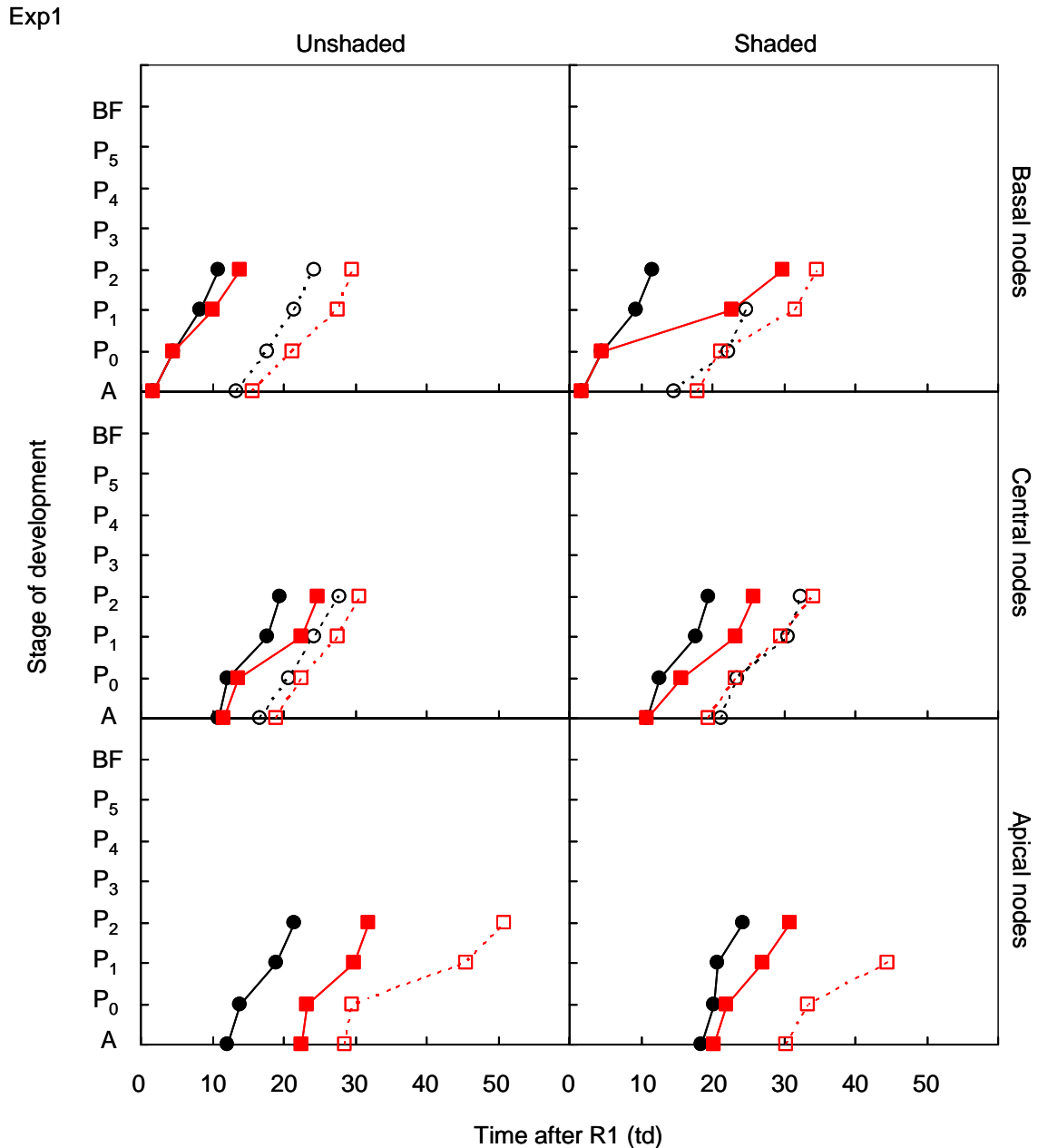


Supplementary Data

Title: Soybean fruit development and set at the node level under combined photoperiod and radiation conditions.

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Figure S1. Developmental stage of the first fruit on the raceme as a function of thermal days after flowering (R1) for primary (full symbols and line) and lateral racemes (empty symbols and dotted line) at basal, central and apical nodes of mainstems of unshaded and shaded plants under control (circles), 1.5 (triangles) or 3 h extended photoperiod (squares), in Exp 1 and Exp2. Developmental scale: open flower (A), pod <1 cm long (P₀), pod 1 to 2 cm long (P₁) or pod >2 cm long (P₂) in both experiments. In Exp2 four extra categories were included: pod 3 to 4 cm long (P₃), pod 4 to 5 cm long (P₄), pod >5 cm long (P₅) and pod with seeds >3 mm long (BF). The panel of central nodes of unshaded plants in Exp 2 is also present on Figure 2 of the manuscript.



