

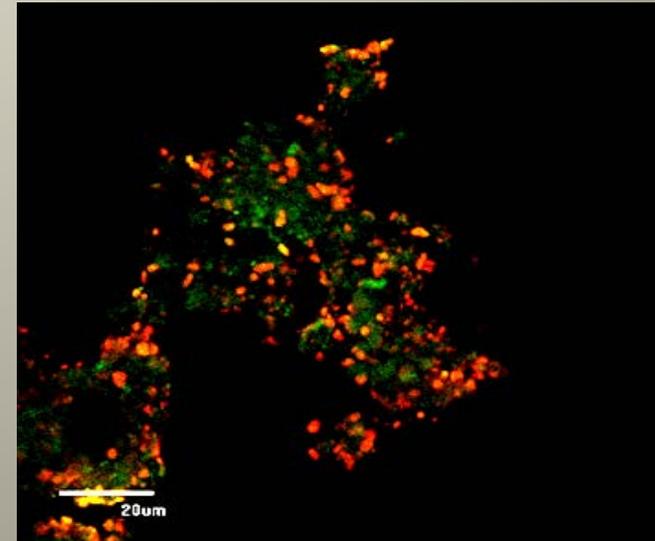
- Process uses novel microorganisms anammox and HPNS nitrifiers (USDA Patents 8,574,885 & 8,445,253)
- Successfully tested by Pancopia Inc. in NASA SBIR project for biological treatment of wastewater in space.
- USDA cooperation through CRADA and patent licensing



Anammox *Brocadia caroliniensis* discovered in NC swine farm



Pancopia's bioreactors at PeninsulaTechnology Incubator(Hampton, VA) treating space wastewater and project cooperators



Confocal microscope image of anammox (red) and HPNS (green)

**NASA SBIR II Project:** Development of bioreactors to effectively remove ammonia from spacecraft and space habitat generated wastewater after reactivation during long-periods of quiescent operations.