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Karyotype Analysis in Hexaploid Triticale

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Abstract: In this study, morphology of chromosomes was determined via karyotype and idiogram analysis in Nutria 7272 line of hexaploid (2n=42) triticale obtained from CIMMYT. On the bases of the presence or absence of satellites and the arm ratio, the chromosome complement was divided into four groups; satellited, median, submedian and subterminal chromosomes. Of the 42 chromosomes present in Nutria 7272 karyotype, 4 were satellited, 14 median, 18 submedian and 6 subterminal. The chromosome length and the arm ratio were 4.844 μ (M_7) - 8.066 μ (SM_1) and 1.091 (M_7) - 2.125 (SM_1), respectively. The satellite length of SAT_1 and SAT_2 chromosomes were 0.878 and 0.823 μ, respectively.

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