

AP Bio FRQ Fridays

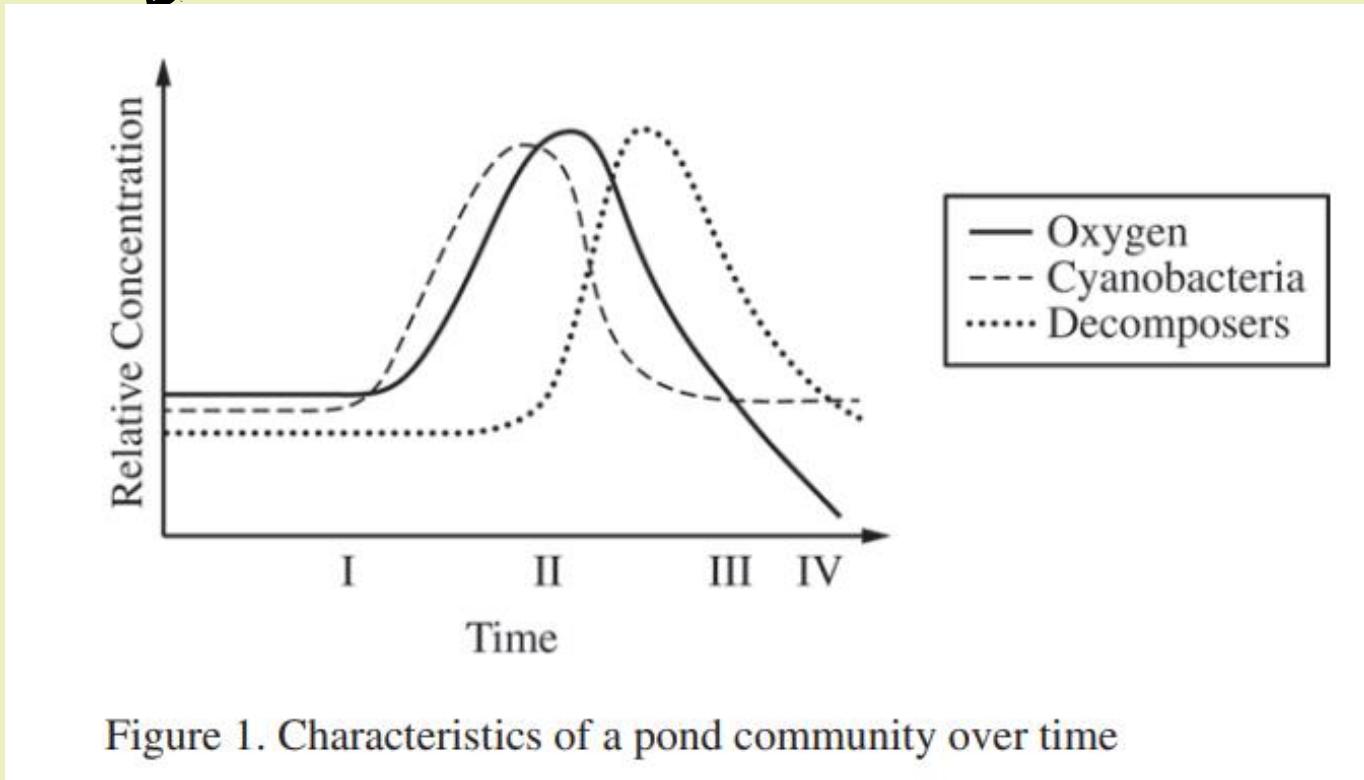
2017 #5

Cellular Respiration & Photosynthesis



FRQ Friday #7

2017 #5

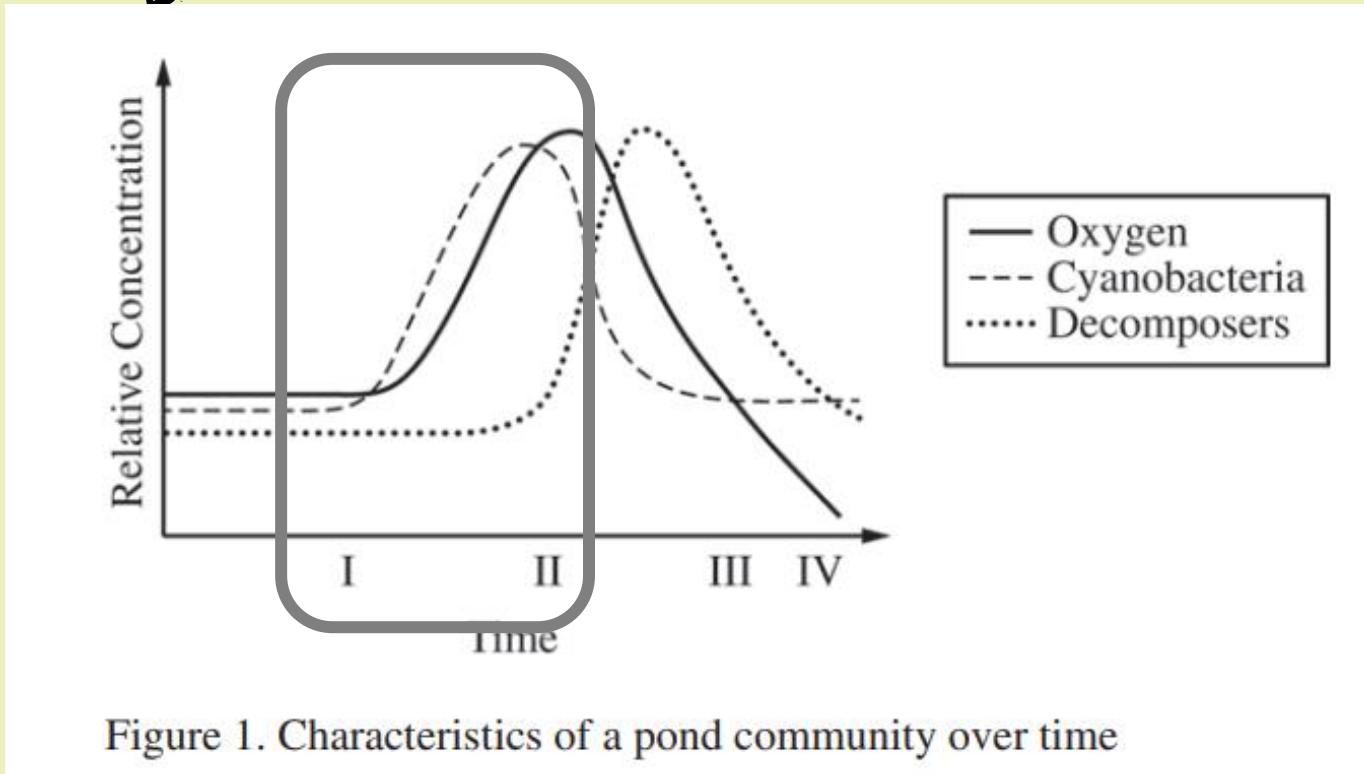


Microcystis aeruginosa is a freshwater photosynthetic cyanobacterium. When temperatures increase and nutrients are readily available in its pond habitat, *M. aeruginosa* undergoes rapid cell division and forms an extremely large, visible mass of cells called an algal bloom. *M. aeruginosa* has a short life span and is decomposed by aerobic bacteria and fungi. **Identify** the metabolic pathway and the organism that is primarily responsible for the change in oxygen level in the pond between times I and II AND between times III and IV.

Hi!

FRQ Friday #7

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Identification (2 points per row; 4 points maximum)

Time Period	Metabolic pathway (1 point per box)	Organism (1 point per box)
I - II	Photosynthesis	Cyanobacteria (<i>M. aeruginosa</i>)



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Identification (2 points per row; 4 points maximum)

