



S1 Figure. Photosynthetic characterization of Bracken and Setaria in the field. (A) Light-response curves of photosynthetic CO_2 net uptake (A) of Setaria (solid lines) and Bracken (dashed lines). A was determined as dependent on the light intensity (PAR). The light-saturation curves were taken at two different elevations: 1835 m (gray lines) and 2110 m (black lines). The measurements were performed at $400 \mu\text{mol CO}_2 \text{ mol}^{-1}$ and 25°C . **(B)** Photosynthesis rates were determined as dependent on CO_2 partial pressure (C_i). A/C_i curves were taken at two different elevations: 1835 m (gray lines) and 2110 m (black lines). The measurements were performed with $1200 \mu\text{mol quanta m}^{-2} \text{s}^{-1}$ and at 25°C ($n \geq 3$). (modified from Knuesting et al., 2015)

Knuesting J, Schorsch M, Voss I, Brenner S, Bendix J, Strobl S, Beck E, Scheibe R (2015) Modeling the competition between the pasture grass *Setaria sphacelata* and Bracken: Comparison of photosynthetic capacities at different altitudes. *Tabebuia Bulletin* 1(4): 16-19.