**Table S2**

Correlations between gene expression patterns in chicken gonads at day 6 (upper triangle) and 11 (lower triangle) of the embryonic development.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gene | *WNT4*  | *SOX9*  | *IGF1R*  | *IGF1*  | *ESR1*  | *DMRT3*  | *DMRT1E* | *DMRT1*  | *CYP19*  | *BMP4*  | *AMH*  | *RSPO1*  | *HINTW* |
| *WNT4*  |  | -0.12 | 0.33 | 0.60\*\* | -0.01 | -0.05 | -0.02 | 0.02 | 0.91\*\*\* | -0.18 | 0.6\*\* | -0.04 | 0.05 |
| *SOX9*  | 0.13 |  | -0.14 | 0.00 | -0.03 | -0.01 | -0.13 | 0.07 | -0.13 | 0.79\*\*\* | 0.00 | 0.88\*\*\* | 0.10 |
| *IGF1R*  | 0.41\* | 0.22 |  | 0.20 | 0.16 | 0.27 | 0.202 | 0.01 | 0.48\* | 0.1 | 0.2 | -0.3 | 0.24 |
| *IGF1*  | 0.01 | 0.03 | 0.46\* |  | -0.03 | 0.06 | 0.07 | 0.29 | 0.67\*\*\* | -0.16 | 1.0\*\*\* | 0.01 | 0.11 |
| *ESR1*  | -0.07 | -0.08 | -0.24 | -0.22 |  | 0.07 | -0.06 | 0.03 | 0.17 | -0.07 | -0.02 | -0.04 | -0.01 |
| *DMRT3*  | 0.1 | 0.11 | 0.76\*\*\* | 0.45\* | -0.28 |  | 0.01 | 0.17 | 0.01 | -0.17 | 0.06 | -0.13 | -0.03 |
| *DMRT1E* | 0.01 | 0.63\*\*\* | 0.56\*\* | 0.49\* | -0.3 | 0.58\*\* |  | -0.06 | -0.05 | -0.14 | 0.07 | -0.11 | 0.02 |
| *DMRT1* | -0.08 | -0.08 | -0.19 | 0.03 | 0.04 | -0.07 | 0.24 |  | -0.01 | -0.04 | 0.29 | -0.07 | -0.1 |
| *CYP19*  | 0.96\*\*\* | 0.05 | 0.33 | 0.01 | -0.1 | 0.07 | -0.05 | -0.04 |  | -0.16 | 0.67\*\*\* | -0.03 | 0.07 |
| *BMP4*  | 0.84\*\*\* | 0.57 | 0.47\* | 0.1 | -0.03 | 0.17 | 0.35 | -0.1 | 0.79\*\*\* |  | -0.16 | 0.82\*\*\* | 0.24 |
| *AMH*  | 0.01 | 0.03 | 0.46\* | 1\*\*\* | -0.22 | 0.46\* | 0.49\* | 0.03 | 0.01 | 0.1 |  | -0.00 | 0.11 |
| *RSPO1*  | 0.02 | 0.35 | 0.04 | -0.01 | -0.05 | -0.13 | 0.15 | 0.02 | -0.08 | 0.01 | -0.02 |  | 0.44\* |
| *HINTW* | 0.97\*\*\* | 0.18 | 0.46\* | 0.1 | -0.08 | 0.17 | 0.08 | -0.06 | 0.95\*\*\* | 0.86\*\*\* | 0.1 | -0.01 |  |

Significant correlations at P< 0.05, 0.01, and 0.001 are depicted by \*, \*\*, and \*\*\*, respectively.