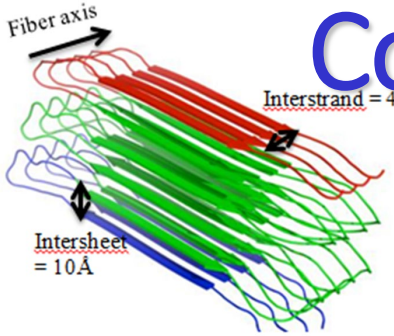
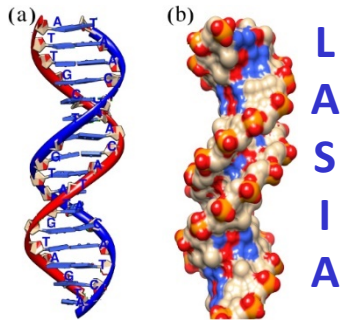
# Community of Cells




Amyloid / DNA




NEOPLASIA

Irreversible

Genotype

Eukaryote

Growth: Loss of Contact Inhibition

Cycling/Stages

Community/3-D Structures

Nutrient Pathways (Angiogenesis)

Anti-Inflammatory/Resistance

Division of Labor (Heterogeneity)

Metastasis

Genotyping

Cell – Cell Signaling

Virulent Phenotype

Immune Regulation

Increased Metabolism

