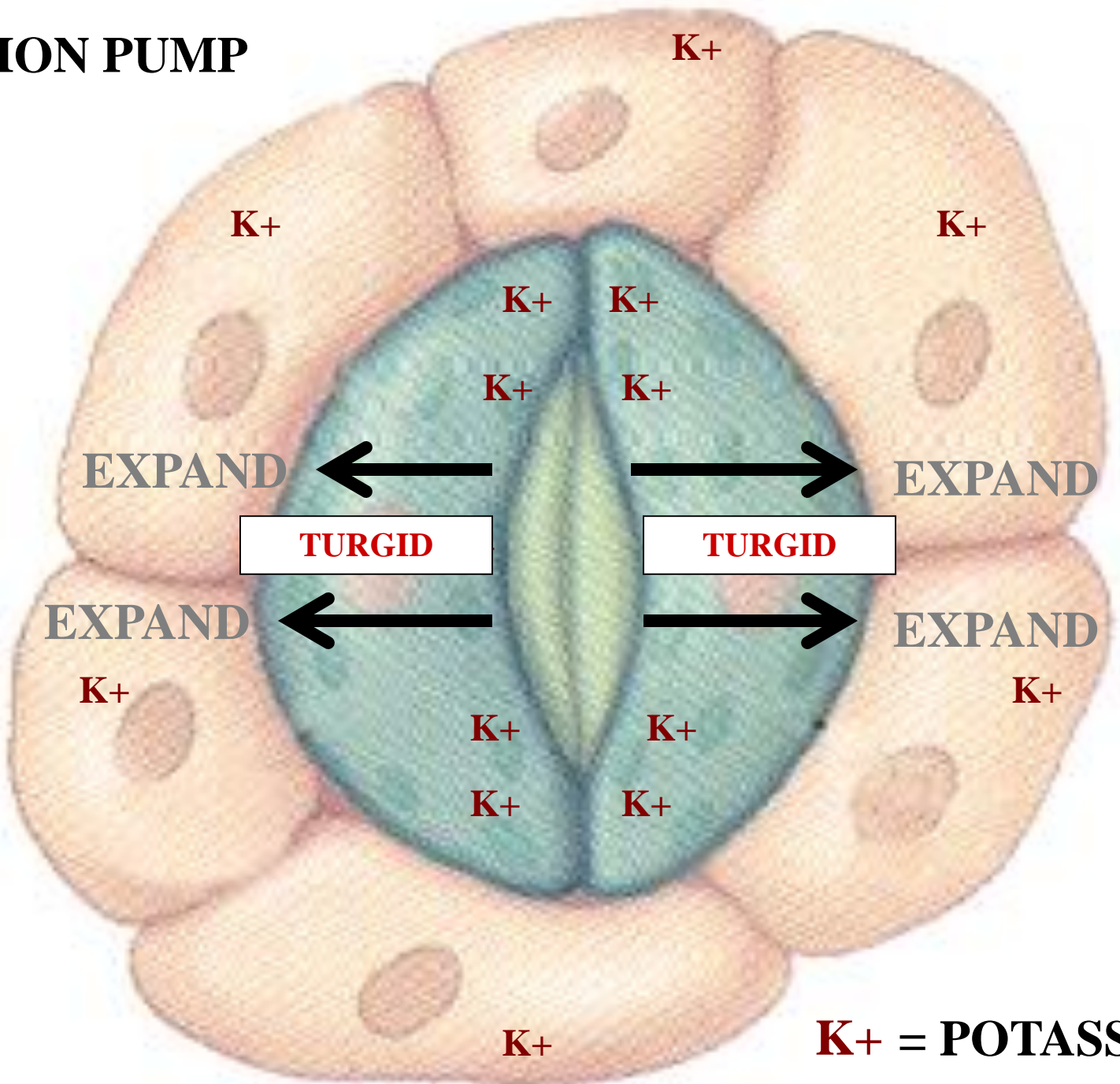
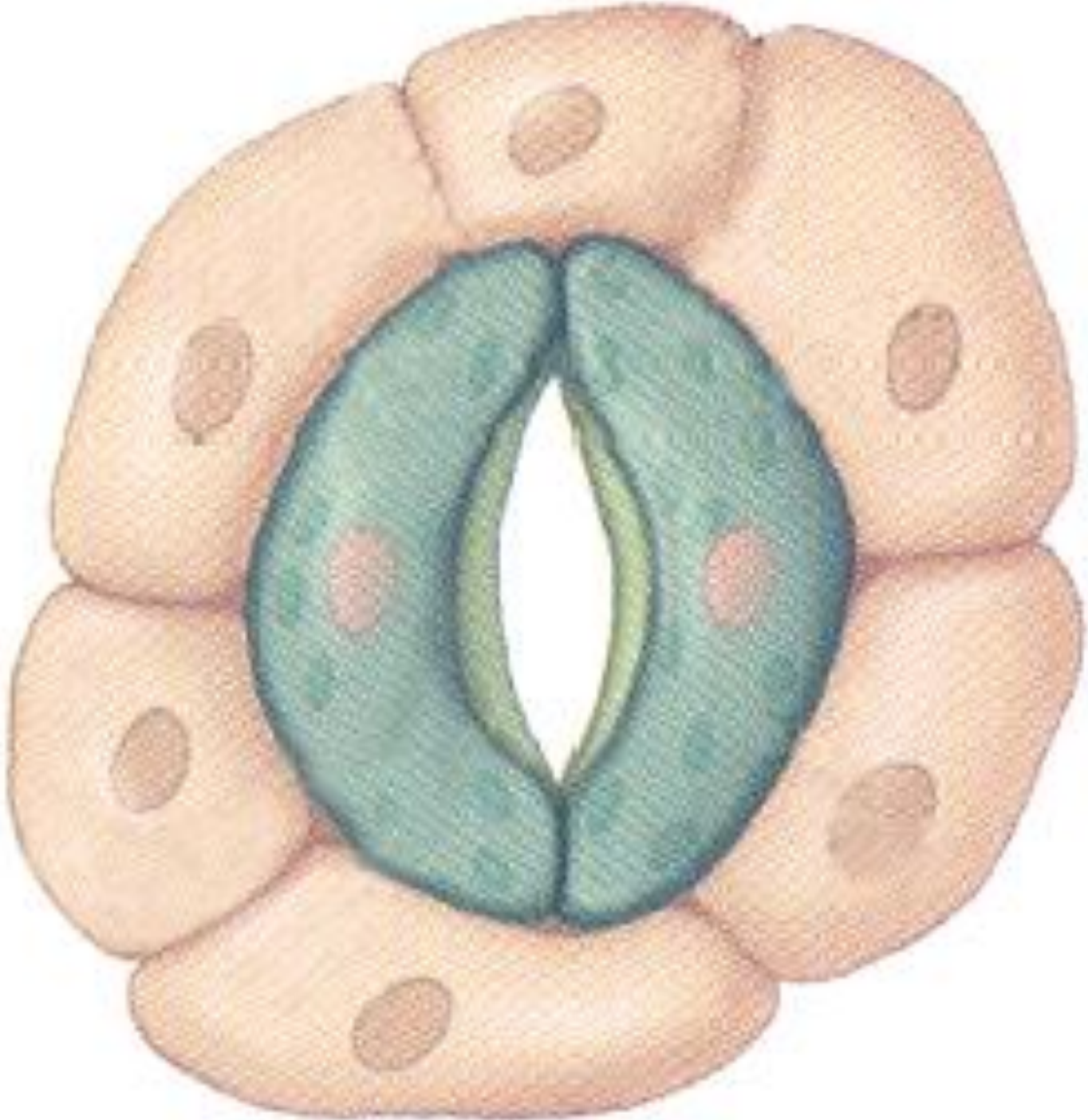


 = ION PUMP



K^+ = POTASSIUM





FACTORS AFFECTING STOMATE

**LEAF
CO₂
CONCENTRATION**



HIGH LEAF CO₂ CONCENTRATION



CO₂

CO₂

CO₂

CO₂

CO₂

CO₂

CO₂

CO₂

CO₂

CO₂

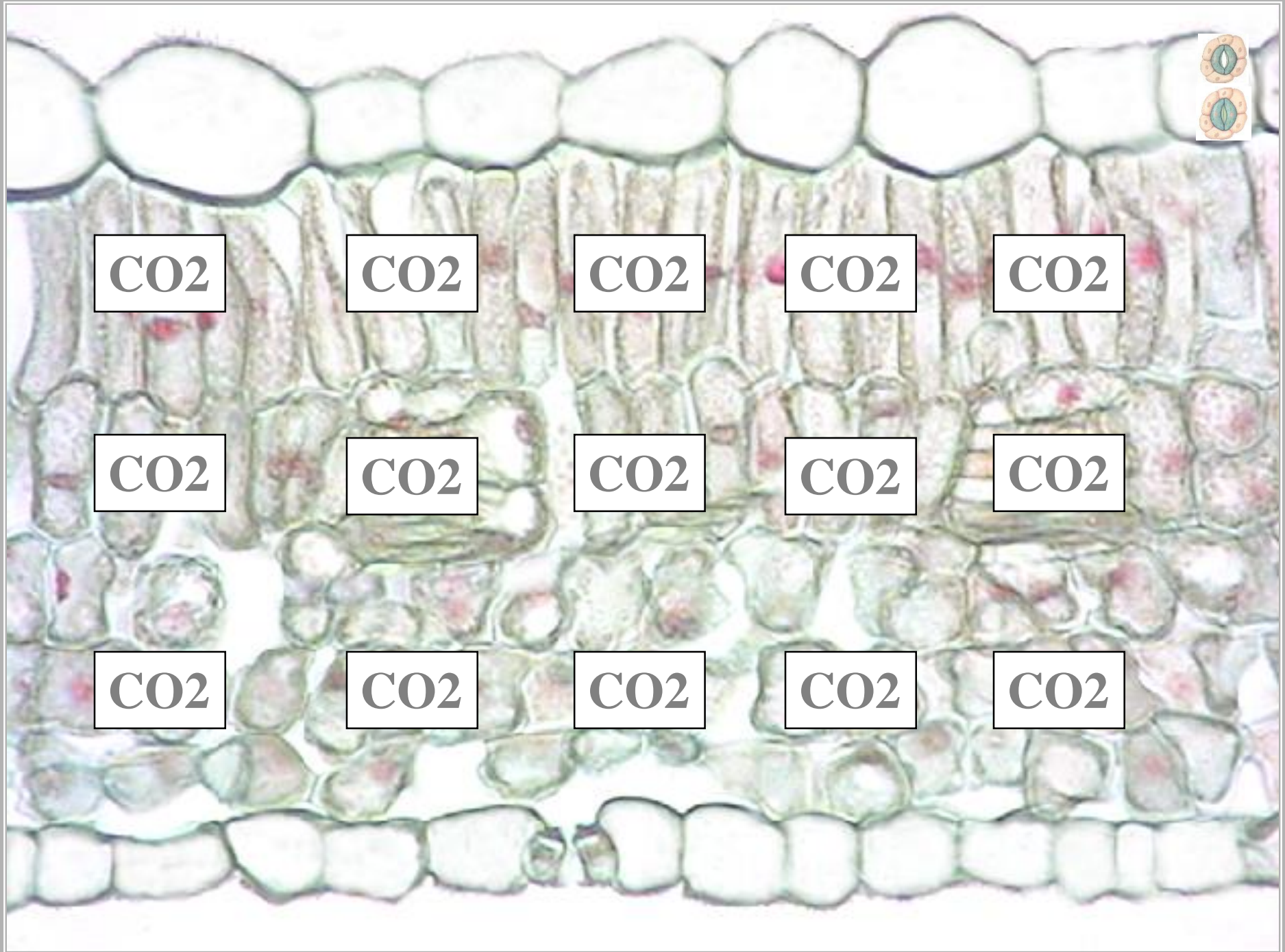
CO₂

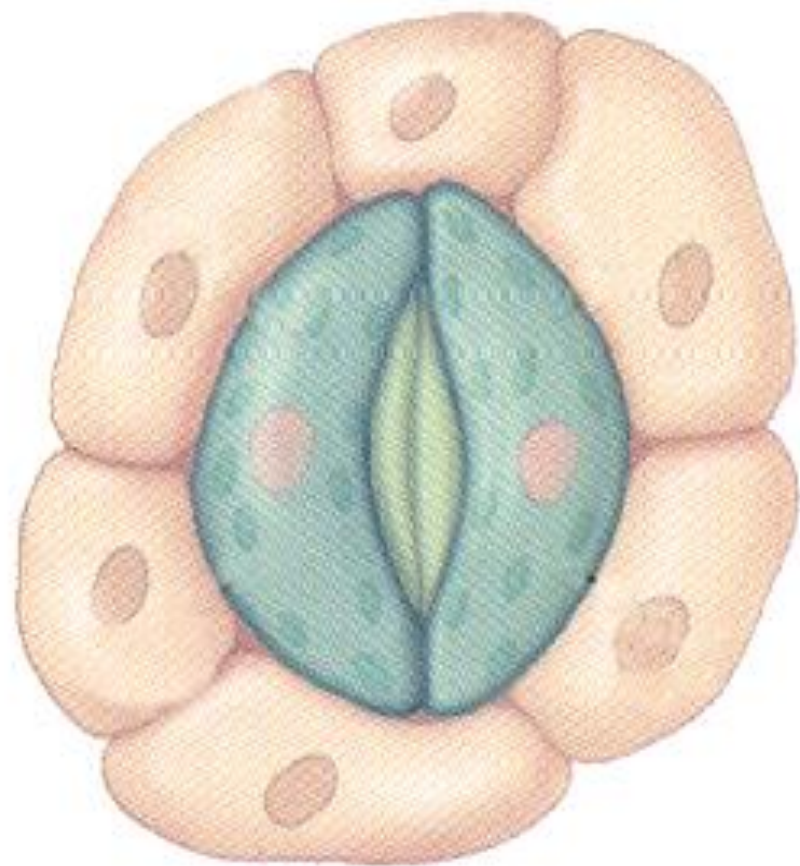
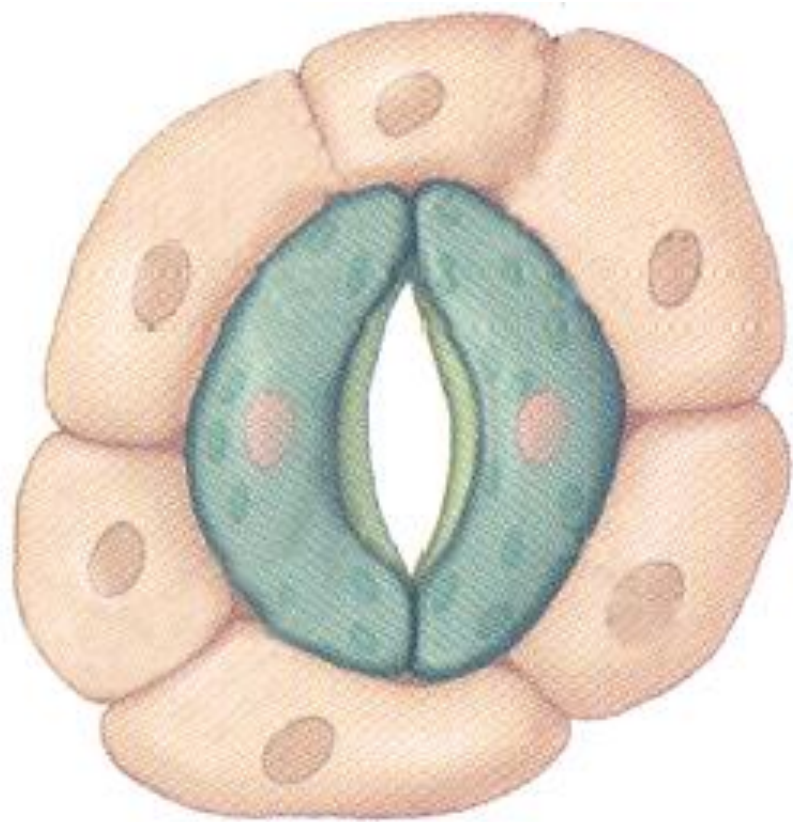
CO₂

