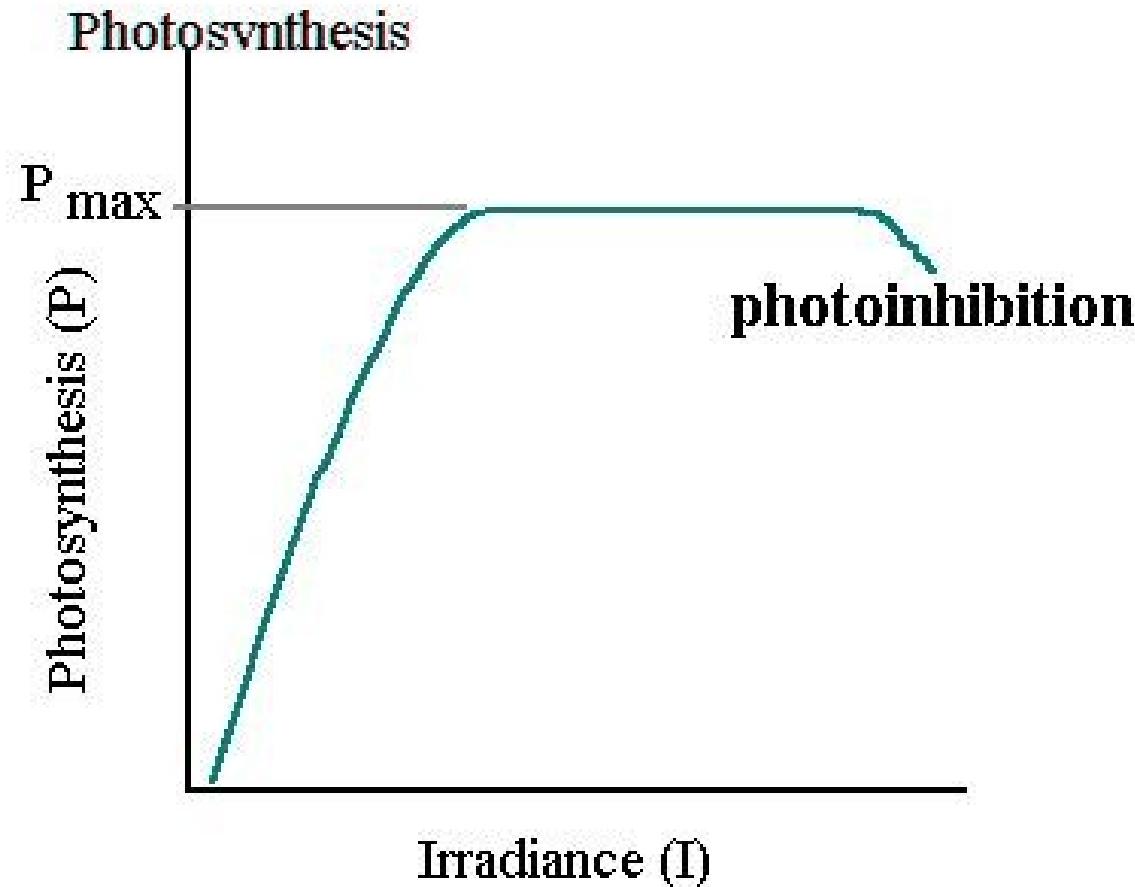


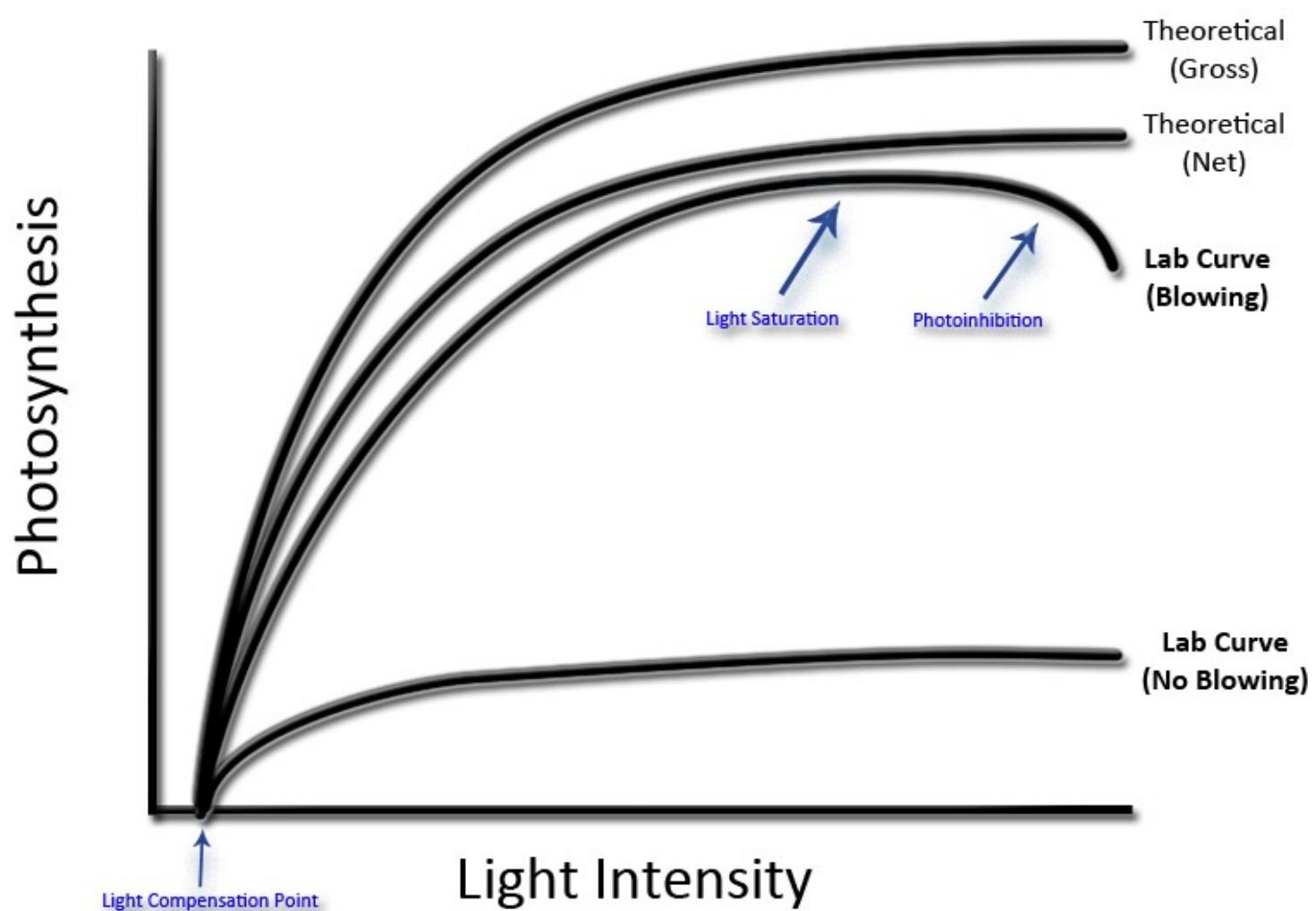
Produkční biologie rostlin
Metody fluorescence chlorofylu
Podzim 2012

