



Report of new cultivar DOGO, NEW CUBAN CULTIVAR OF FLOR DE JAMAICA (*Hibiscus sabdariffa* L.), OBTAINED THROUGH MUTATION INDUCTION WITH ^{60}Co GAMMA RAYS

Reporte de nuevo cultivar DOGO, nuevo cultivar cubano de Flor de Jamaica (*Hibiscus sabdariffa*, L) obtenido por inducción de mutaciones con rayos gamma ^{60}Co

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ABSTRACT. At the National Institute of Agricultural Sciences was obtained a new cultivar of Jamaica flower through the use of mutation induction. Differs from the donor in the cycle, number of fruits per plant, fruit weight and leaf shapes.

Key words: induced mutation, mutant,
gamma rays

RESUMEN. En el Instituto Nacional de Ciencias Agrícolas se obtuvo un nuevo cultivar de Flor de Jamaica mediante el empleo de inducción de mutaciones. Difiere de la variedad donante en el ciclo, número de frutos por planta, peso de los frutos y forma de las hojas.

Palabras clave: mutación inducida, mutante,
rayos gamma

INTRODUCTION

The Flor de Jamaica (*Hibiscus sabdariffa* L.) is used in many parts of the world for its beauty as an ornamental plant, the delicious taste of teas, wines and soft drinks, as well as for its medicinal properties; however, the genetic diversity in Cuba is very limited, so it is of interest to have Cuban varieties that make possible the increase of areas sown with this crop.

METHODOLOGY USED

Yerzy variety seeds were irradiated with gamma ^{60}Co (100 Gy) and from the M_2 generation selecting individual plants that showing greater potential variations in production and some characters are performed. In M_4 generation was observed a phenotypic uniformity in a line differed from parental in the number of branches per plant, the shape of leaves, the number of fruit per plant and average mass of the fruits. This variety has been introduced in different provinces and it was registered for listing on the official variety list of our country (table).

Modified characters in Dogo mutant related to parental Yerzy

Character	Yerzy	Dogo
Leaf shape	Trilobulated	Pentalobulated
Lobules of leaves	Broken $\frac{3}{4}$ to the base	Broken $\frac{1}{4}$ to the base
Number of primary branches	16,3	30,8
Number of fruits per plants	110	137,3
Average fruit mass	8,2 g	11,1g

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