Searches for Alien Life in Astrobiology

Biosignatures

Exoplanets:
Atmospheric gases
Surface reflection spectra

Solar System:
Microfossils
Molecular Biomarkers

Technosignatures (SETI)

Communication

NIROSETI:
pulsed lasers
continuous lasers

Radio:
carrier wave
broadband

Other carriers
(X rays, ν's,
GW's, etc.)

Transits:
Arnold
megastructures

Artifact

Waste heat:
Dyson spheres
Type III galaxies

Solar System:
Probes
Structures

Exoplanets:
Pollution
Waste heat

"Nature-plus"

Disappearing stars

"Tickling" Cepheids

Ĝ red spirals

Przybylski's Star

Organized pulsar arrays

METI

Strong radio trasmission

Embedded messages in leaked emission

Voyager records
Pioneer plaques