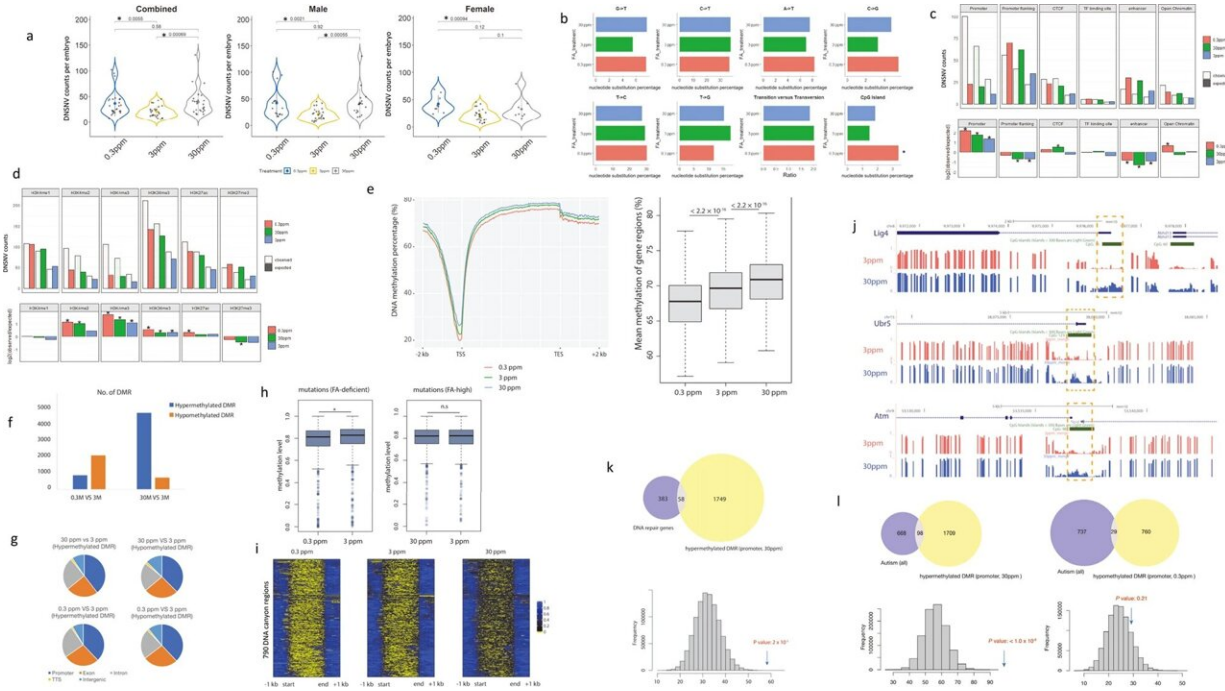


Assessing the risk of excess folic acid intake

March 6 2023



Both high FA and low FA intake increases de novo mutation rate and disrupt genome DNA methylation in the offspring. **a** Violin Plot of DNSNV/DNM (de novo mutation) counts among the three different FA dietary groups (sample size for each group was as follows; combined panel: 0.3 ppm group $n = 26$; 3 ppm group $n = 26$; 30 ppm group $n = 25$. Male panel: 0.3 ppm group $n = 17$; 3 ppm group $n = 26$; 30 ppm group $n = 17$. Female panel: 0.3 ppm group $n = 9$; 3 ppm group $n = 26$; 30 ppm group $n = 8$). Mann-Whitney U test was performed to test the differences among different groups. **b** Nucleotide substitution, Ts/Tv transition versus transversion ratio and CpG island DNM enrichment. Asterisks indicate significant enrichments (P

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