Supplemental Figure Legends

Supplemental Fig. S1. Experimental workflow of proteomics and phosphoproteomics analysis during wheat- *Septoria tritici* **interaction**. Wheat cvs. Stakado and Sevin were inoculated with *Septoria tritici* (*St*) or sprayed with water as control and harvested at 3, 7 and 11 days after inoculation. Three biological replications were prepared. Proteins were extracted, trypsin-digested and labeled with TMT six-plex with the ratio 1:1:1:1:1:1. Phosphopeptides were enriched by TiO₂ chromatography. Replication 1 of both phosphopeptides and total peptides were fractionated by HILIC prior to LC-MS/MS analysis, whereas the other two replicates were run twice in LC prior to MS/MS.

Supplemental Fig. S2. Global expression patterns of quantified plant proteins (A) and phosphopeptides (B) in infected wheat cvs. Stakado and Sevin. The proteome and phosphoproteome profiles are presented as a heatmap using average normalized ratio of infected sample/control at 3, 7 and 11 dai.

Supplemental Fig. S3. Phosphorylation motifs of regulated phosphopeptides predicted by motif-x.

Supplemental Fig. S4. Fungal gene expression analysis in infected wheat cvs. Stakado and Sevin at 3, 7 and 11 dai. Asterisks indicate significant differences (p < 0.05) in relative gene expression after normalization between Stakado and Sevin at each time point. Full names of the genes are shown in Supplemental Table S1.

Supplemental Tables

Supplemental Table S1. Primer sequences for qRT-PCR analysis of fungal genes.

Supplemental Table S2. Complete list of identified and quantified wheat proteins in wheat cvs. Sevin and Stakado infected by *Septoria tritici* at 3, 7 and 11 dai.

Supplemental Table S3. Complete list of identified and quantified wheat phosphopeptides in wheat cvs. Sevin and Stakado infected by *Septoria tritici* at 3, 7 and 11 dai.

Supplemental Table S4. Proteins differentially expressed in wheat in response to Septoria tritici.

Supplemental Table S5. Phosphopeptides showing significant changes in wheat after infection by *Septoria tritici*.

Supplemental Table S6. Septoria tritici proteins and phosphosites identified from infected wheat cvs. Stakado and Sevin.