## Saatcioglu's Lab Protocol #xxxx

# **Crystal Violet Cell Colony Staining**

## **Principle:**

One simple method to detect maintained adherence of cells is the staining of attached cells with crystal violet dye, which binds to proteins and DNA.

#### **Reagents:**

1L Fixing/Staining solution \*:

0.5 g Crystal Violet (0.05% w/v)
27 ml 37% Formaldehyde (1%)
100 mL 10X PBS (1X)
10 mL Methanol (1%)
863 dH20 to 1L
(Stored in chemical cupboard)

#### **Procedures:**

1) Remove media (do not wash cells).

2) Add staining solution to cover dish (~ 40% of medium level. For example, use 4 ml for a

10-cm dish).

3) Stain for 20 min at room temperature in fume-hood for chemicals.

4) Remove fix/stain solution and save in bottle for waste liquid.

5) Wash dishes one at a time by dipping into bucket of water in the sink with the water continuing to run.

6) Air dry dishes.

7) Count colonies with >50 cells by eye or with automated colony counter.

\*The solution contains formaldehyde.