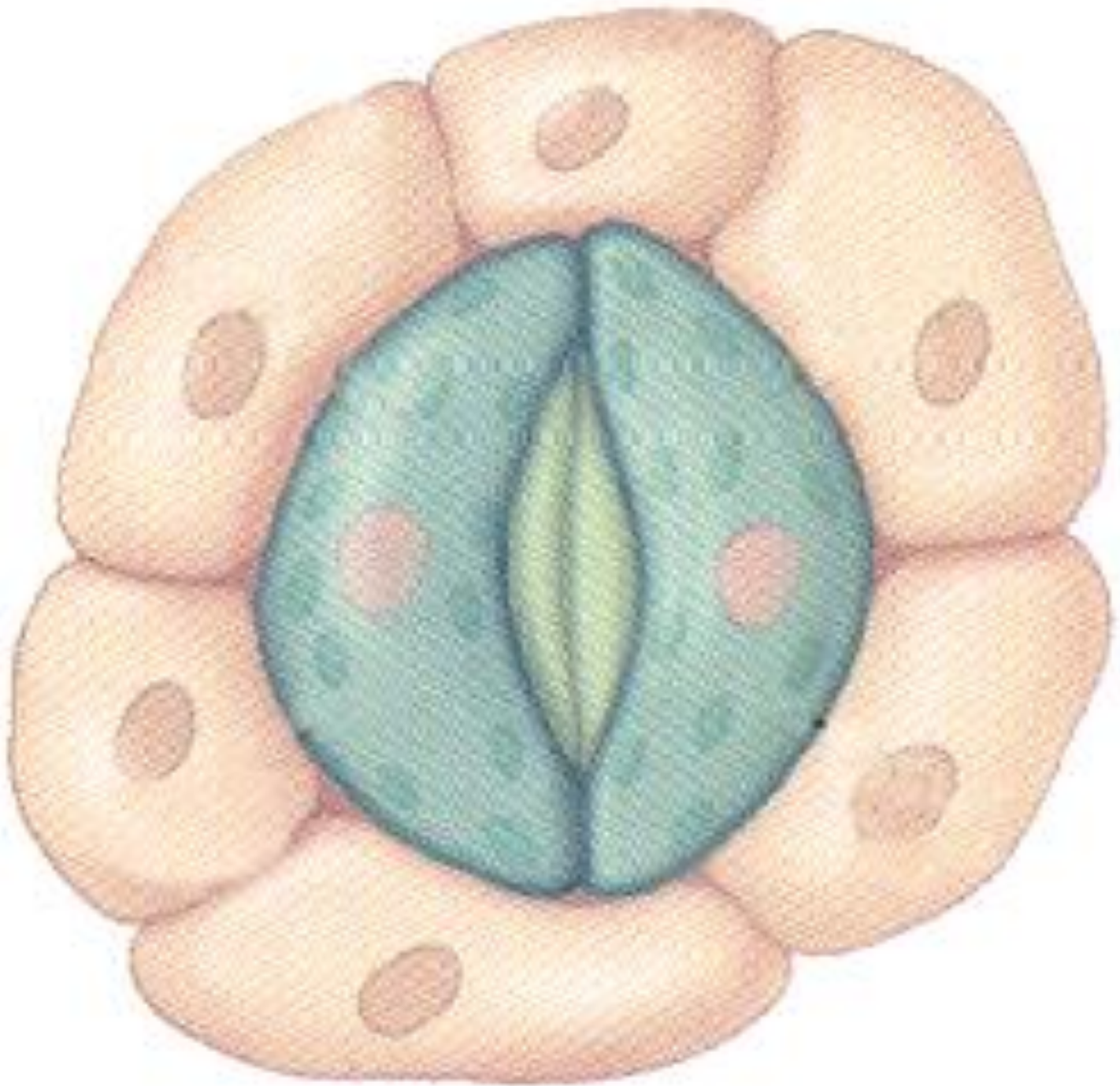
CO₂

CO₂

CO₂

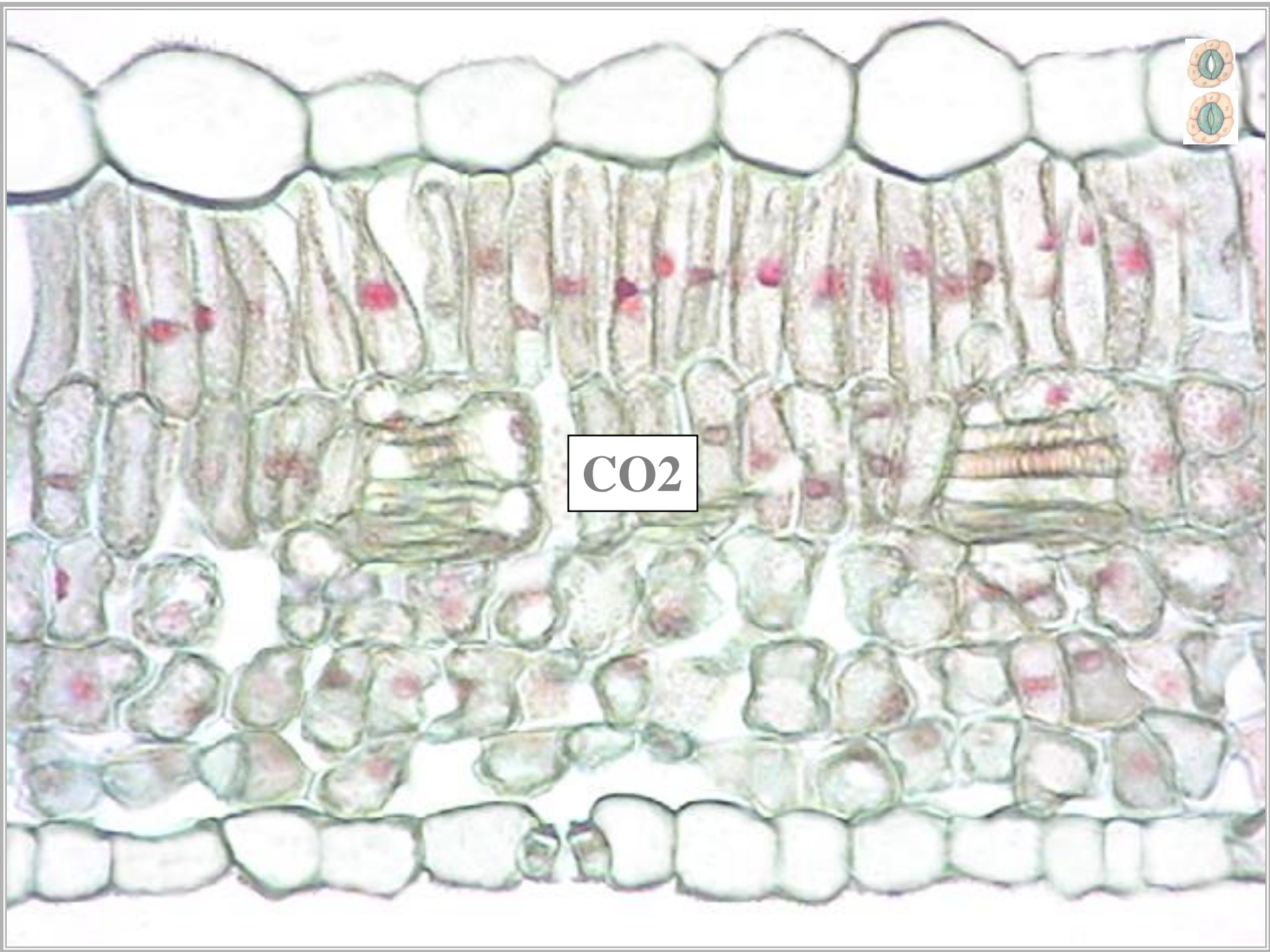






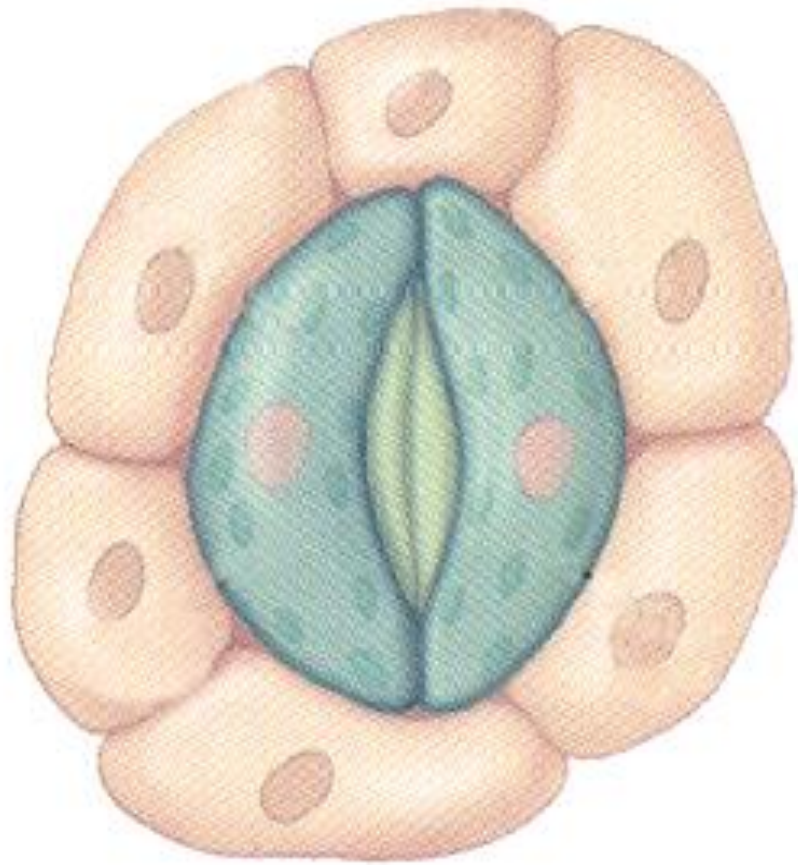
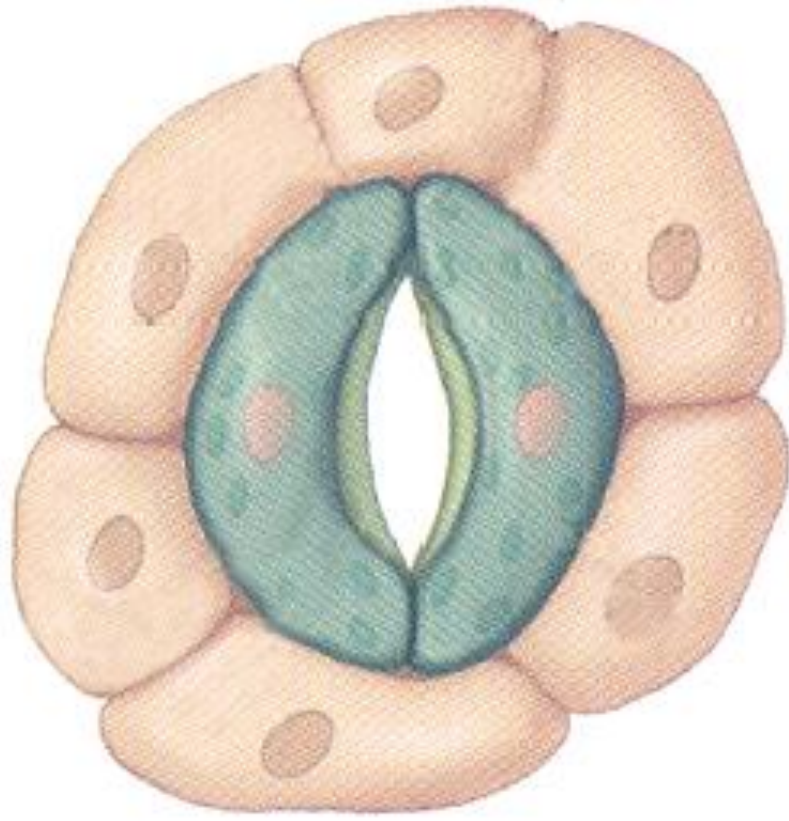


