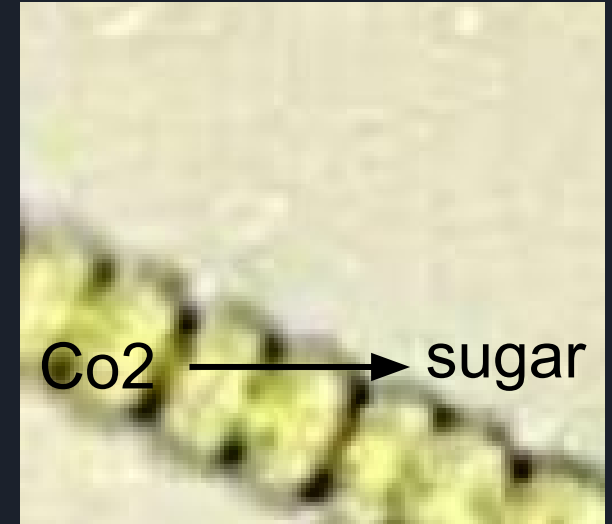


Hormogonia Mutation of Touch Sensitive With the Removal of Pili in Cyanobacteria

Samuel Young

Differentiation of Cyanobacteria

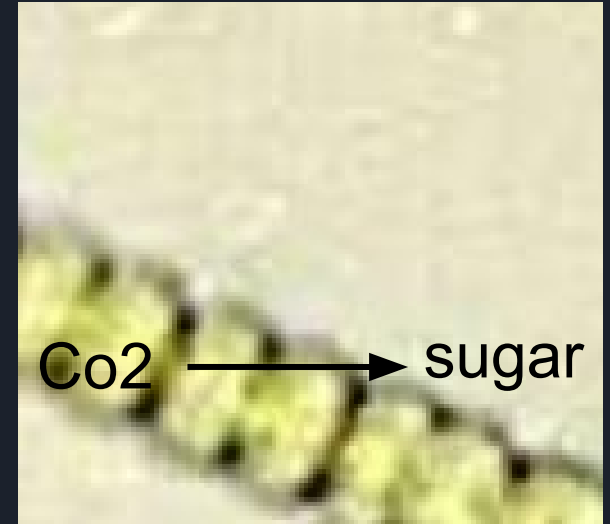


Vegetative cell

Differentiation of Cyanobacteria



