Table 2S. Definition of terms and formulae of JIP-test parameters and expressions

Parameter	Description
	Data extracted from the recorded fluorescence transient
F_0	Minimal Fluorescence Intensity (All PSII Reaction Centers (RCs) Are Open)
F_m	Maximal Fluorescence Intensity (All PSII RCs Are Closed)
F_{150}	Fluorescence Intensity At 150 μs
F_{300}	Fluorescence Intensity At 300 μs
F_I	Fluorescence Intensity At 2 ms (I Step)
F_J	Fluorescence Intensity At 30 ms (J Step)
F_V	Maximal Variable Fluorescence; $F_V=F_m–F_0$
t_{max}	Time Needed To Reach F_m
V_J	Relative Variable Fluorescence At J Step; $V_J=(F_J–F_0)/(F_m–F_0)$
V_I	Relative Variable Fluorescence At I Step; $V_I=(F_I–F_0)/(F_m–F_0)$
M_0	Initial Slope Of Relative Variable Fluorescence; $M_0=4(F_{300\mu s}–F_0)/(F_m–F_0)$
	Density Of Reaction Centres
RC/CS_0	Density Of Reaction Centres Per Excited Cross Section; $RC/CS_0=F_v/F_m\cdot(V_J/M_0)\cdot F_0$
	Flux Ratio Or Yield
F_v/F_m	Maximum Quantum Yield Of PSII; $F_v/F_m=[1–(F_0/F_m)]=TR_0/ABS$
	Specific Fluxes Per Active Reaction Center
ABS/RC	Absorption Per Active Reaction Centre; $ABS/RC=M_0\cdot(1/V_J)\cdot[1/(F_v/F_m)]$
TR_0/RC	Trapping Per Active Reaction Centre; $TR_0/RC=M_0\cdot(1/V_J)$
ET_0/RC	Electron Transport Per Active Reaction Centre: $ET_0/RC=M_0\cdot(1/V_J)\cdot(1–V_J)$
DI_0/RC	Dissipation Per Active Reaction Centre; $DI_0/RC=(ABS/RC)–(TR_0/RC)$
	Performance Index
PI_{ABS}	Performance Index On Absorption Basis; $PI=(RC/ABS)\cdot(TR_0/DI_0)\cdot[ET_0/(TR_0-ET_0)]$
RC/ABS	Density Of Reaction Centres On Chlorophyll *a* Basis;$RC/ABS=(RC/TR_0)\cdot(TR_0/ABS)=[(F_J–F_0)/4(F_{300\,\mu\,s}–F_0)]\cdot(F_v/F_m)$
TR_0/DI_0	Flux Ratio Trapping Per Dissipation; $TR_0/DI_0=F_v/F_0$
$ET_0/(TR_0-ET_0)$	Electron Transport Beyond QA^-; $ET_0/(TR_0–ET_0)=(F_m–F_J)/(F_J–F_0)$

Source: Strasser *et al*. 2004