

Biological Functions of a Vegetative Bioreactive Landfill Cap

Presented by:

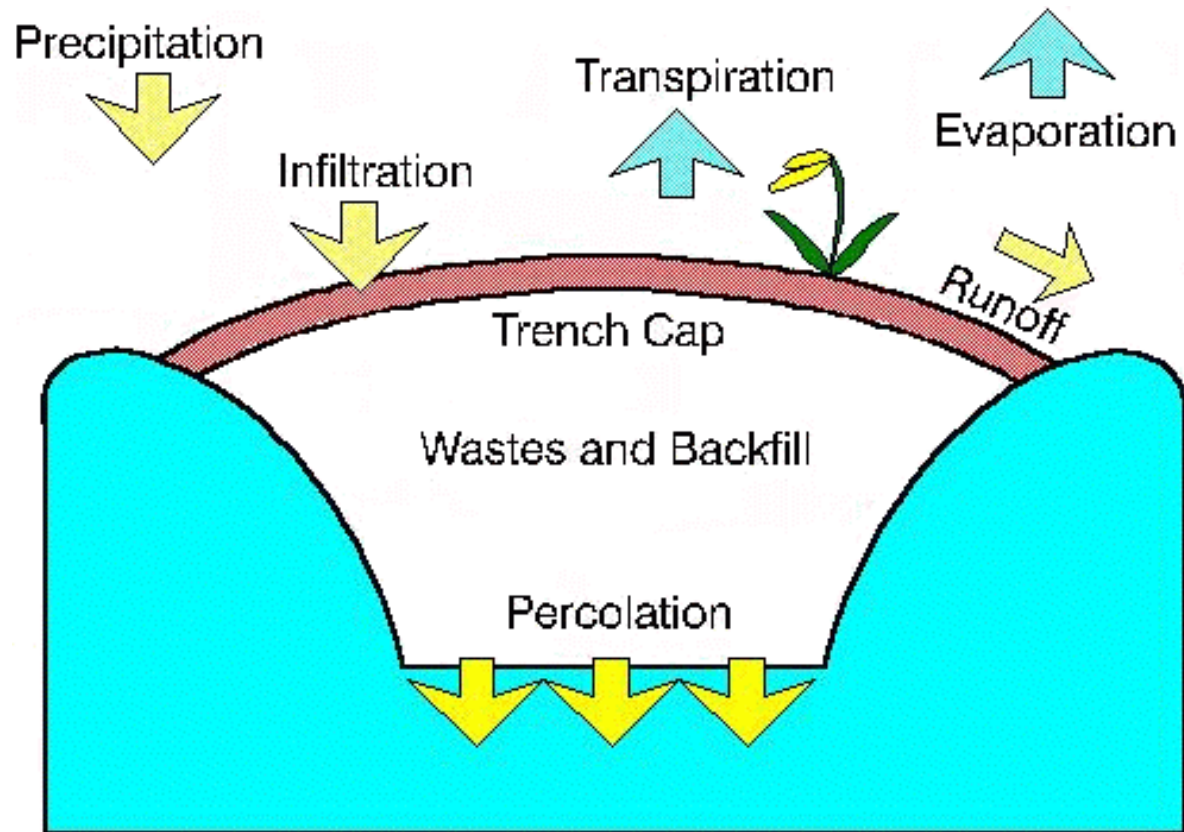
Lori P. Miller, PE (USDA/ARS)

Based on the Research of:

