**Long-term implications of feed energy source in different genetic types of reproductive rabbit females. III. Fitness and productivity**

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| **Table S1** *P-Values for all the effects considered in the models used to analyse female traits* |
|  | **Genetic type****(GT)** | **Energy source****(ES)** | **Reproductive cycle****(RC)** | **GTxES** | **GTxRC** | **ESxRC** | **GTxESxRC** |
| Weight at first AI | <.0001 | 0.5449 | - | 0.8787 | - | - | - |
| Adult live weight1 | <.0001 | 0.2869 | - | 0.9433 | - | - | - |
| Conception rate2 | 0.0039 | 0.8660 | <.0001 | 0.7524 | 0.1031 | 0.8135 | 0.0414 |
| IBP3 | 0.0002 | 0.0979 | 0.1336 | 0.2467 | 0.1524 | 0.8822 | 0.0535 |
| Productivity4 | <.0001 | 0.7504 | - | 0.1320 | - | - | - |
| Survival rate5 | <.0001 | 0.8608 | - | 0.0375 | - | - | - |
| 1AW calculated as the average weight at fourth, fifth and sixth insemination for females reaching sixth parturition. 2 Pregnant at first attempt. 3 IBP: Interval between parturitions. 4 Weaned per year. 5 Percentage of females reaching up to 6th parturition. – Effect not included in the model. |

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| **Table S2** *P-Values for all the effects considered in the models used to analyse litter traits* |
|  | **Genetic type****(GT)** | **Energy source****(ES)** | **Reproductive cycle****(RC)** | **GTxES** | **GTxRC** | **ESxRC** | **GTxESxRC** |
| Litter size |  |  |  |  |  |  |  |
|  Total born | <.0001 | 0.0162 | <.0001 | 0.6519 | 0.5778 | 0.0691 | 0.6050 |
|  Born alive | <.0001 | 0.0606 | 0.0009 | 0.9902 | 0.1661 | 0.4707 | 0.3034 |
|  Stillborn | 0.0008 | 0.5536 | 0.0772 | 0.2230 | 0.5903 | 0.3155 | 0.7402 |
|  Standardized | 0.0239 | 0.9472 | <.0001 | 0.8936 | 0.0404 | 0.8776 | 0.9568 |
|  Weaned | 0.0133 | 0.5766 | <.0001 | 0.0481 | 0.0197 | 0.2386 | 0.0259 |
| Survival rate |  |  |  |  |  |  |  |
|  At parturition | <.0001 | 0.9197 | 0.0023 | 0.7657 | 0.0002 | 0.0073 | 0.0006 |
|  During suckling | 0.0024 | 0.3933 | <.0001 | 0.3320 | <.0001 | 0.0591 | <.0001 |
| Cumulated number at 5th weaning |
|  Born alive | <.0001 | 0.4776 | - | 0.4618 | - | - | - |
|  Weaned | <.0001 | 0.7530 | - | 0.1776 | - | - | - |
| Individual weight |  |  |  |  |  |  |  |
|  Total born | <.0001 | 0.0036 | 0.1606 | 0.3171 | 0.0299 | 0.0751 | 0.1454 |
|  Born alive | <.0001 | 0.0003 | 0.0340 | 0.2036 | 0.0768 | 0.0340 | 0.3419 |
|  Stillborn | 0.0166 | 0.0215 | 0.9558 | 0.0408 | 0.0612 | 0.0150 | 0.1976 |
|  Standardized | <.0001 | 0.0525 | <.0001 | 0.5289 | 0.3522 | 0.3737 | 0.1475 |
|  Weaned | <.0001 | <.0001 | 0.0255 | 0.9973 | 0.4515 | 0.8540 | 0.8752 |
| Individual maturity1  |  |  |  |  |  |  |  |
|  Total born | <.0001 | 0.8272 | <.0001 | 0.6799 | 0.0059 | 0.3656 | 0.0376 |
|  Born alive | <.0001 | 0.8797 | 0.1950 | 0.9027 | <.0001 | 0.8139 | 0.3034 |
|  Stillborn | 0.1244 | 0.0423 | 0.5185 | 0.0380 | 0.0359 | 0.1105 | 0.2711 |
|  Standardized | <.0001 | 0.8195 | <.0001 | 0.9548 | 0.4348 | 0.6065 | 0.0097 |
|  Weaned | <.0001 | 0.0094 | 0.2041 | 0.9565 | 0.7034 | 0.5802 | 0.6903 |
| 3 Estimated exclusively with litters from females reaching the sixth parturition as the ratio |