



Biofilms Long term survival Stress resistance Genetic Exchange



Diagnostics False-negative Non-culturable

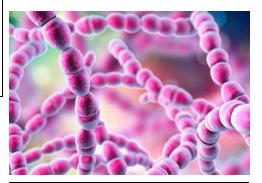


Risk Assessment Environmental dissemination Animal infections Human infections Foodborne illness

Risks

Hazards

Persister



Latent infections Reoccurring infection False Negative



Stress Tolerance Antibiotics Sanitizers Thermal **Environmental Persistence** Survival in soil and water Contamination on plants