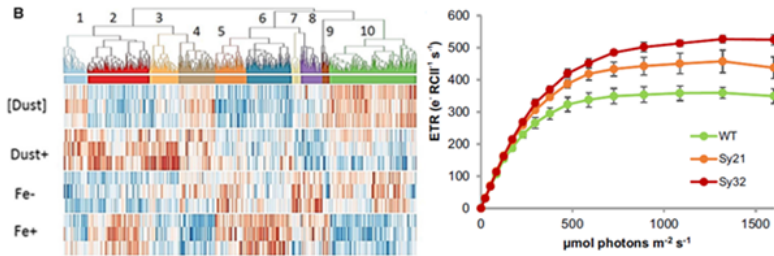
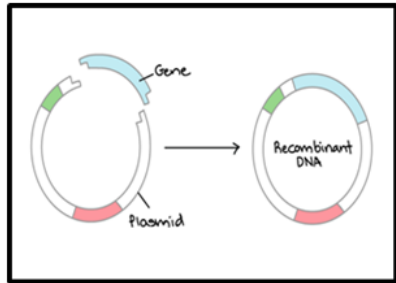


## Recently ending BBSRC grant:

### Tapping the unused potential of photosynthesis



- (1) Using light to make novel/useful products in cyanobacteria (and plants)
  - (2) Heterologous expression of novel electron sinks (P450)
- Improve the efficiency of photosynthesis
  - Clean sustainable production of products using light

Santos-Merino et al *Improved photosynthetic capacity and photosystem I oxidation via heterologous metabolism engineering in cyanobacteria* **PNAS** 2021

Who: **Tom Bibby**

(Ocean and Earth Science), *Biochemist, main interest in **photosynthesis***  
([tsb@soton.ac.uk](mailto:tsb@soton.ac.uk))

### Research Theme (2) Blue Biotechnology (photosynthetic microbes)

Why? **Marine Microbiological Communities (Phytoplankton)** are diverse and offer novel opportunities in biotechnology (food, fuel, bioremediation, antibiotics, medicines, sustainable, agriculture, fertiliser, human health)

How/Key-Words: **Microbiology, Molecular biology, Omics, Synthetic biology, Industrial biotechnology (engineering), Structural biology**

*Better links/understanding/collaboration with groups using microbes in industrial biotechnology, engineering, human health, agriculture, sensors, soil science, metabolomics, bioremediation.....*