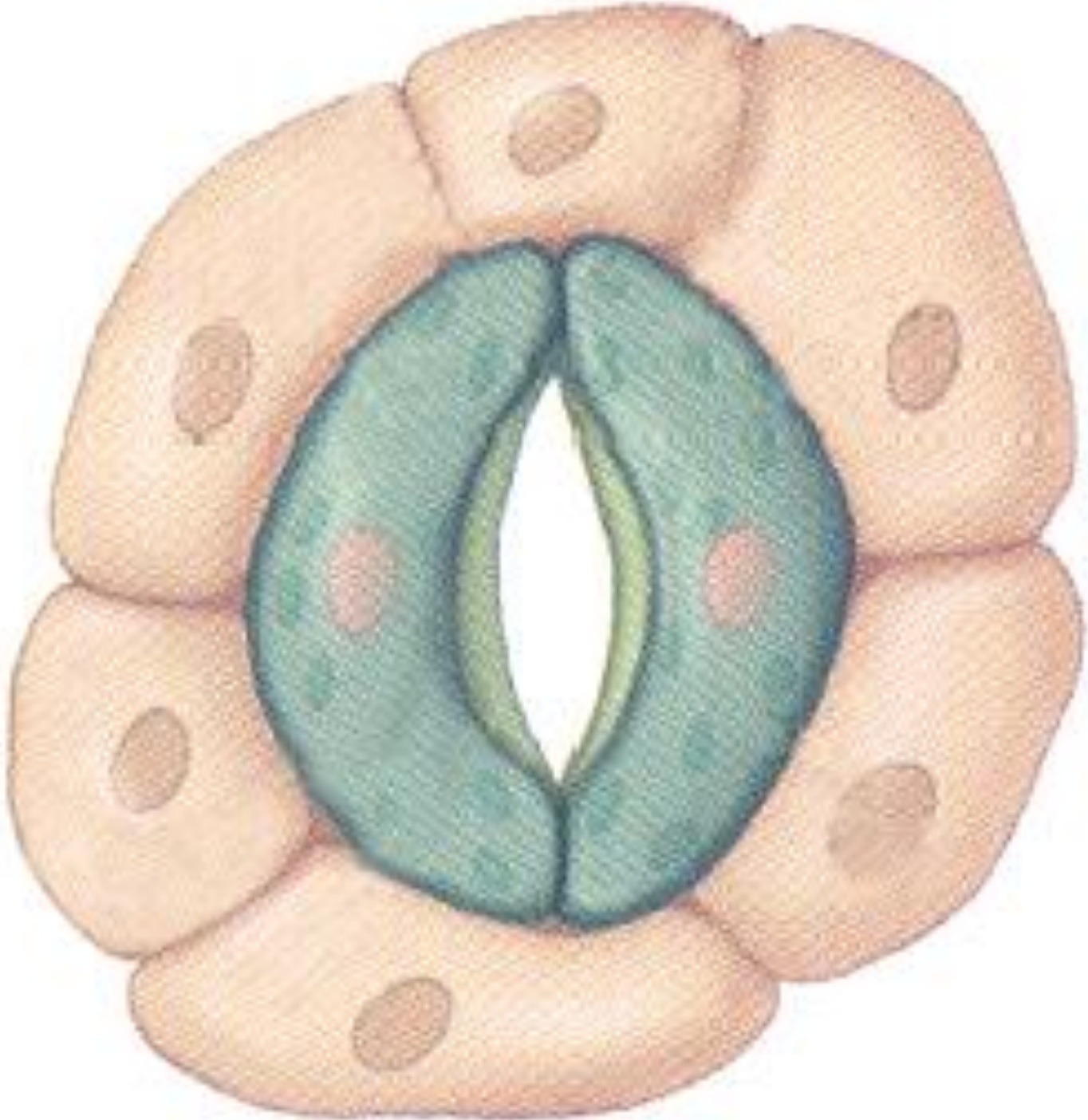
LOW LEAF CO₂ CONCENTRATION



CO₂







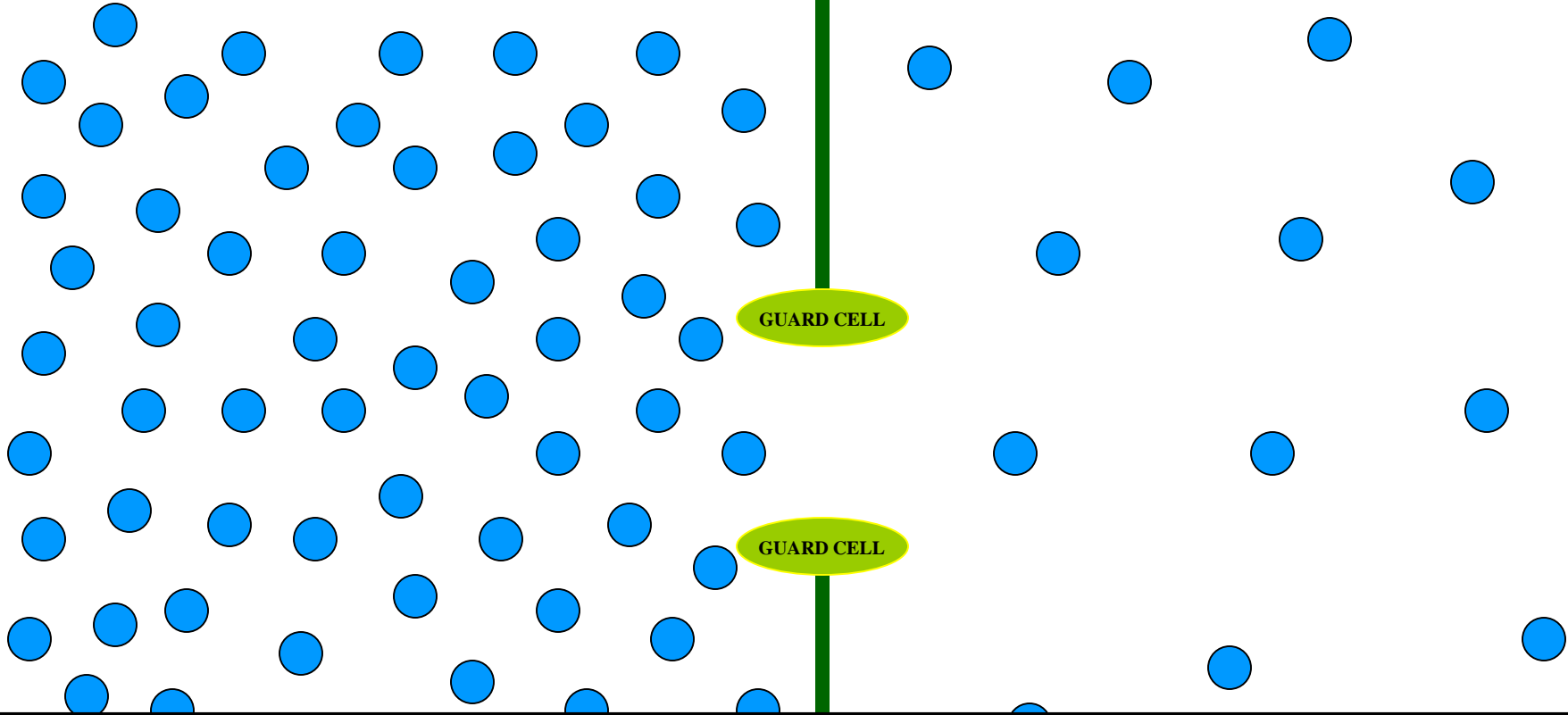
TEMPERATURE



HIGH ATMOSPHERE TEMPERATURE

PLANT

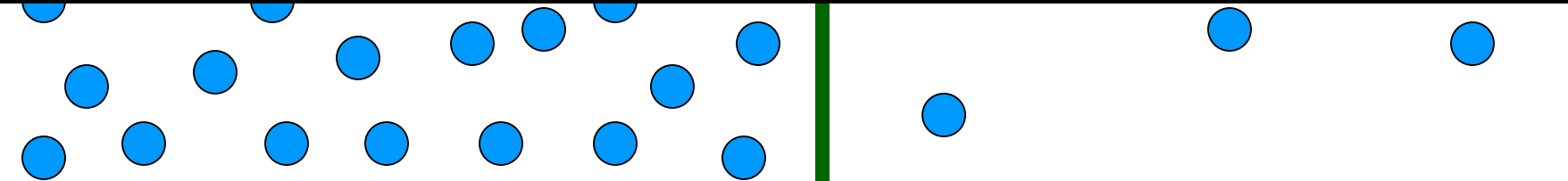
ATMOSPHERE



GUARD CELL

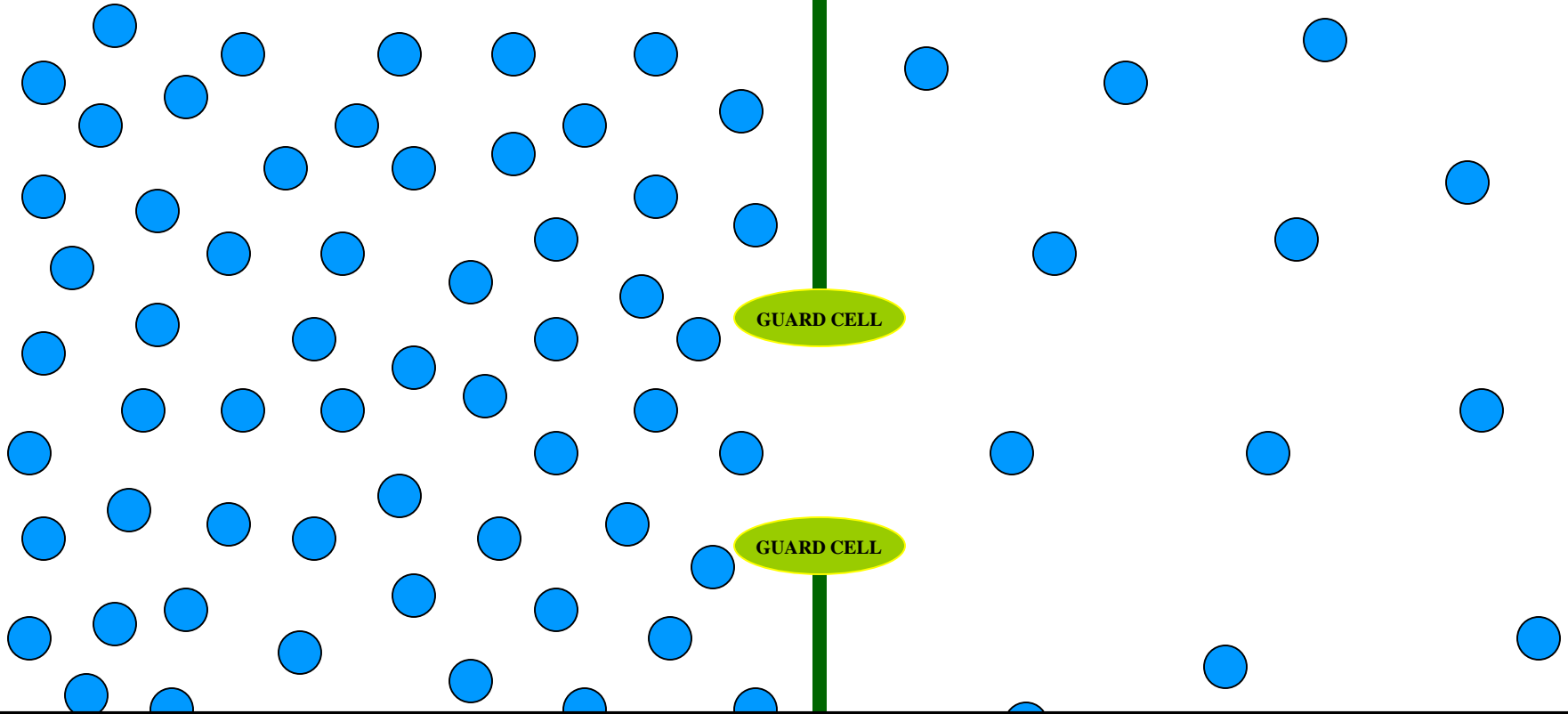
GUARD CELL

HIGH TEMPERATURE

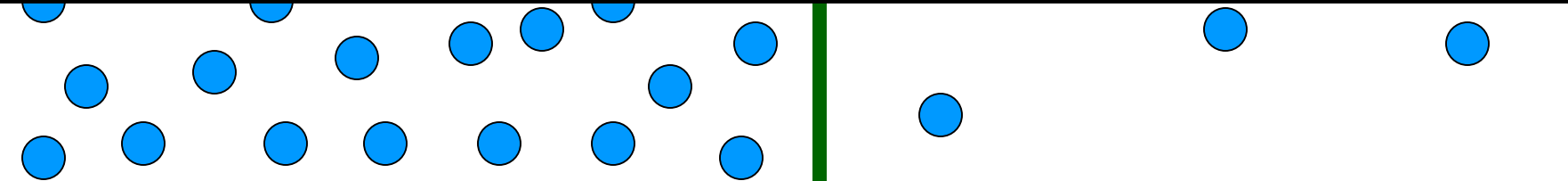


PLANT

ATMOSPHERE

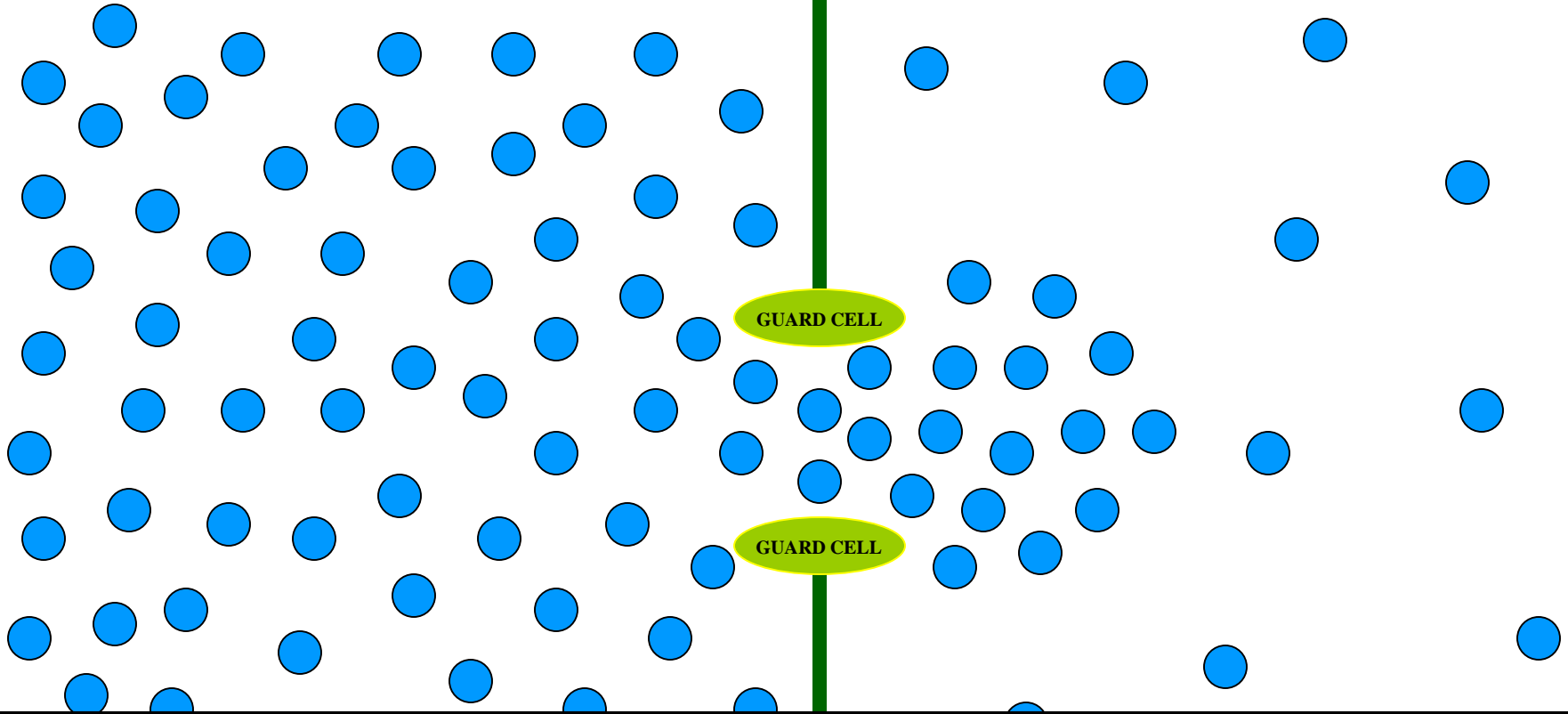


MORE MOLECULAR MOVEMENT

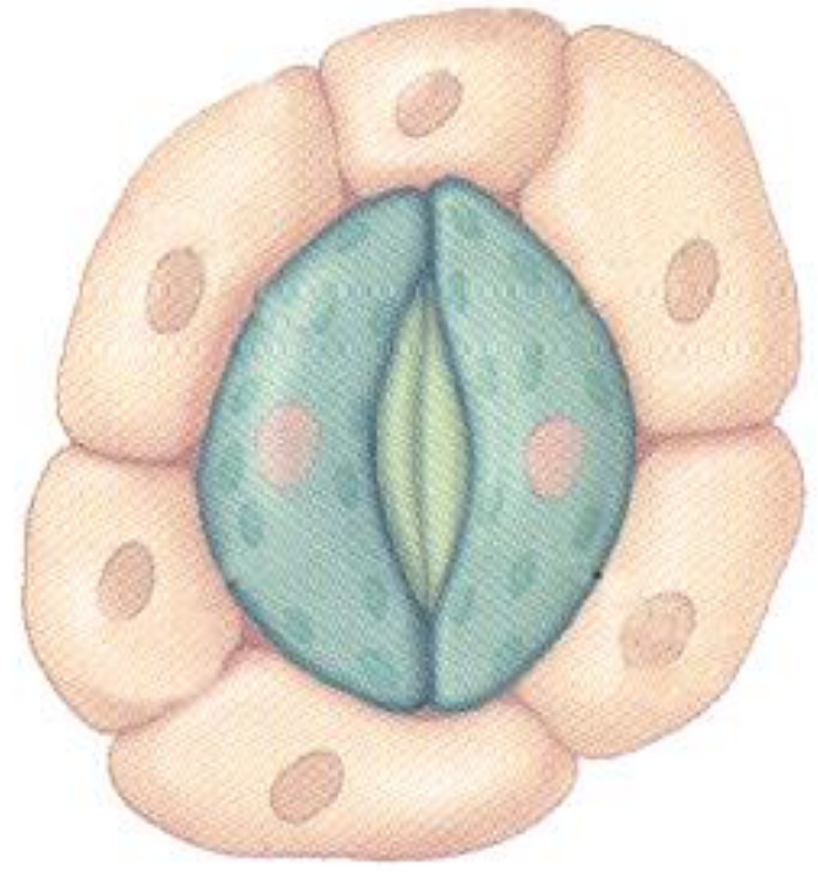
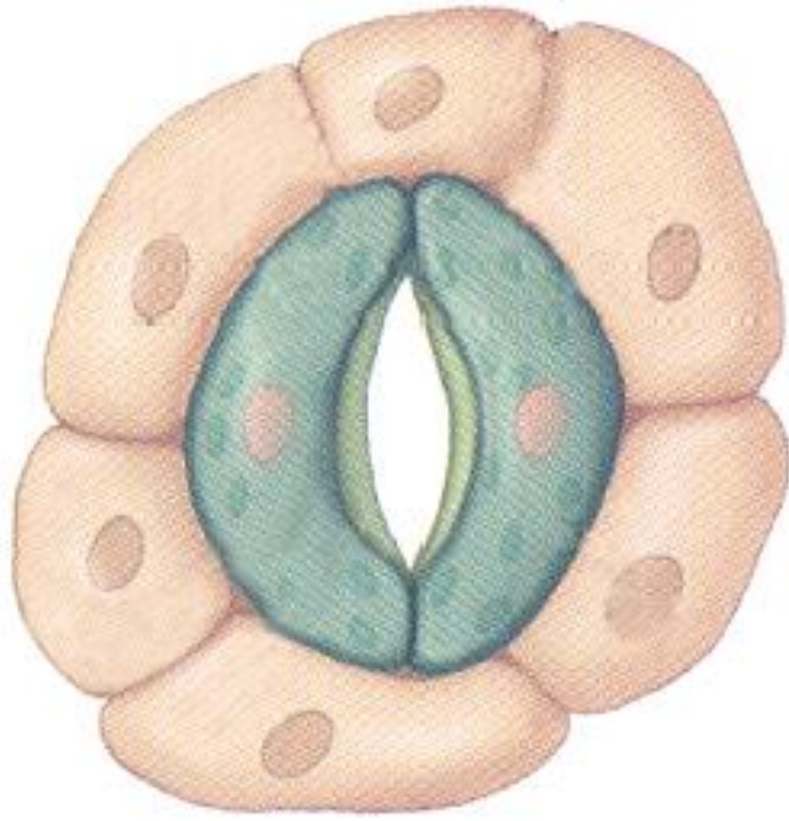


