

Conclusion

The above description clearly indicates that stomatal opening and closing are active process requiring metabolic energy fulfil by ATP produced in chloroplast of guard cells during light reaction.

There are many factors responsible for the stomatal movement in plants. This factors includes, starch, sugar content of the guard cells, intracellular CO_2 content, K^+ ions and hormones content of the guard cells and others. The subsidiary cells also play an active role in transport for ions. It may be concluded that all these factors either independently or collectively influence the guard cells movement at primary or secondary level. The exact mechanism is still unknown.