

The Stability of Several Traits of Tulip Genotypes Studied in Order to Register as New Cultivars

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SUMMARY

Five tulip (*Tulipa* sp.) genotypes ('HT 111', 'HT 124', 'HT 127', 'HT 130' and 'HT 132') obtained by controlled crossing followed by repeated selection, at Research Development Institute for Vegetable and Flower Growing (RDIVFG) Vidra, Romania, were studied in 2009-2010 period, in order to recommend for homologation. The relevant characteristics were analysed, following UPOV guidelines (2006). For principal traits, as blooming period in natural conditions, plant height, flower type, shape, length, colour etc., the genotypes were registered with a high stability, the coefficient of variability being under 10% which means a low variability (Munteanu, 2008). The results showed a suitable stability of the traits. All genotypes presented a beautiful colour of flowers, convex or flat (standard) tepals (Tab. 1), and other favourable peculiarities, and for these reasons they will be proposed for registration as new cultivars in next years.

Tab. 1

The main characteristics of several tulip genotypes created to RDIVFG Vidra

Relevant characteristics		Genotype				
		'HT 111'	'HT 124'	'HT 127'	'HT 130'	'HT 132'
Blooming period		Late	Late	Late	Late	Late
Plant height	Average (cm)	32.7	51.2	58.7	51.6	57.6
	Standard deviation	0.98	0.89	0.73	0.94	0.78
	Variability coefficient (%)	2.99	1.73	1.24	1.82	1.35
Flower	Type	Single	Single	Single	Single	Single
	Main colour	Medium pink	Light yellow	Light red	White	Dark red
	Shape	Ellipsoid	Ovoid	Ovoid	Ovoid	Ovoid
Flower length	Average (cm)	6.7	7.8	8.5	6.7	7.4
	Standard deviation	0.52	0.35	0.65	0.54	0.67
	Variability coefficient (%)	7.76	4.48	7.6	8.05	9.05
Tepals	Shape	Standard	Standard	Standard	Standard	Standard

Keywords: genotype, *Tulipa* sp., traits, stability

REFERENCES

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- 2.*** UPOV (2006). Guidelines for the conduct of tests for distinctness, uniformity and stability: UPOV code: *Tulipa* sp. Geneva.