Microbiology: Assessment of Microbe Colonies

Look at the plate you made last week and make a **qualitative assessment** of the colonies. A qualitative assessment is a description of the characteristics (qualities) you can observe. Use the references provided to describe the colonies you see and answer the following questions:

1. How many different types of colonies can you identify?

Microbe Colony Identification – Use the following characteristics, where applicable, to describe the colonies you see. You do not need to use all of these characteristics, just those you can identify. Use the images below for guidance.

Form - What is the basic shape of the colony? For example, circular, filamentous, etc.

Elevation - What is the cross sectional shape of the colony? Turn the Petri dish on end.

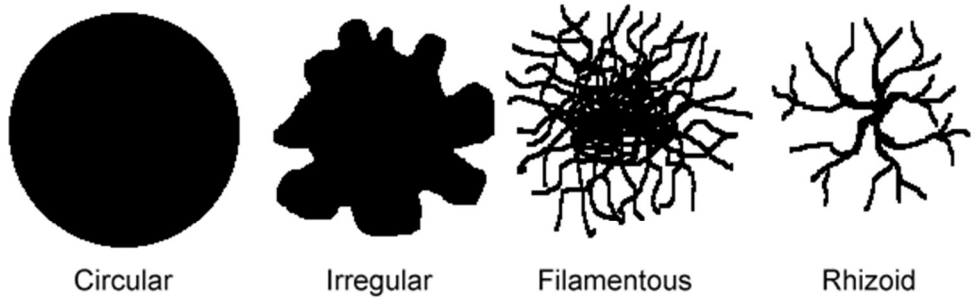
Margin - What is the magnified shape of the edge of the colony?

Surface - How does the surface of the colony appear? For example, smooth, glistening, rough, dull (opposite of glistening), rugose (wrinkled), etc.

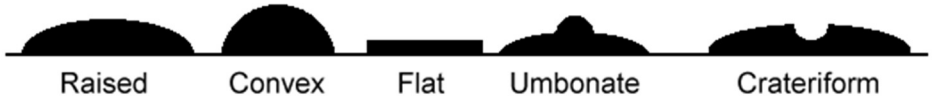
Opacity - For example, transparent (clear), opaque, translucent (almost clear, but distorted vision, like looking through frosted glass), iridescent (changing colors in reflected light), etc.

Chromogenesis (pigmentation) - For example, white, buff, red, purple, etc.

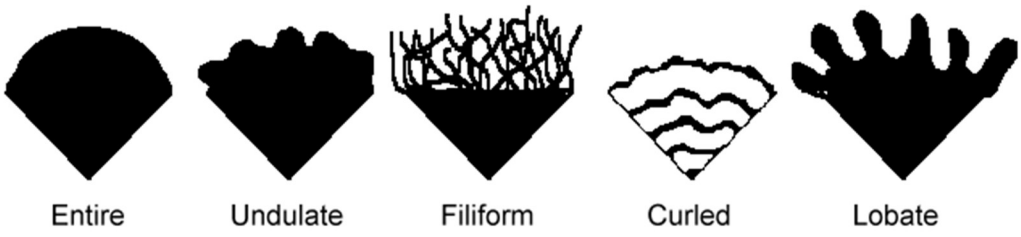
Form

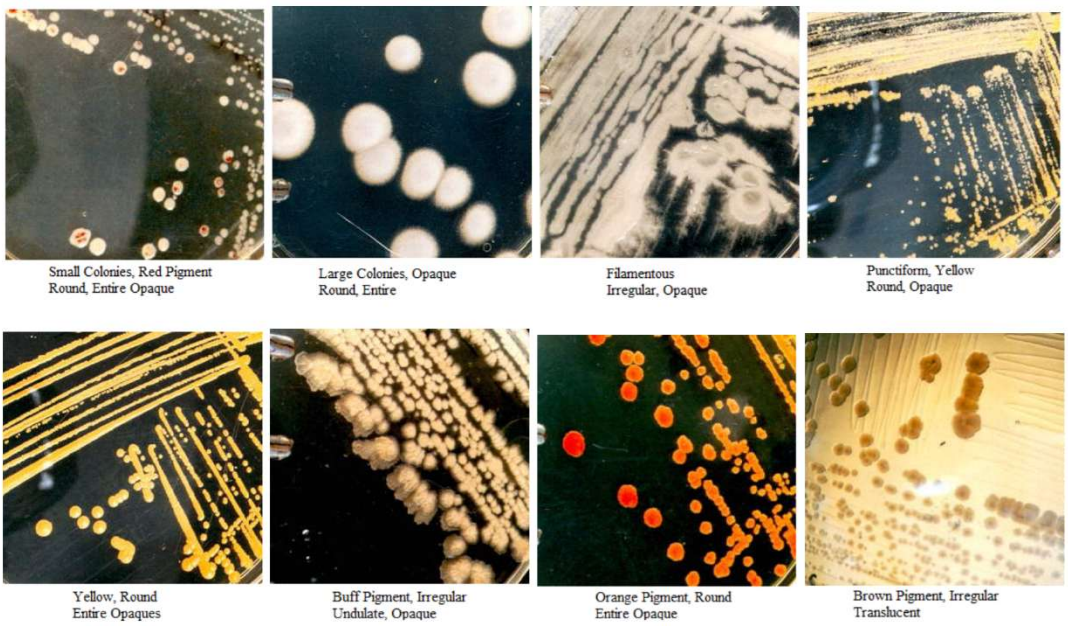


Elevation



Margin





Images of Bacterial Colonies

Qualitative Assessment – Assessment that provides a numerical results. For example, counting the number of individual colonies for each colony type.