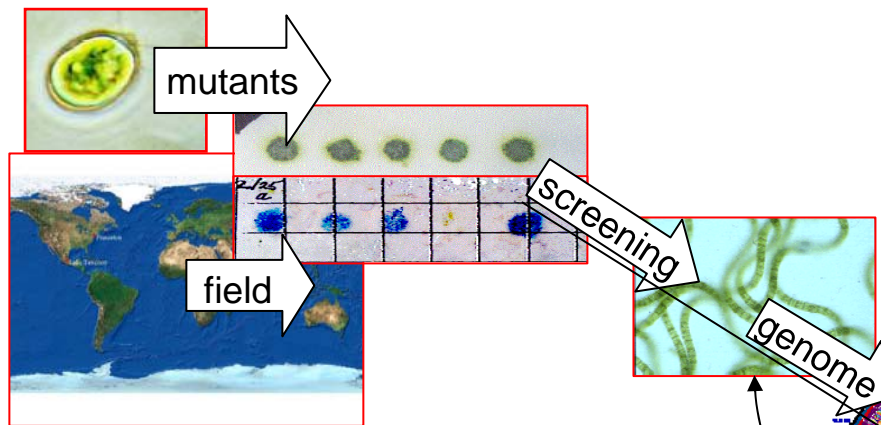




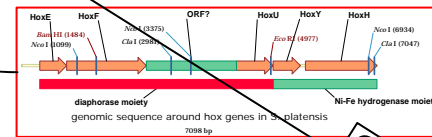
Renewable Bio-solar Hydrogen Production from Robust Oxygenic Phototrophs



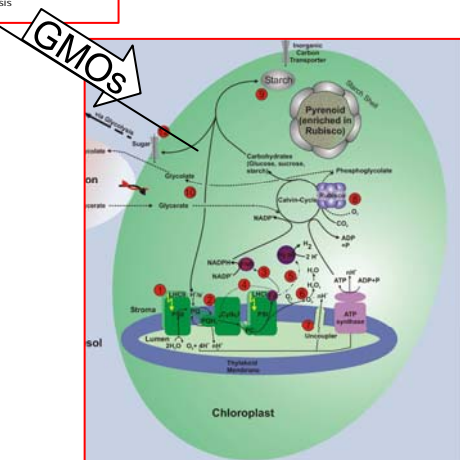
- ### Achievements June 2005
- Identified novel H₂ photoproducers
 - Developed high throughput screen for H₂
 - Built ultra-sensitive H₂ detection instruments
 - Engineered mutants in a green alga

Payoff

Clean H₂ from non-fossil source



- ### Objectives
- Screening for the right organisms, photosystems & hydrogenases
 - Down-regulation of competing biochemical pathways
 - Random & specific mutagenesis for higher H₂ production
 - Genetically combining host phototrophs with optimal hydrogenases



GMOS