#### Lab 1: Eau That Smell

# **Biological Materials:**

Strain 1-1 NB376 stationary phase, indole-

Strain 1-2 NB377 stationary phase + inverter, indole-

Strain 1-3 NB378 log phase, indole-Strain 1-4 NB379 no ATF1, indole-

Reagents:

ampicillin e.g. Sigma, A0166-5G 100 mg, use at final concentration of 100 mg/liter

isoamyl alcohol e.g. Sigma, W205710-SAMPLE-K 700 ul banana extract e.g. Amazon, "Frontier Banana Fla 1.5 ml

### **Next steps (per student team):**

Day 1: grow overnights of each strain in LB+A (4x2.5 ml)

Day 2: innoculate each into 50 or 75 ml LB+amp+isoamyl (<300 ml LB+Amp, 250 ul isoamyl)

Day 2, 3, (4): follow growth and smell intensity

Final data: data analysis

## **Teacher provides:**

Consumables

Luria Broth (LB), 1 liter sterile toothpicks

sterile tubes (16x150mm)+ loose caps (4) 50 ml conical tubes for smell stds (6 stds)

pipet tips

latex or nitrile gloves

## <u>Equipment</u>

125 ml flasks (sterile) + stir bar (4)

room temp or 37° incubator for growing petri plates Roller drum or shaker at 37° for growing liquid overnights Room temperature shaker or stir plates for growing cells Spectrophotometer or turbidity stds\*

sharpie pens

pipetmen (P1000, P200, P20)

\*Turbidity stds require 1.75 ml BaCl<sub>2</sub> 80 ml 1% H<sub>2</sub>SO<sub>4</sub>