Electronic Supplementary Material (ESI) for Photochemical & Photobiological Sciences. This journal is © The Royal Society of Chemistry and Owner Societies 2014 [S1] SMF perturbation and blocked electron flow



Fig.S1. Blocking the coupling between linear and cyclic electron flow with DCMU representing no energy transition from PSII to PSI and hence no photon capture phenomenon evidenced (green). SMF at this condition proved to be insensitive to the thylakoid membranes (red).



Fig.S2.Bar graph representing the SMF induced spin dependent correlated charge in the control and bioenergetically perturbed membrane components (PSI and PSII) emission profiles at cryogenic temperature. Red bars represent $\Delta logPSI$ and green bars represents $\Delta logPSII$. The error bars representing the standard error for each replicated data.



Fig.S3. Fitting parameters for dark control (model 1), relaxation (model 2) and SMF exposure (model 3) are described in the following paragraph













