

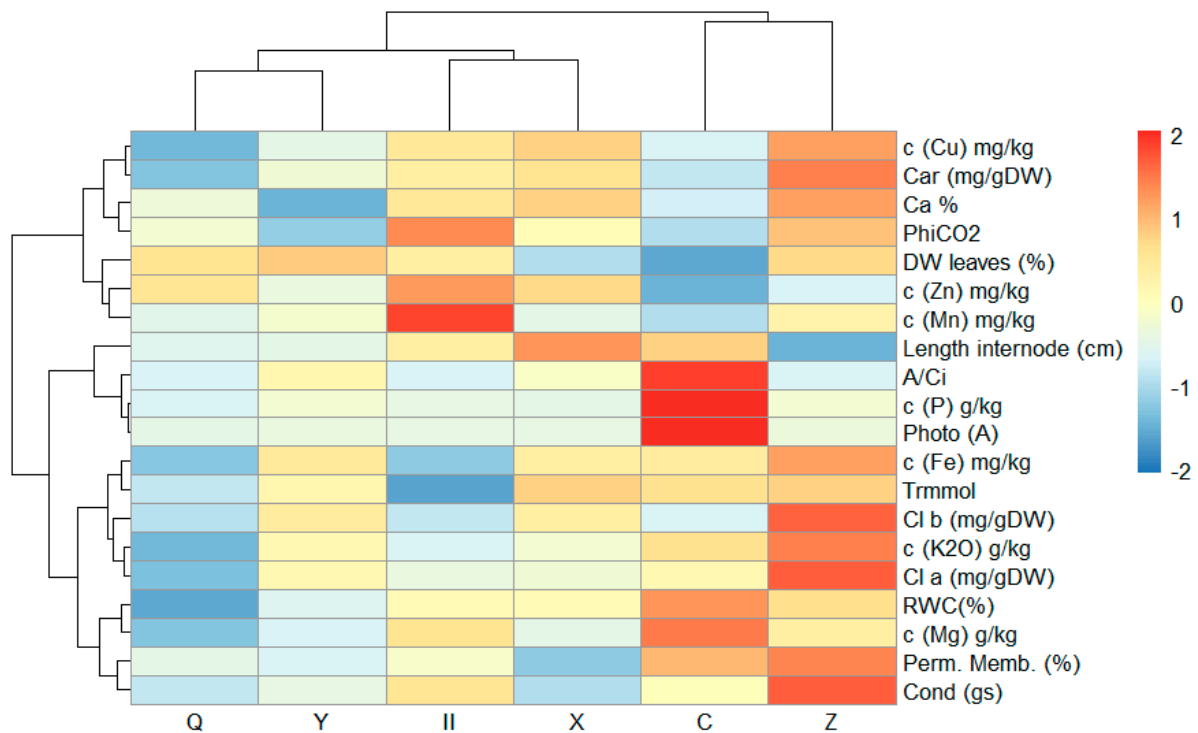
Supplementary table S1. Absorbance for ELISA test for GLRaV-3 on 'Tribidrag' plants used in the experiments. Absorbance is presented as mean values of two technical replicates.

Treatment	Repetition	Absorbance 405 nm
TRII	A	2.9812
TRII	B	0.5134
TRII	C	2.4126
TRII	D	1.0391
TRII	E	3.0546
TRII	F	0.6312
TRX	A	0.8135
TRX	B	1.2156
TRX	C	1.9722
TRX	D	1.2346
TRX	E	0.7831
TRY	A	0.8123
TRY	B	0.8935
TRY	C	0.9932
TRY	D	0.5321
TRY	E	1.0814
TRQ	A	3.3261
TRQ	B	3.3371
TRQ	C	2.7382
TRQ	D	1.8863
TRQ	E	1.0621
TRZ	A	1.0871
TRZ	B	1.3325
TRZ	C	0.8772
TRZ	D	0.9612
TRZ	E	2.6612

