

Reactive Oxygen Species Initiate Defence Responses of Potato Photosystem II to Sap-Sucking Insect Feeding

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Figure S1. Dorsal view of fifth instar nymph of the brown marmorated stink bug (*Halyomorpha halys* Stål) an insect of the Pentatomidae family, feeding at the main vein (<https://antropocene.it/en/2019/11/01/halyomorpha-halys/>)

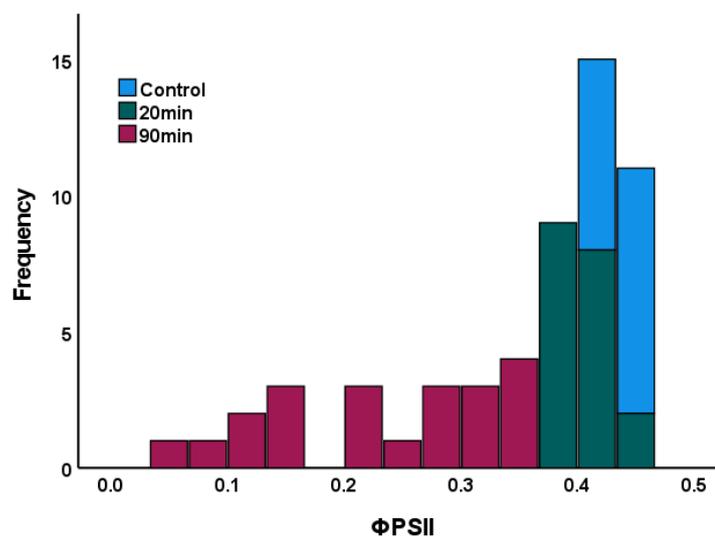


Figure S2. Histogram of all data points of the effective quantum yield of PSII photochemistry (Φ_{PSII}) per time point (data of Figure 1).

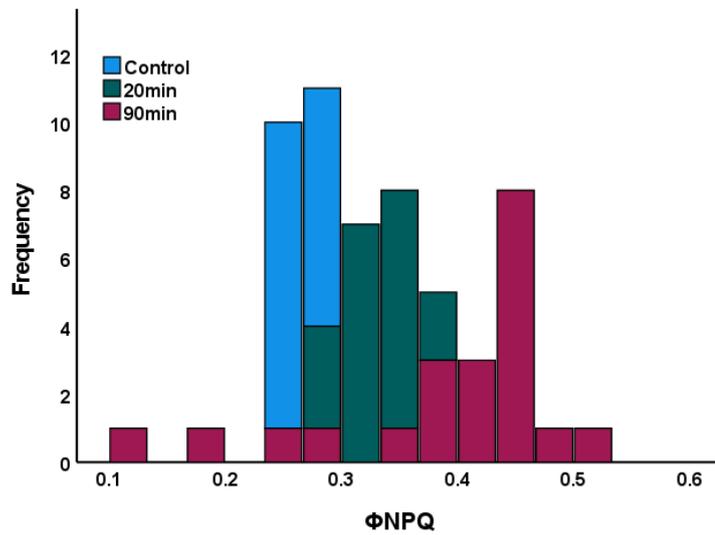


Figure S3. Histogram of all data points of the quantum yield of regulated non-photochemical energy loss (Φ_{NPQ}) per time point (data of Figure 1).

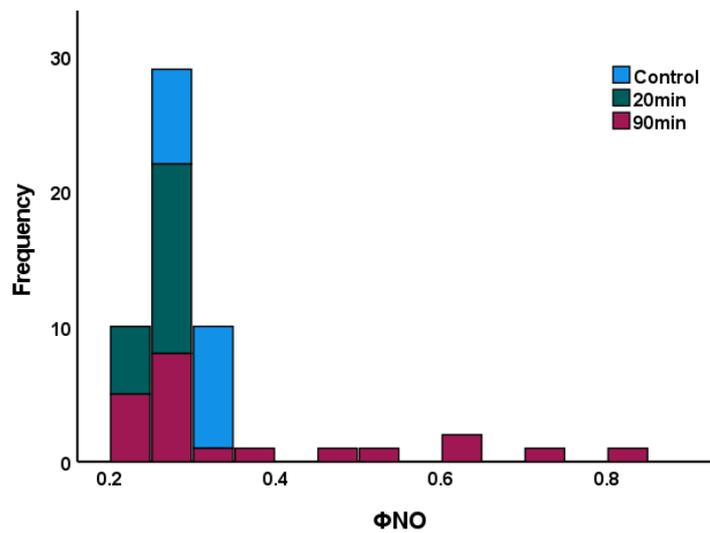


Figure S4. Histogram of all data points of the quantum yield of non-regulated energy (Φ_{NO}) per time point (data of Figure 1).

