

Bacillus

Rod

Cytoplasmic bridge F pilus ("sex pilus") Uses

Transfer of plasmid (circular piece of DNA)

takeup of naked foreign DNA

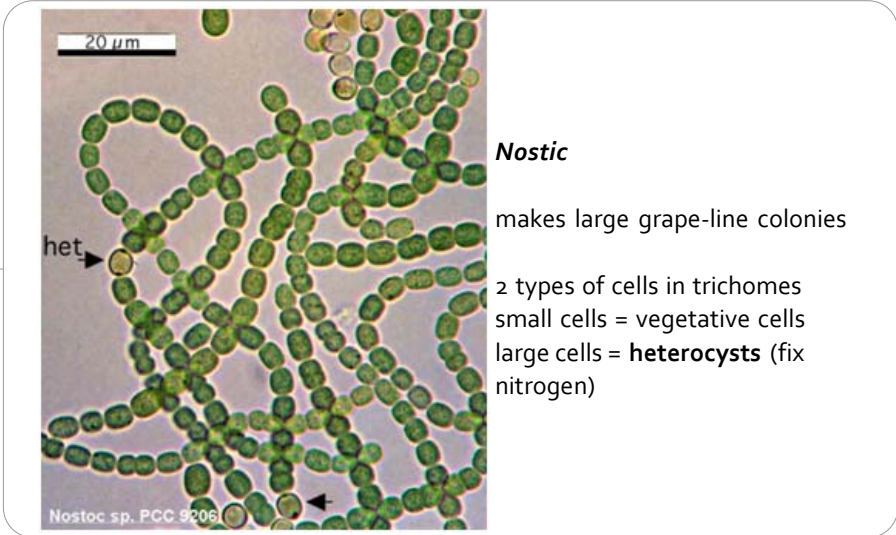
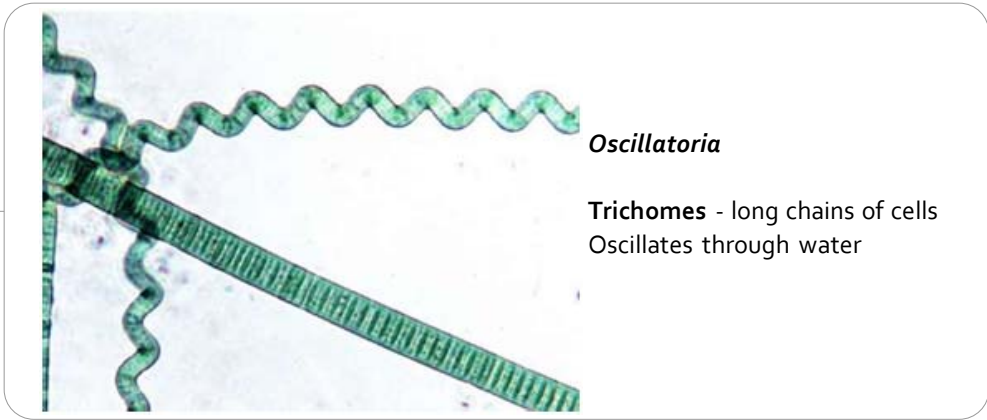
genes inserted via phage

Conjugation

Transformation

Transduction

Genetic Material Transfer



Examples from lab