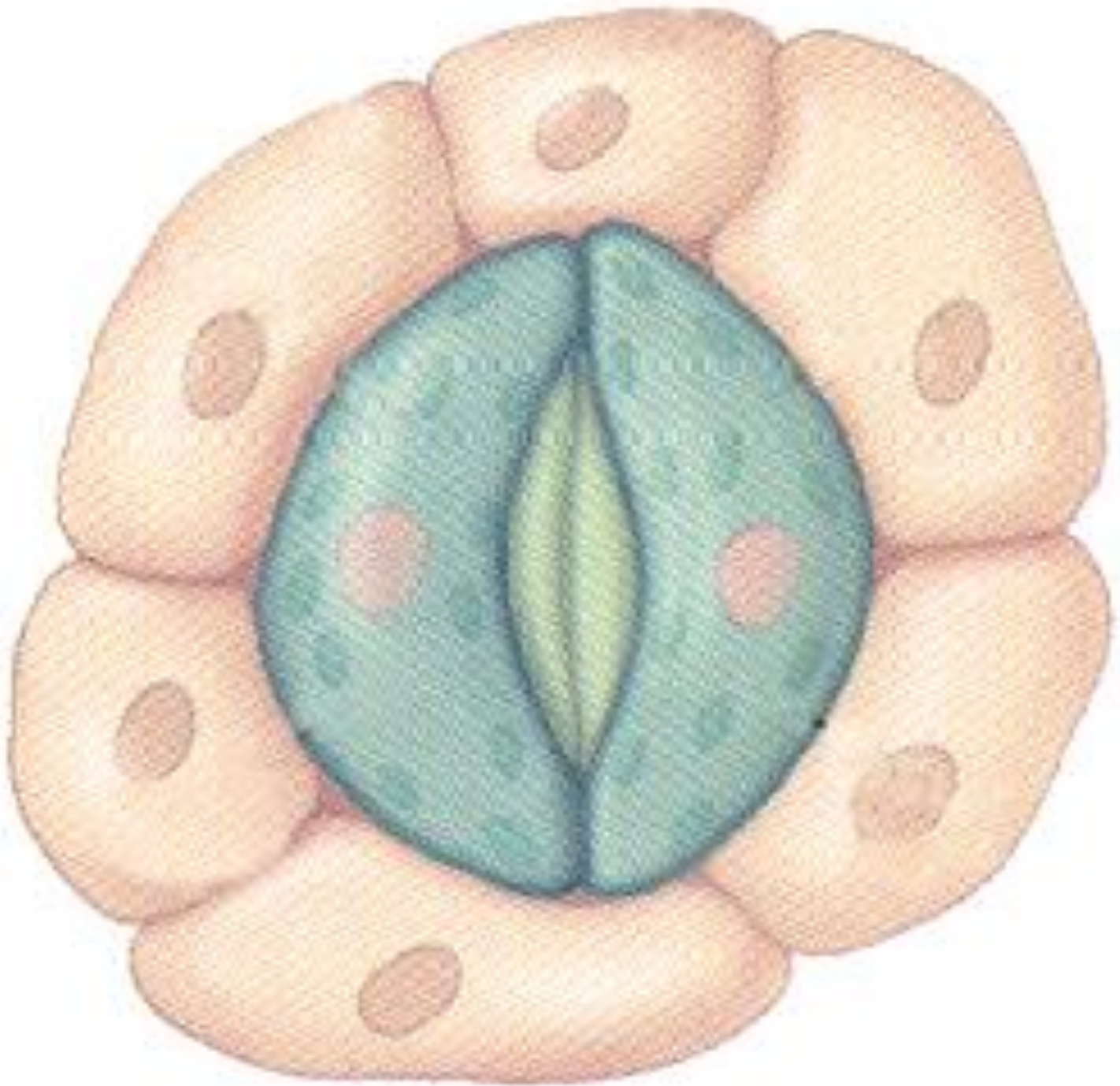
PLANT

ATMOSPHERE



**HIGH TRANSPIRATION
POTENTIAL**







LOW ATMOSPHERE TEMPERATURE

PLANT

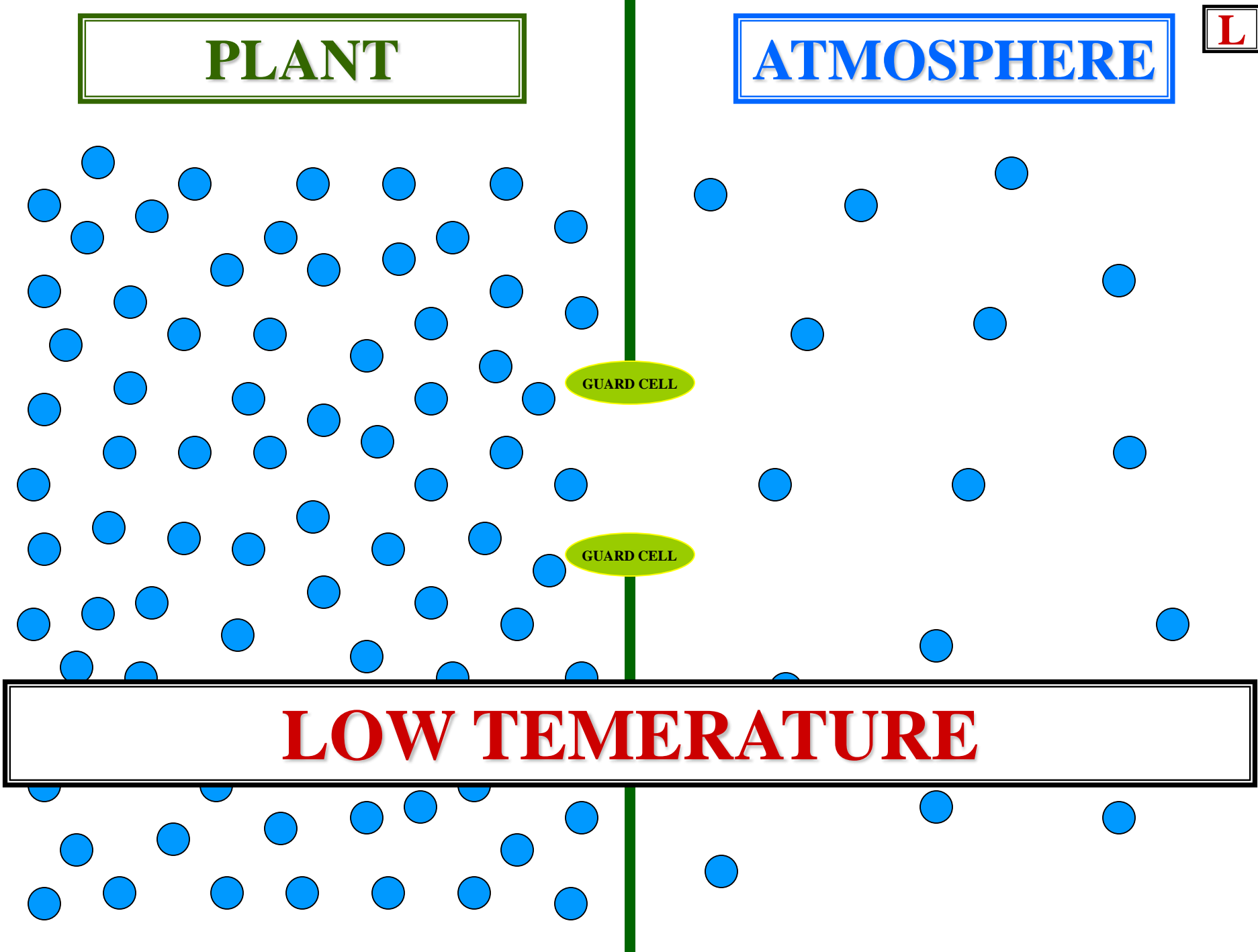
ATMOSPHERE

L

GUARD CELL

GUARD CELL

LOW TEMPERATURE



PLANT

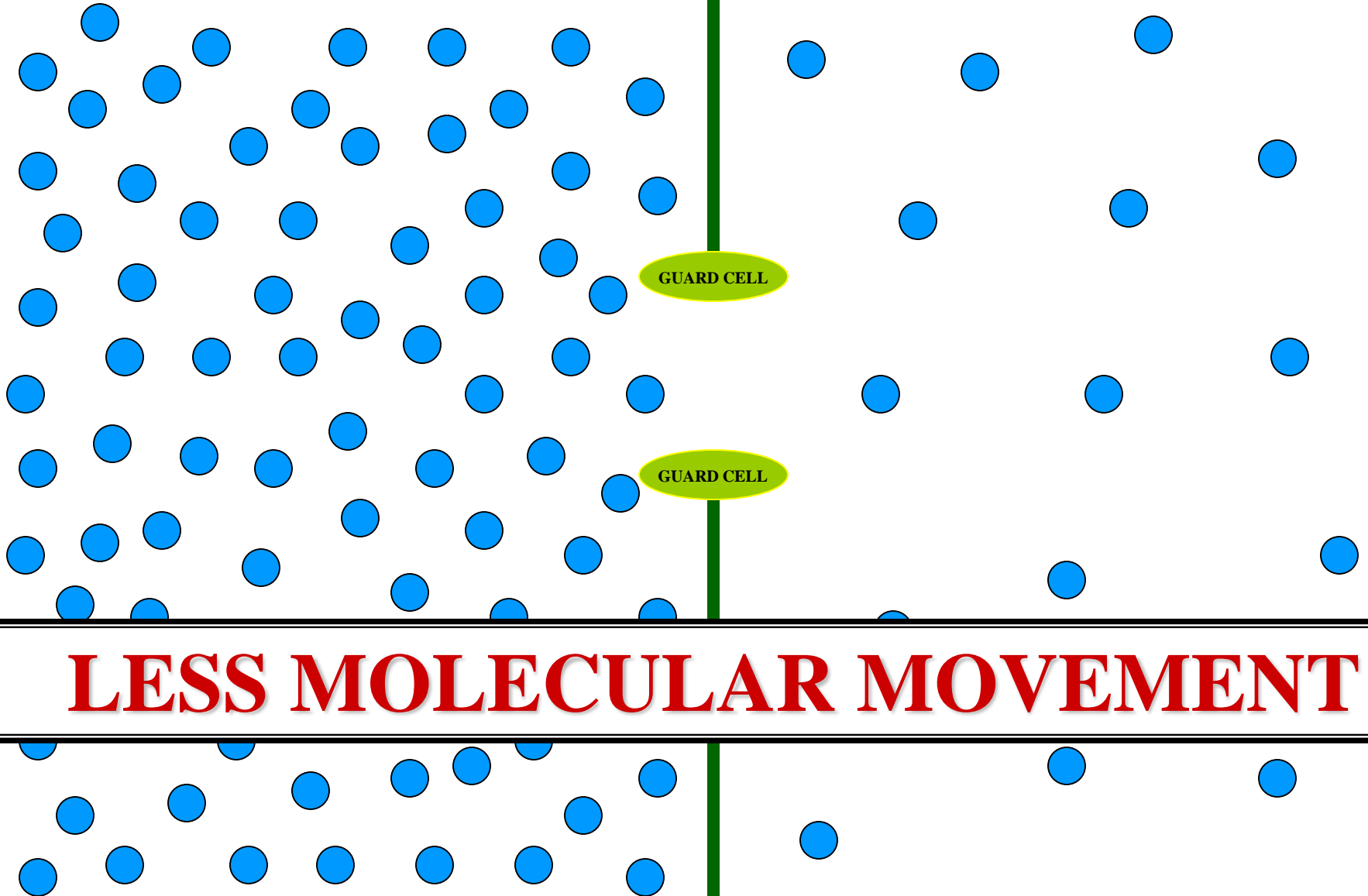
ATMOSPHERE

L

GUARD CELL

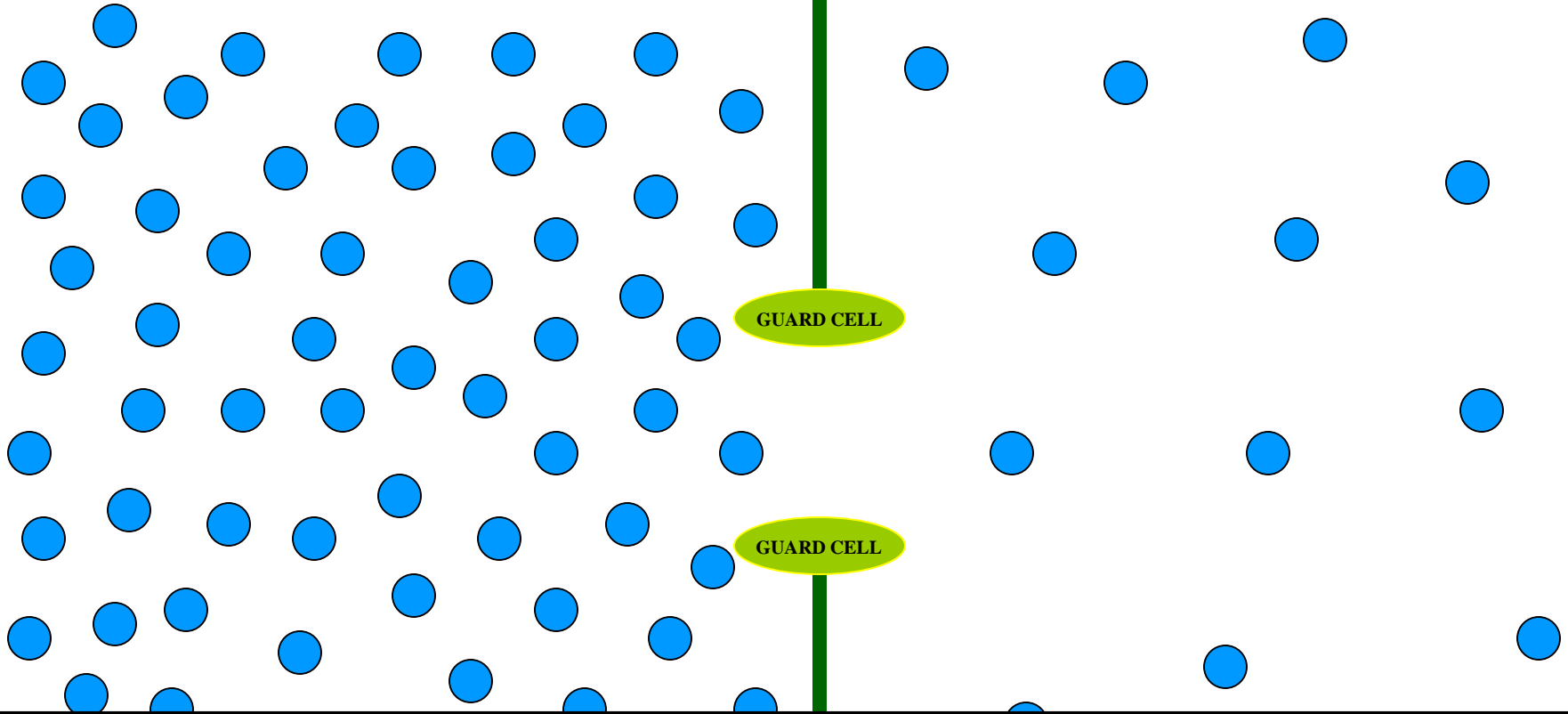
GUARD CELL

LESS MOLECULAR MOVEMENT

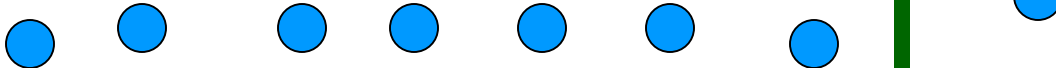


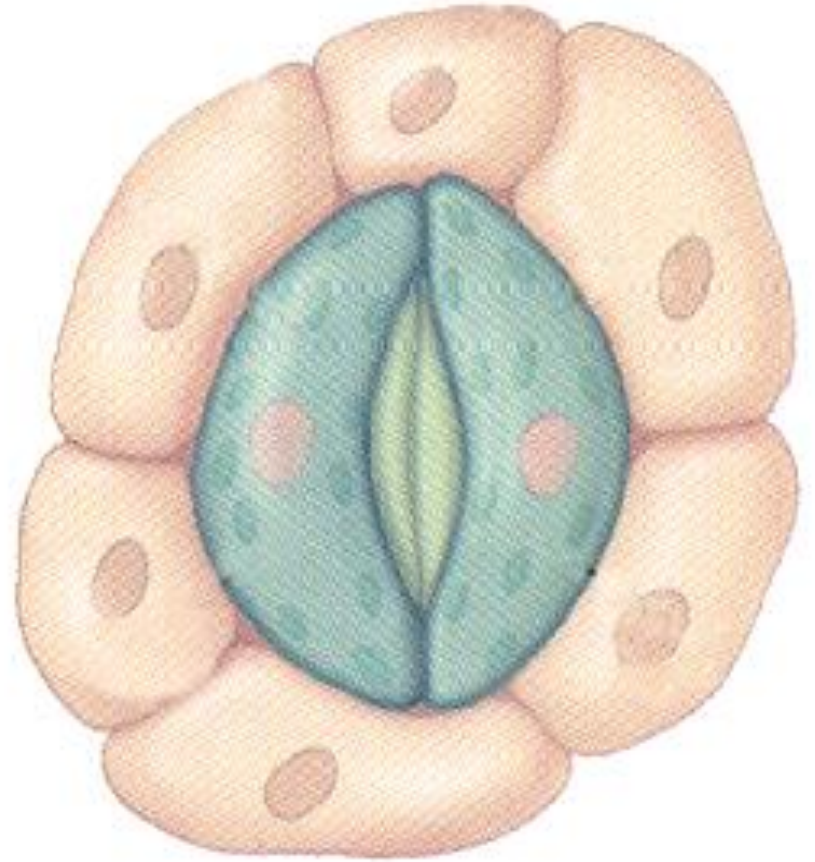
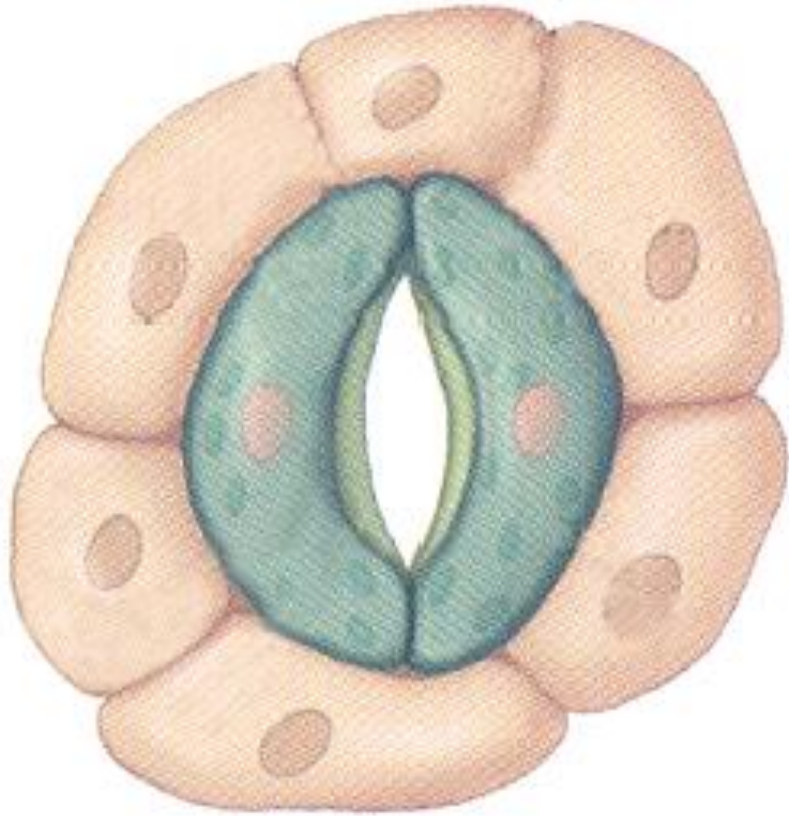
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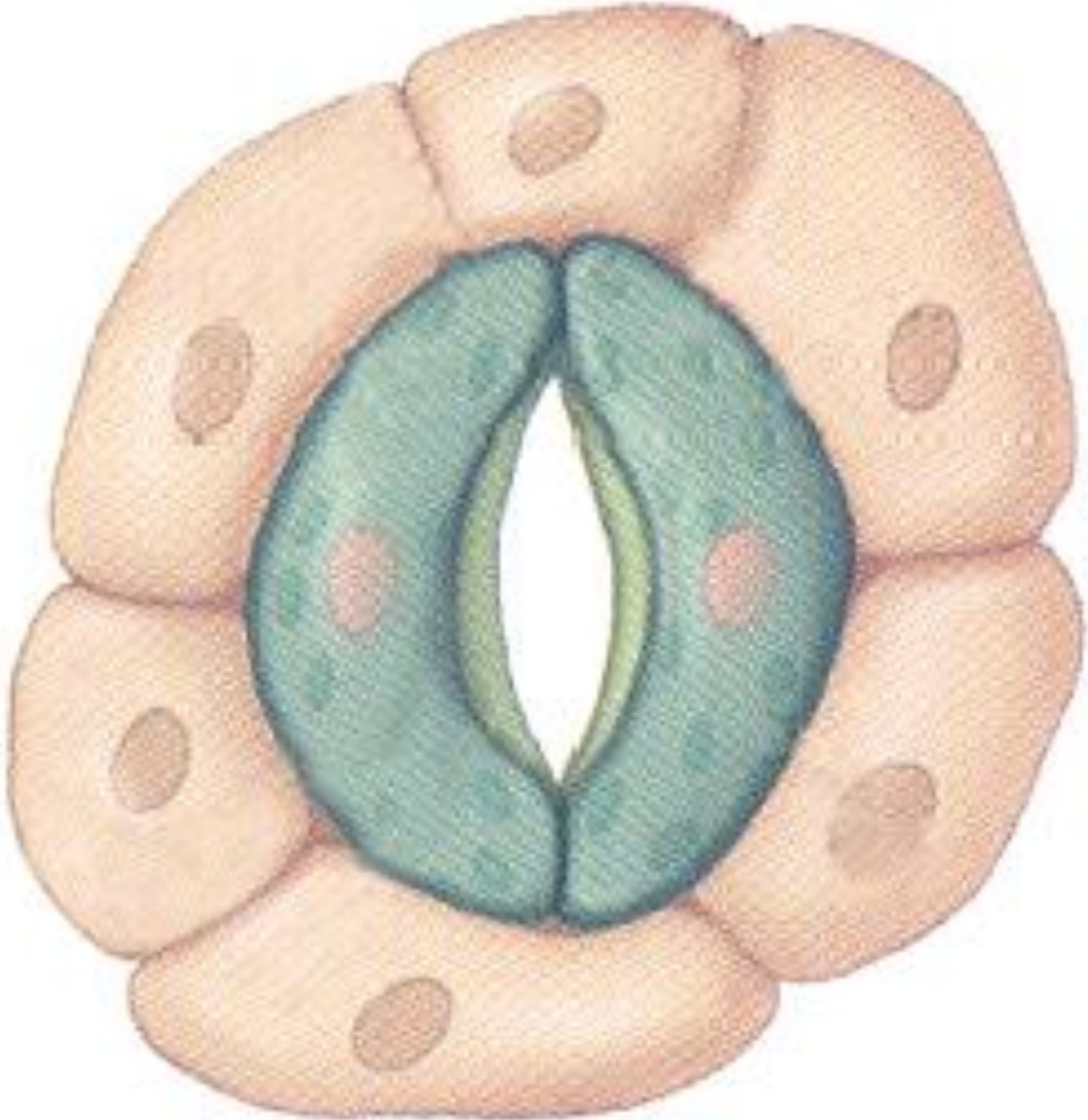
ATMOSPHERE