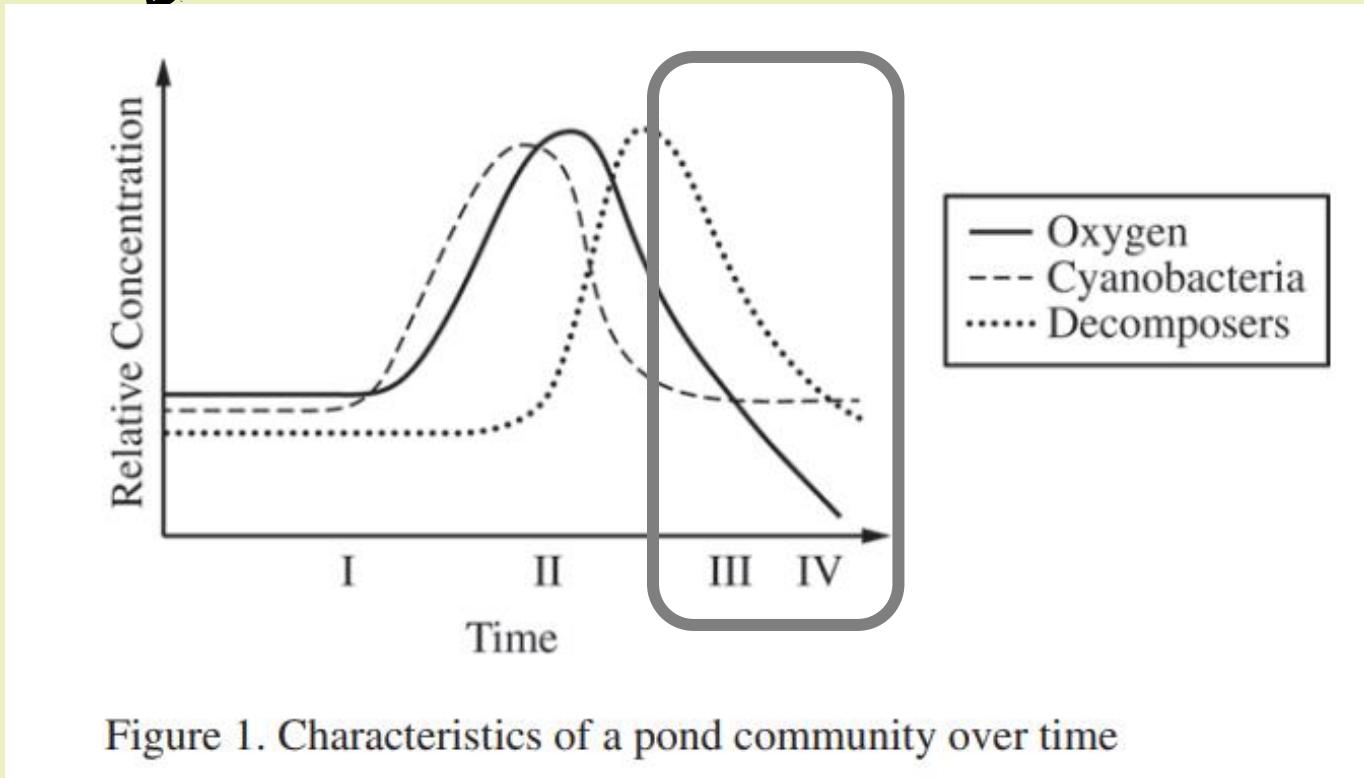
Time Period	Metabolic pathway (1 point per box)	Organism (1 point per box)
I - II	Photosynthesis	Cyanobacteria (<i>M. aeruginosa</i>)

The metabolic Pathway that is primarily responsible for the change in oxygen level in the pond between times I & II is Photosynthesis & the organism responsible is the photosynthetic cyanobacterium ~~Microcystis~~ *aeruginosa*. The



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Identification (2 points per row; 4 points maximum)

Time Period	Metabolic pathway (1 point per box)	Organism (1 point per box)
III – IV	Cellular respiration	Decomposers/fungi/bacteria



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Identification (2 points per row; 4 points maximum)

Time Period	Metabolic pathway (1 point per box)	Organism (1 point per box)
III – IV	Cellular respiration	Decomposers/fungi/bacteria

Cyanobacterium Microcystis ~~aeruginosa~~. The metabolic pathway that is primarily responsible for the change in oxygen level in the pond between times III & IV is cellular respiration & the organism responsible is the aerobic bacteria & fungi/decomposers.

