## Effects of the SNPS on rs855791 and rs3811647 on the Levels of SF and sTFR in the Group of 8-14

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**Abstract :** Objective: To investigate effects on the levels of SF and sTfR by the SNPs of rs855791on TMPRSS6 and rs3811647 on TF in adolescent. Methods: DNA was extracted from venous blood which were drawn from 50 subjects, and then the two SNPs of each sample were identified by Sequenom MassArray. T test and chi-square test were selected to identify the relationship between the levels of SF and sTfR in each allele carriers, and then the effects of each SNP on the levels of SF and sTfR would be assessed. Results: The level of SF of A allele carriers on rs855791 ( $54\pm28.2$  ng/ml) was higher than GG carriers ( $33.1\pm20.2$  ng/ml) (P<0.05), and the discrimination of the level of sTfR between each allele carrier was not observed (P>0.05); the discriminations of the different levels of SF and sTfR among each SNP on rs3811647 were not observed (P>0.05). Conclusions: The level of SF may be affected by the SNP of rs855791on TMPRSS6, and the effect of rs3811647 on TF may be weakened by the former one.

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Keywords : SNP, SF, sTfR, adolescent Conference Title : ICNFS 2015 : International Conference on Nutrition and Food Sciences Conference Location : Zurich, Switzerland Conference Dates : July 29-30, 2015