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| **Table S4.** Mann-Whitney p-values for differential H3K4me3 or H3K27me3 signal in the "meiosis" and "cellular response to retinoic acid" GO categories, comparing sexes and time points |
|  |  | f12 vs. m12 | f13 vs. m13 | f14 vs. m14 | f12 vs. f13 | f13 vs. f14 | f12 vs. f14 | m12 vs. m13 | m13 vs .m14 | m12 vs. m14 |
| H3K4me3 | Cellular response to RA (GO:0073300) | 0.1526 | 0.2824 | **0.04424** | 0.4178 | 0.3169 | **0.04129** | **0.08508** | **0.006513** | **0.001763** |
|  | Meiosis (GO:0007126) | 0.1689 | **0.01812** | **0.02123** | **0.008963** | 0.1729 | **0.006486** | **0.08675** | **0.007351** | **0.0001722** |
| H3K27me3 | Cellular response to RA (GO:0073300) | 0.1324 | **6.96E-06** | **0.0008081** | **0.02487** | **0.02725** | **0.01623** | **0.0009771** | **2.28E-06** | **0.02581** |
|  | Meiosis (GO:007126) | **0.007686** | 0.2014 | **0.003004** | 0.8496 | **0.08527** | 0.2431 | 0.8147 | 0.1627 | 0.1887 |