**LOW TRANSPIRATION
POTENTIAL**







HUMIDITY



HIGH ATMOSPHERE HUMIDITY

PLANT

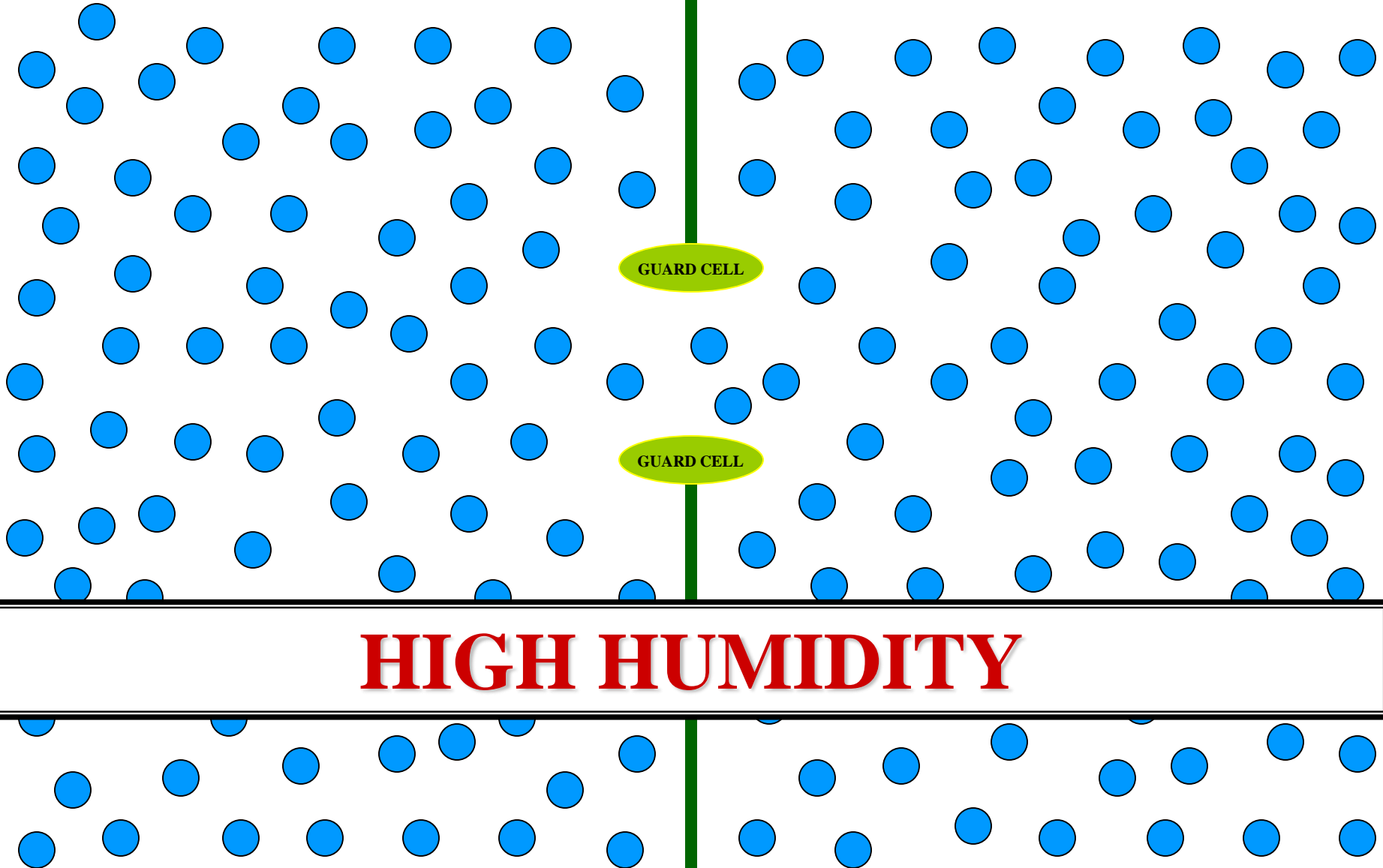
ATMOSPHERE

SH

GUARD CELL

GUARD CELL

HIGH HUMIDITY



PLANT

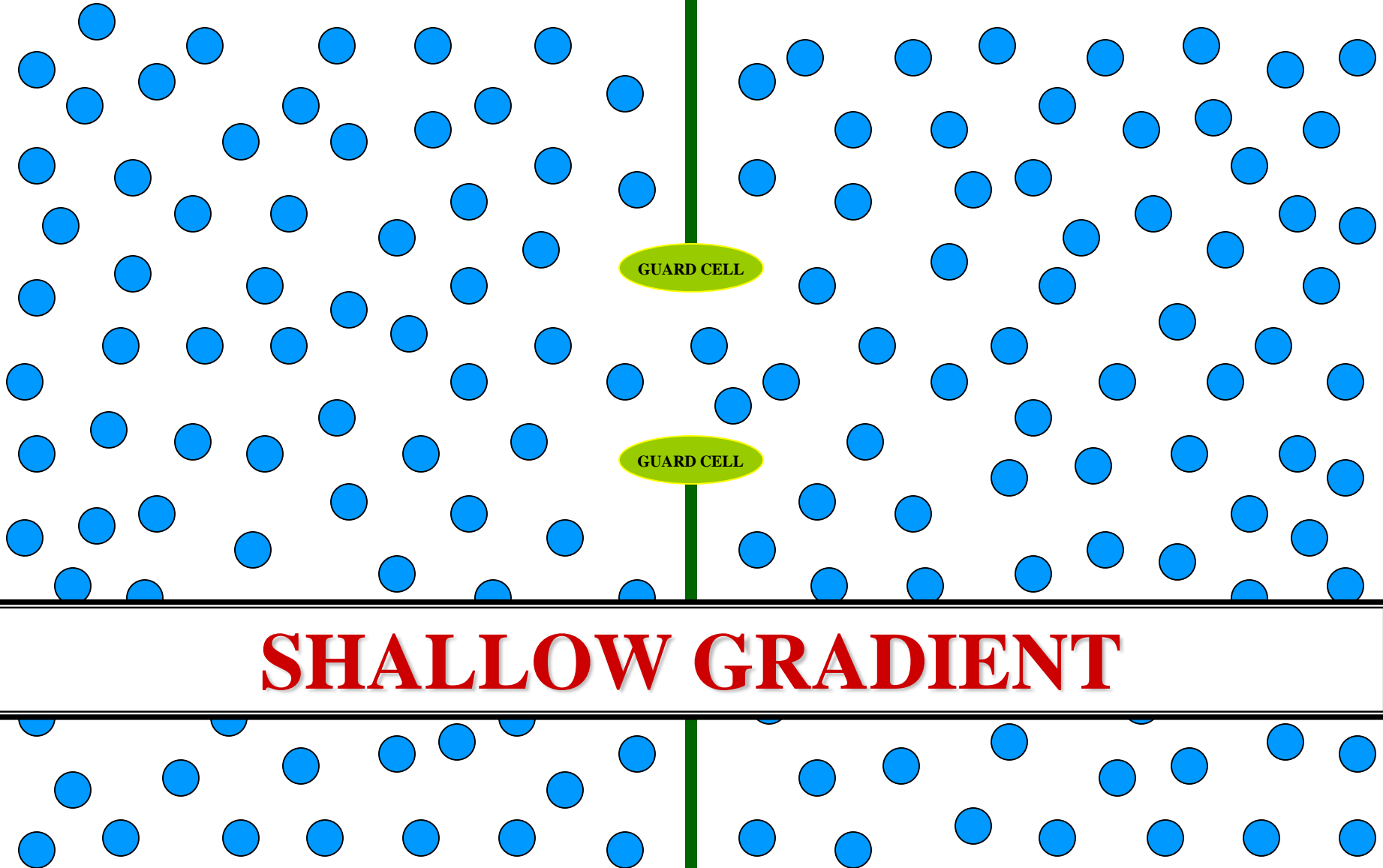
ATMOSPHERE

LO

GUARD CELL

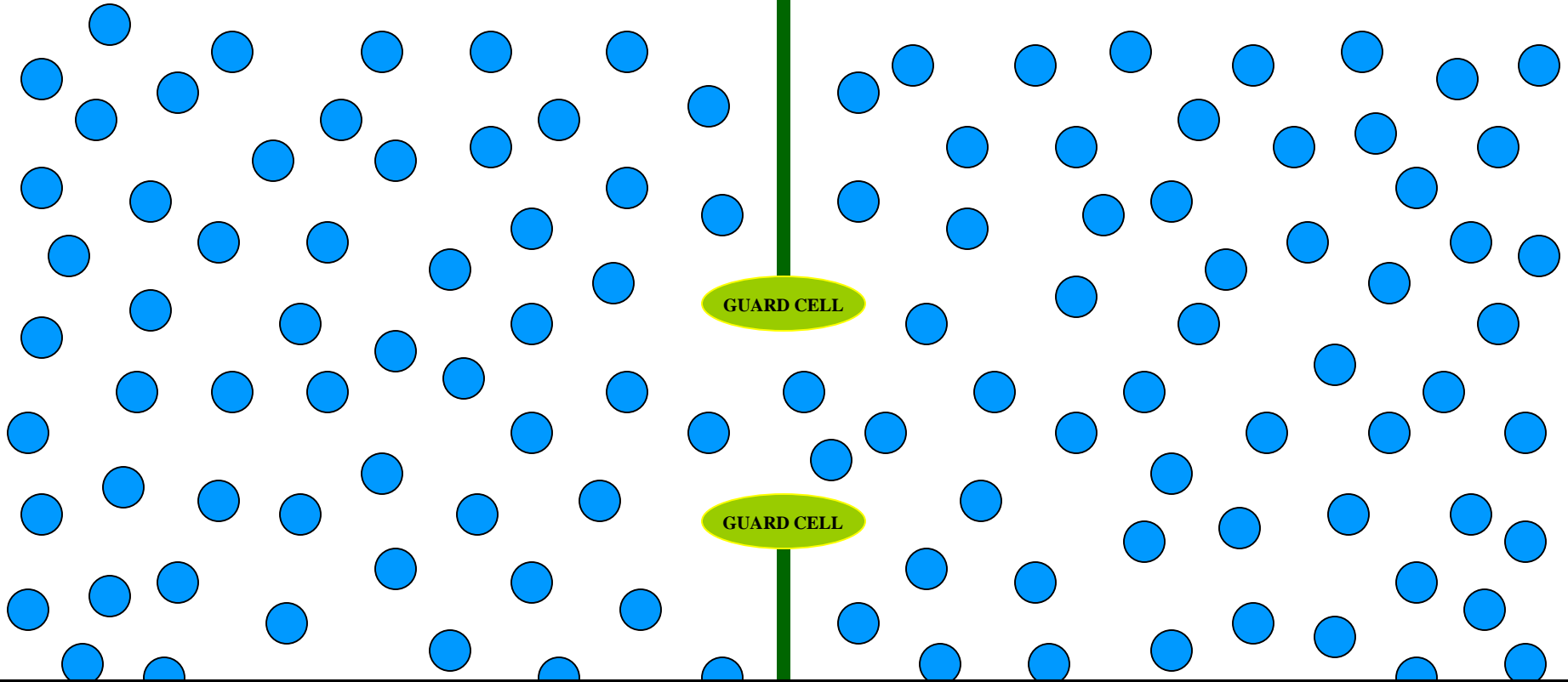
GUARD CELL

SHALLOW GRADIENT



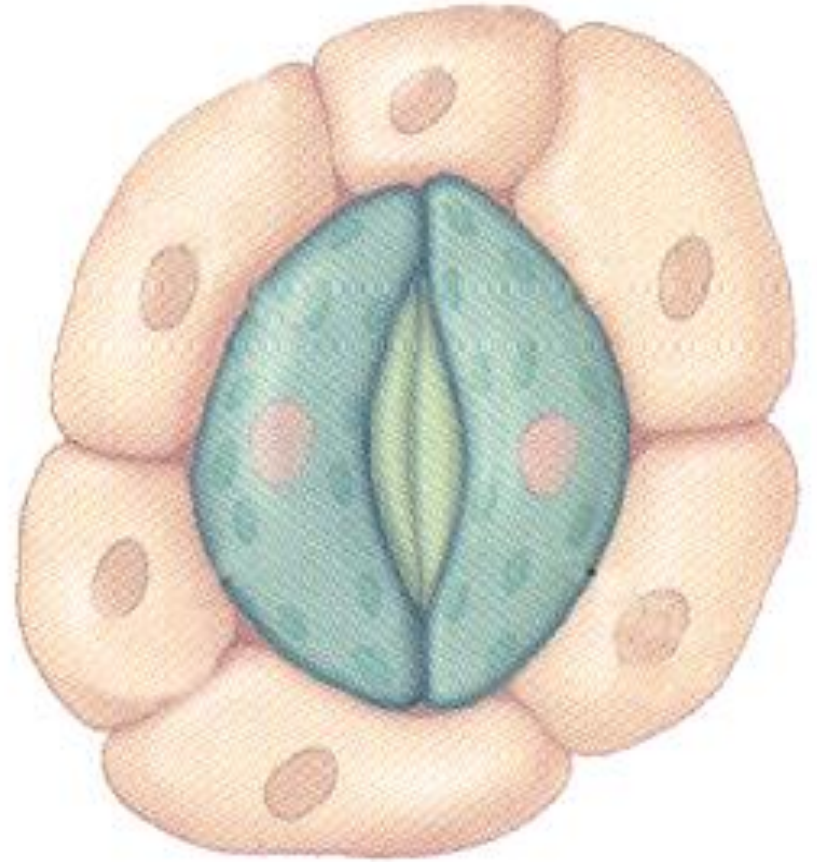
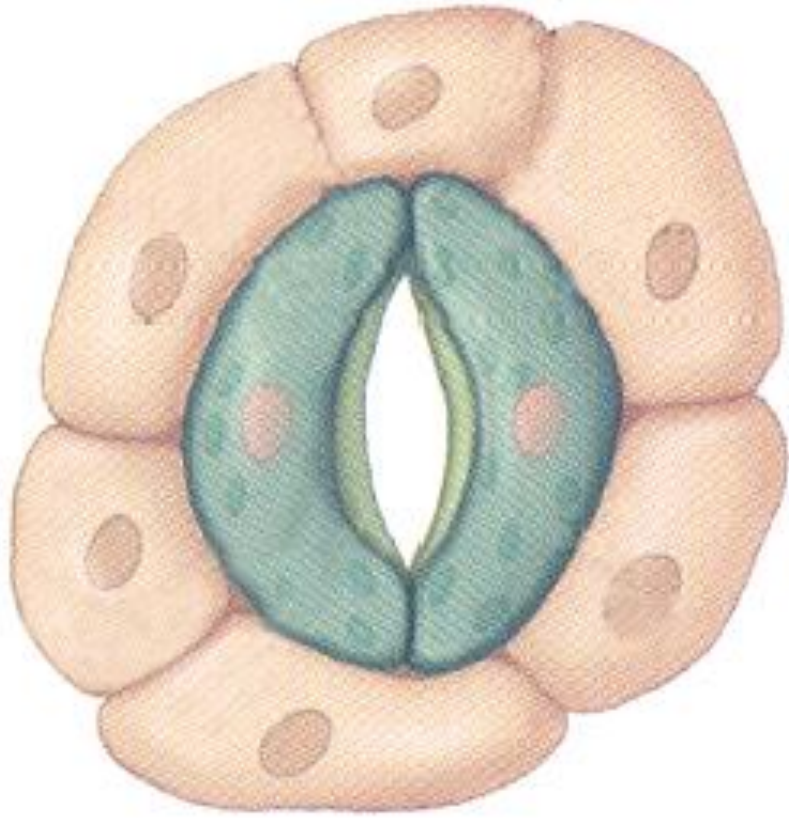
PLANT