Up Regulation

Reversible

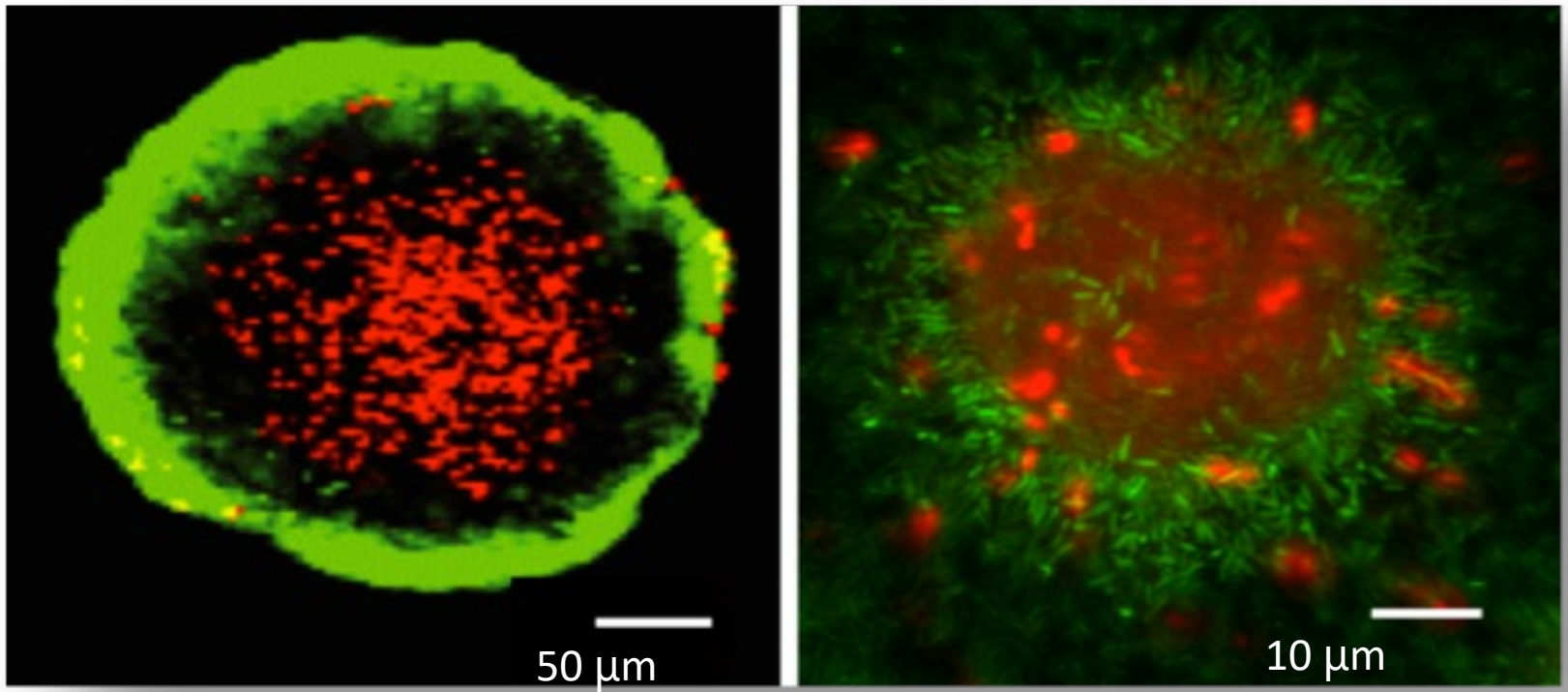
Phenotype

Prokaryote

BIOFILM

# Structural & Developmental Similarities: Biofilms to Tumors

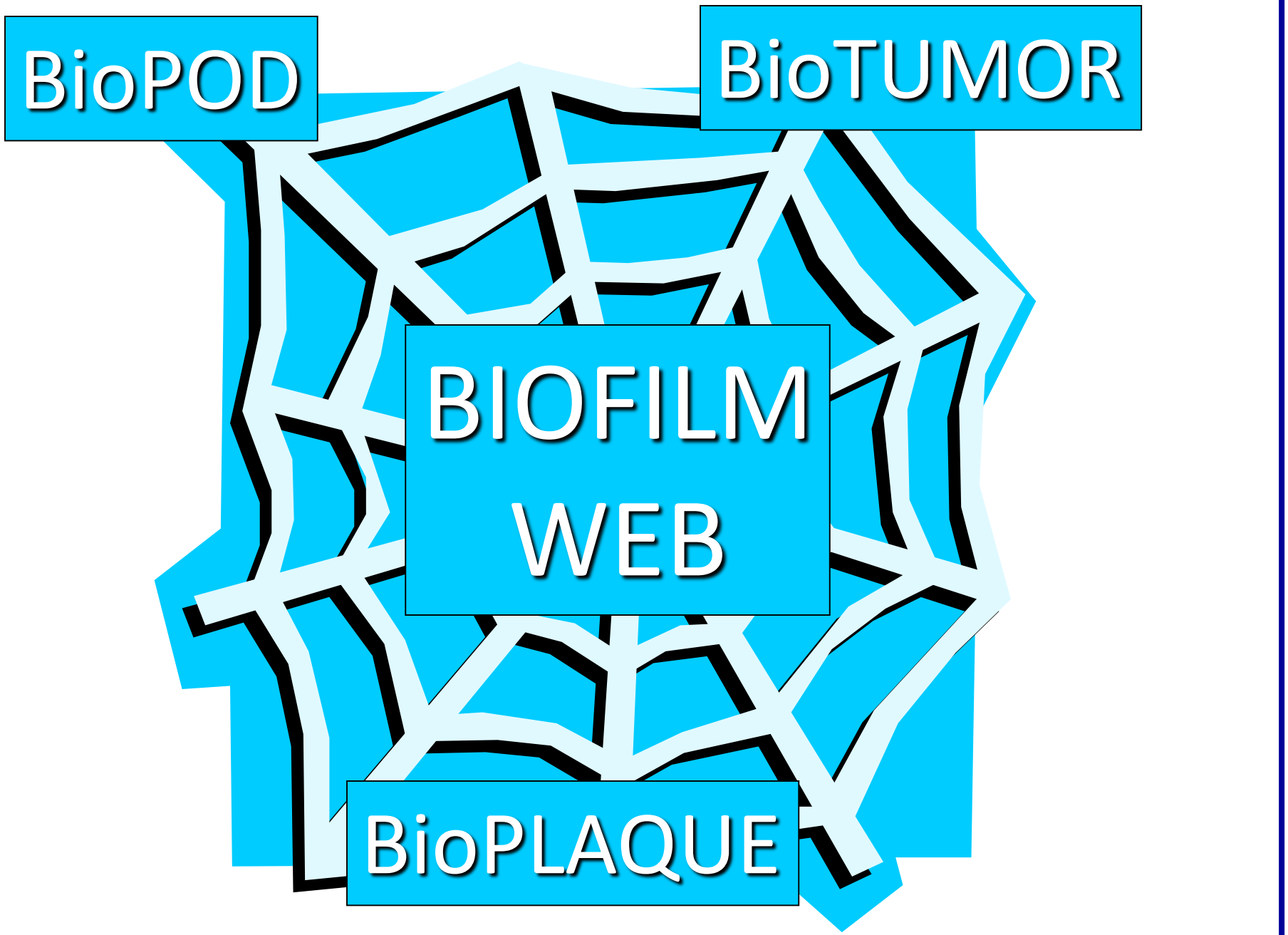
Gradients of proliferation, cell death and lysis in cancer spheroid foci and biofilm microcolonies




Spheroid model

*P. aeruginosa* microcolony

Visualized using LIVE/DEAD staining
(Webb et al., 2003)


BioPOD
BioTUMOR
BIOFILM
WEB
BioPLAQUE