|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Canonical pathways** | **Gene** | **RNAseq analysis** |  | **qPCR analysis** | **Global effect** |
|  |
| Oocytes |  | Granulosa cells |  | Oocytes |  | Granulosa cells |  |
|  |  |  |  |
| PM | SC | SA |  | PM | SC | SA |  | PM | SC | SA |  | PM | SC | SA |
|  |  |  |
| BMP | MAGED1 |   |  | 0.26 |  |  |  |  |  |  |  |  |  |  |  |  | **NS** |
| NOG |  | 0.002 | 0.05 |  |  |  |  |  |  |  **-** ∞ | **0.073** |  |  |  |  | **\*\*** |
| SMURF1 |  |  |  |  |  |  | 0.05 |  |  |  |  |  | **32.21** | **0.13** |  | **\*\*\*** |
| ACVRL1 |   | 0.26 | 0.05 |   |   |   | 0.22 |   |  | **0.65** |  |  |  |  |  | **\*** |
| IGF1 | IGF1 |   |  | 0.11 |  |  |  |  |  |  |  |  |  |  |  |  | **NS** |
| INSL3 |  | 17.69 | 0.11 |  |  | 12.10 | 63.10 |  |  |  |  |  |  |  | **42.25** | **\*** |
| SPRY4 |   | 0.014 | 579 |   |   |   |   |   |  |  |  |  |  |  |  | **NS** |
| Gap junction | GJA1 |   |   |   |   |   | 3.49 | 5.44 |   |  |  |  |  |  | **1.38** | **1.50** | **\*** |
| WNT | WIF1 |   |  |  |  |  | 0.37 | 0.14 |  |  |  |  |  |  |  | **0.29** | **\*** |
| LRP2 | 3.9 | 9.11 | 9.45 |  |  |  | 0.18 |  |  |  |  |  |  |  |  | **NS** |
| FGF | FGF16 |   |   | 4.62 |   | 3.03 | 0.32 | 0.14 |   |  |  | **4.77** |  | **2.38** |  | **0.45** | **\*\*\*** |
| PI3K | PIK3R3 |   |  |  |  |  | 0.004 |  |  |  | **31.18** | **16.38** |  |  |  |  | **\*\*\*** |
| KITLG |  |  |  |  |  | 3.22 | 7.09 |  |  |  |  |  |  | **5.41** | **13.32** | **\*** |
| KIT  |   |   |   |   |   |   | 0.22 |   |  |  |  |  |  |  |  | **NS** |
| RAR activation | CRABP1 |   | 0.11 | 0.06 |   |   | 0.12 | 0.12 |   |  | **0.01** |  **- ∞** |  |  |  | **0.09** | **\*\*\*** |
| Apoptosis | BCL2 |  | **- ∞** | **+ ∞** |  |  |  |  |  |  | **0.01** | **208** |  |  |  |  | **\*** |
| GATA2 |  | 17.60 | 78.96 |  |  |  |  |  |  |  |  |  |  |  **- ∞** |  **+ ∞** | **\*** |
| MYC |  |  |  |  |  |  | 4.51 |  |  | **4.85** | **4.01** |  |  | **2.95** | **3.97** | **\*** |
| MOS |   | 3.36 | 5.27 |   |   |   | 0.33 |   |  |  | **5.08** |  |  |  | **0.23** | **\*\*\*** |

\*: p value <0.05; \*\*: p value <0.01; \*\*\*: p value <0.005