微細藻類による有用物質の実用的生産を実現する基幹因子の同定と利用

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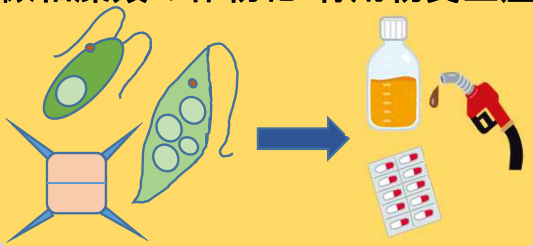
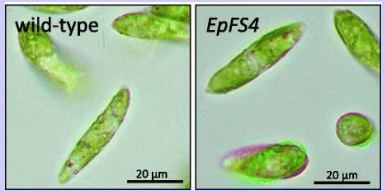
Research Area

微細藻類の作物化 有用物質生産

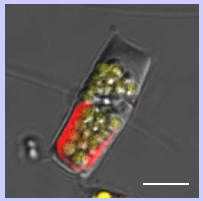


1. 頑健性・光合成能・栄養取込能増強

野生型　光合成能強化

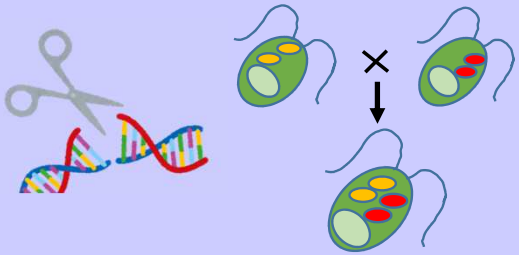


2. 有用物質の生産性向上



有用脂質生産株

3. ゲノム編集・交配技術の確立



4. 知見統合によるスーパー藻類の作出

Recent Activities

- Production of ricinoleic acid–containing monoestolide triacylglycerides in an oleaginous diatom, *Chaetoceros gracilis.* Sci. Rep. 6:36809, 2016
- Enhancement of photosynthetic capacity in *Euglena gracilis* by expression of cyanobacterial fructose–1,6–/sedoheptulose–1,7–bisphosphatase leads to increases in biomass and wax ester production. Biotechnol. Biofuels 8:80, 2015