Qualitative characterization of secondary metabolites of *Paspalum virgatum* weed under different water conditions

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**SUPPLEMENTARY FIGURES**

*Supplementary Figure 1.* Identification tests of phenolic compounds, control, reaction with ferric chloride and reaction with NaOH, respectively. Flooding plants: Fig. A - root, B - stem and C - leaf; Plants in field capacity: Fig. D - root, E - stem and F - leaf; Plants in water deficit: Fig. G - root, H - stem and I - leaves.
Supplementary Figure 2. Tannin identification tests, control (tube left) and reaction with ferric chloride, respectively. Flooding plants: Fig. A - root, B - stem and C - leaf; Plants in field capacity: Fig. D - root, E - stem and F - leaf; Plants in water deficit: Fig. G - root, H - stem and I - leaves.

Supplementary Figure 3. Tannin identification tests, control (tube to the left) and reaction with gelatin, respectively. Flooding plants: Fig. A - root, B - stem and C - leaf; Plants in field capacity: Fig. D - root, E - stem and F - leaf; Plants in water deficit: Fig. G - root, H - stem and I - leaves.

Supplementary Figure 4. Tannin identification tests, control (tube to the left) and reaction with copper acetate, respectively. Flooding plants: Fig. A - root, B - stem and C - leaf; Plants in field capacity: Fig. D - root, E - stem and F - leaf; Plants in water deficit: Fig. G - root, H - stem and I - leaves.
Supplementary Figure 5. Steroid and terpene identification tests, Control (tube below) and Liberman-Bouchadart reaction, respectively. Flooding plants: Fig. A - root, B - stem and C - leaf; Plants in field capacity: Fig. D - root, E - stem and F - leaf; Plants in water deficit: Fig. G - root, H - stem and I - leaves.

Supplementary Figure 6. Steroid and terpene identification tests, steroid nucleus reaction, samples of plants in flooding 1 to 3, field capacity of 4 to 6 and water deficit of 7 to 9, root, stem and leaf respectively.

Supplementary Figure 7. Identification tests of steroid and terpene extraction B, samples of plants in flooding 1 to 3, field capacity of 4 to 6 and water deficit of 7 to 9, root, stem and leaf respectively.
**Supplementary Figure 8.** Identification tests of general alkaloids. Extraction A, portion I, reactions performed: Bouchardart, Bertrand, Drargendorff, Mayer and Control, respectively. Flooding plants: Fig. A - root, B - stem and C - leaf; Plants in field capacity: Fig. D - root, E - stem and F - leaf; Plants in water deficit: Fig. G - root, H - stem and I - leaves.

**Supplementary Figure 9.** Identification tests of general alkaloids. Extraction B, reactions performed: reagent from Mayer, Drargendorff, Bertrand and Bouchardart, respectively. Flooding plants: Fig. A - root, B - stem and C - leaf; Plants in field capacity: Fig. D - root, E - stem and F - leaf; Plants in water deficit: Fig. G - root, H - stem and I - leaves.