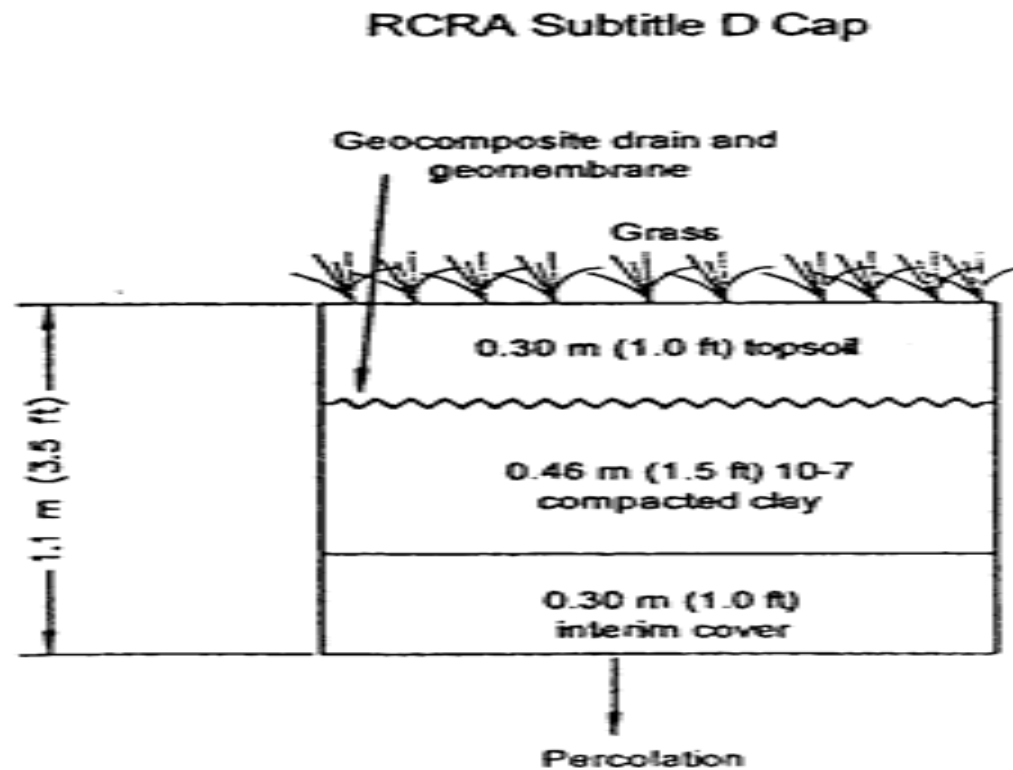
Patricia Millner, PhD (USDA/ARS)

Sarah Wright, PhD (USDA/ARS)

