**Supporting Information**

**Article title**: Limited induction of ethylene and cyanide synthesis are observed in quinclorac-resistant *Echinochloa crus-galli* in Uruguay.

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**Analysis of variance. Chlorophyll a concentration**

**Variable N R2 R2  Aj CV**

Chlorophyll a 48 0.76 0.64 17.57

**Chart of analyisis of variance (type III SC)**

 **F.V. SC g1 CM F p-valor**

**Model** 4294.48 15 286.30 6.66 <0.0001

**Genotype** 88.02 1 88.02 2.05 0.1622

**Herbicide** 1530.02 1 1530.02 35.59 <0.0001

**DAT** 1155.60 3 385.20 8.96 0.0002

**Genotype\*Herbicide** 526.69 1 526.69 12.25 0.0014

**Genotype\*DAT** 456.77 3 152.26 3.54 0.0254

**Hebicide\*DAT** 363.27 3 121.09 2.82 0.0548

**Genotype\*Herbicide\*DAT** 174.10 3 58.03 1.35 0.2757

**Error** 1375.83 32 42.99

**Total** 5670.31 47

**Analysis of variance. Chlorophyll b concentration**

**Variable N R2 R2  Aj CV**

Chlorophyll b 48 0.65 0.48 18.95

**Chart of analyisis of variance (type III SC)**

 **F.V. SC g1 CM F p-valor**

**Model** 591.25 15 39.42 3.93 0.0006

**Genotype** 0.08 1 0.08 0.01 0.9279

**Herbicide** 161.331 161.33 16.10 0.0003

**DAT** 188.25 3 62.75 6.26 0.0018

**Genotype\*Herbicide** 85.33 1 85.33 8.25 0.0064

**Genotype\*DAT** 56.25 3 18.75 1.87 0.1543

**Herbicide\*DAT** 65.00 3 21.67 2.16 0.1118

**Genotype\*Herbicide\*DAT** 35.00 3 11.67 1.16 0.3386

**Error** 320.67 32 10.02

**Total** 911.92 47