Microbial Genomics & Bioinformatics

• What microbes (Viruses, Bacteria, Archaea, Eukarya) are in different environments?

• What are they doing?

• How are they doing it?
• Biofuels

There are alternatives to ethanol, e.g. phytoplankton, cyanobacteria, etc.

No need for fertilization (N\textsubscript{2} fixation), growth in vats, etc.
Department of Energy Microbial Focus

- Carbon Sequestration

  Most discussion about physical sequestration

  Marine based, biological carbon sequestration is also possible
Microbial communities have dramatic geochemical impact
Wild-fires, 2007
(thanks Eric Frost)