

**Supplementary Figure 1 (S1).** *In vivo*  $^{31}\text{P}$ -NMR stacked spectra of GR *Lolium rigidum* (R332); Italy source leaves. NMR data shows progressive two-hour time periods of a 24-hour continuous infiltration with 10 mM glyphosate buffer. Each spectrum represents a two-hour data collection.

R332 (GR *Lolium rigidum*; Italy)