Fotoinhibice fotosyntézy

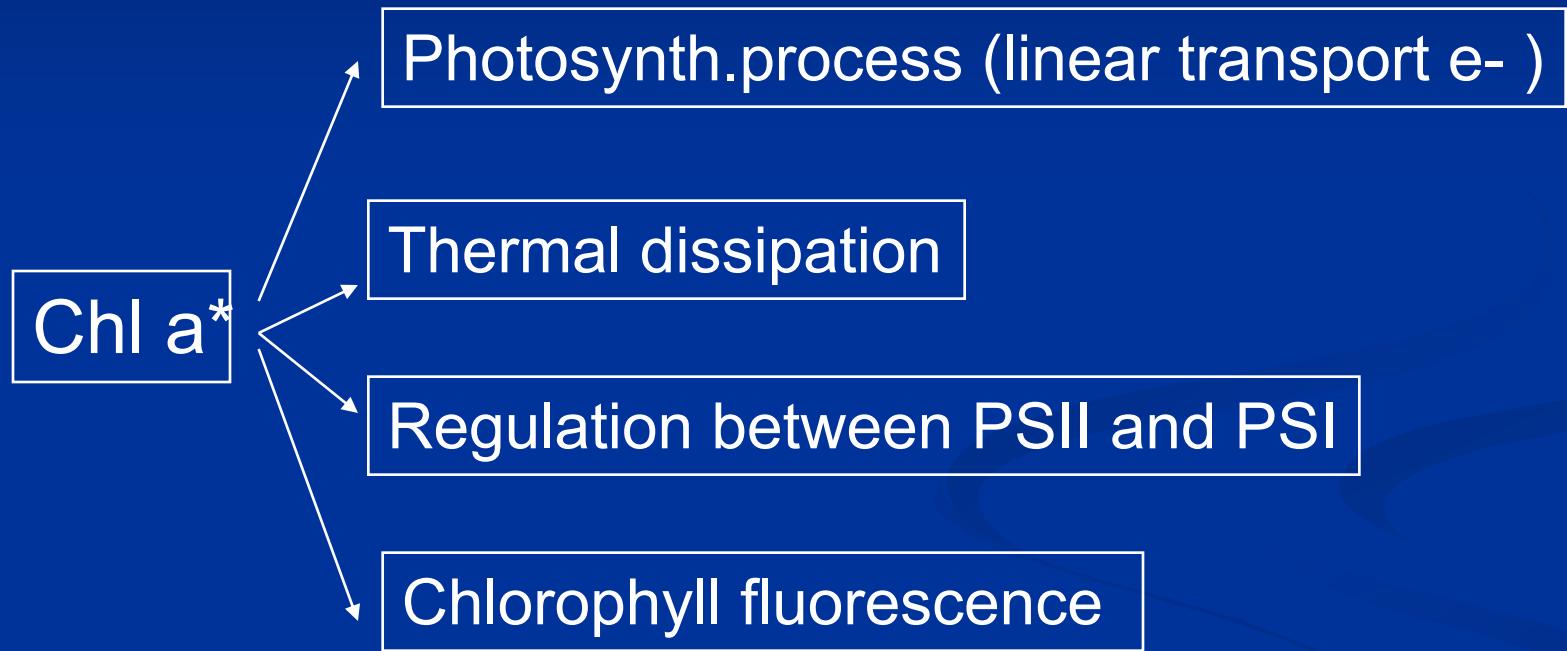
fluorometrické metody
stanovení

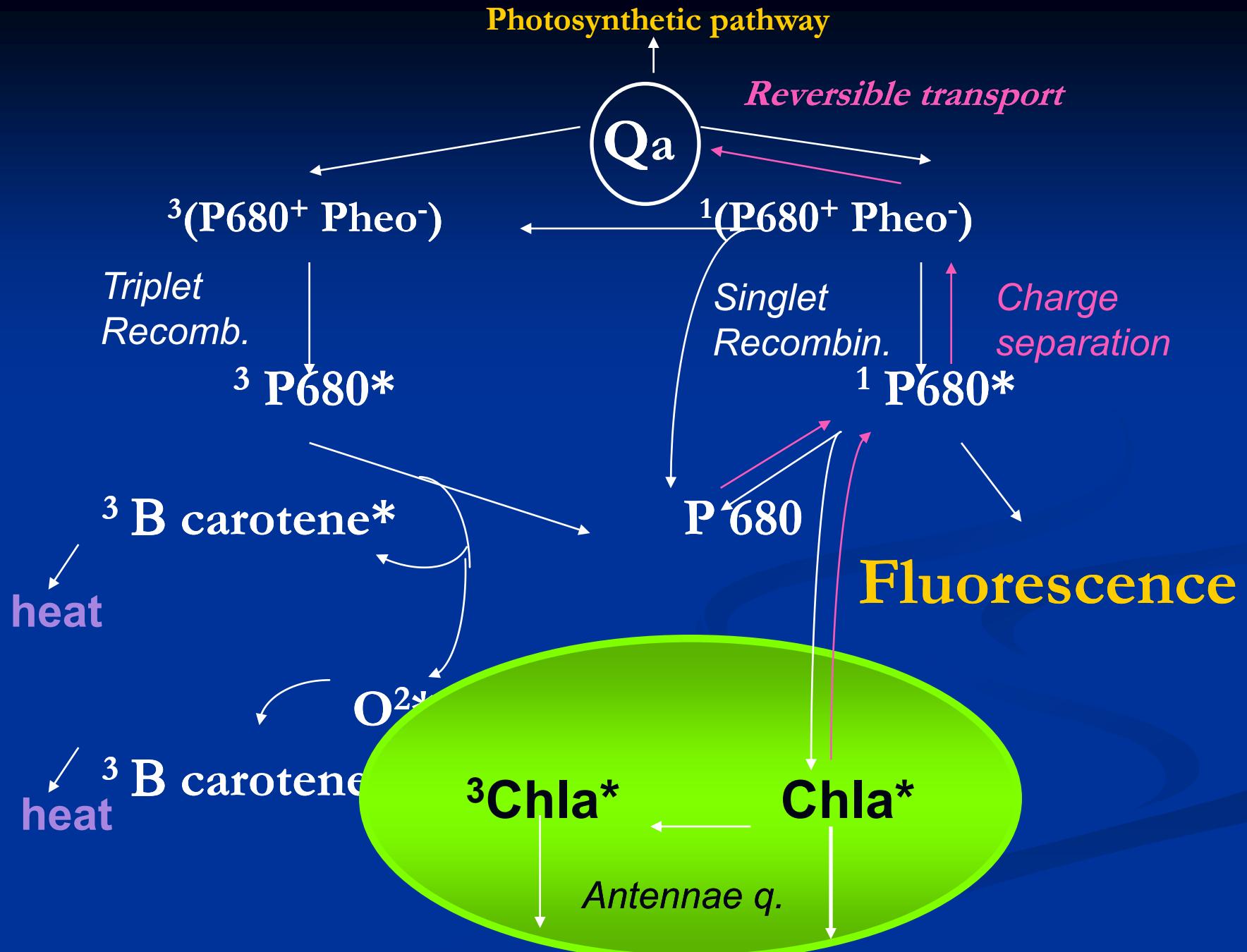
M. Barták



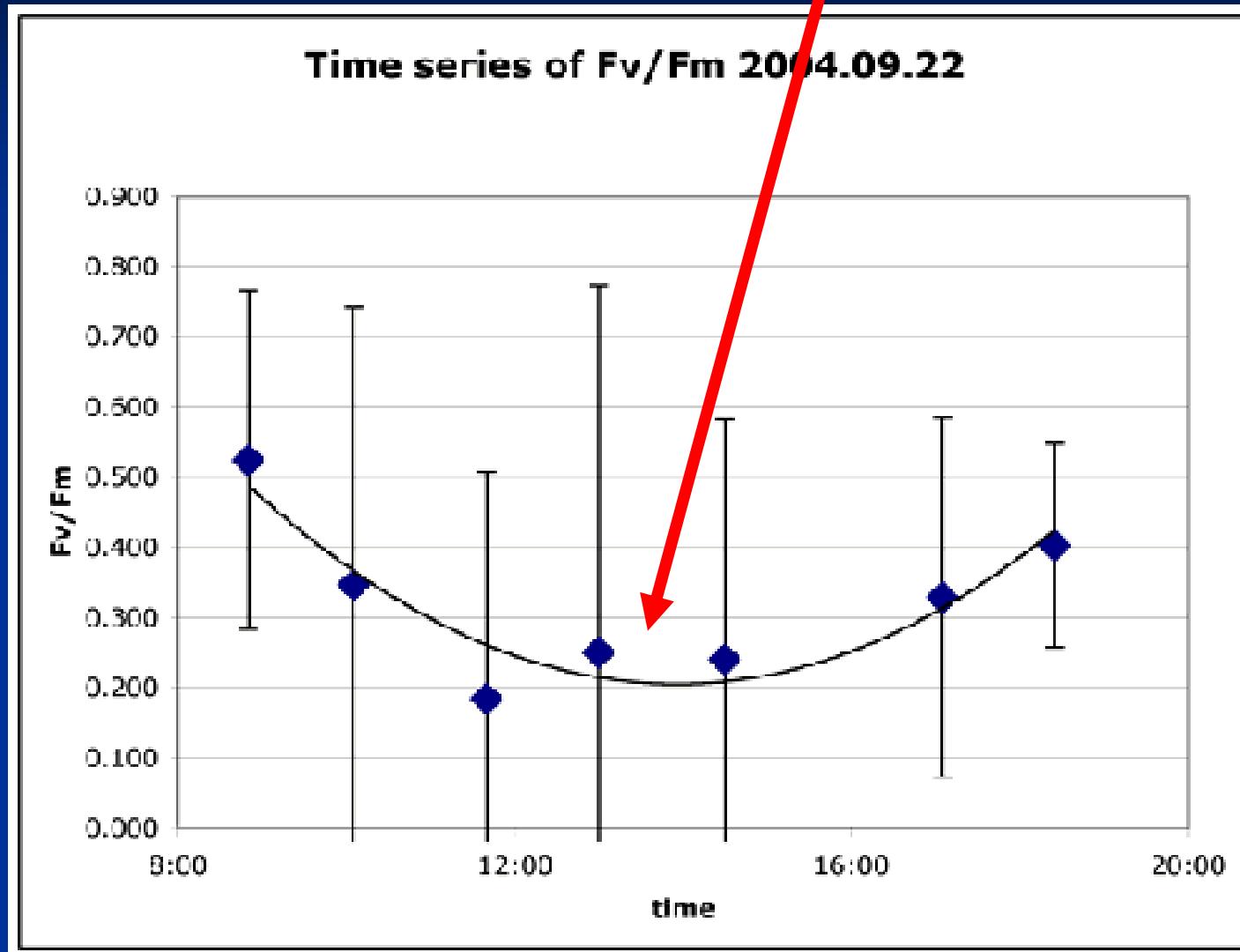


Basic de-excitation mechanisms of Chl a





Fv/Fm : potential yield of photochemical processes in photosystem II
daily course of Fv/Fm indicates light-dependent adjustment
of photosynthetic processes (**lower effectivity**)



