



- **LIGHT-DRIVEN ELECTRON FLOW** (electric current) from H_2O to $NADP^+$ and thence to Glucose (and starch)
- Reduced NADP inhibits Ferredoxin- NADPH reductase (1.18.1.2) and thus initiates CYCLIC PHOTOPHOSPHORYLATION - a light-driven electron flow that drives PROTON TRANSLOCATION from stroma to lumen. These protons, together with those from water produce a pH gradient that drives ATP synthase to form ATP
- PQ Plastoquinone QH₂ Plastoquinol PC Plastocyanin
High-energy electrons e^-

		ENZYMES			
1.2.1.13	Glyceraldehyde-3-P dehydrogenase	2.7.1.19	Phosphoribulokinase	4.1.1.39	Ribulose-bis-P carboxylase
1.18.1.2	Ferredoxin-NADPH $^{+}$ reductase	2.7.2.3	Phosphoglycerate kinase	4.1.2. -	Aldolase
2.2.1.1	Glycolaldehyde transferase (Transketolase)	3.1.3.9	Glucose-6-phosphatase	4.1.2.13	Fructose-bis-P aldolase
2.2.1.2	Dihydroxyacetone transferase (Transaldolase)	3.1.3.37	Fructose-bis-P phosphatase	5.1.3.1	Ribulose-P epimerase
		3.6.1.34	Sedoheptulose-bis-P phosphatase	5.3.1.1	Triosephosphate isomerase
			ATP synthase	5.3.1.6	Ribose-5-P isomerase
				5.3.1.9	Hexose-P isomerase