

Notes for Lethal Recessive

Lethal Recessives are alleles that cause the organism to die IF they have two copies of the allele (homozygous recessive).

In snapdragons flowers, there is an allele for green leaves (G), an allele for golden leaves (g) and a lethal recessive (g^l). The golden leaf allele (g) is dominant to the lethal allele (g^l). [$G > g > g^l$] Plants that have two of the lethal recessive alleles cannot make normal chlorophyll and either die as embryos or within a few days of sprouting.

What would happen if you crossed a green-leaved plant with a golden-leaved plant, if both carried the lethal recessive?

Parent Codes

Gg^l gg

	G	g^l
g	Gg ☐	gg^l ☐
g^l	Gg^l ☐	$g^l g^l$ ☐

G-Ratio: $1:1:1$

P-Ratio: $2:1$

What percentage of the offspring will survive? 75%

How would this be different if only one of the parents carried the lethal recessive? _____