|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 5. Aberrant methylated COST regions. |  |  |  |  |
| **Hypomethylated** |
|   | BWS4 | BWS5 | BWS7 |  Number of patients |
| Gene name | SignificantDMPs | Betadif.min/max (mean) | SignificantDMPs | Betadif.min/max (mean) | Significant DMPs | Betadif.min/max (mean) |
| IGF1R |   |   |   |   | 3 | -0.27/-0.18(-0.22) | 1 |
| NHP2L1 |   |   |   |   | 6 | -0.23/-0.20(-0.22) | 1 |
| PEG10 |   |   | 2 | -0.22/-0.125(-0.17) |   |  | 1 |
| L3MBTL1 |   |   |   |   | 24 | -0.34/-0.09(-0.22) | 1 |
| KCNQ1OT1 | 2 | -0.45/-0.37(-0.41) |   |   |   |  | 1 |
| **Hypermethylated** |
|   | BWS7 | BWS9 | BWS22 | BWS24 | BWS25 | Number of patients |
| Gene name | SignificantDMPs | Betadif.min/max(mean) | Significant DMPs | Betadif.min/max (mean) | Significant DMPs | Betadif.min/max (mean) | Significant  DMPs | Betadif.min/max(mean) | Significant DMPs | Betadif.min/max(mean) |
| H19 |   |   |   |   | 3 | 0.07/0.12(0.09) | 8 | 0.05/0.14(0.08) | 26 | 0.06/0.14(0.10) | 3 |
| KCNQ1OT1 |   |   | 2 | 0.14/0.46(0.30) |   |  | 6 | 0.06/0.12(0.09) | 7 | 0.06/0.13(0.09) | 3 |
| MEST |   |   |   |  | 2 | 0.08/0.15(0.11) | 6 | 0.09/0.14(0.11) | 8 | 0.08/0.14(0.11) | 3 |
| PEG13 |   |   |   |  | 2 | 0.13/0.16(0.15) | 2 | 0.11/0.12(0.11) | 3 | 0.09/0.14(0.12) | 3 |
| PEG10 |   |   |   |  |   |  | 8 | 0.06/0.11(0.10) | 7 | 0.07/0.10(0.09) | 2 |
| FAM50B |   |   |   |  |   |   | 2 | 0.07/0.10(0.09) | 8 | 0.08/0.12(0.10) | 2 |
| GNAS-A/B |   |   |   |  |   |   | 7 | 0.05/0.13(0.08) | 4 | 0.06/0.15(0.10) | 2 |
| NAP1L5 |   |   |   |  |   |   | 3 | 0.08/0.22(0.13) | 2 | 0.07/0.10(0.10) | 2 |
| ZNF331variant\_7 |   |   |   |  |   |   | 2 | 0.11/0.11(0.11) | 3 | 0.10/0.15(0.12) | 2 |
| ZNF331variants\_4-6 |   |   |   |  |   |   | 2 | 0.09/0.09(0.09) | 3 | 0.08/0.12(0.10) | 2 |
| MCTS2P |   |   |   |  |   |   | 2 | 0.06/0.10(0.08) | 3 | 0.08/0.12(0.10) | 2 |
| GNAS-NESP  |   |   |   |  |   |   | 2 | 0.11/0.13(0.12) | 3 | 0.10/0.13(0.11) | 2 |
| DIRAS3 |   |   |   |  |   |   | 2 | 0.06/0.12(0.09) | 3 | 0.07/0.09(0.08) | 2 |
| SNRPN/SNURF |   |   |   |  |   |   | 2 | 0.11/0.12(0.11) | 2 | 0.11/0.11(0.11) | 2 |
| MEG3 |   |   |   |  |   |   | 5 | 0.07/0.11(0.09) | 6 | 0.06/0.10(0.09) | 2 |
| ZNF597 |   |   |   |  |   |   | 2 | 0.12/0.14(0.13) | 2 | 0.09/0.13(0.11) | 2 |
| IGF2\_3'UTR |   |   |   |  |   |   | 3 | 0.11/0.20(0.15) |   |  | 1 |
| PEG3 |   |   |   |  |   |   |   |  | 2 | 0.07/0.10(0.09) | 1 |
| NHP2L1 |   |   |   |  |   |   |   |  | 2 | 0.09/0.10(0.09) | 1 |
| L3MBTL1 |   |   |   |  |   |   | 2 | 0.09/0.09(0.09) |   |  | 1 |
| GNAS-AS1 |   |   |   |  |   |   |   |  | 2 | 0.08/0.09(0.09) | 1 |
| ZDBF2 | 4 | 0.14/0.30(0.24) |   |  |   |   |   |  |   |  | 1 |
| INPP5F |   |  |   |  |   |   |   |  | 3 | 0.18/0.28(0.25) | 1 |
| NNAT |   |   |   |  |   |   | 3 | 0.08/0.15(0.10) |   |  | 1 |