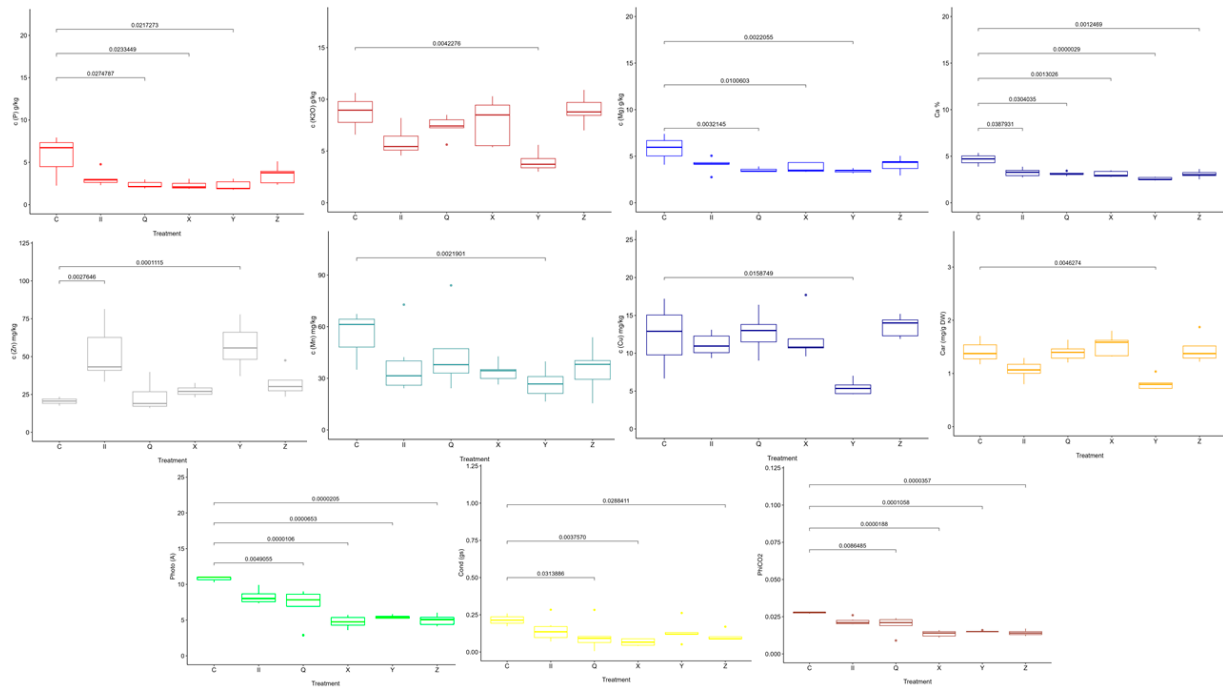
Supplementary figure S1. Results of multiplex PCR obtained from samples of 'Tribidrag' plants infected with inoculum Z. For internal control, 18s genomic region of *Vitis* was used (844 bp). Products of grapevine leafroll-associated virus 3 (GLRaV-3) and grapevine virus A (GVA) are represented on the figure with their respective lengths: GLRaV-3 – 336 bp and GVA – 272 bp.



