparison of the model summary of stepwise linear regression with transformed variables including and without included the interaction of herd\*birthyear.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| With herd\*birthyear interaction | | | | | | Without herd\*birthyear interaction | | | | | |
| Variable | Multiple R | R Square | Adjusted R Square | Apparent Prediction Error | Expected Prediction Error | Variable | Multiple R | R Square | Adjusted R Square | Apparent Prediction Error | Expected Prediction Error |
| Historical foal number born per animal | 0.777 | 0.604 | 0.424 | 0.396 | 0.706 | Historical foal number born per animal | 0.966 | 0.933 | 0.933 | 0.067 | 0.129 |
| Maximum foal number per birth | 0.716 | 0.512 | 0.421 | 0.488 | 0.113 | Maximum foal number per birth | 0.919 | 0.844 | 0.406 | 0.156 | 0.198 |
| Multiple birth number per animal | 0.980 | 0.961 | 0.803 | 0.039 | 1.838 | Multiple birth number per animal | 1.000 | 1.000 | 1.000 | 0.000 | 6.177 |