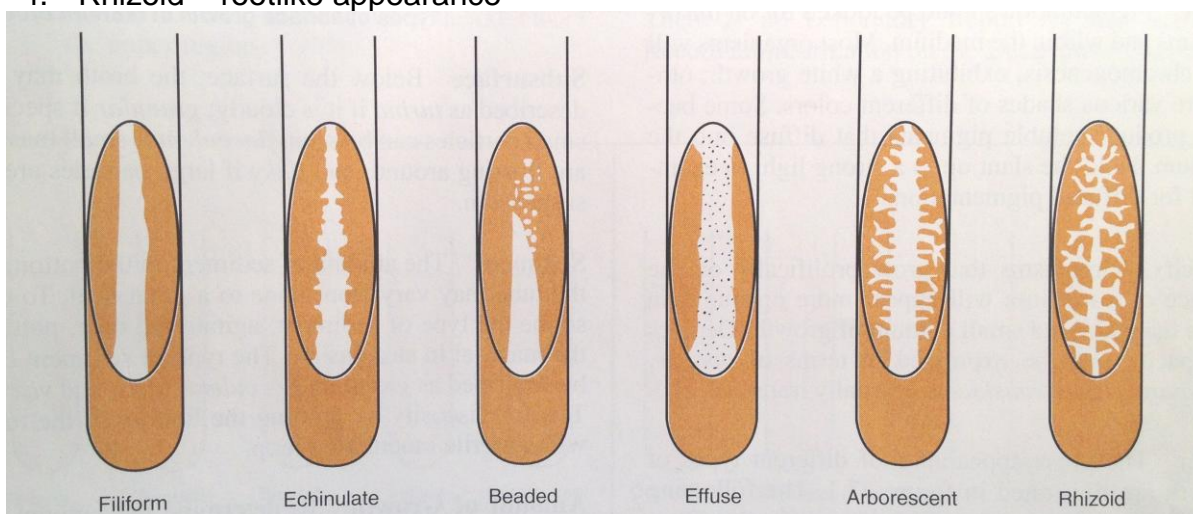


# Microbiology Lab

## Morphological Study of Bacterium

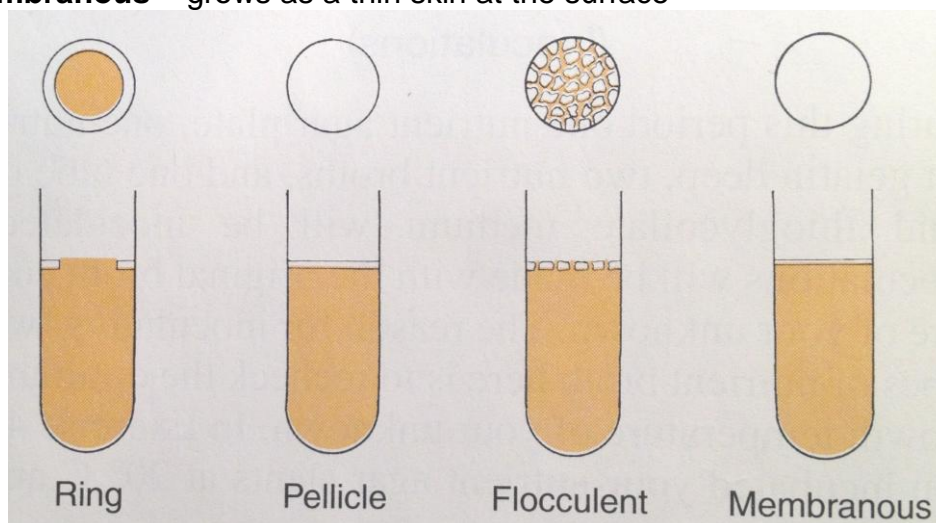
Growth on **nutrient agar slant** – Describe the following:

1. **Color** – most will be white or buff colored, however some produce pigments in orange, yellow, etc.
2. **Opacity** – the more opaque, the more the bacteria grew. Record your growth as *opaque*, *transparent* (you can see through it), or *translucent* (partially transparent)
3. **Form**
  - a. Filiform – uniform growth along the line of inoculation
  - b. Echinulate – Growth margins appear toothlike
  - c. Beaded – separate colonies grow along the line of inoculation
  - d. Effuse – Growth is thin, veil-like, and unusually spreading
  - e. Arborescent – branched, teethlike growth
  - f. Rhizoid – rootlike appearance