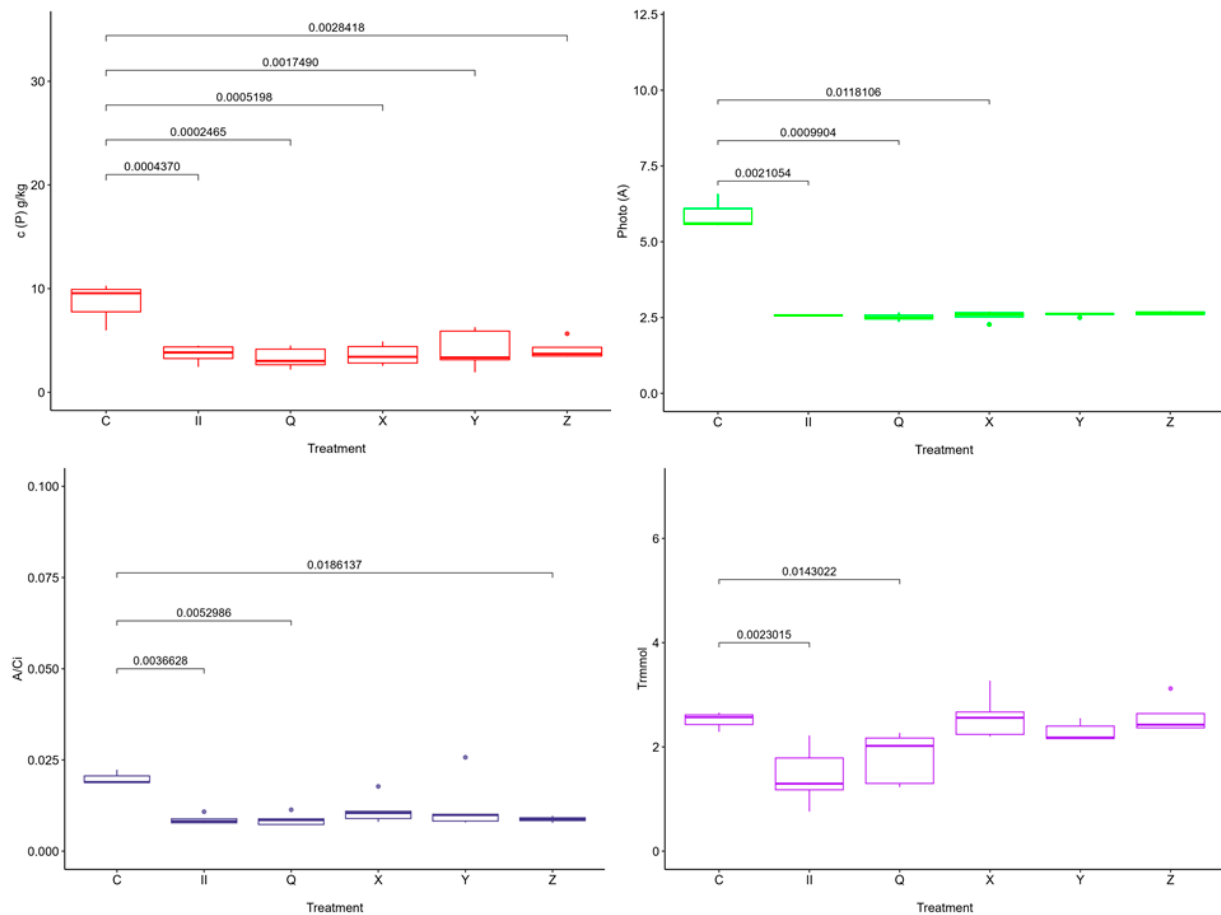
Supplementary figure S2. Heat map analysis calculated from measured parameters in 'Tribidrag' plants infected with GLRaV-3 singly or in coinfection with other viruses (Table 1.) in the second year of measurements, control plants are marked with C on the x axis. Distance was determined by Euclidean method (columns) and clustering (rows) was performed using Ward method [38]. Abbreviations are as following: c – concentration, Cu – Copper, Ca – calcium, Zn – zinc, Mn – manganese, P – phosphorus, Fe – iron, K₂O – Potassium, Mg – Magnesium, Car – Carotenoids, PhiCO₂ – Quantum yield from CO₂ assimilation, DW leaves – dried weight of leaves, Photo (A) – assimilation rate, Trmmol – leaf transpiration, Cl *a* and *b* – Chlorophyll *a* and *b*, RWC – relative water content, Perm. Memb – Membrane permeability, Cond (gs) – stomatal conductance.



Supplementary figure S3. Results of ANOVA test and post hoc Tukey comparing the changes in measured parameters between control and infected plants in the first year of measurements. Significant changes are marked amongst boxplots representing individual treatments as listed in Table 1. Outlier measurements that are 1.5 times over the upper/lower quartile of the dataset of an individual boxplot are marked with points. Abbreviations for individual parameters are as following: c – concentration, P – phosphorus, K2O – potassium, Mg – magnesium, Ca – calcium, Zn – zinc, Mn – manganese, Cu – copper, Car – total carotenoid content, Photo (A) – assimilation rate, Cond (gs) – stomatal conductance, PhiCO₂ – Quantum yield from CO₂ assimilation.



Supplementary figure S4. Results of ANOVA test and post hoc Tukey comparing changes in measured parameters in the infected with the control plants in the second year of measurements. Significant changes are marked amongst boxplots representing individual treatments as listed in Table 1. Outlier measurements that are 1.5 times over the upper/lower quartile of the dataset of an individual boxplot are marked with points. Abbreviations for individual parameters are: c – concentration, P – phosphorus, Photo (A) – assimilation rate, Ci – Substomal CO₂ concentration, Trmmol – Leaf transpiration.



Supplementary table S2. List of abbreviations: physiological and morphological parameters as indicators of ‘Tribidrag’ response to viral infection.

Abbreviation	Parameter name
P	Phosphorus
K	Potassium
N	Nitrogen
Ca	Calcium
Zn	Zinc
Mn	Manganese
Fe	Iron
Mg	Magnesium
Cu	Copper
Cl <i>a</i>	Chlorophyll a
Cl <i>b</i>	Chlorophyll b
Car	Carotenoids
proline	Proline
len_inter	Length internode
DW_leaves	Dried weight of leaves
Photo (A)	Assimilation rate
Cond (gs)	Stomatal conductance
Ci	Substomal CO ₂ concentration
A/Ci	A/Ci
A/gs	A/gs
PhiCO2	Quantum yield from CO ₂ assimilation
TrmoIE	Leaf transpiration
RWC	Relative water content
perm_memb	Membrane permeability