Hormogonia + vegetative cells

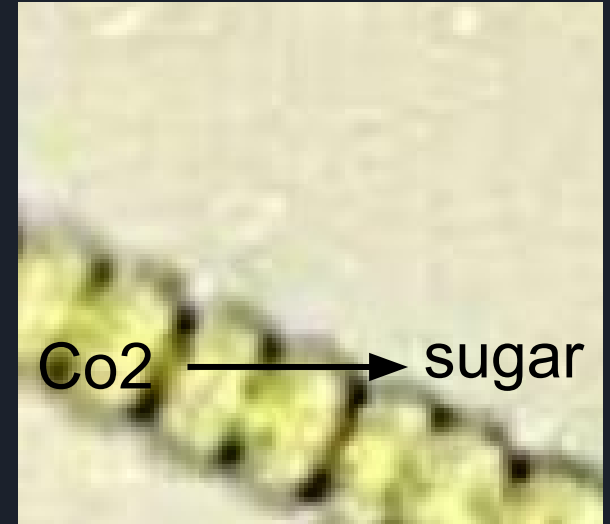


Vegetative cell

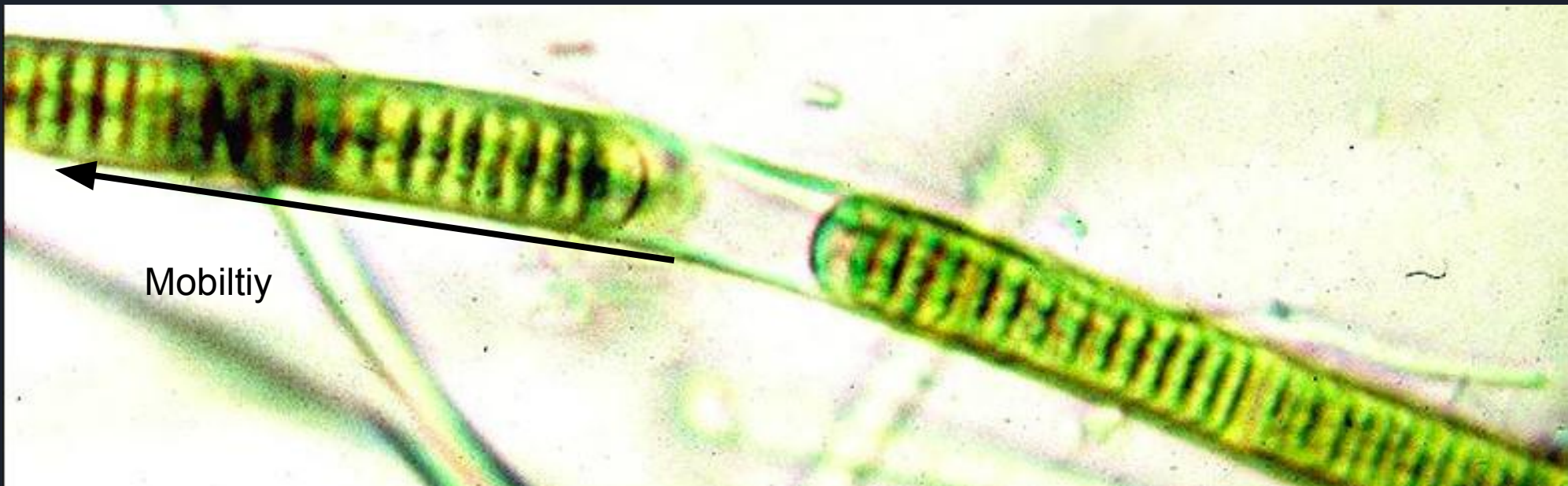
Differentiation of Cyanobacteria



Hormogonia + vegetative cells

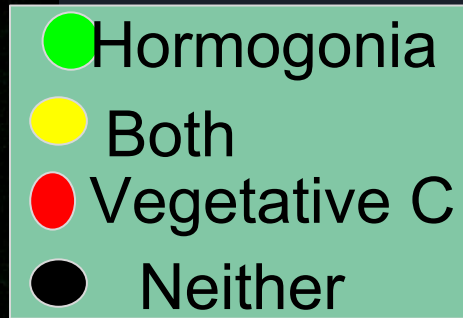
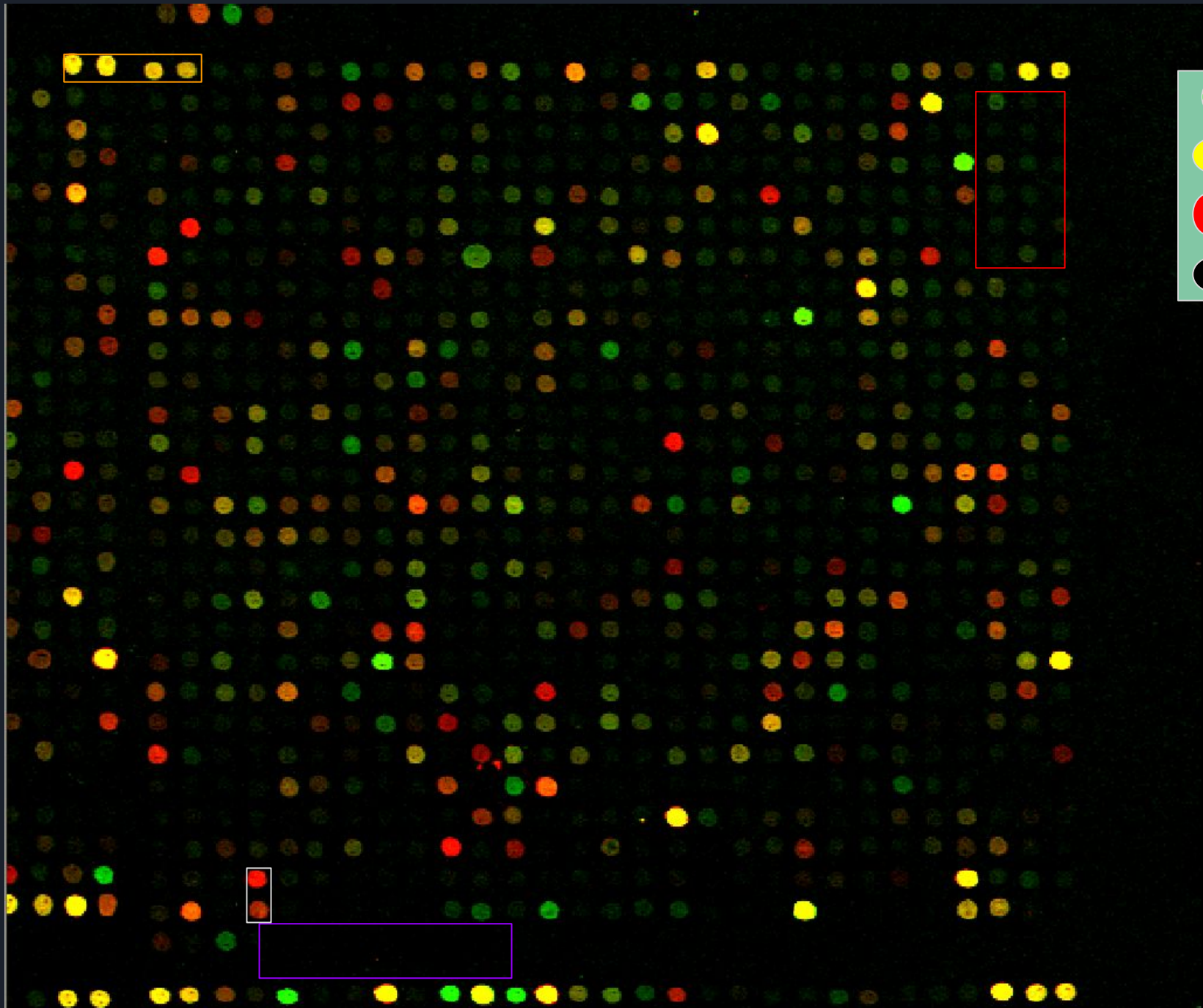


