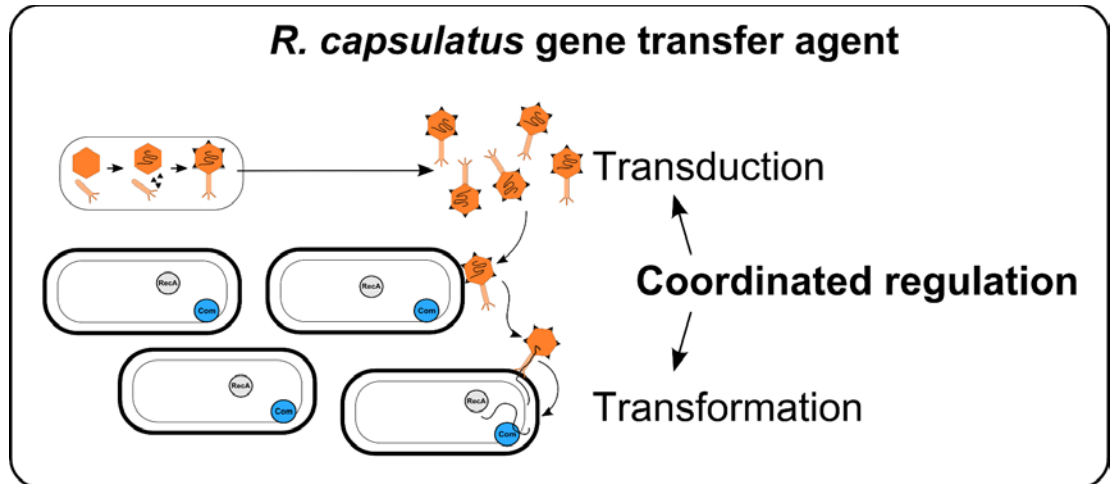




Integration of gene exchange into a bacterium's physiology



Gene transfer agents (GTAs) are bacteriophage-like particles produced by some prokaryotes that exclusively package small fragments of cellular DNA. Production of GTA particles by the alphaproteobacterium *Rhodobacter capsulatus* occurs in a small subset of the population (<3%), with these cells lysing to release particles that can then transfer the packaged DNA to other cells in the population. The production of GTAs in *R. capsulatus* is controlled by several regulatory systems and coordinated with the capability of non-producing cells to become competent to receive DNA from the GTA particles.

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Host: Dr. Alex Ensminger

Date: Wednesday May 10th, 2017

Time: 3PM

Place: Medical Sciences Building,
Room 2170