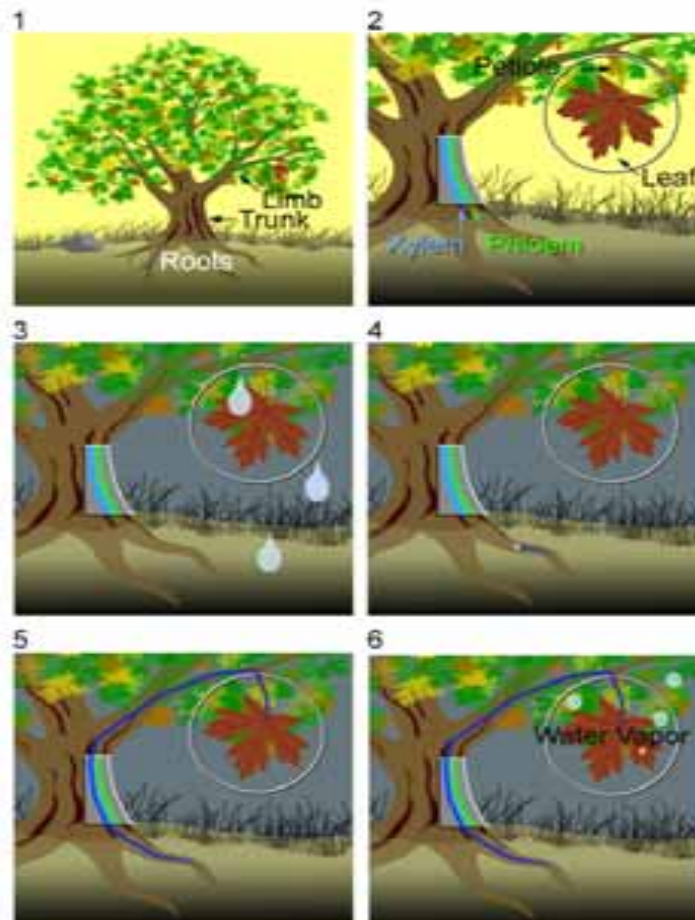
Cap Concept- Water Balance



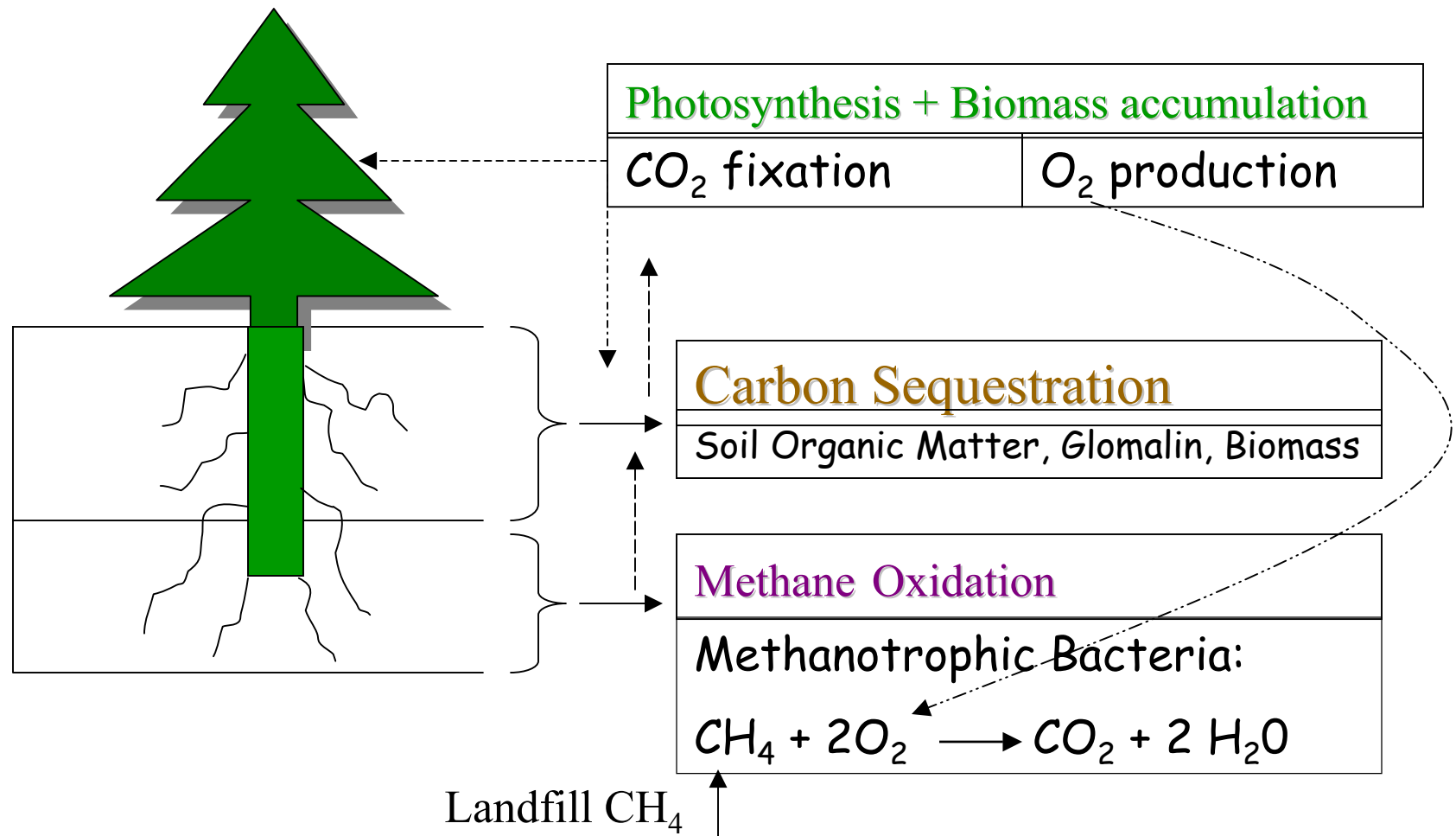
