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In vitro investigation of the photoprotection mechanism of Light Harvesting Complex II

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Light Harvesting Complex II*

Emanuela Crisafi

*In vitro investigation of the photoprotection
mechanism of Light Harvesting Complex II*

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LIST OF ABBREVIATIONS

ATP	Adenosine Triphosphate
β -DM	n-dodecyl- β -D-maltoside
CD	Circular dichroism
CP	Crosspolarization
Chl	Chlorophyll
<i>E. coli</i>	<i>Escherichia coli</i>
Fd	Ferredoxin
HEPES	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid
HPLC	High performance liquid chromatography
HETCOR	Heteronuclear correlation spectroscopy
IPTG	Isopropyl- β -D-thiogalactoside
LDS	Lithium dodecyl sulfate
LHCII	Light harvesting complex II
Lhcb	Light harvesting complex b
Lut	Lutein
MAS	Magic angle spinning
NADPH	Nicotinamide adenine dinucleotide phosphate
Neo	Neoxanthin
NMR	Nuclear magnetic resonance
OD	Optical density
OEG	Oxygen evolving complex
OG	Octyl- β -Glucoside Detergent
PARIS	Phase Alternated Recoupling Irradiation Schemes
PC	Plastocyanin
PLR	Protein to lipid ratio
PQ	Plastoquinone
PsbS	Photosystems subunit S
PSI	Photosystem I
PSII	Photosystem II
TAP	Tris-acetate-phosphate
Tris	Tris(hydroxymethyl)aminomethane
TRF	Time resolved fluorescence
SDS	Sodium dodecyl sulfate,
UV-Vis	Ultra violet, visible spectroscopy
Vio	Violaxanthin
Zea	Zeaxanthin