Vegetative cell

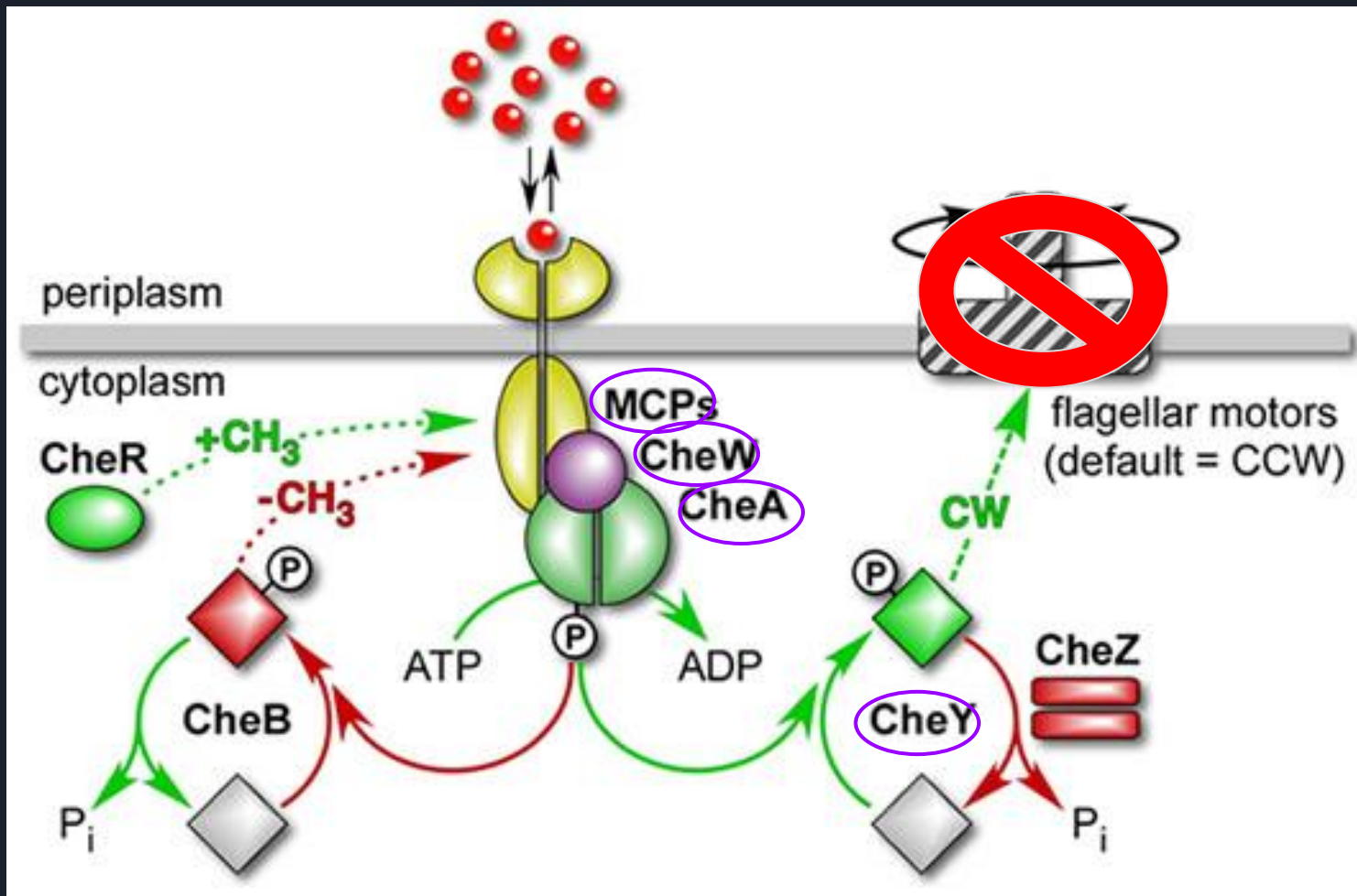


Hormogonia

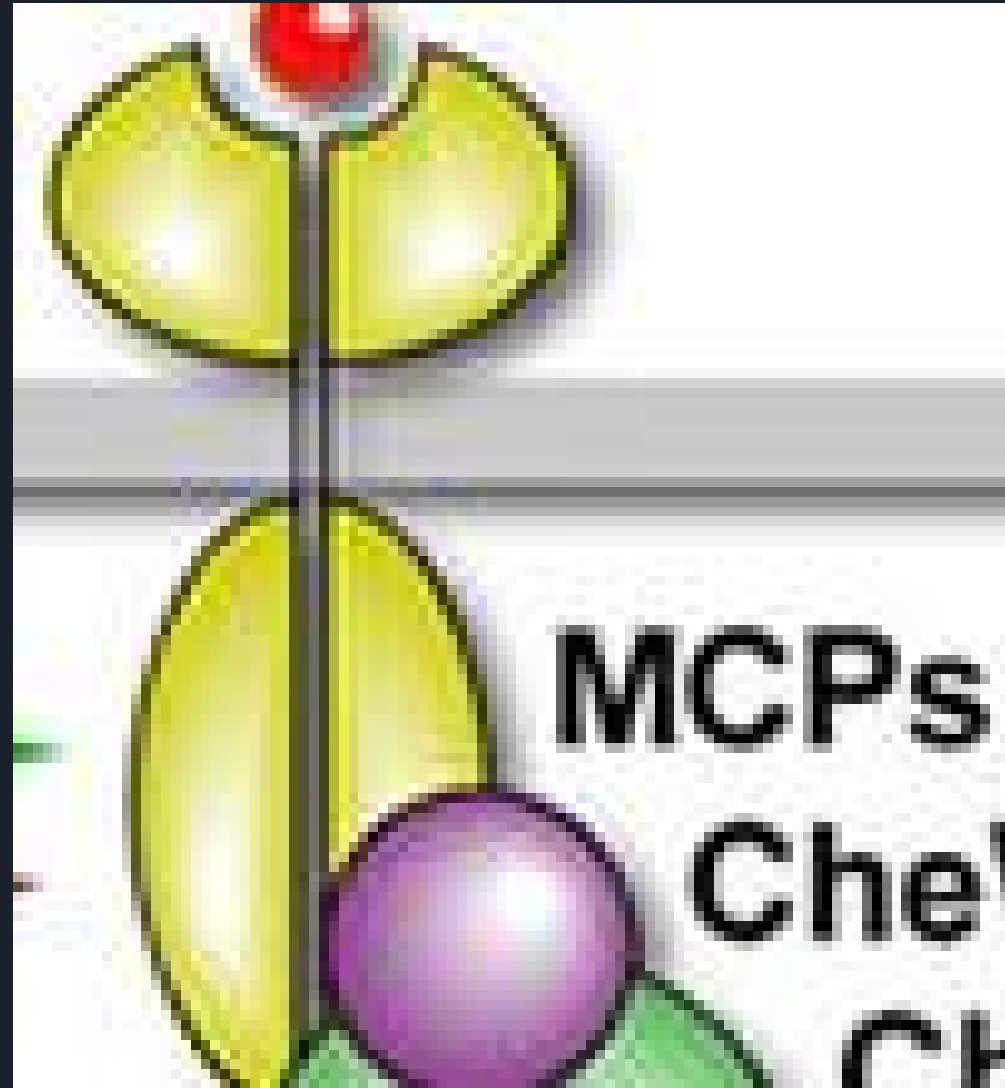
genes of hormogonia



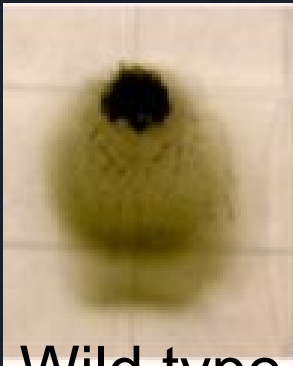
Machinery of sense in bacteria



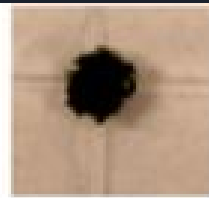
Methyl-accepting chemotaxis protein (MCPs) machinery



