

ABSTRACT

Anwar Hidayat. 2020. Anatomical Analysis of Plant Stems of Ki Urat (*Plantago major L*) Based on Differences in Altitude. Supervised by Dr. Yusuf Ibrahim, M.Pd., MP and Drs. Suhara, M.Pd.

*Ki urat plant (*Plantago major L*) is a dicoty plant that lives cosmopolitan, ki urat plant can live in coastal areas to mountainous areas with an altitude of 3300 meters above sea level, causing anatomical differences in the stems of ki urat plants. These anatomical differences are caused by adaptation to the environment as well as the microclimate at each different place. This research was carried out in several places that have different heights, namely Sawahkulon Village, Pasawahan District, Purwakarta (200 masl), Jl. Kapten Halim, Taringgul Tengah, Wanayasa, Purwakarta (400 masl), Rancamanyar, Baleendah, Baleendah District, Bandung (600 masl), Jl. Bukit Dago, Dago, Coblong District, Bandung City (800 masl), and Jl. Punclut, Ciumbuleuit, Kec. Cidadap, Bandung City (1000 masl). The aim of this study was to determine the changes in the length and width of the anatomical cells of the ki urat stem at different heights, and to compare them. This study used a descriptive method with purposive sampling research technique carried out at each different height. The parameters measured in this study were only the length and width of cells in each constituent tissue in the stem such as the epidermis, cortex, phloem, xylem and pith. The results of the study showed that the length and width of the stem cell anatomy of the ki urate plant in the epidermis, cortex, phloem, xylem and pith there were differences at each height which was volatile. The real difference is also shown by the results of statistical analysis, the data show that the height can affect the length and width of the anatomical stems of the ki urat plant.*

Keywords: *Anatomy, Plant Ki Urat (*Plantago major L*), Altitude*