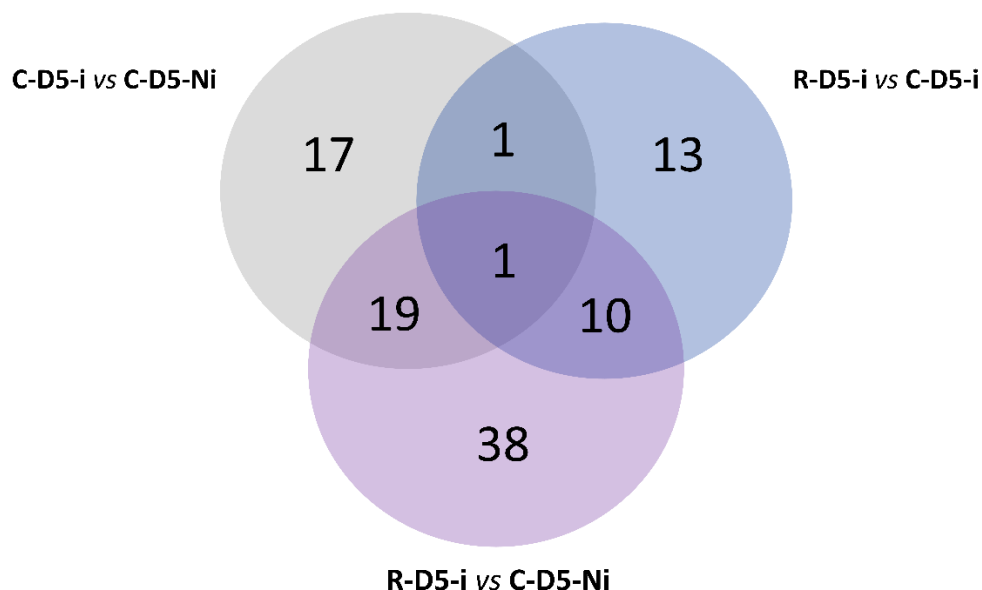
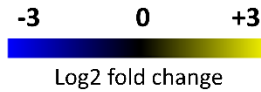


SUPPLEMENTARY FIGURES



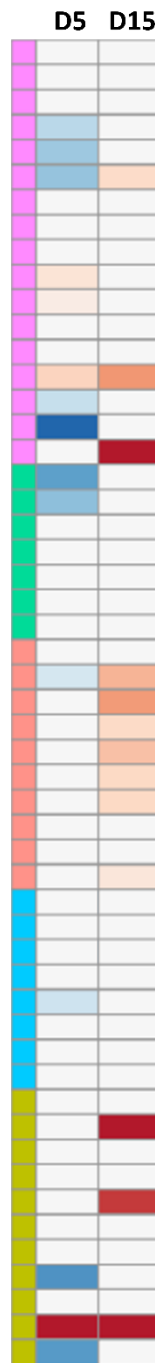
SUPPLEMENTARY FIGURE 1 | Venn diagram of the number of differentially expressed genes observed during the fungus effect (C-D5-i vs C-D5-Ni), the priming effect (R-D5-i vs C-D5-i) and the whole deregulation on gene expression caused by the rhamnolipid treatment followed by *Z. tritici* infection (R-D5-i vs C-D5-Ni) at five days after treatment. Wheat cultivar Alixan, *Z. tritici* T02596 strain and a rhamnolipid concentration of 500 mg.L⁻¹ were used. Abbreviations : C stands for a mock treatment while R is for Rh-Est-C12 application ; Ni relates to a mock inoculated wheat while i means inoculated plants with *Z. tritici* ; D5 indicates the sampling date of the third-leaves, corresponding to five days after treatment.