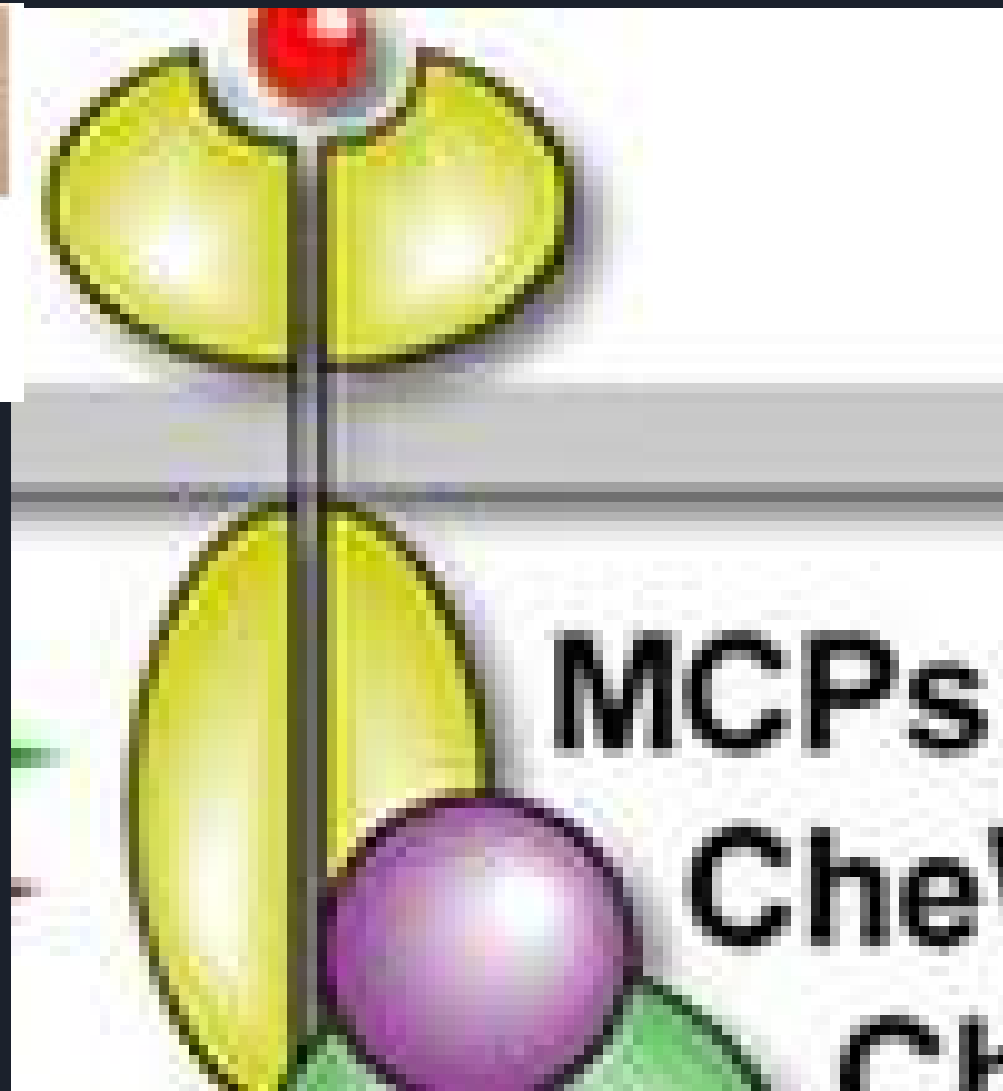
mutated versus wild-type MCPs



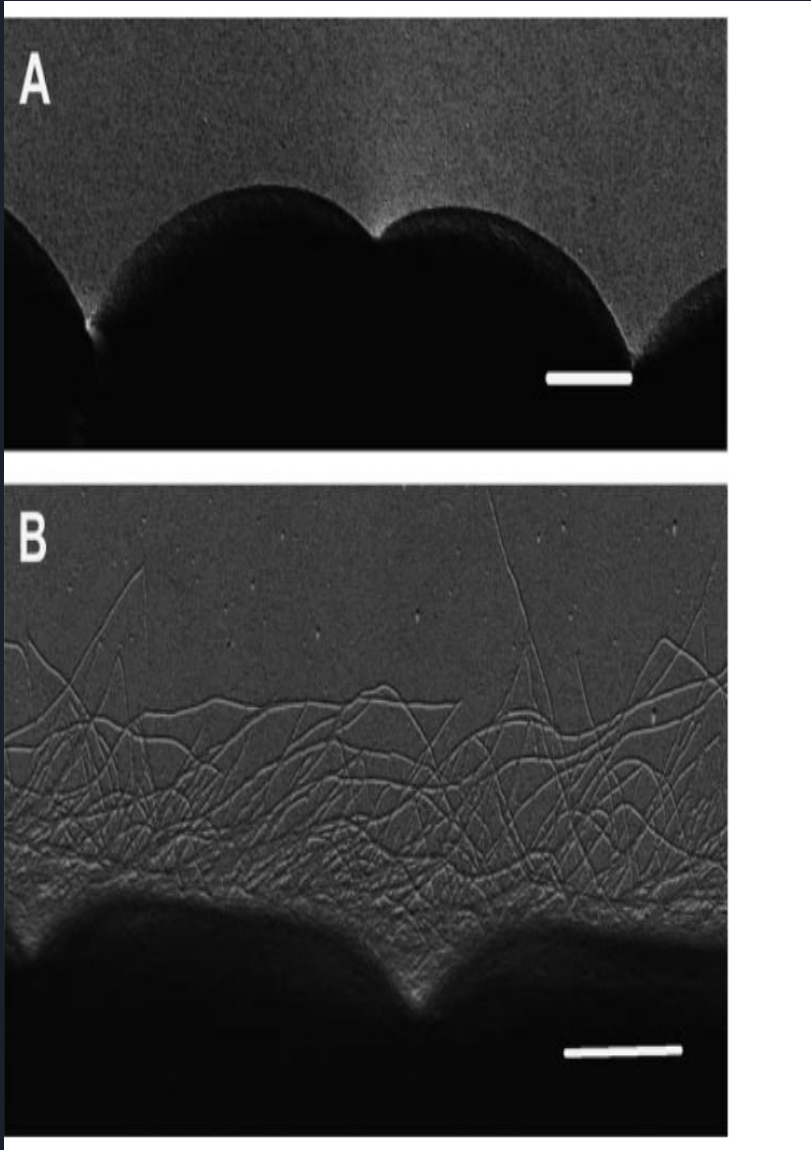