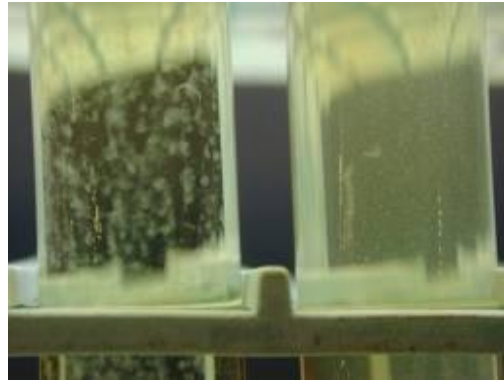


Growth in **nutrient broth** – Describe the following

1. **At the surface** – be sure to **review Fig 40.2**
  - a. **Ring** – grows in a ring around the margin of the test tube
  - b. **Pellicle** – grows as a thick skin at the surface
  - c. **Flocculent** – small masses are floating at the surface
  - d. **Membranous** – grows as a thin skin at the surface

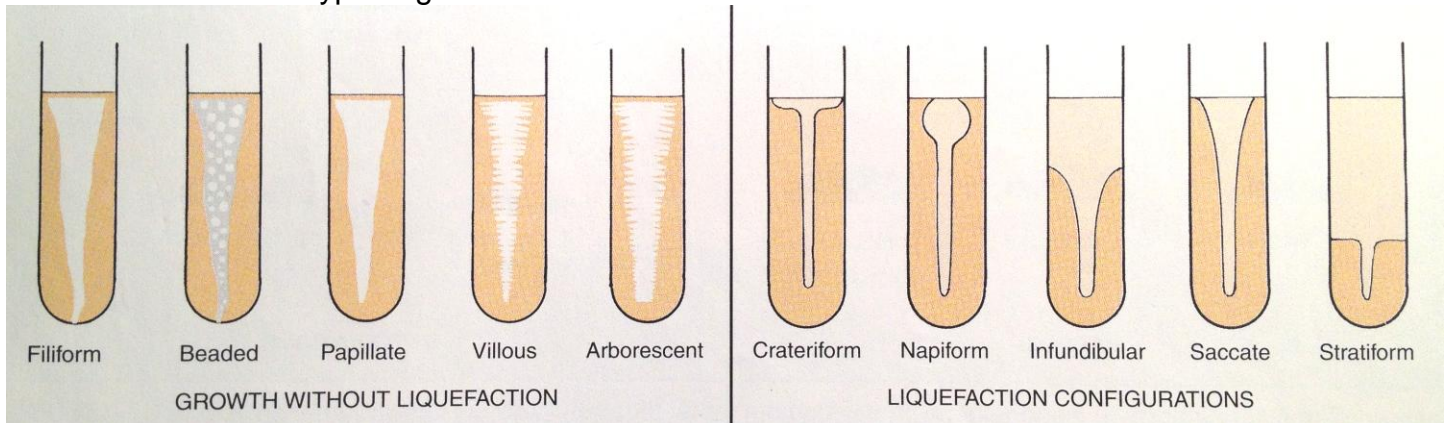


2. **Subsurface** – floating in the broth
  - a. Turbid – cloudy growth
  - b. Granular – small particles
  - c. Flocculent – small masses
  - d. Flaky – large particles
3. **Sediment** – at the bottom of the broth
  - a. Granular – small particles
  - b. Flocculent – small masses
  - c. Flaky – large particles
  - d. Viscid – sticky when prodded



### Growth in a **gelatin stab culture**.

- a. Record whether the bacteria liquefied the media or not
- b. Record type of growth as seen below:



### Growth on a **Petri dish** – Describe the following:

1. **Colony Morphology** (shape):
  - a. **Elevation**
  - b. **Margin**
  - c. **Configuration**
2. Also include the following:
  - a. Colon color
  - b. Surface characteristics (dull or shiny)
  - c. Consistency (dry, butyrous-buttery, or moist)
  - d. Optical properties (opaque or translucent)

