Monohybrid	F1(+) x F1	9910	2:1:1	2.06 : 1.04 :	1.76	2	0.41	Accepted
	(+)			1.00				

DISCUSSION

Lethal mutation

L1 Parental cross

 \bigcirc ST+ x \bigcirc ++ was 50% wild and 50% mutant as expected from Mendel's first law of segregation. All the offspring will at least have one wild allele from the homozygous wild parent. From the heterozygous parent, half of the progeny will have a wild allele while the other half will have the mutant allele. In sum, a 50% wild type and 50% mutant type as expected from classical genetics was obtained.

L1 F1 cross

Crossing \bigcirc ST+ x \bigcirc ST+ resulted to 67% mutant and 33% wild offspring. From Mendel genetic, the expected phenotypic ratio would have been a 3+ : 1ST. However, ST is a lethal mutation which implies that offspring that are STST would not survive (Griffiths et al., 2004). An two the probability is redistributed to the surviving offspring to give a 2011 (1)+4 hatio. *L2 Parental cross* For the P SF+, ++ x $^{+}$ ++, SB+ whereby boin parents are wild type and also heterozygous for different

genes out of two genes of interest, the classical 100% wild (+) was obtained. This followed Mendel's law of segregation and independent assortment.

L2 F1 cross

Was obtained from crossing ST+, SB+ x $\stackrel{\frown}{\bigcirc}$ ST+, SB+.

Epistasis E1

Parental

For the \bigcirc EY,+ x \bigcirc +,BW both parents are wild type and also heterozygous for different genes out of two genes of interest, the classical 100% wild (+) was obtained. This followed Mendel's law of segregation and independent assortment.

F1 cross

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