

Table 5 The variation types of M₃ induced by colchicines in Jingnong6 of Azuki bean

Type of variation		0.4% colchicine (12 h)		0.2% colchicine (12 h)	
		No. of mutants	Frequency of mutants	No. of mutants	Frequency of mutants
Leaf trait	Deep-green leaf	9	0.90	2	0.20
	Light-green leaf	8	0.80	0	0.00
	New leaf yellowing	3	0.30	2	0.20
	Yellow spot leaf	4	0.40	1	0.10
	Sword leaf	19	1.90	0	0.00
	Kidney leaf	10	1.00	17	1.70
	Small heart-shape leaf	12	1.20	6	0.60
	Glave kidney leaf	7	0.70	0	0.00
Plant architecture	Higher plants	10	1.00	0	0.00
	Tight type	5	0.50	1	0.10
	Excessive branches	2	0.20	1	0.10
	Few branches	7	0.70	0	0.00
	Thick stalk	2	0.20	0	0.00
	Definite growth	34	3.40	25	2.50
	Sprawl mutant	2	0.20	1	0.10
Pod trait	Black pod	15	1.50	0	0.00
	Plenty pods	8	0.80	2	0.20
	Yellow-white seed	1	0.10	0	0.00
Seed trait	Light red seeds	5	0.50	12	1.20
	Dark red seeds	10	1.00	0	0.00
	Big seeds	3	0.30	0	0.00
Maturing trait	Late maturing	8	0.80	1	0.10
	Early maturing	6	0.60	3	0.30
Total		189	18.90	74	7.40