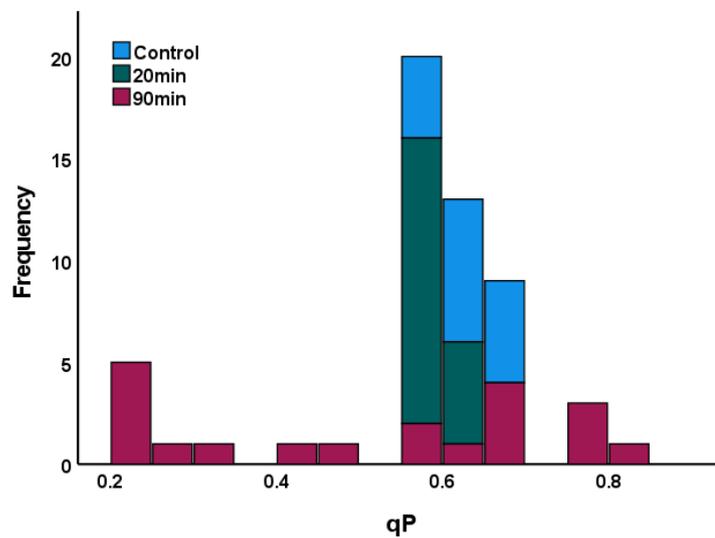


Figure S5. Histogram of all data points of the fraction of open PSII reaction centers (qP) per time point (data of Figure 3a).

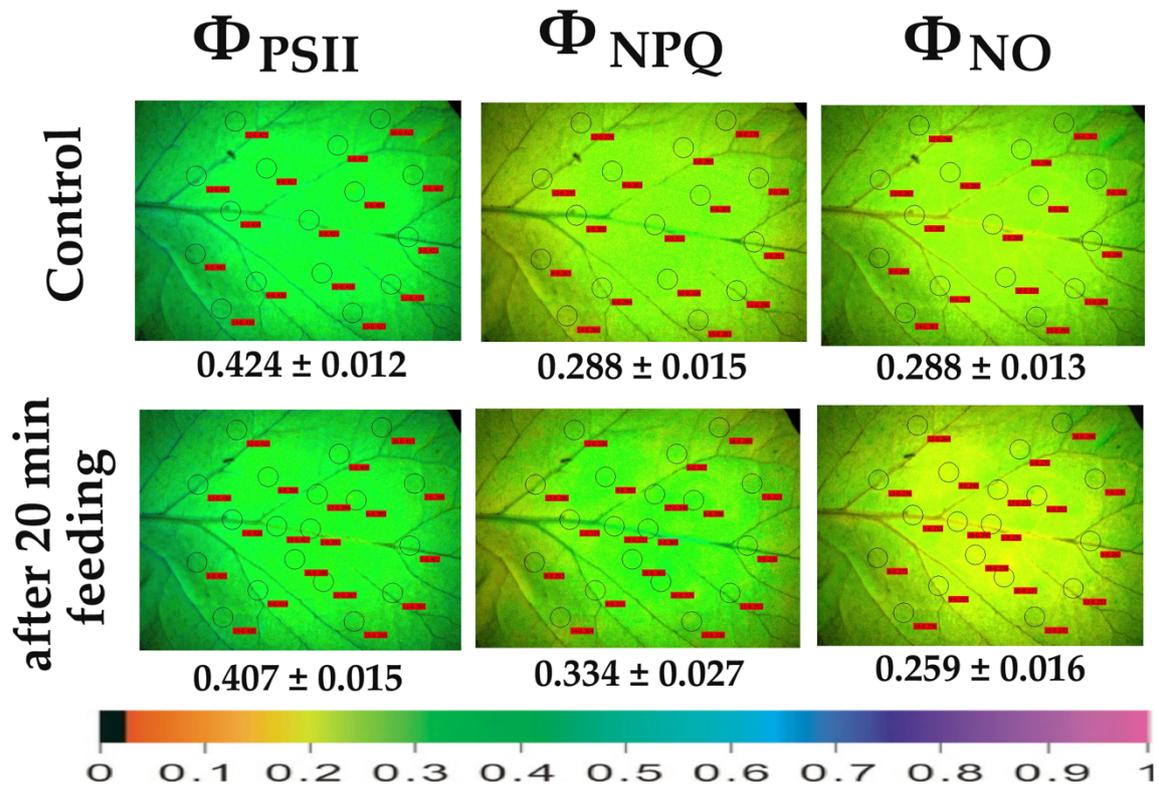


Figure S6. Typical color-coded images of the effective quantum yield of PSII photochemistry (Φ_{PSII}), the quantum yield of regulated non-photochemical energy loss (Φ_{NPQ}), and the quantum yield of non-regulated energy loss (Φ_{NO}), before insect feeding (control), and immediately after 20 min feeding by the sap-sucking insect *Halyomorpha halys*. The areas of interests (AOIs) are shown in circles with their associated measurements in red labels; the resultant values for the whole leaflet (average \pm SD) are given also. The color code at the bottom ranges from pixel values 0.0 to 1.0.