

Table II. Comparison of growth rates and relative resistance levels to four different "Serine-type" PSII herbicides in seven mutants with different amino acid substitutions at the D1 residue Ala₂₅₁. Growth rates = ln2 / doubling time. Increasing resistance levels are indicated by + to +++.

D1 251 R group	HL growth rate	Herbicide resistance based on I ₅₀				
CH ₃ —CH ₂ —CH— CH ₃ Ile	.146	+	+	-	+++	
CH ₃ —>CH— CH ₃ Val	.143	+	+	-	+++	
CH ₃ —>CH—CH ₂ — CH ₃ Leu	.066	+	++	+/-	++++	
CH ₃ — Ala	.212	-	-	-	-	
HS—CH ₂ — Cys	.217	-	-	-	-	
 Pro	.217	-	-	-	-	
HO—CH ₂ — Ser	.217	-	-	-	-	
H— Gly	.211	-	-	-	-	

