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Supplementary figure legends:

Figure S1 Log10 of the summed peak intensity as a function of log2 transformed phosphosite ratios. Ratios after 30 and 60 min of cerulenin treatment are shown in blue and orange, respectively. The broken line represents regulation cut-offs.

Figure S2 Cerulenin negatively affects cell growth. (**A**) Cells were grown in glucose supplemented media and treated with cerulenin (50 μM) from log-phase (arrow). The optical density at 600 nm was subsequently determined by spectrophotometry. (**B**) Cells were synchronized with alpha factor before being released into media containing vehicle or cerulenin (50 μM). Cell cycle progression was evaluated by FACS analysis.

Figure S3 Functional annotation clustering of regulated proteins identifies clusters of transcriptional and translational regulators.

Figure S4 Heat map of binary matrix of documented transcription factor/target gene relationships. A documented association between a regulated transcription factor (rows) and the regulation of a gene (columns) is indicated in red. Matrix is clustered hierarchically in both rows and columns.

Figure S5 Hierarchical clustering of z-score standardized time profiles of regulated phospho sites from kinases and kinase regulators. Color key indicates z-score (low values are shown in dark red and high values in white).

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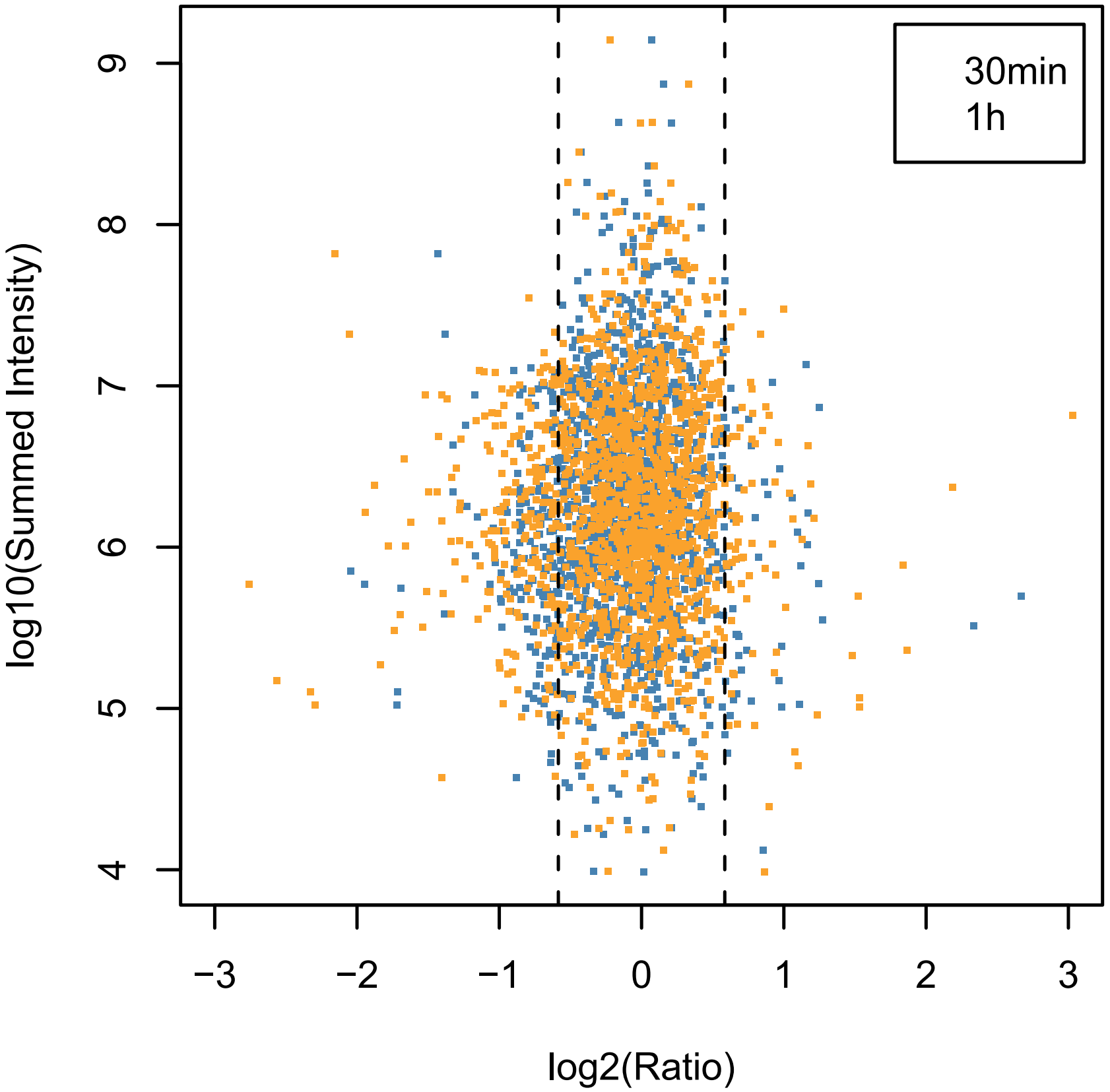