Cap Concept – Standard Cap



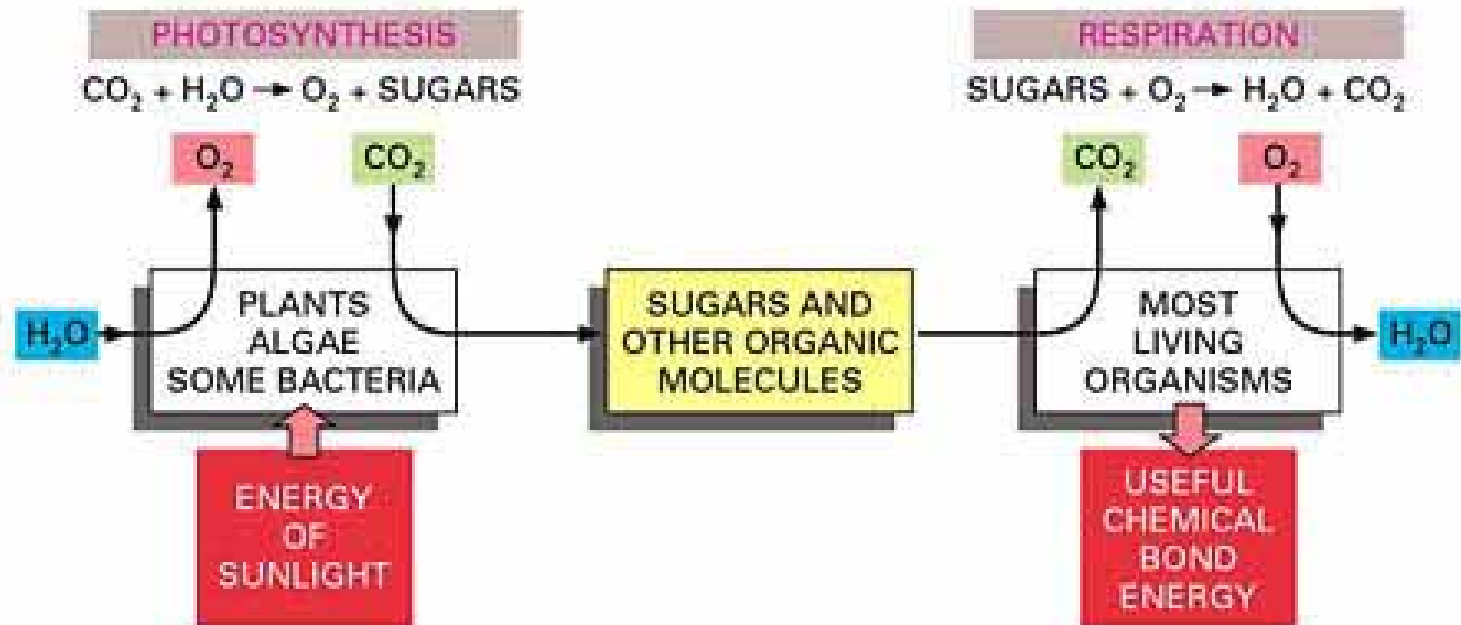
Transpiration