Wild type



MCPs mutate



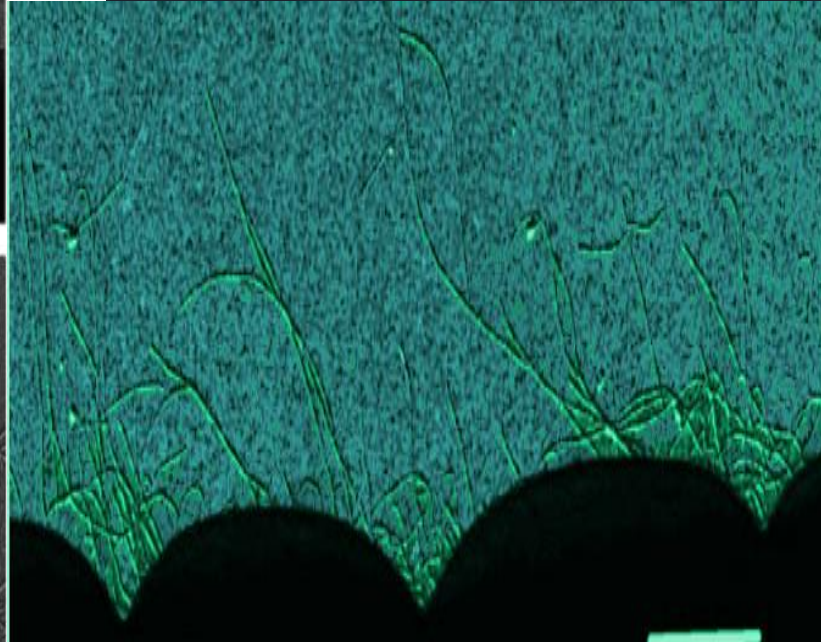
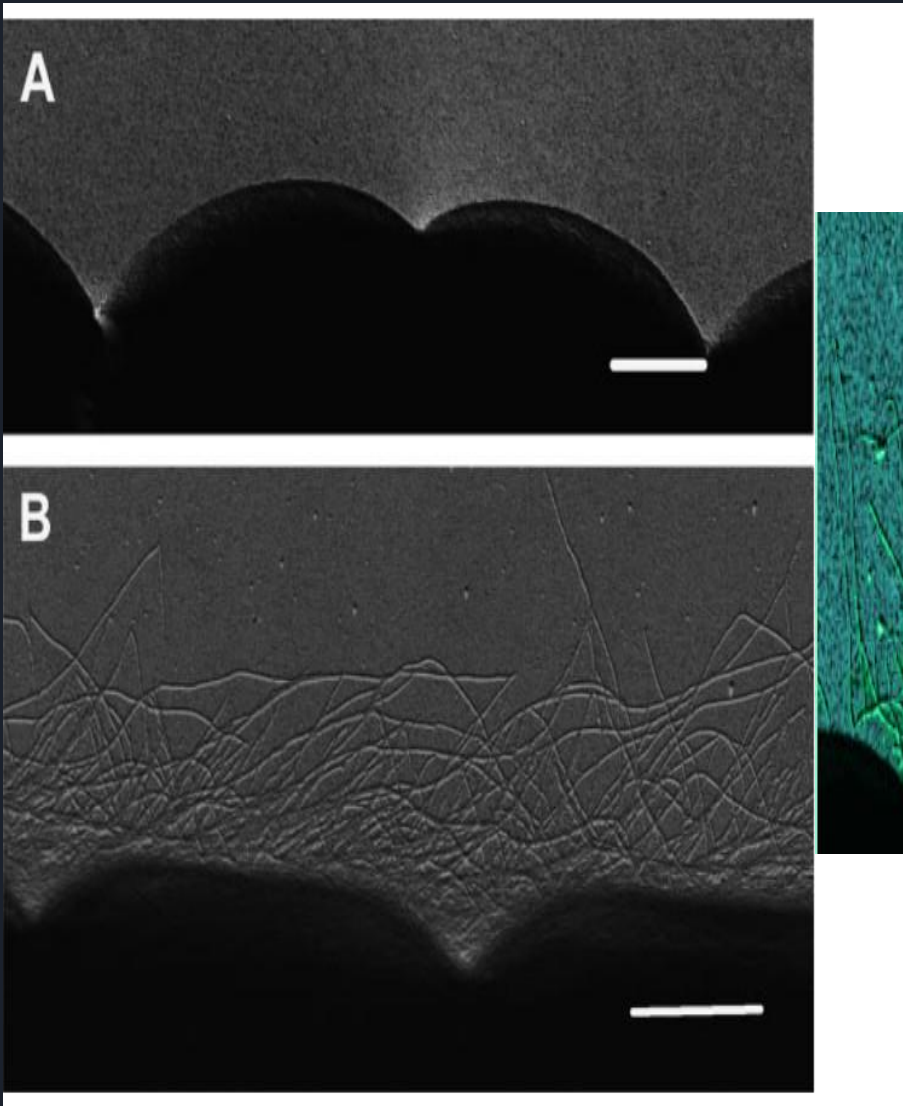
Wild-types