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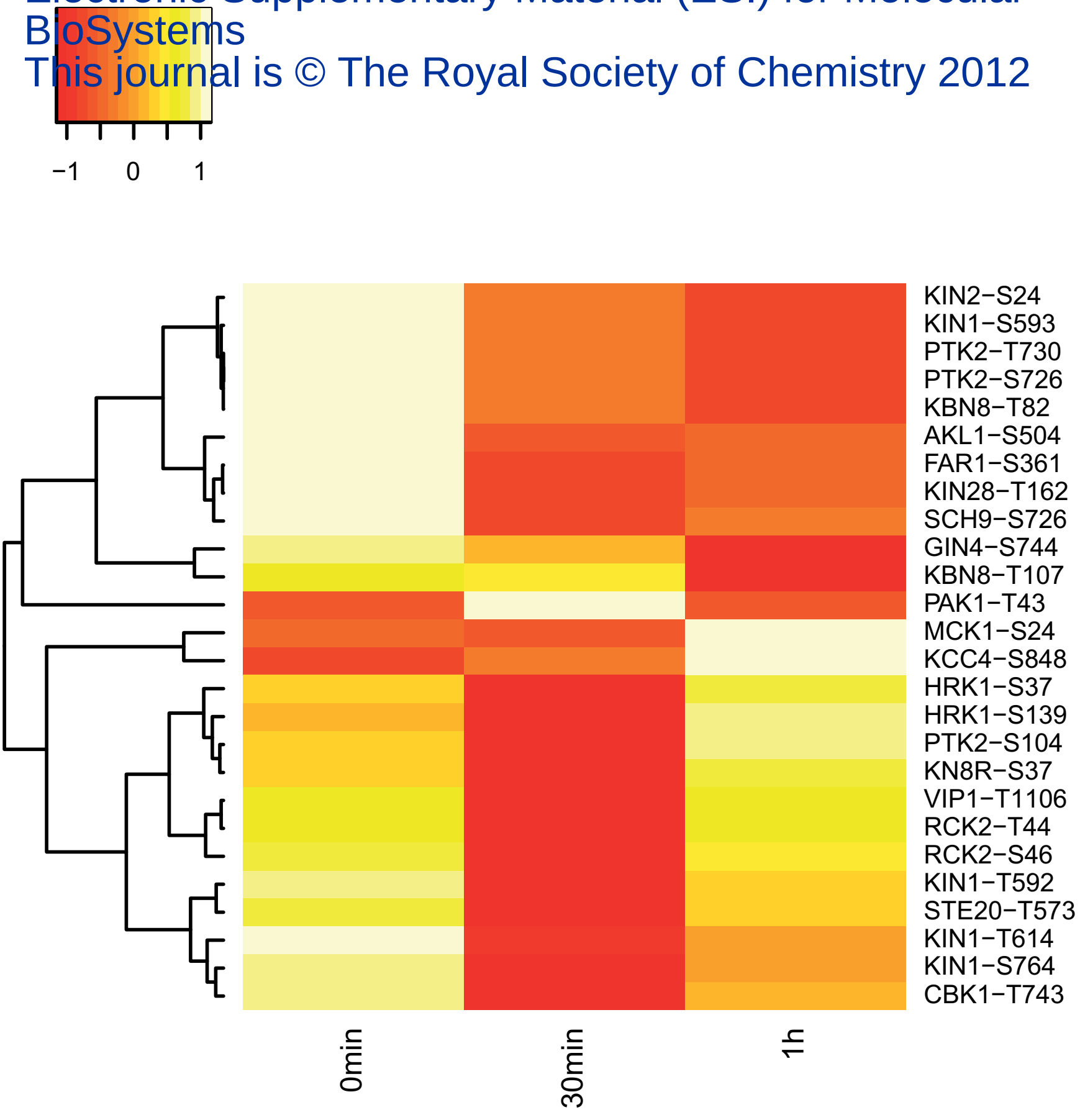

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