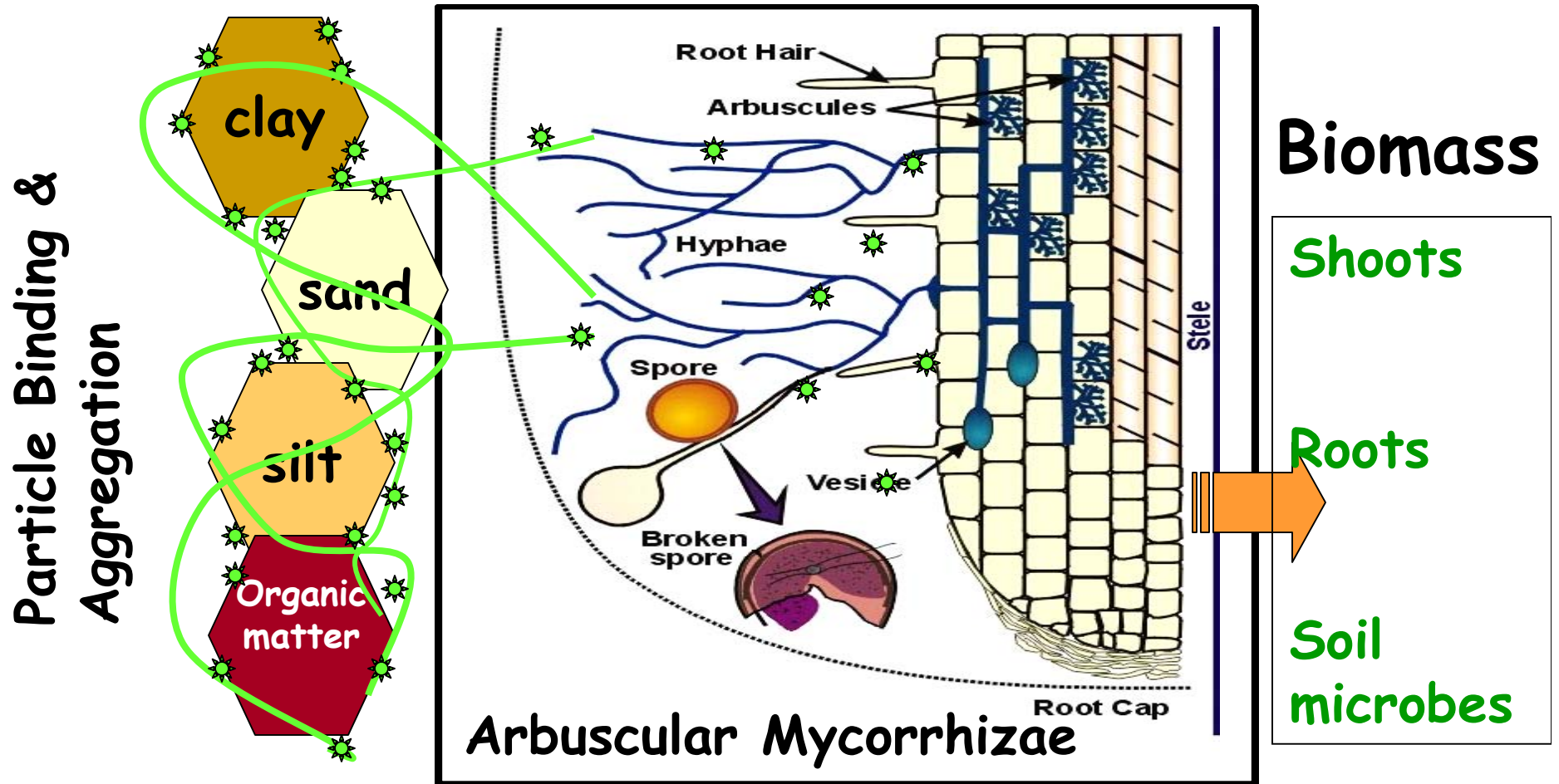
Cap Concept- Vegetative Bioreactive Landfill Cap