vegetative cells WT

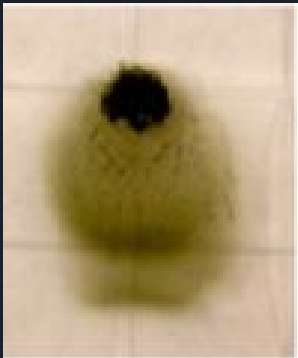
Hormogonia WT

Mutated versus wild-type construct pili

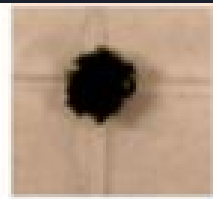


PiIT

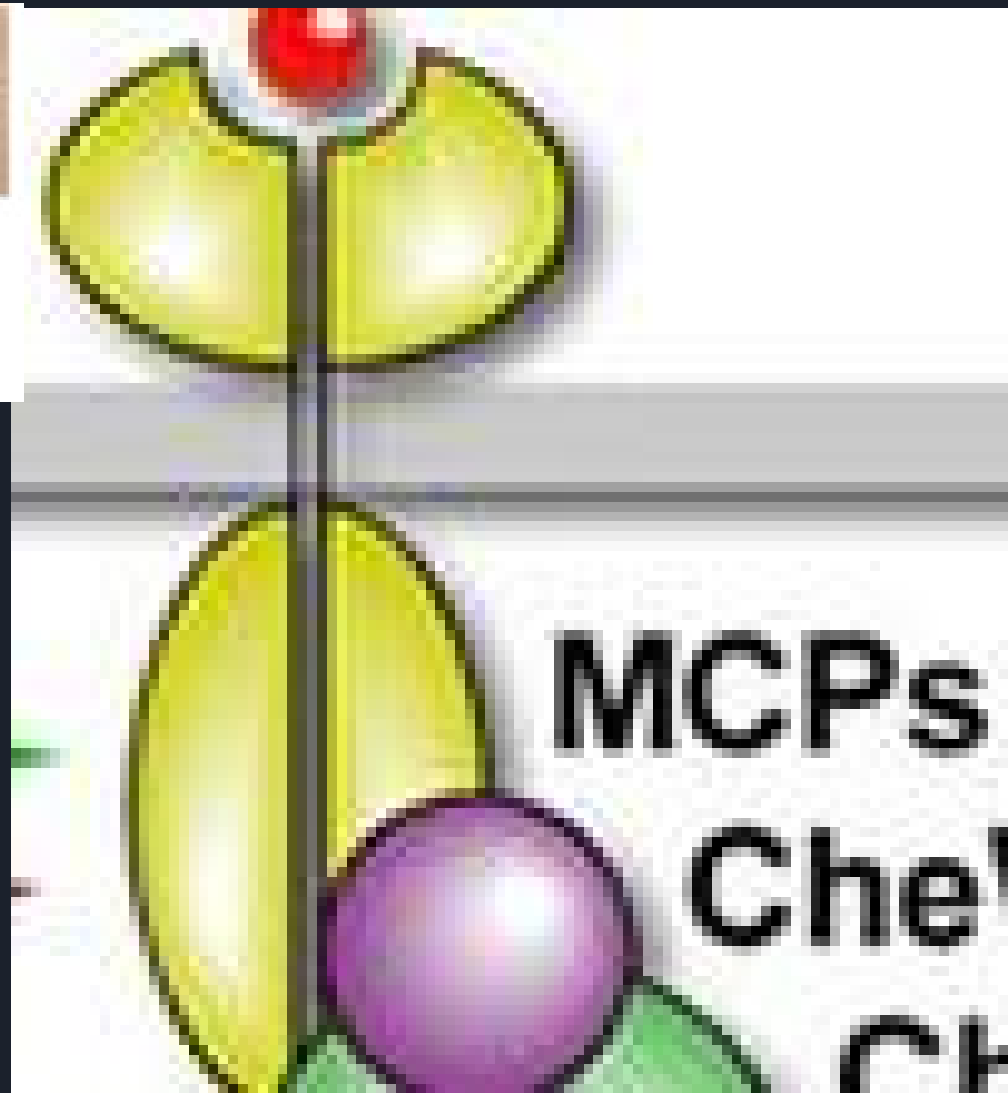
S-shaped mutate



Wild type



MCPs mutate



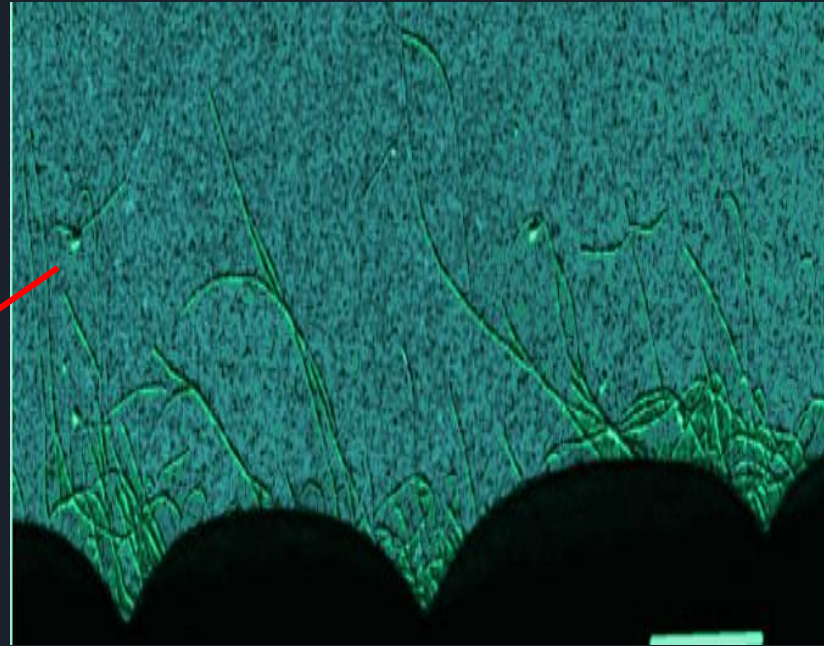
MCPs

Che

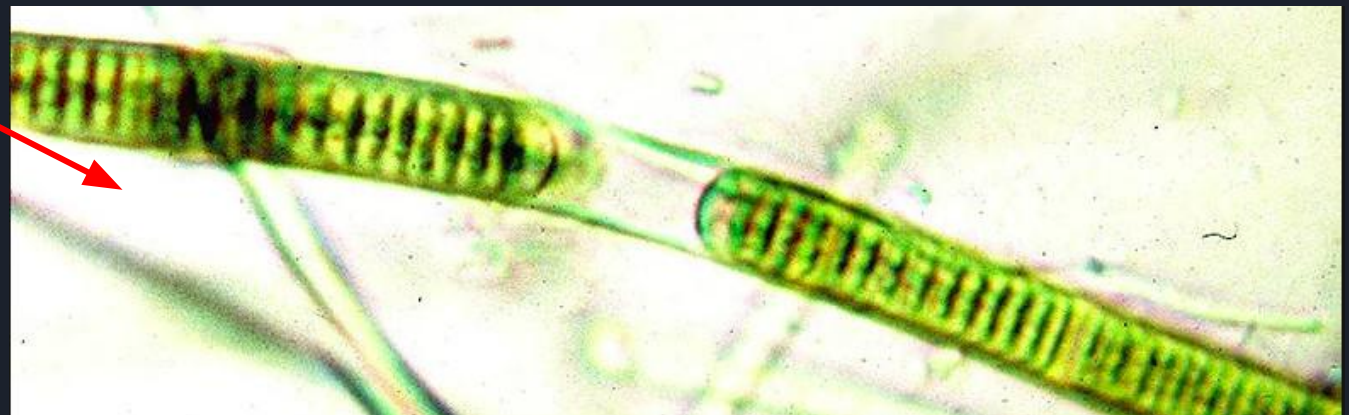
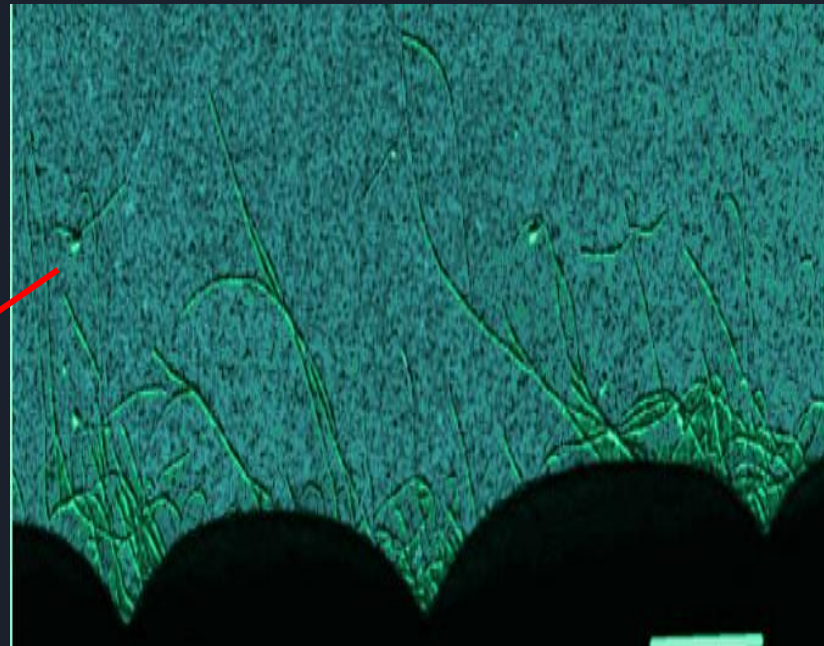
Ch

Are pili important to S-shape?

