**Appendix 4.** Pearson correlation matrix among biometric parameters of low feed converters (FCR+). Upper values are the correlation coefficients and lower values are the p-values (statistical significance when p<0.1). In green those values that present positive correlation, in red those with negative correlation.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LFC** | **Length** | **CF** | **Carcass Index** | **Muscle****Fat** | **HSI** | **VSI** | **ACT Mesor** | **ACT Amplitude** | **ACT Acrophase** | **RESP Mesor** | **RESP Amplitude** | **RESP Acrophase** | **Phase Shift** |
| **Weight** | 0.914 | 0.325 | 0.371 | 0.402 | 0.335 | 0.165 | -0.085 | -0.033 | 0.093 | -0.105 | -0.045 | 0.013 | 0.015 |
| 3.20E-05 | 0.302 | 0.235 | 0.195 | 0.287 | 0.609 | 0.842 | 0.938 | 0.826 | 0.804 | 0.916 | 0.975 | 0.971 |
| **Length** |  | -0.082 | 0.100 | 0.359 | 0.104 | 0.075 | -0.416 | -0.196 | 0.563 | -0.069 | -0.321 | -0.415 | 0.492 |
|  | 0.799 | 0.758 | 0.251 | 0.748 | 0.817 | 0.305 | 0.642 | 0.146 | 0.871 | 0.438 | 0.307 | 0.215 |
| **CF** |  |  | 0.677 | 0.141 | 0.607 | 0.288 | 0.508 | 0.257 | -0.660 | -0.062 | 0.450 | 0.604 | -0.672 |
|  |  | 0.016 | 0.663 | 0.036 | 0.363 | 0.199 | 0.539 | 0.075 | 0.884 | 0.263 | 0.113 | 0.068 |
| **Carcass Index** |  |  |  | 0.213 | 0.291 | 0.030 | 0.456 | 0.128 | -0.622 | -0.090 | 0.466 | 0.591 | -0.651 |
|  |  |  | 0.505 | 0.358 | 0.927 | 0.256 | 0.762 | 0.100 | 0.831 | 0.244 | 0.123 | 0.080 |
| **Muscle Fat** |  |  |  |  | -0.173 | 0.098 | -0.221 | -0.612 | -0.347 | -0.904 | -0.137 | 0.335 | -0.368 |
|  |  |  |  | 0.591 | 0.761 | 0.599 | 0.107 | 0.400 | 0.002 | 0.746 | 0.417 | 0.370 |
| **HSI** |  |  |  |  |  | 0.530 | 0.740 | 0.796 | -0.535 | 0.395 | 0.344 | 0.111 | -0.239 |
|  |  |  |  |  | 0.076 | 0.036 | 0.018 | 0.172 | 0.333 | 0.404 | 0.794 | 0.569 |
| **VSI** |  |  |  |  |  |  | 0.581 | 0.255 | -0.290 | -0.254 | 0.225 | -0.207 | 0.087 |
|  |  |  |  |  |  | 0.131 | 0.542 | 0.486 | 0.543 | 0.593 | 0.623 | 0.838 |
| **ACT Mesor** |  |  |  |  |  |  |  | 0.830 | -0.625 | 0.420 | 0.631 | 0.250 | -0.376 |
|  |  |  |  |  |  |  | 0.011 | 0.098 | 0.300 | 0.093 | 0.550 | 0.358 |
| **ACT Amplitude** |  |  |  |  |  |  |  |  | -0.383 | 0.779 | 0.439 | 0.051 | -0.148 |
|  |  |  |  |  |  |  |  | 0.349 | 0.023 | 0.276 | 0.904 | 0.726 |
| **ACT Acrophase** |  |  |  |  |  |  |  |  |  | 0.081 | -0.320 | -0.599 | 0.763 |
|  |  |  |  |  |  |  |  |  | 0.849 | 0.439 | 0.117 | 0.028 |
| **RESP Acrophase** |  |  |  |  |  |  |  |  |  |  |  |  | -0.975 |
|  |  |  |  |  |  |  |  |  |  |  |  | 3.99E-05 |