Photosynthesis and Respiration

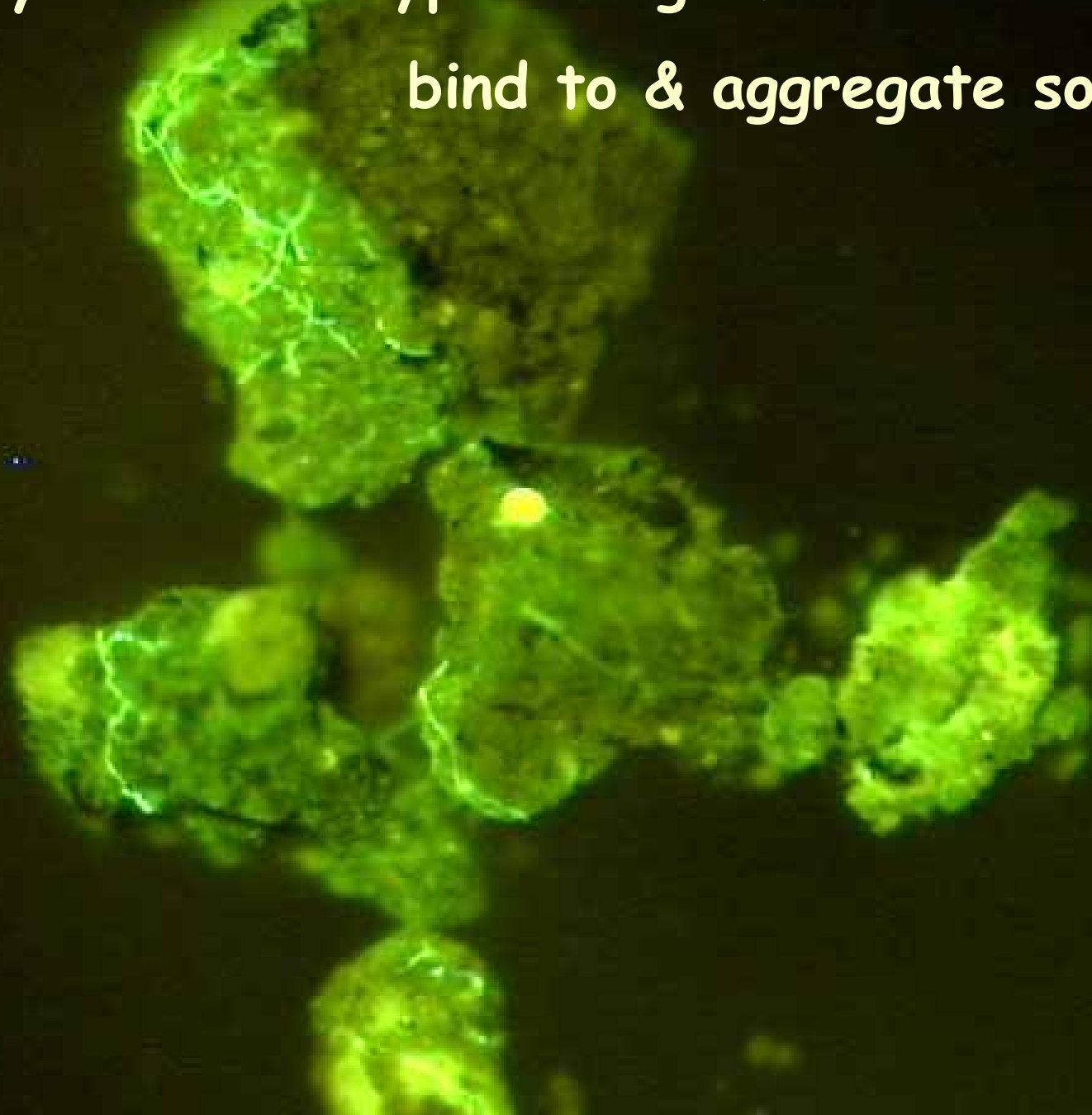


Symbiotic Nutrient Exchange System



Mycorrhizal hyphae & glomalin

bind to & aggregate soil particles



A fluorescence micrograph showing a network of bright green, thread-like structures (hyphae) against a dark background. The hyphae are interconnected, forming a complex web. Some hyphae are thicker and more prominent, while others are thinner and more delicate. The overall appearance is that of a highly branched, interconnected network of fungal filaments.

**Mycorrhizal
hyphae &
glomalin**

Cap Concept- Vegetative Bioreactive Landfill Cap