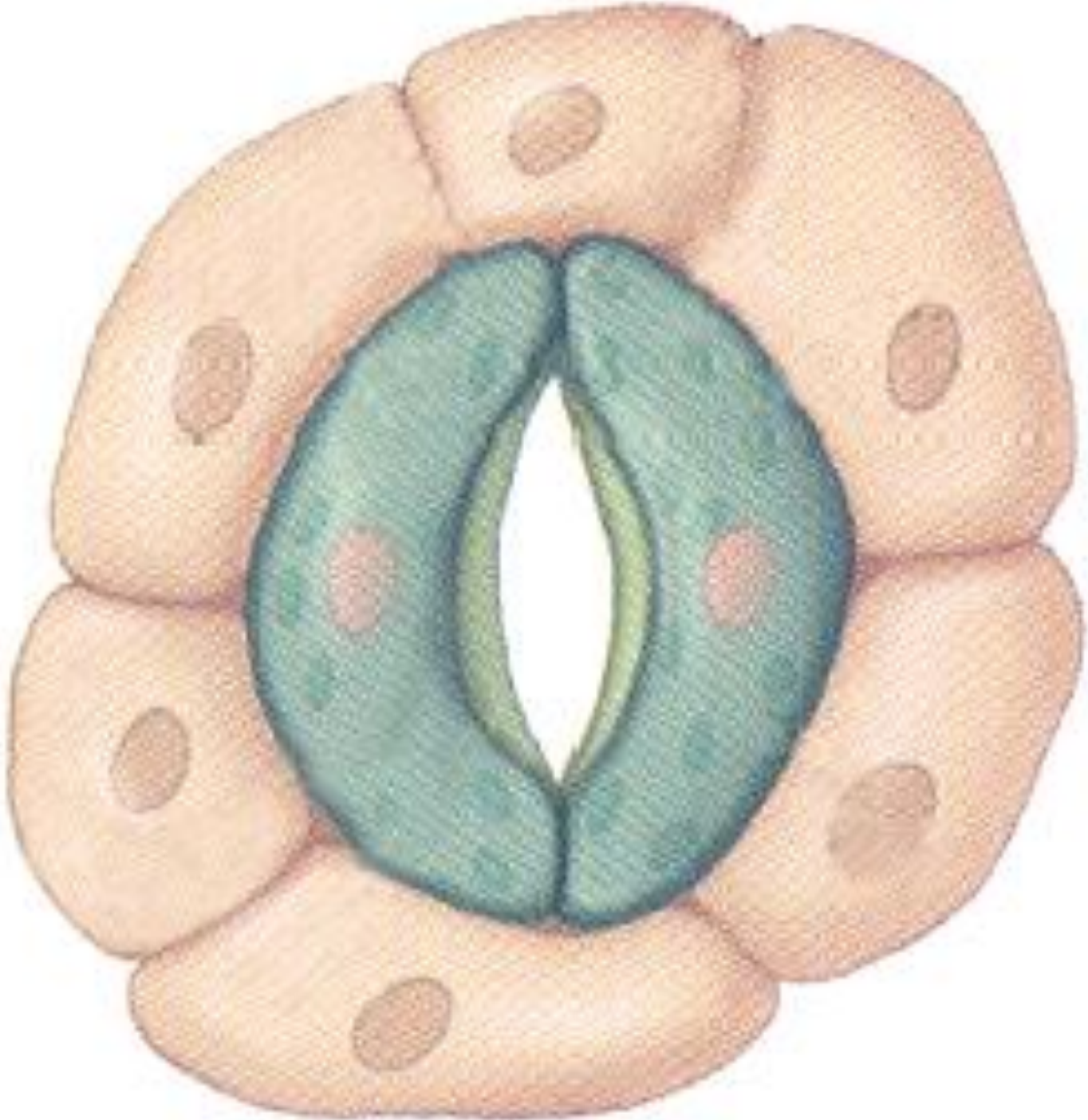
ATMOSPHERE



**LOW TRANSPIRATION
POTENTIAL**









**LOW
ATMOSPHERE
HUMIDITY**

PLANT

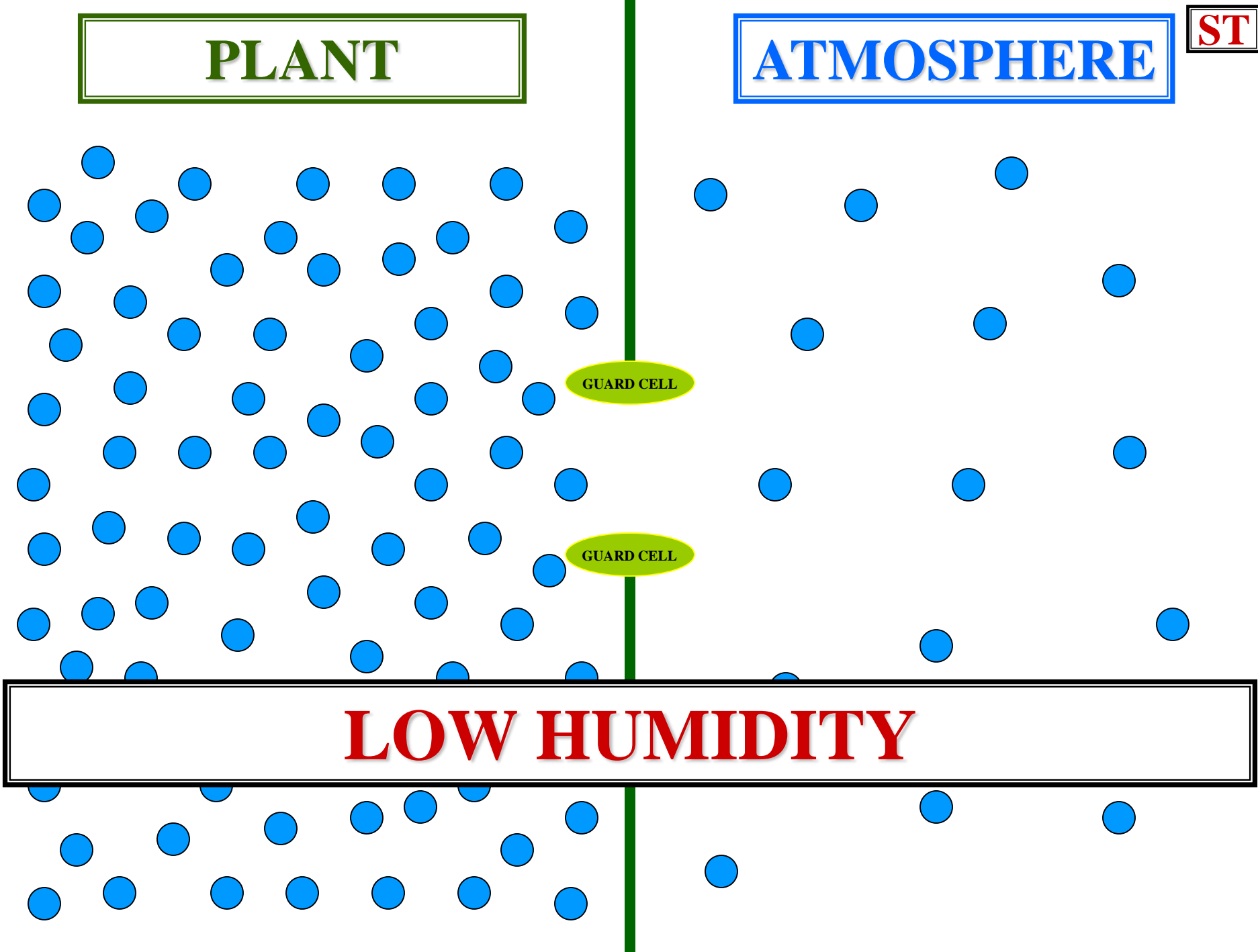
ATMOSPHERE

ST

GUARD CELL

GUARD CELL

LOW HUMIDITY



PLANT

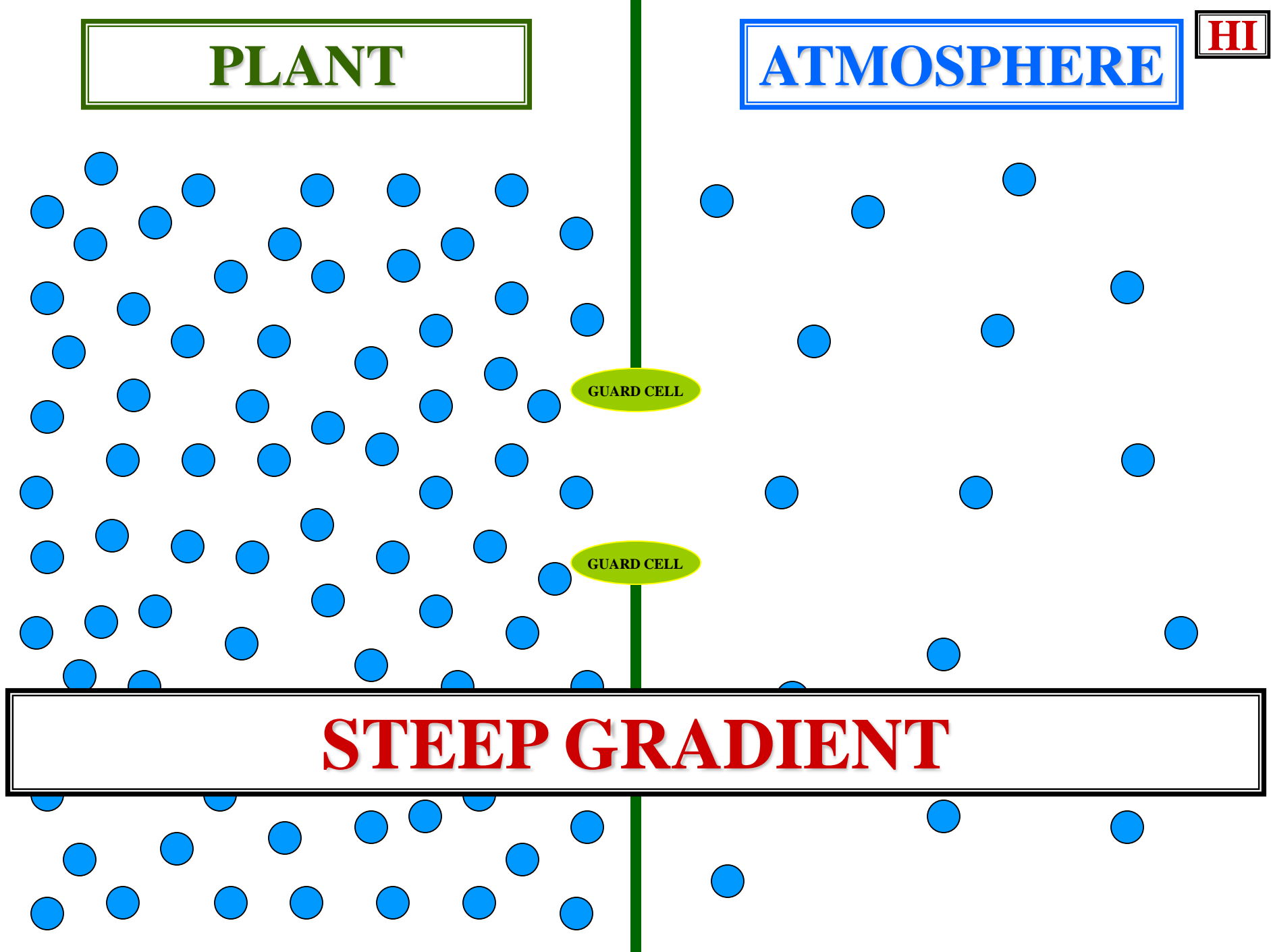
ATMOSPHERE

HI

GUARD CELL

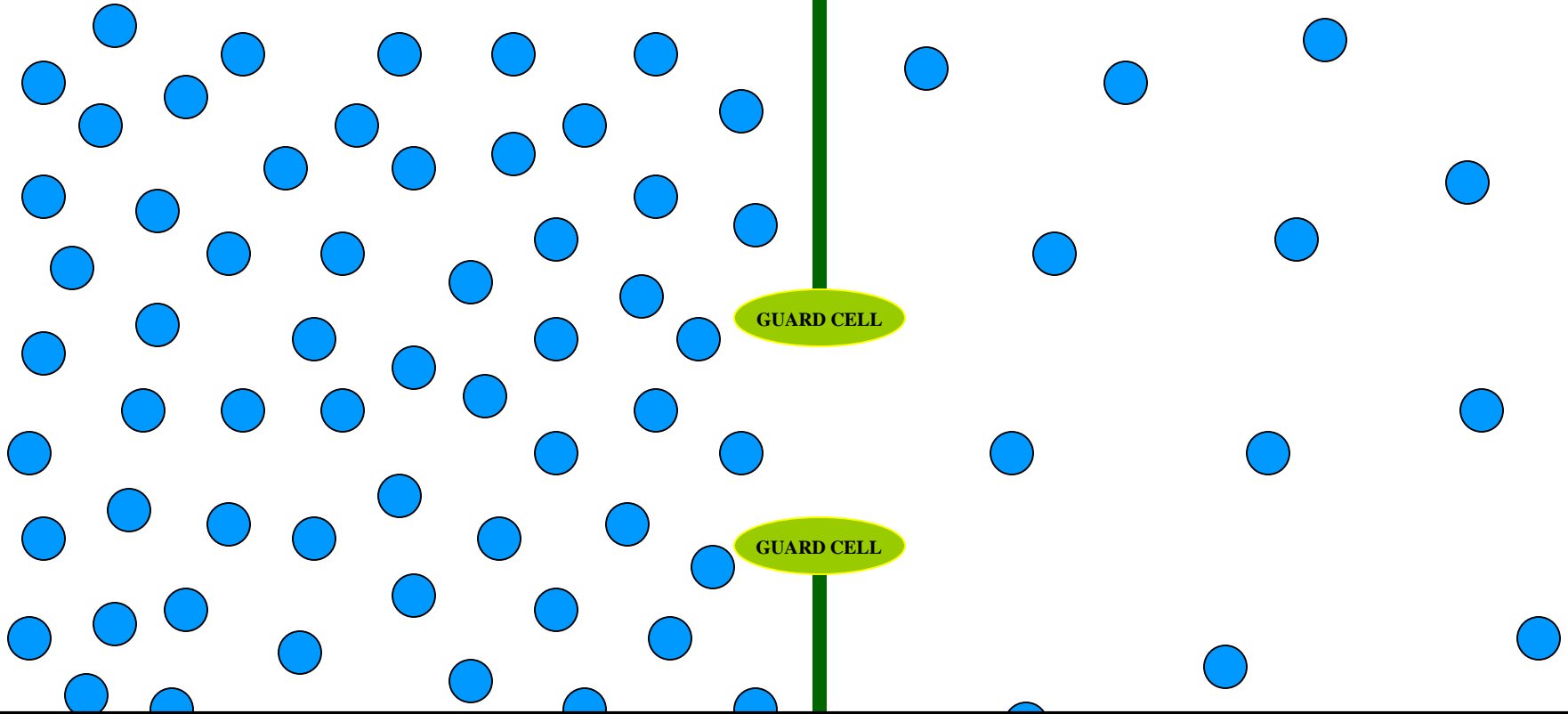
GUARD CELL

STEEP GRADIENT

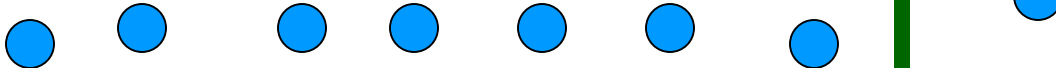


