**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 S1.**Questions asked to the owner interviewed during the survey carried out regarding the fertility and prevalence of multiple births in donkeys.

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| Question | Question type/Answer |
| Block 1. Questions aimed at characterizing the farms |  |
| 1. How many animals are there in your farm? | Open question, depended on the farm. |
| 1. How many animals have been born at your farm? | Open question, depended on the farm. We confirmed the foaling record per each animal registered in the studbook. |
| 1. Where is your farm located? | Open question, depended on the farm. |
| 1. What is the sex of the animals? | Male  Female |
| 1. What is the age of your animals? | Open question, depended on the animals. |
| 1. What husbandry system would you consider could better describe your farm? (see Table 2, for descriptions on the husbandry system categories) | Intensive  Semi-intensive  Semi-extensive  Extensive |
| 1. Has any of the jennies in your farm given birth to multiple foals: twins, triplets, quadruplets, etc.? | Yes  No |
| 1. Did the offspring resulting survive? | Yes. 7.1. How long?  No |
| 1. Has any of the jennies in your farm suffered miscarriage or abortion? Did that abortion or miscarriage involve two or more embryos? | Yes  No |
| 1. Has any of the matings involving one of your jacks ended in a jenny giving birth to multiple foals? | Yes  No |
| 1. Do you sell semen from your jacks? | Yes  No |
| Block 2. Excluding question. Only the owners, who affirmatively responded to the question in this block, were considered for the estimation of genetic parameters (91 out of 145 owners interviewed). | |
| 1. Was the theriogenologist or veterinarian requested for diagnosis and was an official diagnose issued? | Yes  No |
| Block 3. Prevention and care practices. | |
| 1. Did the jennies presenting multiple gestations carried two or more embryos in more than one occasion? How many times? How many embryos were implanted and how many of them survived? | Yes  No |
| 1. Does the occurrence of multiple births prevent you from using a jenny or jack for breeding? | Yes  No |
| 1. Have you requested the actions of a veterinarian for the treatment of these conditions or to interrupt multiple gestations? | Yes  No |
| 1. Do you apply any treatment or preventive measure against multiple pregnancies? | Yes  No |
| 1. Have you ever used a traditional treatment or preventive measure? Was it effective? | Yes  No |
| 1. Is there any factor that you have regarded to potentially influence multiple gestation at your farms? Which one/s? | Yes  No |

The same questions were performed for each owner regarding each animal that has historically been under their care.