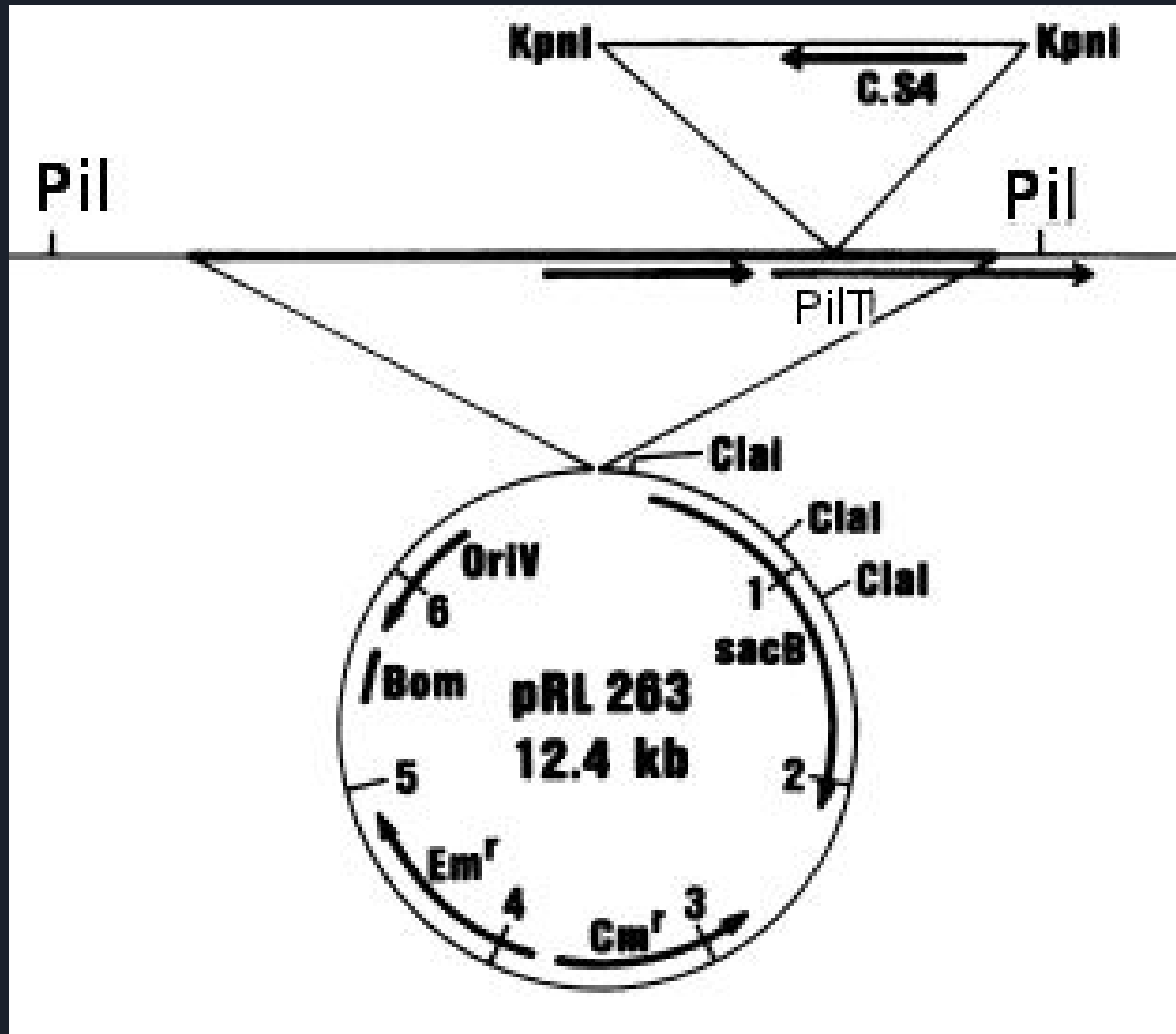
Overview of Experiment



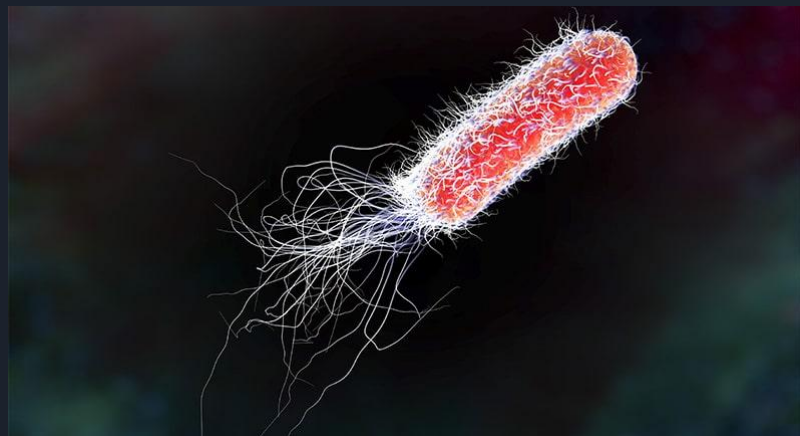
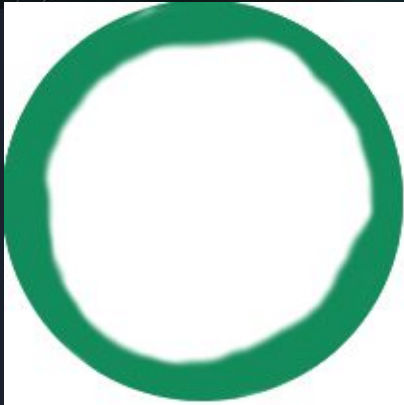
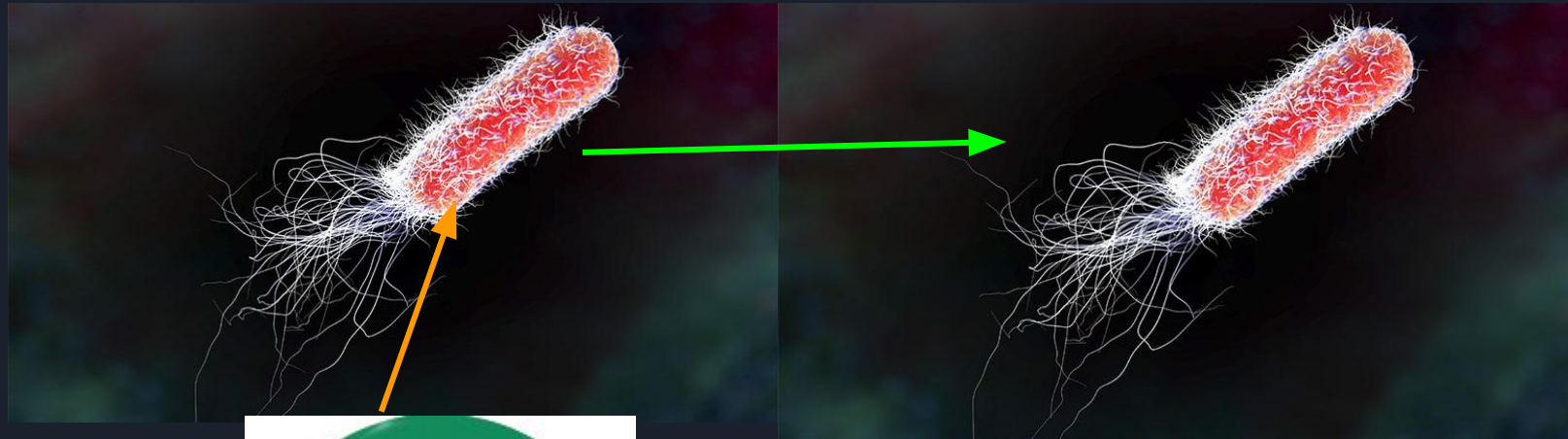
Overview of Experiment



Prime construction



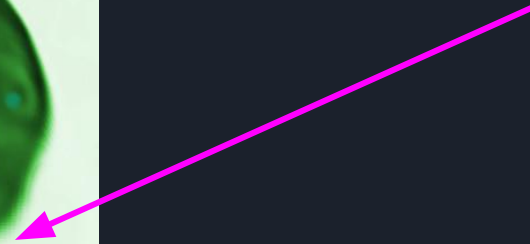
Clone vector for double recombination



First Insertion



First Insertion