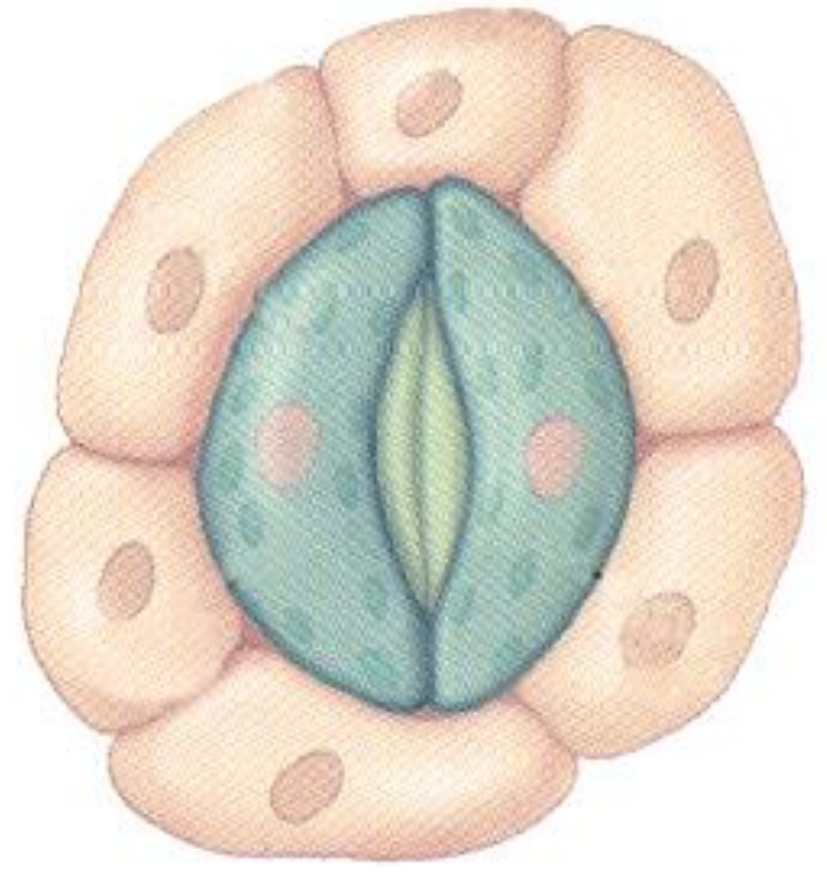
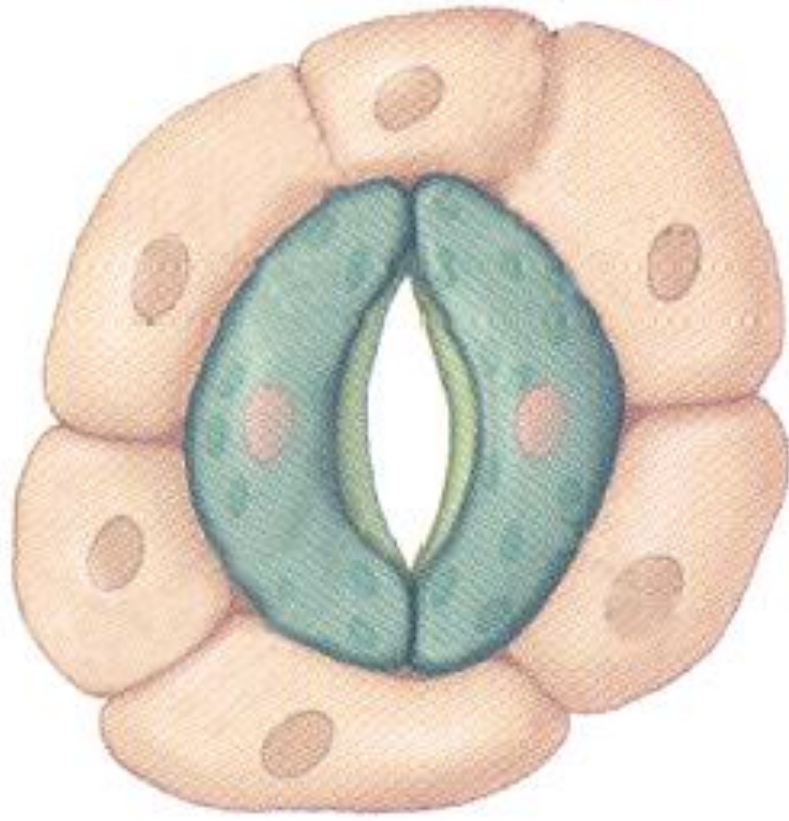
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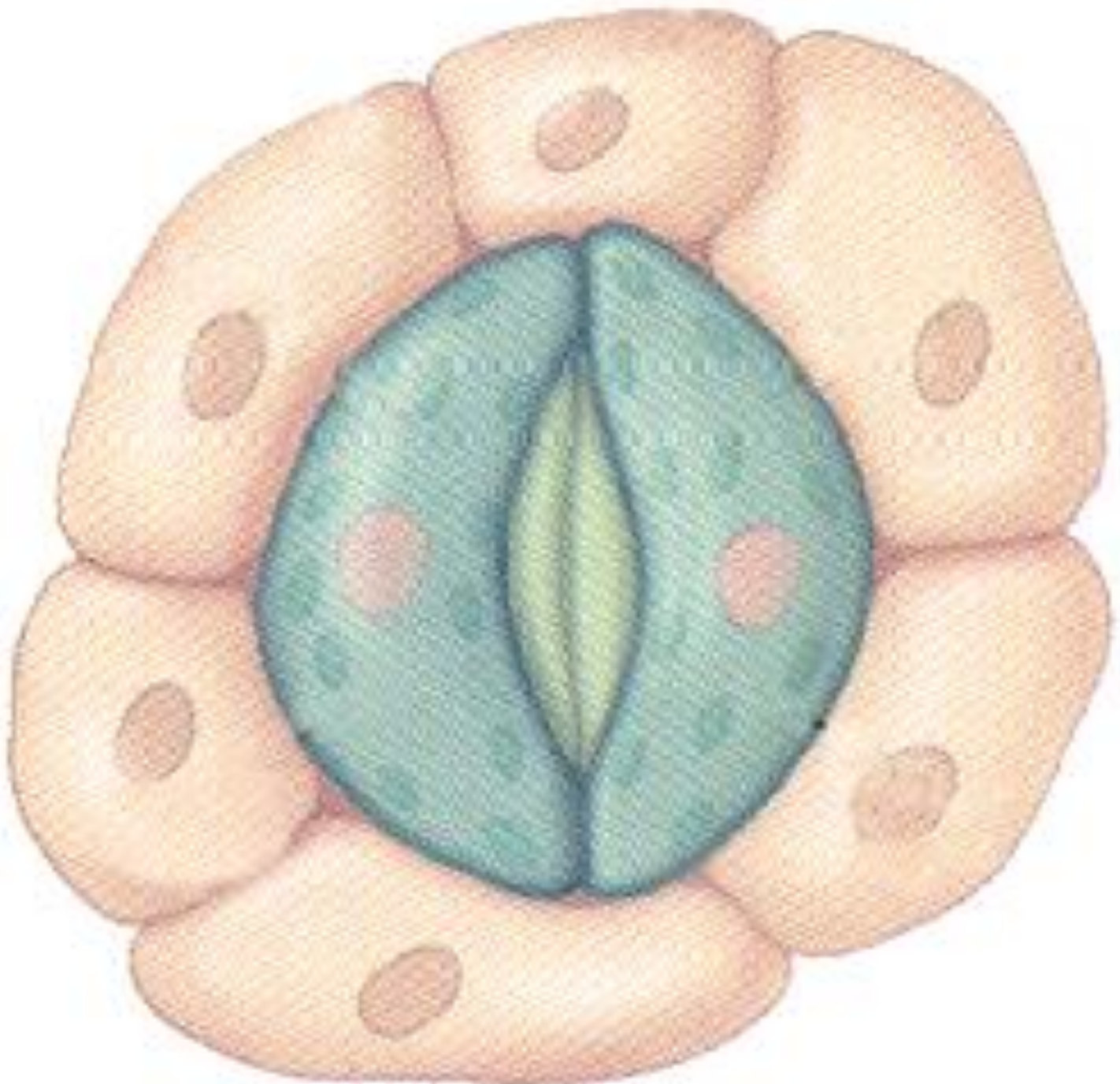
ATMOSPHERE



**HIGH TRANSPIRATION
POTENTIAL**







**LEAF
H₂O
CONCENTRATION**

**HIGH LEAF
H₂O
CONCENTRATION**



H₂O

H₂O

H₂O

H₂O

H₂O

H₂O

H₂O

H₂O

H₂O

H₂O

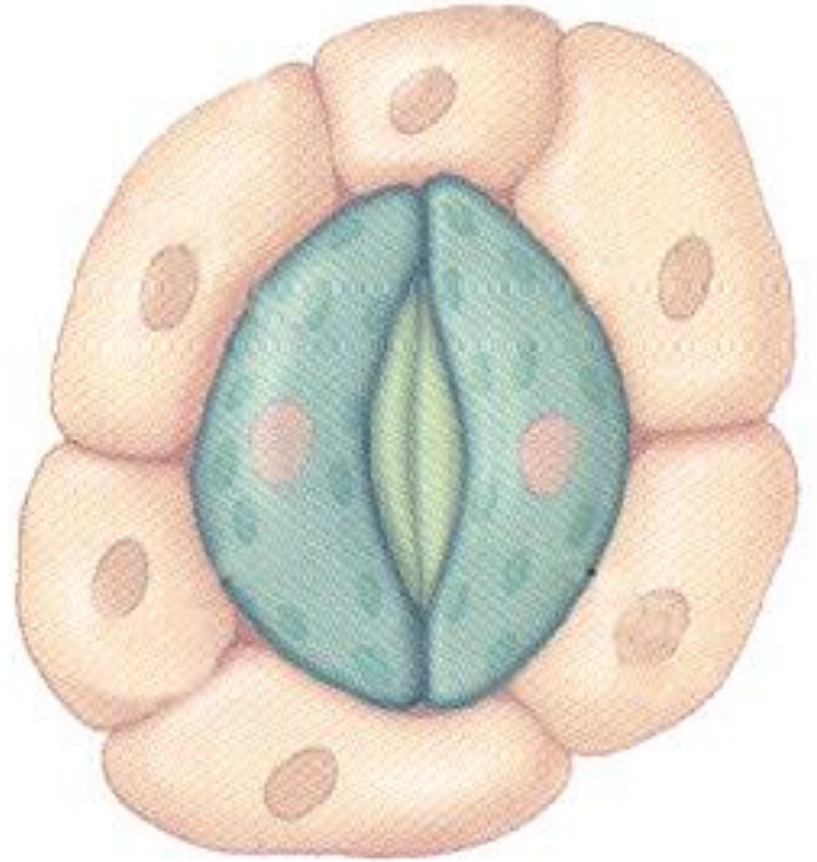
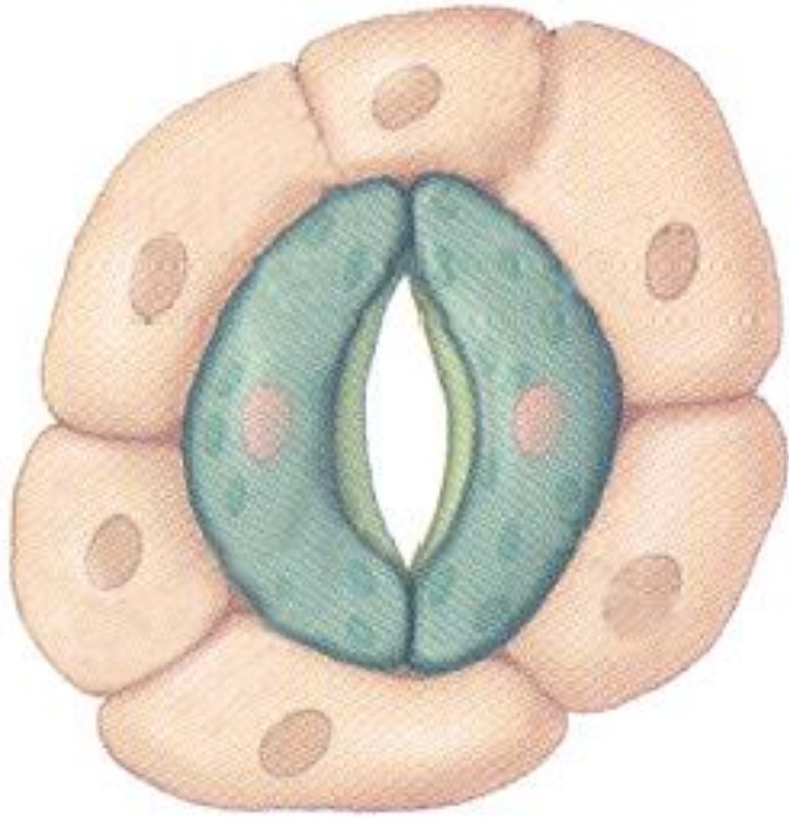
H₂O

