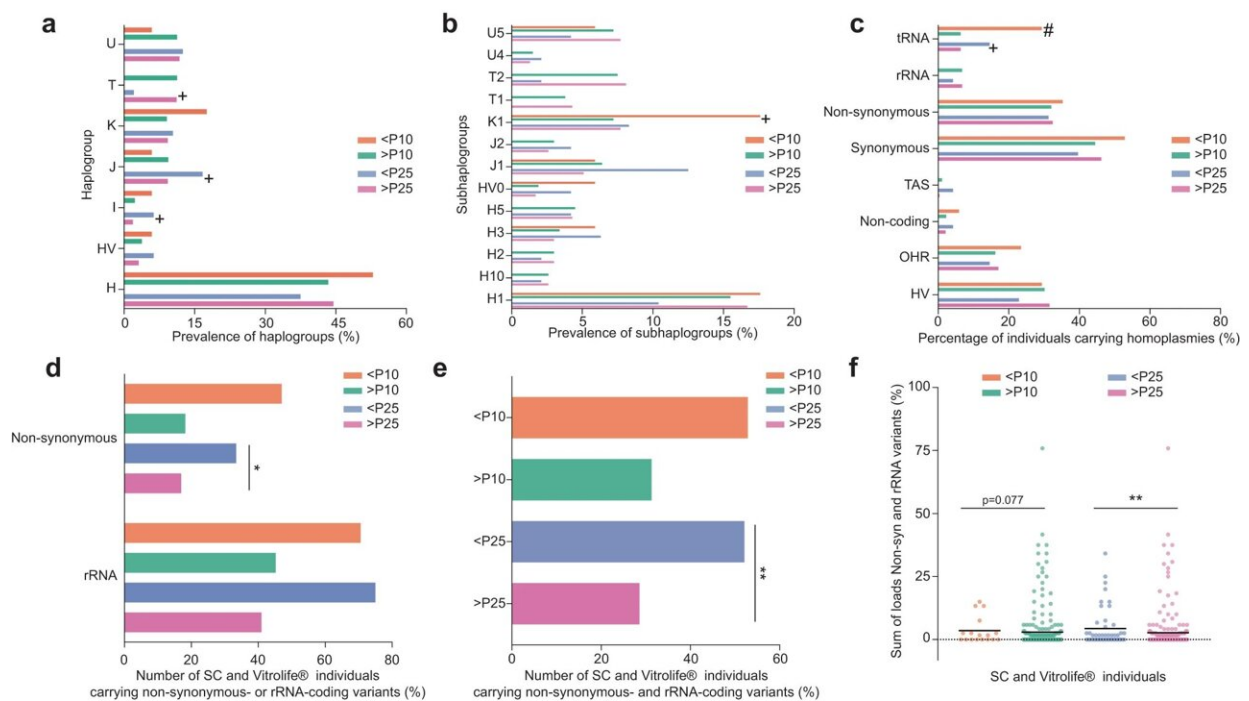


# Research team discovers genetic cause of low birth weight among children conceived after fertility treatment

February 12 2024



Lower birthweight spontaneously conceived individuals and ART that are exposed to Vitrolife culture medium have higher incidence of non-synonymous and rRNA variants. **a, b** Prevalence of the haplogroups and subhaplogroups, respectively, across SC and ART individuals exposed to Vitrolife culture medium, categorized according to their birthweight percentile. Two-sided Fisher-exact test, no significant differences were found after Bonferroni correction ( $p$  values  $\leq 0.007$  were considered significant). **c** Percentage of SC and ART individuals exposed to Vitrolife culture medium carrying homoplasmic variants in the different regions and categorized according to their birthweight percentile.

Homoplasms in the tRNA regions were more frequently found in children with a birthweight

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