## Supplementary dataset S4: Composite model summary (including individual models).

	COMBINED MODEL FOR TWG							
			80 80					
	~-	01						
	Selected models to build the composite model for predicting TWG							
	Glucose release after pre-treatment (g.g-1) (Model type: GAM)		Wood density (g.mm-3) (Model type: Linear Model)		Stem height (mm) (Model type: Linear Model)		Stem diameter (mm) (Model type: Linear Model)	
R2	0.7	79	0.81		0.99		0.85	
Q2	0.49		0.77		0.51		0.69	
Variables / importance*	ARAtms (smooth)	3.632	GLCtms	-0.00000193	ARAtms	-860.25	ARAtms	-4.6
	RHAtms (linear)	-0.753	FibRadDiam	-0.0000287	FUCtms	-8070.78	RHAtms	-3.7
	GALtms (linear)	0.059	Wall thickness	0.000331	XYLtms	-100.78	XYLtms	-0.51
	SG (linear)	0.134	Interecept (if any):	0.00055	4-O-MeGlcAtms	-182.37	MANtms	-0.74
	FibTanDiam (smooth)	2.527			GLCtms	-84.69	4-O-MeGlcAtms	-1.18
	FibArea (linear)	0.006			G	452.38	GLCtms	-0.44
	MOE Gpa (smooth)	1.529			S	359.28	SG	-1.27
	Interecept (if any):	-2.559			н	237.92	CL	31.72
					Р	540.62	L	1.73
					CL	6481.88	Wall thickness	-1.63
					FibFrac	12310.91	Interecept (if any):	-41.11
					FibPop	-4.63		
					FibArea	-35.39		
					Interecept (if any):	0		
Other information	Family: gamma				The intercept was	The intercept was set to 0 by the user		
	Link function: log				because the algorithm tended to overblow			
	gamma = 1				the importance of the intercept by returning			