Table S1. Three-factorial ANOVA analysis of the examined variables (*i.e.*, maize genotype, number of aphids, infestation time) and the interactions on 8-OHdG content in genomic DNA, 8-OHG content in total RNA and mRNA, amount of MDA and percentage of electrolyte leakage (EL) in aphid-challenged maize seedlings.

Indicators	8-OHdG (DNA)	8-OHG (Total RNA)	8-OHG (mRNA)	MDA	EL
Maize genotype (G)	$F_{1,54} = 12$ (ns)	$F_{1,54} = 2,682$ (***)	$F_{1,54} = 6,542$ (***)	$F_{1,54} = 2,375$ (***)	$F_{1,54} = 1,815$ (***)
Number of aphids (A)	$F_{2,54} = 4$ (ns)	$F_{2,54} = 1,945$ (***)	$F_{2,54} = 4,744$ (***)	$F_{2,54} = 2,060$ (***)	$F_{2,54} = 1,618$ (***)
Infestation time (T)	$F_{5,54} = 6$ (ns)	$F_{5,54} = 1,308$ (***)	$F_{5,54} = 1,630$ (***)	$F_{5,54} = 1,530$ (***)	$F_{5,54} = 934$ (***)
G × A	$F_{2,54} = 1$ (ns)	$F_{2,54} = 953$ (***)	$F_{2,54} = 804$ (**)	$F_{2,54} = 815$ (***)	$F_{2,54} = 675$ (***)
A × T	$F_{10,54} = 2$ (ns)	$F_{10,54} = 680$ (**)	$F_{10,54} = 915$ (***)	$F_{10,54} = 550$ (***)	$F_{10,54} = 411$ (**)
G × T	$F_{5,54} = 0.8$ (ns)	$F_{5,54} = 192$ (**)	$F_{5,54} = 457$ (**)	$F_{5,54} = 165$ (*)	$F_{5,54} = 98$ (*)
G × A × T	$F_{10,54} = 0.3$ (ns)	$F_{10,54} = 106$ (*)	$F_{10,54} = 235$ (**)	$F_{10,54} = 86$ (*)	$F_{10,54} = 52$ (*)

(*) $P<0.05$; (**) $P<0.01$; (***) $P<0.001$; (ns) – non-significant. Variables: i) maize genotype – Waza and Złota Karłowa; ii) number of aphids – 0, 30 and 60 *R. padi* females per plant; iii) infestation time – 0, 3, 6, 24, 48 and 96 hours post infestation.

Table S2. Three-factorial ANOVA analysis of the studied variables (*i.e.*, maize genotype, number of aphids, infestation time) and the interactions on the content of total thiols, protein and non-protein thiols, and protein-bound carbonyl groups in aphid-stressed maize seedlings.

Indicators	Total thiols	Protein thiols	Non-protein thiols	Protein carbonyls
Maize genotype (G)	$F_{1, 54} = 3,965$ (***)	$F_{1, 54} = 4,450$ (***)	$F_{1, 54} = 6,385$ (***)	$F_{1, 54} = 1,145$ (***)
Number of aphids (A)	$F_{2, 54} = 2,613$ (***)	$F_{2, 54} = 3,825$ (***)	$F_{2, 54} = 2,374$ (***)	$F_{2, 54} = 902$ (***)
Infestation time (T)	$F_{5, 54} = 2,420$ (***)	$F_{5, 54} = 1,690$ (***)	$F_{5, 54} = 3,068$ (***)	$F_{5, 54} = 1,347$ (***)
G × A	$F_{2, 54} = 1,078$ (***)	$F_{2, 54} = 945$ (**)	$F_{2, 54} = 1,280$ (***)	$F_{2, 54} = 615$ (**)
A × T	$F_{10, 54} = 714$ (**)	$F_{10, 54} = 816$ (**)	$F_{10, 54} = 984$ (***)	$F_{10, 54} = 264$ (**)
G × T	$F_{5, 54} = 180$ (*)	$F_{5, 54} = 205$ (*)	$F_{5, 54} = 317$ (**)	$F_{5, 54} = 396$ (**)
G × A × T	$F_{10, 54} = 163$ (*)	$F_{10, 54} = 158$ (*)	$F_{10, 54} = 195$ (**)	$F_{10, 54} = 112$ (*)

(*) $P<0.05$; (**) $P<0.01$; (***) $P<0.001$; (ns) – non-significant. Variables: i) maize genotype – Waza and Złota Karłowa; ii) number of aphids – 0, 30 and 60 *R. padi* females per plant; iii) infestation time – 0, 3, 6, 24, 48 and 96 hours post infestation.