Supplementary Materials

Supplementary data for germination responses

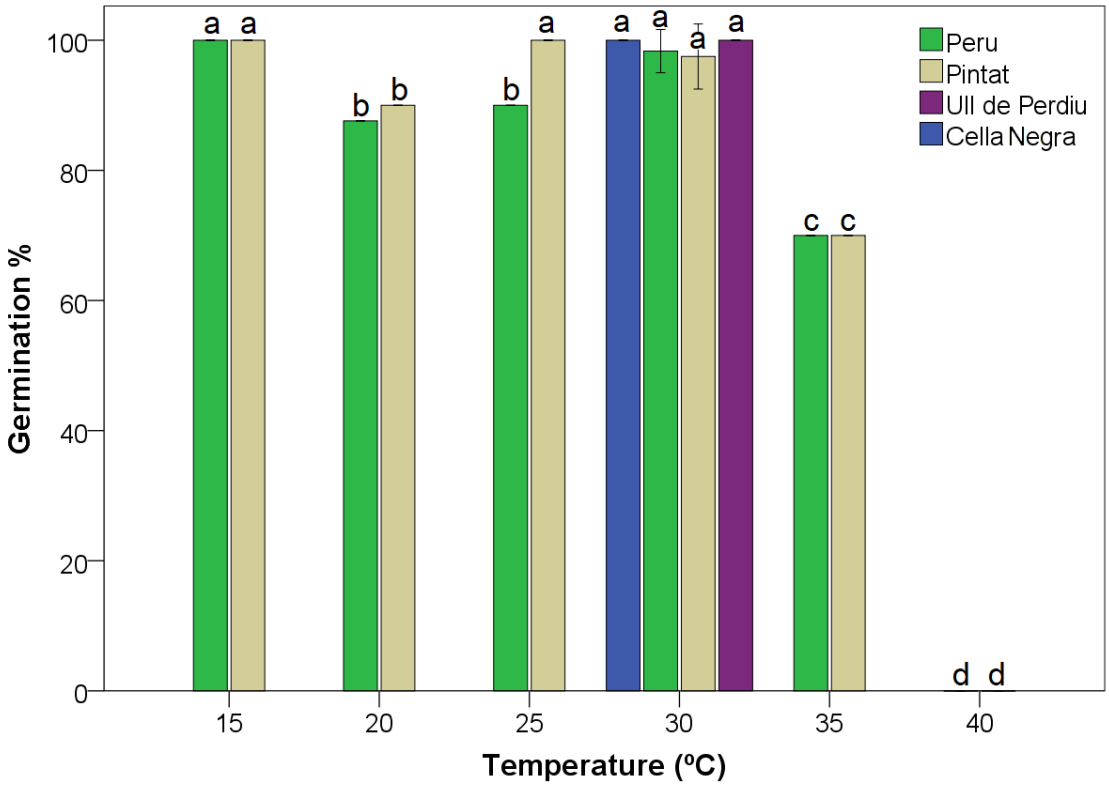

Figure S1. Comparative percentage values obtained for the *Phaseolus lunatus* cultivars 'Ull de Perdiu' and 'Cella Negra' studied only at 30° C (considered the optimal germination temperature) due to the low availability of seeds. The same letters indicate homogeneous groups ($p<0.05$).

Table S1. **G**ermination response, percentage, percent reduction respect to the control (R%) and mean germination time (MGT) at 30° C for the cultivars of *Phaseolus lunatus*, 'Ull de Perdiu' and 'Cella Negra', analyzed only at some of the PEG 6000 concentrations used in this study, due to a limitation in the number of seeds available for them. * Data without standard deviation as they are obtained from a unique replication.

		Osmotic potential (bar)		
		0	**-2**	**-4**
'Ull de Perdiu'	G%	100.0 ± 0.0	72.5 ± 9.6	15.0 ± 5.8
	R%	-	27.5	85.0
	MGT	3.9 ± 0.4	5.4 ± 0.7	7.8 ± 1.6
'Cella Negra'	G%	100.0*	62.5*	-
	R%	-	37.5	-
	MGT	5.8*	4.8*	-

