

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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