新疆蒙古族对糖精和乙酰水杨酸尝味能力的分析 Analysis of Saccharin and Aspirin Tasting Ability among Mongolians of Xiniiana

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对710名(男328人,女382人)新疆蒙古族进行了糖精和乙酰水杨酸尝味能力的检测分析。结果表明,蒙 古人群中的糖精味盲率为4.648%,没有尝味能力的隐性基因频率为0.2156,具有尝味能力的显性基因频率为 0.7844,平均尝味阈值为8.009±1.34(0.108mo1/L)。乙酰水杨酸的尝味阈值分布出现了非常明显的双峰一谷分 ▶ 文章反馈 布,表明该性状是单基因决定的性状,谷底7号液(3.00×10-4 mo1/L)是味盲的界限,味盲的峰值在1号液(1.7 $\times 10-2$ mo1/L), 尝味者的峰值在11号液(1.25 $\times 10-5$ mo1/L), 味盲率为90.282%, 。 $\mathcal{G}_{\gamma}2$ 检验, 男、女性的味盲率 无显著差异(P>0.90),表明决定乙酰水杨酸尝味能力的基因位于常染色体,对该基因的显隐性等特点尚需通过 家系分析进行确定。

Abstract: The saccharin and aspirin tasting abilities have been detected and analyzed in 710 individuals (328men, 382women) of Xinjiang Mongol. It is showed that the saccharin taste-blindness ratio among Mongolians was 4.648%, frequency of the recessive gene determining taste-blindness and the dominant gene determining taste ability was 0.2156, and 0.7844 respectively, and its mean testable threshold was 8.00 ± 1.34 (0.108mol/L). Distribution of aspirin tasting threshold appeared a distinct curve with double peaks and single bottom, and demonstrated the aspirin tasting ability was a monogenic character. Solution No. 7 (3.00 \times 10-4mol/L) at the bottom in the curve was the boundary of taste-blindness. The peak of taste-blindness was at the solution NO.1 $(1.7 \times 10-2 \text{mol/L})$, and the peak of tasters was at the solution NO.11 $(1.25 \times 10-5 \text{mol/L})$, The ratio of aspirin taste-blindness was 90.28%. The γ 2 test has been used to evaluate the statistical difference in aspirin tasteblindness ratio between male and female, the result showed that there was no significant difference (P>0.90), and the gene determining for aspirin tasting ability located on autosomes.

新疆蒙古人 糖精 乙酰水杨酸 味盲率 基因频率 Key words Mongolians of Xinjiang saccharin aspirin taste blindness gene frequency

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