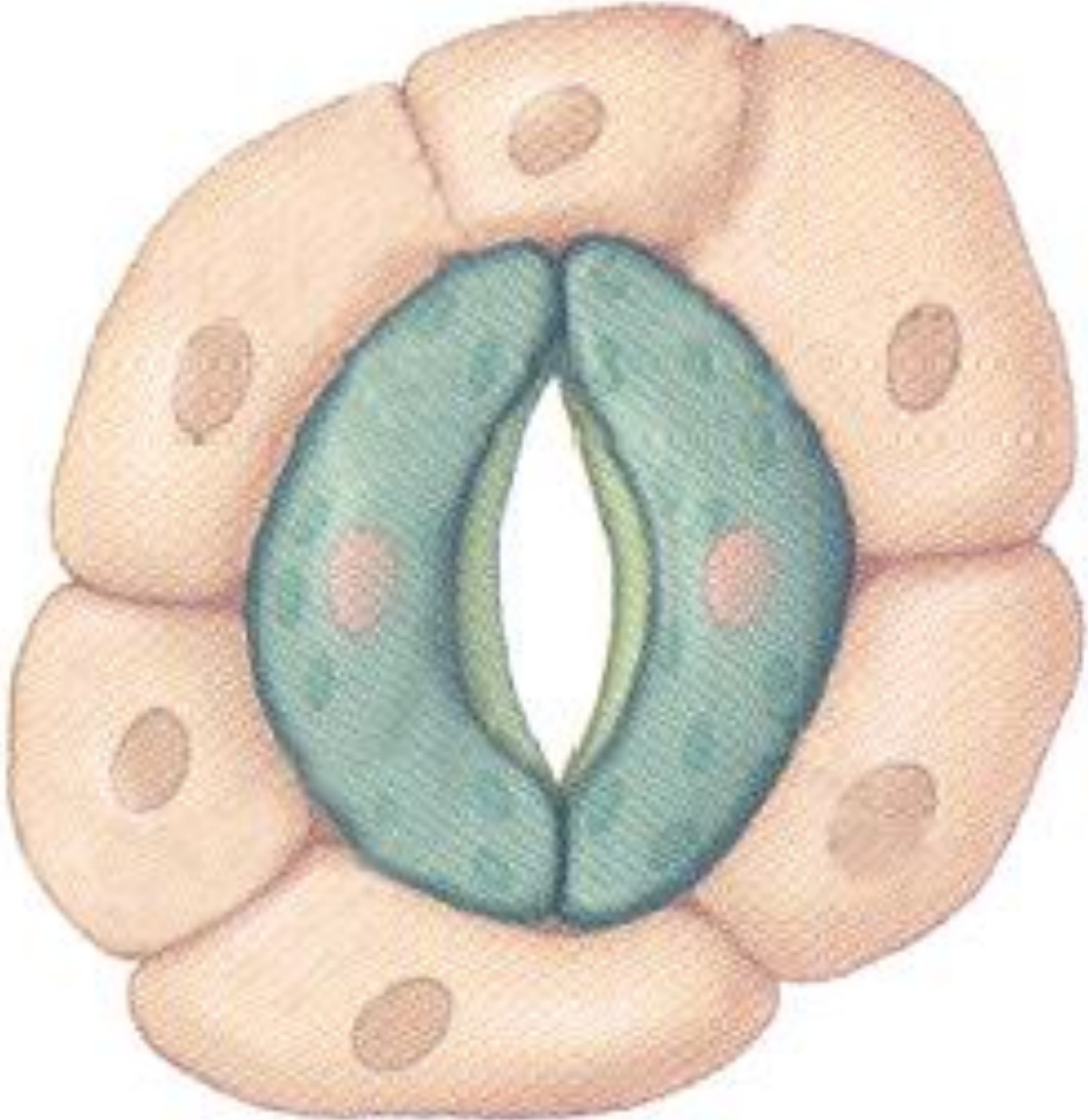
H₂O

H₂O

H₂O

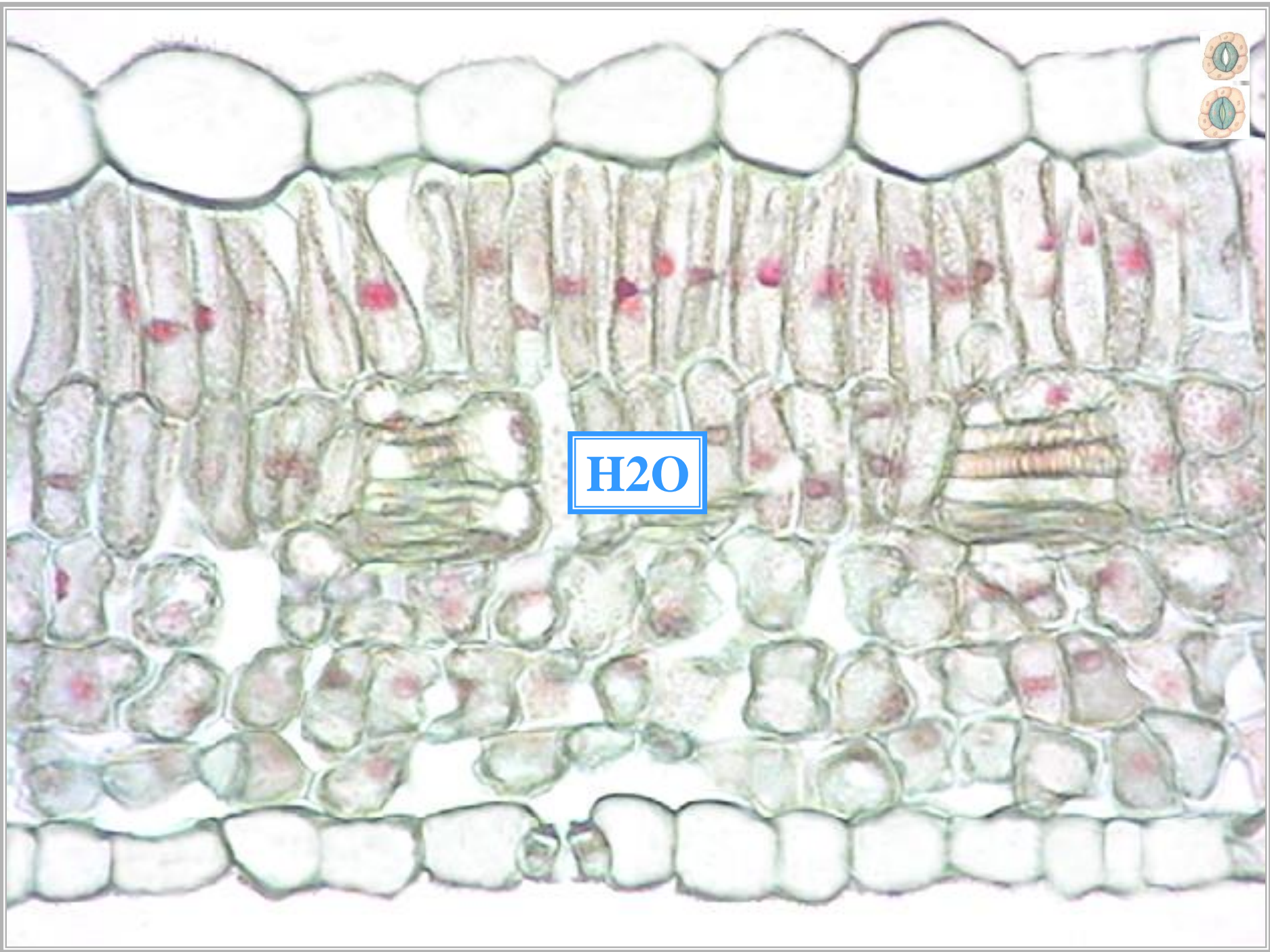
H₂O



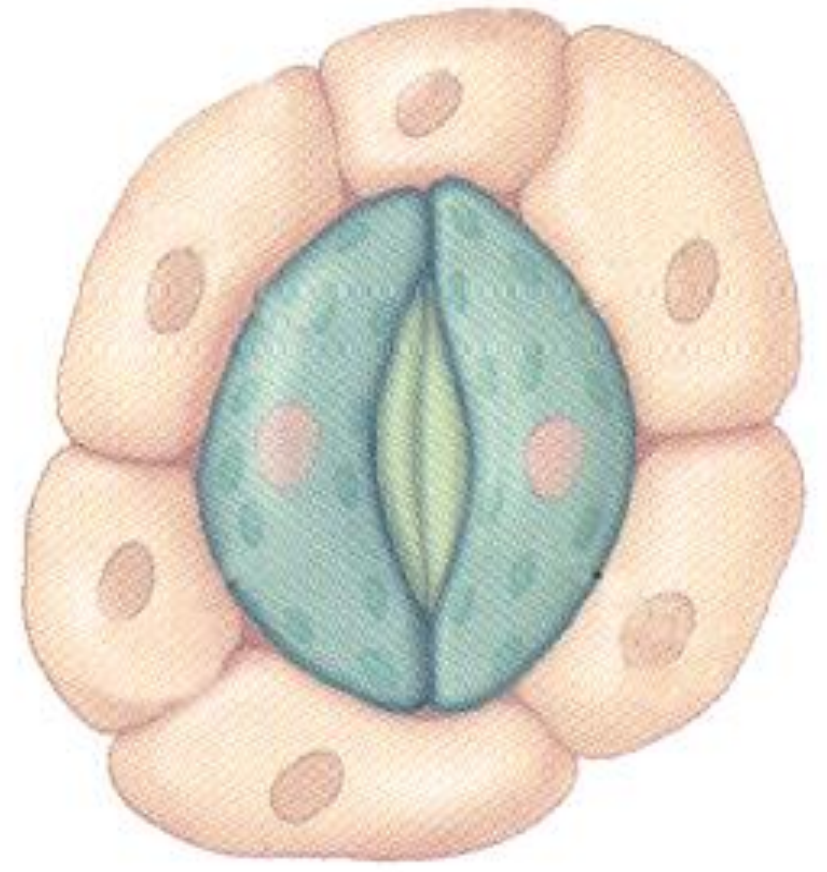
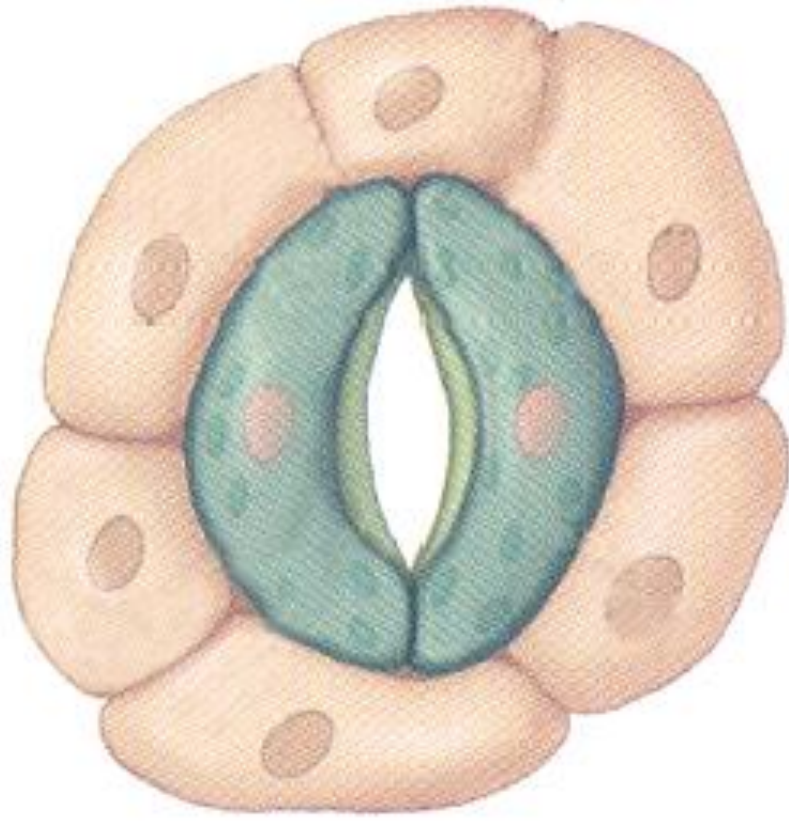


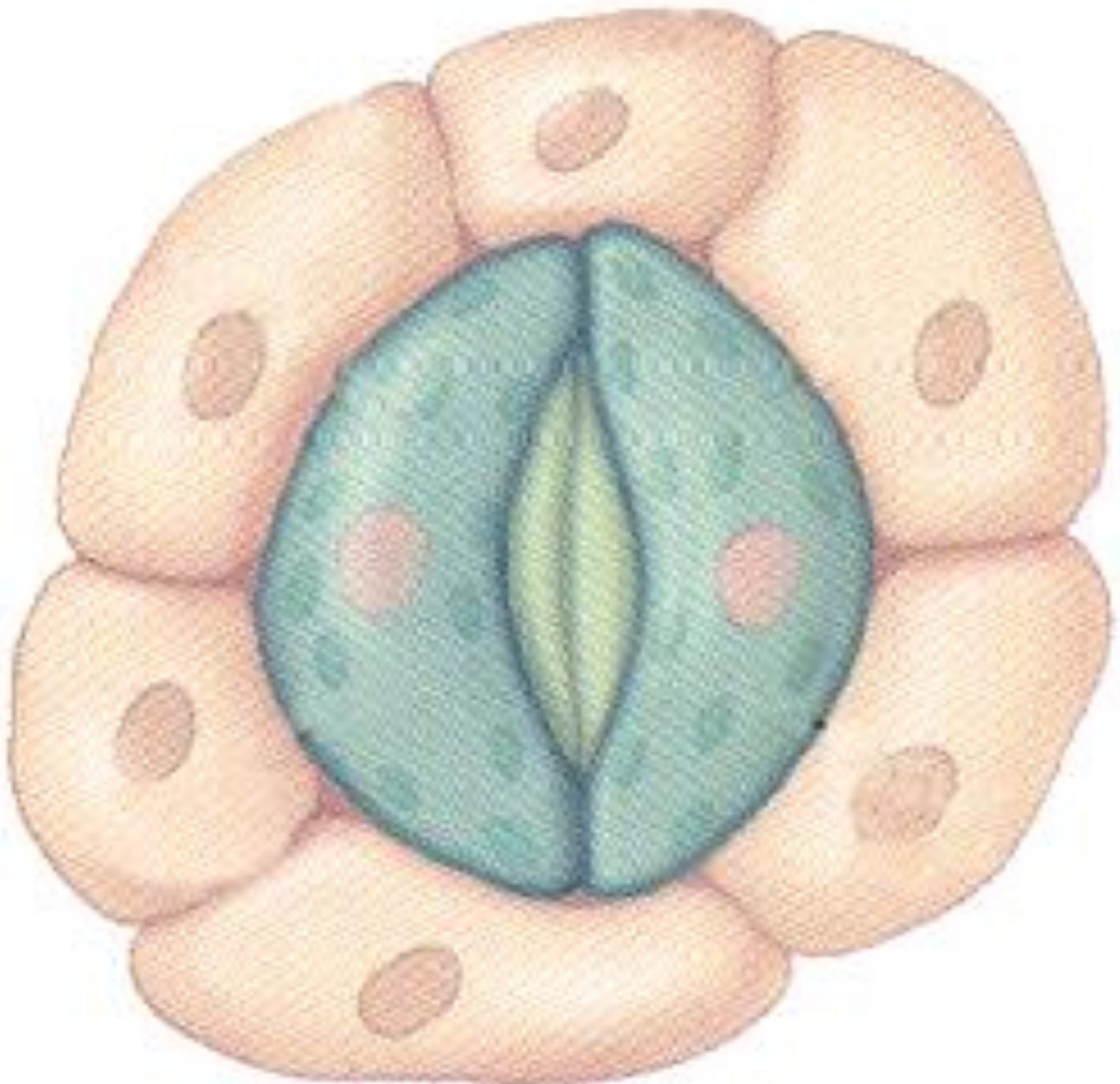


LOW LEAF H₂O CONCENTRATION



H2O







**WATER
CONCENTRATION
OVER-RIDES
ALL OTHER
FACTORS**

**END
LECTURE
MATERIAL
FINAL EXAM**