











(b) fass seedling



#### (c) Mature fass mutant













Leaves produced by adult phase of apical meristem

Leaves produced by juvenile phase of apical meristem



(a) Normal Arabidopsis flower



(b) Abnormal Arabidopsis flower



#### (b) Side view of flowers with organ identity mutations





(b) Side view of flowers with organ identity mutations









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#### Guard cells turgid/Stoma open Guard cells flaccid/Stoma close



## (a) Changes in guard cell shape and stomatal opening and closing (surface view)

#### Guard cells turgid/Stoma open Guard cells flaccid/Stoma close



#### (b) Role of potassium in stomatal opening and closing







#### EXPERIMENT







### Aphid feeding

# Stylet in sieve-tube element

Separated stylet exuding sap