First Insertion



First Insertion



First Insertion

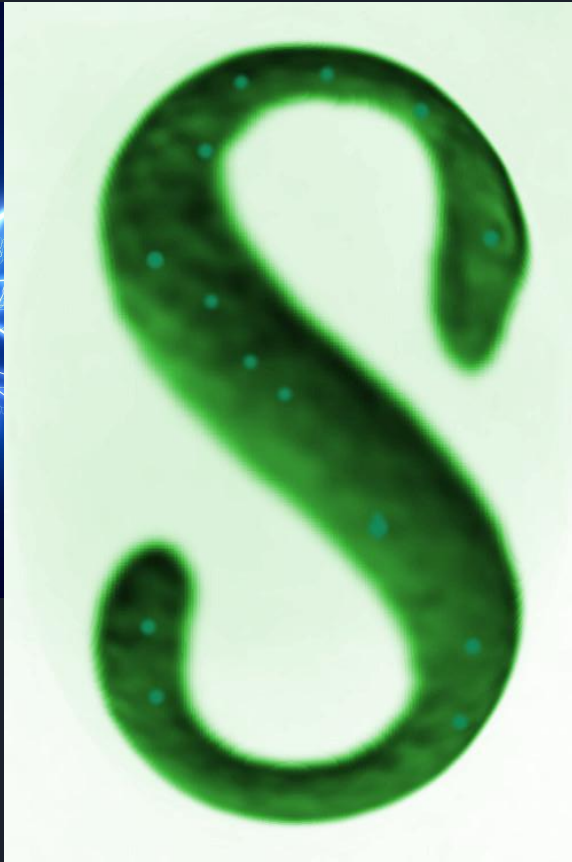


Streptomycin

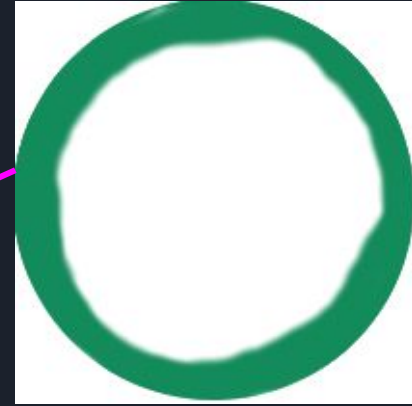
First Insertion



Second Insertion



Second Insertion



Second Insertion



Second Insertion



Second Insertion



Sugar

Second insertion



Reference

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