Exp2

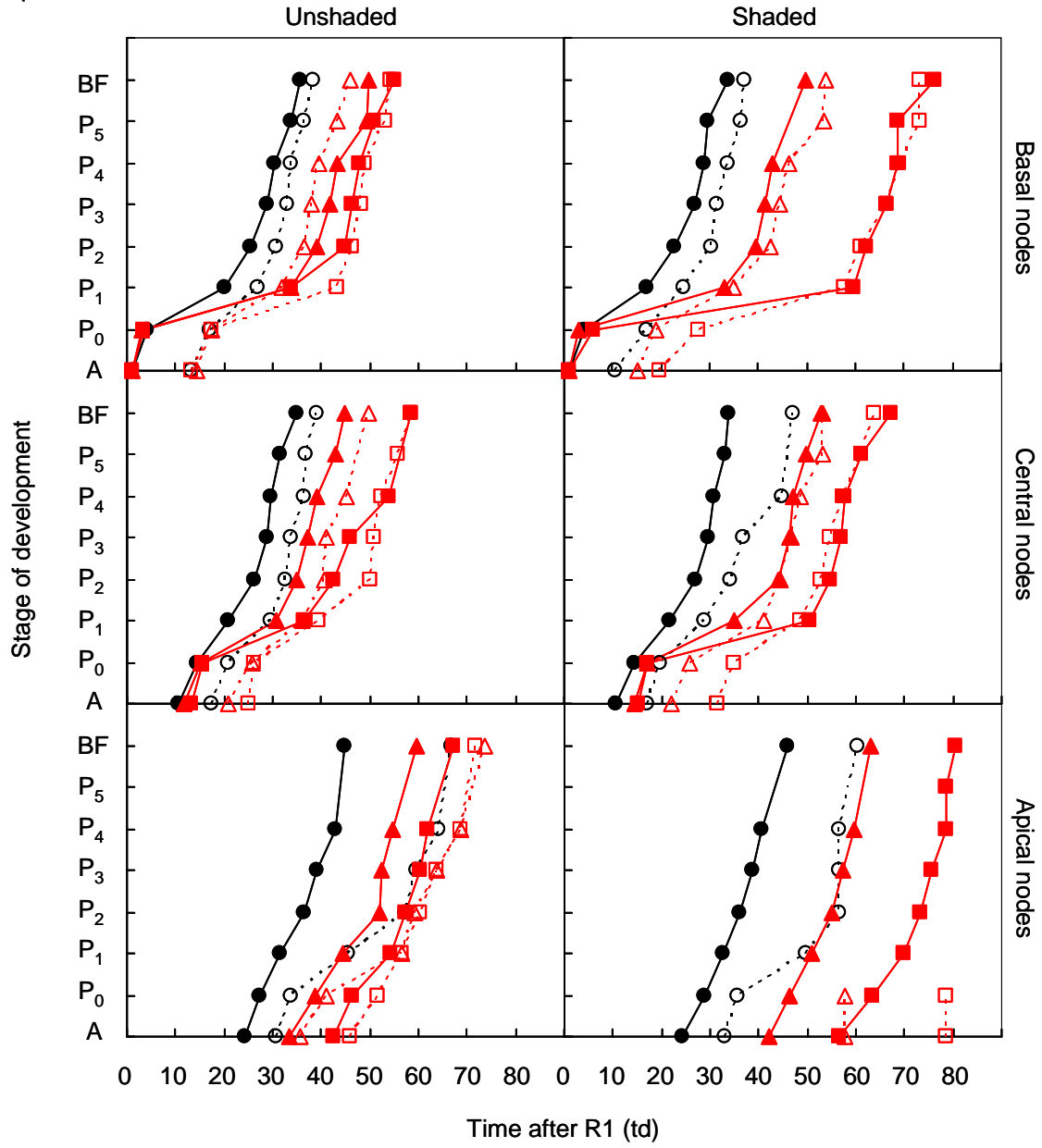


Figure S2. Mean number of flowers, pod set and number of pods in primary and lateral racemes as a function of pod lag phase (in thermal days) at basal (squares), central (circles) and apical nodes (triangles). The line and equation represent the fitted model for all node positions.