Tree scale: 0.001

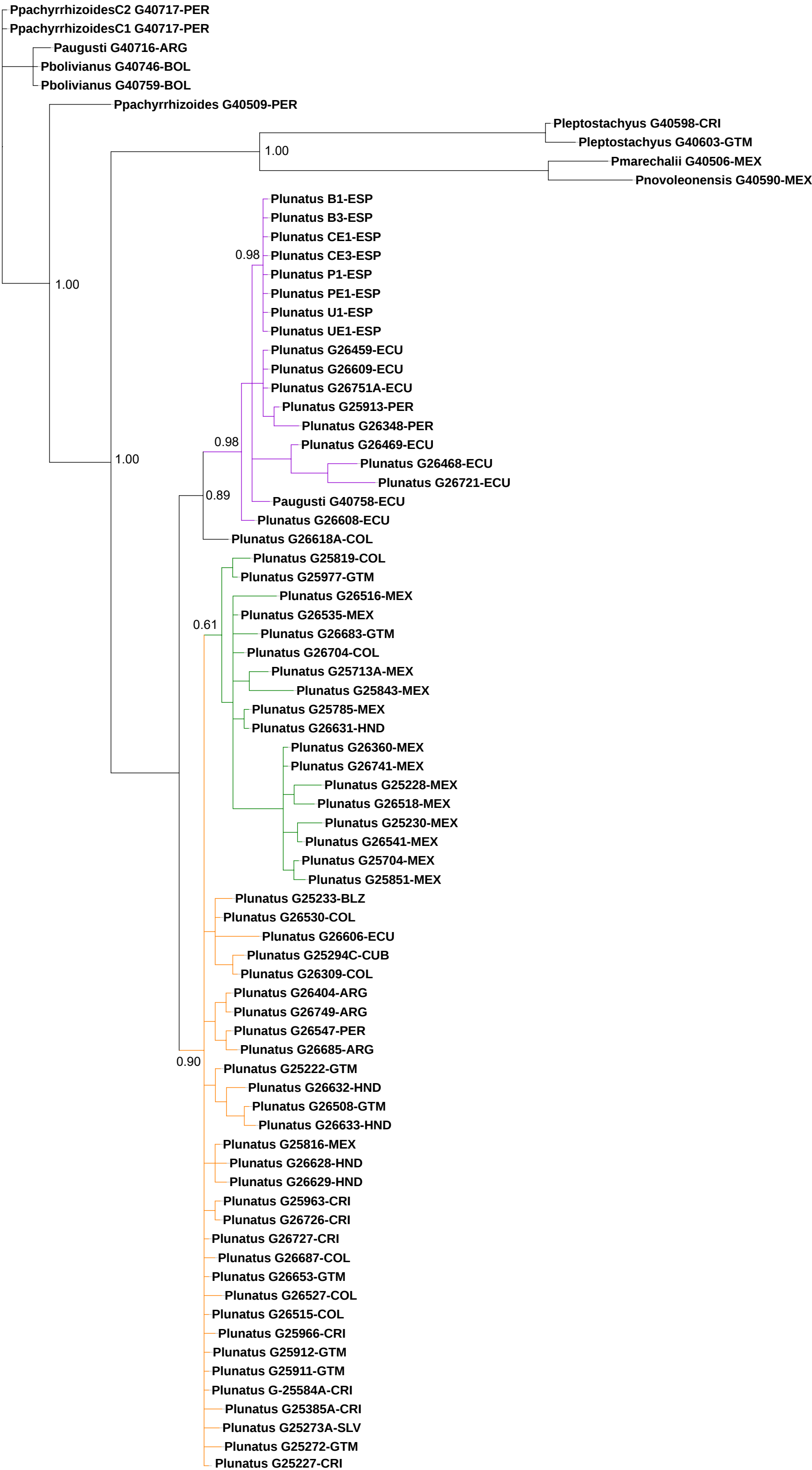

Figure S2. Phylogram depicting the phylogenetic relations among *P. lunatus* varieties from Spain and South America obtained with MrBayes and based on nrITS and cpDNA data. Support values are given for main nodes (BI). Colors correspond to gene pools for the wild *P. lunatus*: purple branches belong to AI (Andean I), the green clade to MI (Mesoamerican I) and the orange group to MII (Mesoamerican II). ARG = Argentina, BLZ = Belize, BOL = Bolivia, COL = Colombia, CRI = Costa Rica, CUB = Cuba, ECU = Ecuador, GTM = Guatemala, HND = Honduras, MEX = Mexico, PER = Peru, SLV = El Salvador, SPN = Spain.