

CONNECTIONS

The Understanding and Analysis of Genomes module will connect students with concepts in several other biological topics such as evolution, organismal biology, and ecology. To understand these connections, students will read the article *Environmental Biology of the Marine Roseobacter Lineage* by Irene Wagner-Dobler and Hanno Biebl.

Reading the Article

Students will work in small groups, each reading a section of the article; they will outline the most important points in this section and be prepared to share the information (jigsaw activity).

Sections

1. Introduction (done as a class)
2. Abundance and diversity of *Roseobacter*
3. Aerobic anoxygenic phototrophy
4. Aerobic anoxygenic photosynthesis
5. Carbon monoxide oxidation
6. Role of *Roseoacter* lineage for sulfur cycling in the ocean
7. Role of *Roseobacter* lineage for DMSP degradation
8. Symbiosis
9. Mutualistic interactions
10. Pathogens and probiotics
11. Production of Antibiotics and Quorum sensing
12. Genomes and metagenomes

As a class a summary table will be generated.