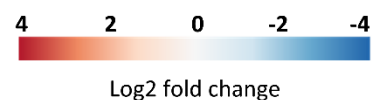
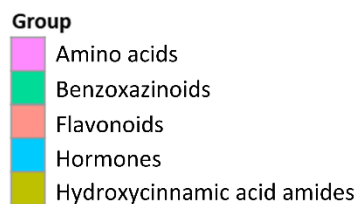
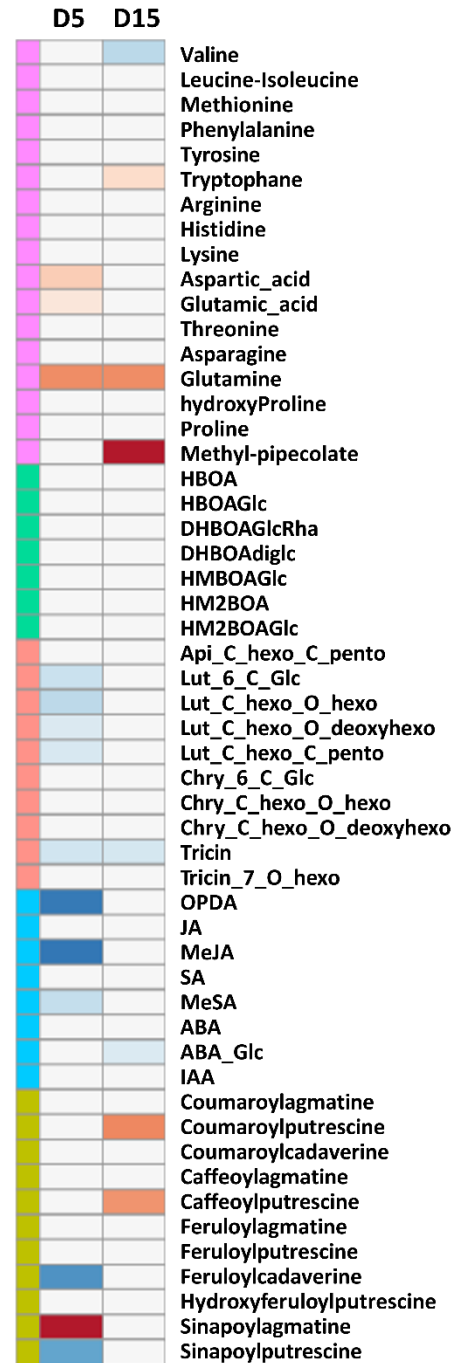
A		B		
TA54418_4565				Response to abiotic stress
U73211				
CA624093				
AF058794				
TA73273_4565				
TA84187_4565				
TA92949_4565				
TA62230_4565				
CF133748				
DQ286566				
TC421665				
AY781354				
EF028787				
EF028785				
TC369712				
TA59927_4565				Response to oxidative stress
TA59060_4565				
TA102260_4565				
TC401354				
BQ161851				
CK212695				
TA61435_4565				
TC384087				
TA61129_4565				
CA600821				
TC429241				Response to pathogens
TA51226_4565				
TC426538				
TA72415_4565				
TC442947				
EF570122				
TA76681_4565				
TA57993_4565				Flowering and seed maturation
TA84120_4565				
TC404192				
TA70093_4565				
TA86268_4565				Growth and development
TA70788_4565				
TA61980_4565				
DQ435671				
TC405303				
L27516				
TA61828_4565				Cell wall structure and function
TA66611_4565				
CK152333				
TA87087_4565				
CK207368				
TA77295_4565				
TA77906_4565				
TA60114_4565				
TA61116_4565				
TA92734_4565				Chloroplast structure, light harvesting, carbohydrate metabolism
TC371150				
CK217674				
TA55816_4565				
TA61423_4565				
TA59583_4565				
EU492898				
TA70102_4565				
TA91251_4565				
TA52838_4565				Amino acid metabolism
TC393988				
TA69140_4565				
TA69994_4565				
TA82049_4565				Protein metabolism
TA67255_4565				
HM209063				
TC391450				
JX104551				Lipid metabolism
TA53535_4565				
TA58123_4565				
TA87662_4565				Signaling, transcription, translation, etc.
TA52495_4565				
TA81385_4565				
TA68843_4565				
TA54635_4565				
TA73684_4565				
D16416				
AY881102				
TA74203_4565				
TA85618_4565				
CA721206				
EF040602				
TA51878_4565				
TC389894				

SUPPLEMENTARY FIGURE 2 | Heatmap representation of differentially expressed genes (DEGs) in (A) wheat leaves treated with Rh-Est-C12 and infected with *Z. tritici* compared to non-infected and treated leaves (R-D5-i vs R-D5-Ni), and (B) the whole response specter of DEGs in wheat leaves treated with Rh-Est-C12 and infected with *Z. tritici* compared to the non-treated and non-infected control plants (R-D5-i vs C-D5-Ni), at five days after treatment. Wheat cultivar Alixan, *Z. tritici* T02596 strain and a rhamnolipid concentration of 500 mg.L⁻¹ were used. Gene-related physiological processes are represented on the right part of the heatmap and were determined using NCBI, AmiGO 2 Gene Ontology, KEGG and UniProt. Significant relative change in gene transcription is expressed in Log2 ratio, according to the yellow-blue color scale, using the WebMev software. Abbreviations : C stands for a mock treatment while R is for Rh-Est-C12 application ; Ni relates to a mock inoculated wheat while i means inoculated plants with *Z. tritici* ; D5 indicates the sampling date of the third-leaves, corresponding to five days after treatment.

A) R-D-i vs R-D-Ni



B) R-D-i vs C-D-Ni



SUPPLEMENTARY FIGURE 3 | Heatmap representation of differentially expressed genes (DEGs) in (A) wheat leaves treated with Rh-Est-C12 and infected with *Z. tritici* compared to non-infected and treated leaves (R-D5-i vs R-D5-Ni), and (B) the whole response specter of DEGs in wheat leaves treated with Rh-Est-C12 and infected with *Z. tritici* compared to the non-treated and non-infected control plants (R-D5-i vs C-D5-Ni), at five days after treatment. Wheat cultivar Alixan, *Z. tritici* T02596 strain and a rhamnolipid concentration of 500 mg.L⁻¹ were used. Gene-related physiological processes are represented on the right part of the heatmap and were determined using NCBI, AmiGO 2 Gene Ontology, KEGG and UniProt. Significant relative change in gene transcription is expressed in Log2 ratio, according to the yellow-blue color scale, using the WebMev software. Abbreviations : C stands for a mock treatment while R is for Rh-Est-C12 application ; Ni relates to a mock inoculated wheat while i means inoculated plants with *Z. tritici* ; D5 indicates the sampling date of the third-leaves, corresponding to five days after treatment.