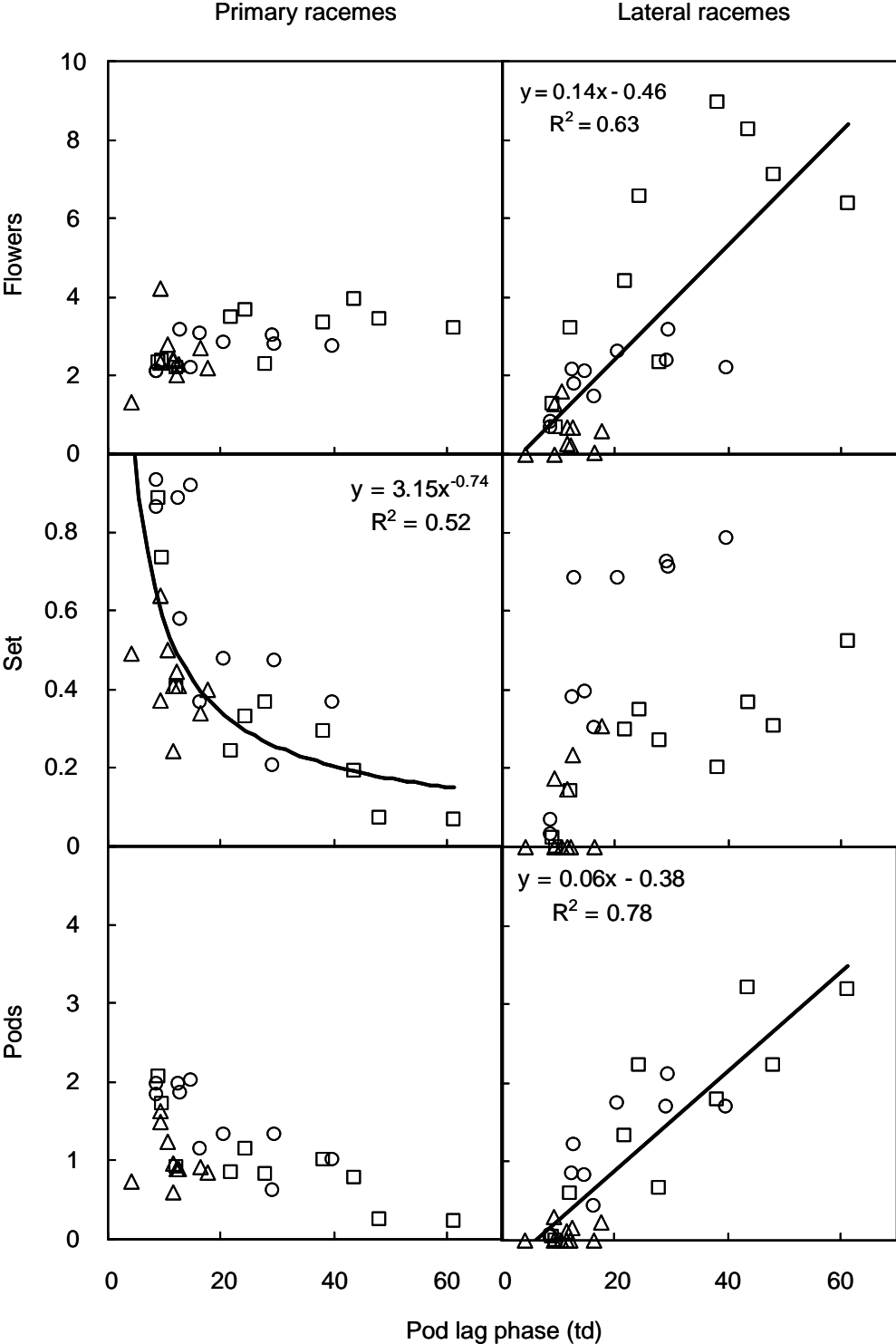
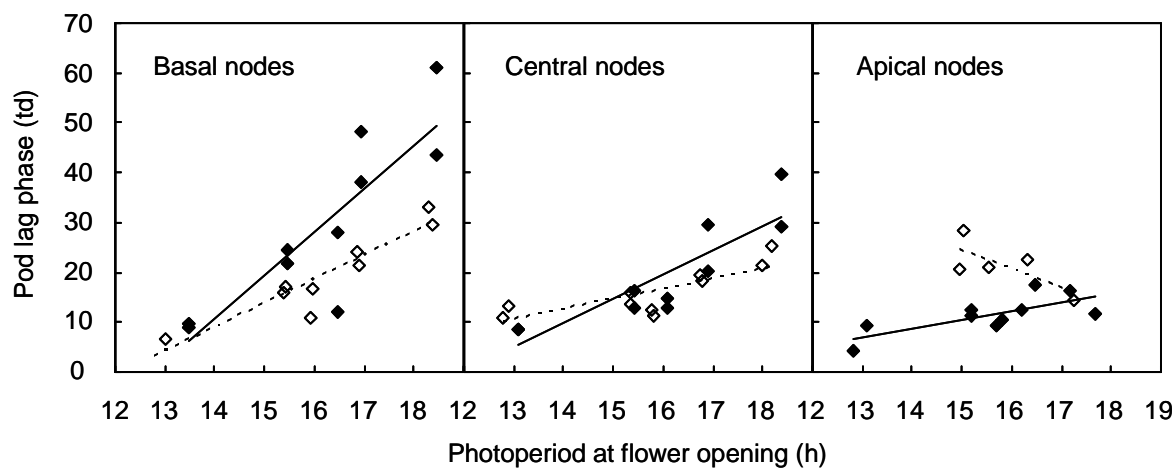


Figure S3. Pod lag phase (in thermal days) vs. mean photoperiod explored during the day the flower opened, for the first flower/pod of primary (full symbols and line) and lateral racemes (empty symbols and dotted line) at basal, central and apical nodes on the main stem. Equation variables are presented in the table below.



	Slope	Origin	r^2	p-value
Basal nodes				
Primary racemes	8.68	-110.6	0.73	0.0013
Lateral racemes	4.62	-56.27	0.85	0.0004
Central nodes				
Primary racemes	8.20	-57.61	0.74	0.0015
Lateral racemes	2.05	-16.24	0.64	0.0054
Apical nodes				
Primary racemes	1.83	-17.06	0.56	0.0124
Lateral racemes	-4.03	84.98	0.62	0.1137