

Supplementary file 1: Assessment of bee mandibular strength

(Based on Ibanez S, Lavorel S, Puijalon S, Moretti M (2013) Herbivory mediated by coupling between biomechanical traits of plants and grasshoppers. Functional Ecology 27: 479–489.)

$$F = F_A \times (L_A / L_M) \times 1/R_C$$

F = force of mandible

F_A = force of adductor muscle (area of mandible section as proxy)

L_A = lever of adductor muscle

L_M = lever of mandible

R_C = width of cutting margin

