

### Genetic analysis of safflower to aphids: (2012-15)

2012: Crosses were made between susceptible CO-1 and resistant EC523368-2 and CO-1 (S) X A-1 (R)

2013-15: Screening was done

Chi-square test for significance of Mendelian genetic ratios of aphid resistance in safflower crosses

Cross	Number of F <sub>3</sub> families				Mendelian ratio of F <sub>2</sub> population	χ <sup>2</sup> value
	Total	R	Segregating	S		
CO1 x A1	102	7	47	48	15 (S):1 (R)	0.177
CO1 x EC523368-2	118	11	39	68	15 (S):1 (R)	2.429

χ<sup>2</sup> significance value at (P=0.05) = 3.841; R – Resistant, S – Susceptible