Slow Chl fluorescence kinetics with quenching analysis

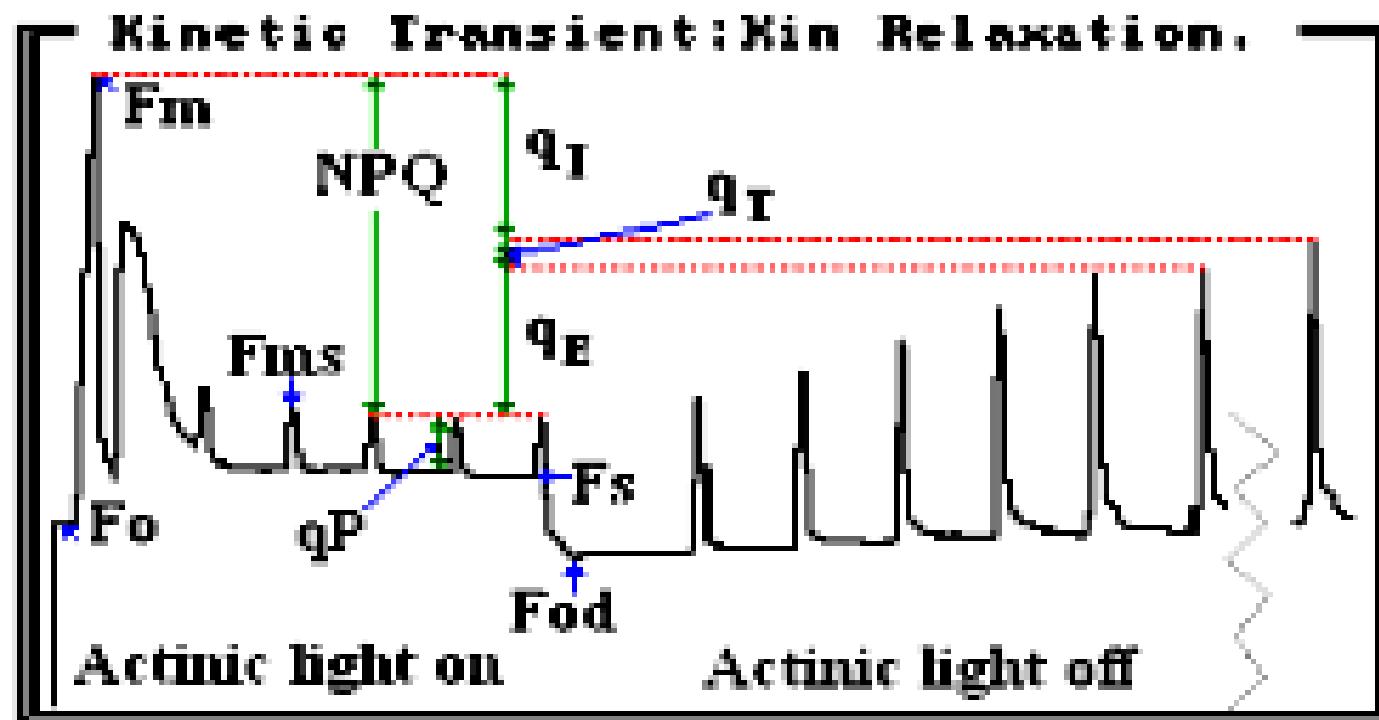
$$qP = (Fm' - F) / (Fm' - Fo')$$

$$Fm' = Fms$$

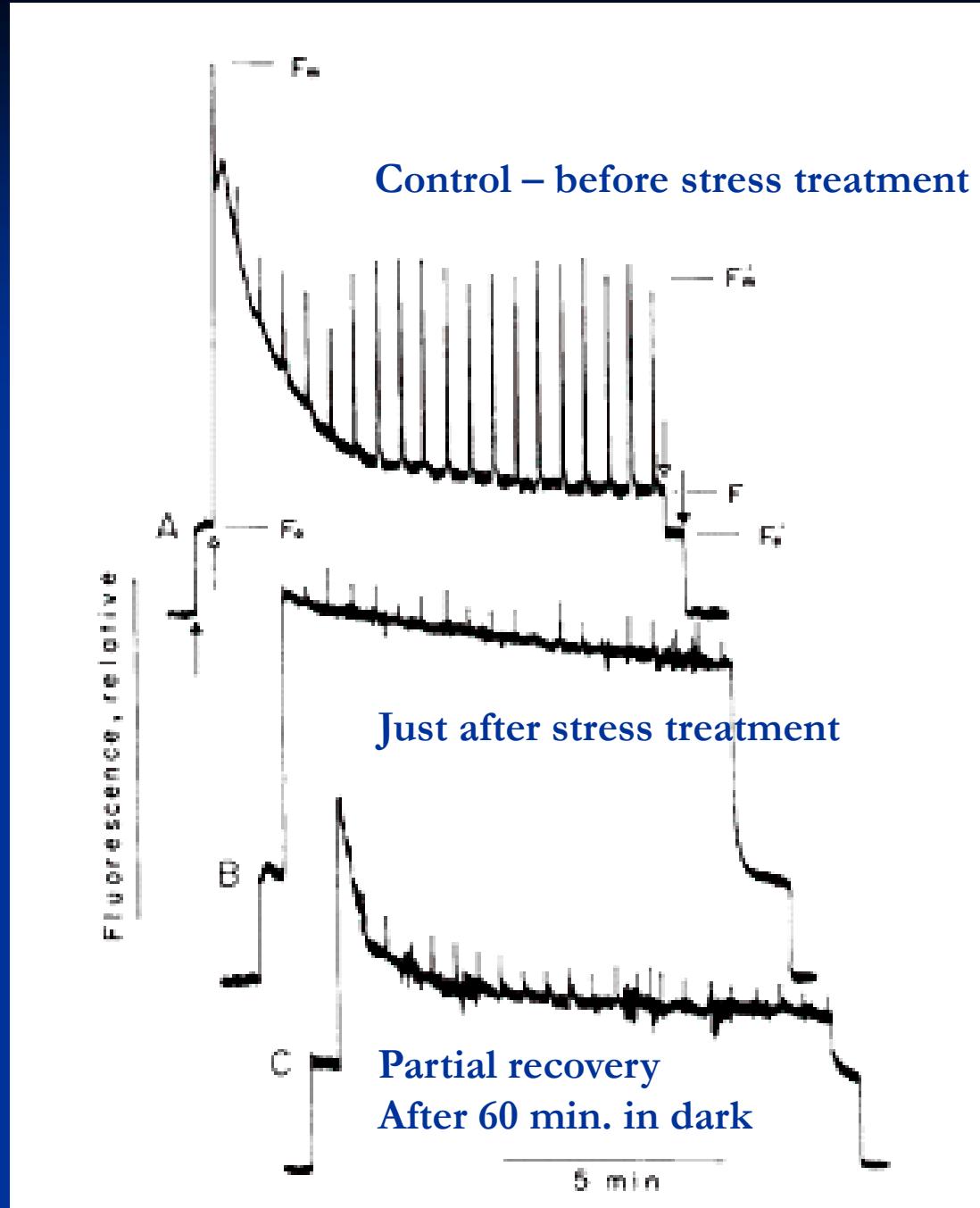
$$NPQ = (Fm - Fm') / (Fm')$$

$$qN = qE + qT + qI$$

qE (energy-dependent quenching)



Lake Model for PSII Antennae



http://www.biol.s.u-tokyo.ac.jp/users/seitaapl/personal/terashima/terashima_e.html