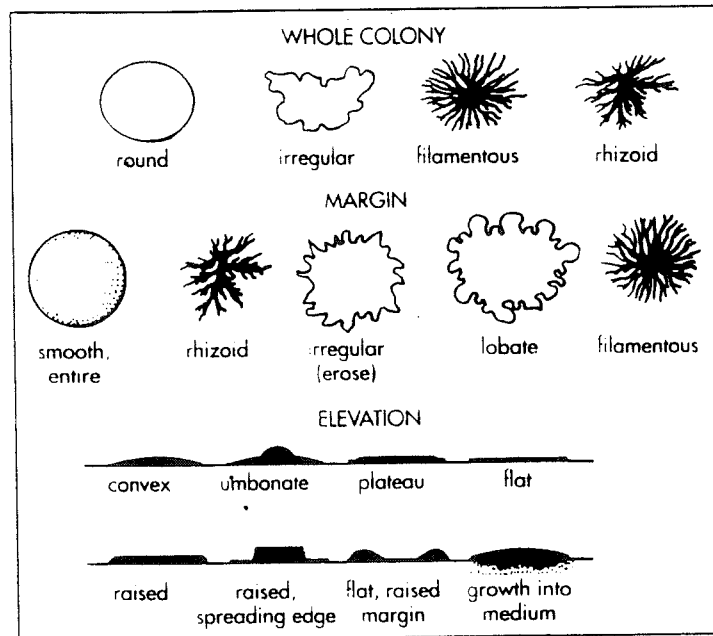


A Sampling of Bacterial Colony Features

I. Terms used to describe colony morphology ::

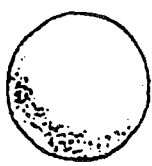


II. Other terms to describe colony morphology include ::

1. Color (pink, grey)
2. Surface Characteristics (dull or shiny)
3. Consistency (dry, moist, buttery)
4. Optical properties (opaque, translucent)

III. Measure colony diameters with a ruler and include the results in your description. Remember to use the metric system (mm, cm)

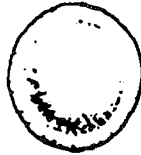
These terms are to help you distinguish growth patterns on your cultures and growth patterns may be helpful in determining characteristics of the organism. Distinguishing these growth patterns is a learned skill you will use to help you determine your unknown species. Taking note of all the growth patterns of the organisms you see this semester will help you later !



Round



Scalloped



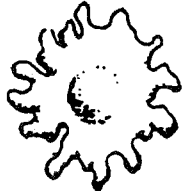
Raised



Wrinkled



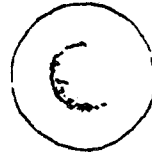
Concentric



Irregular



Filamentous



L-form



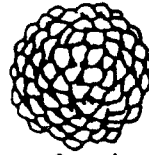
Radiating



Filiform



Rhizoid

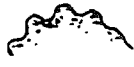


Complex

Configurations



Smooth



Wavy



Lobate



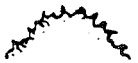
Flat



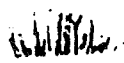
Raised



Convex



Irregular



Ciliate



Branching



Droplike



Umbonate



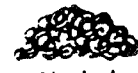
Hilly



Woolly



Threadlike



Hairlock



ingrowing









Cratenform

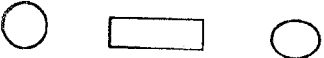

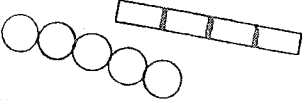

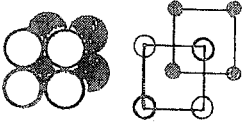
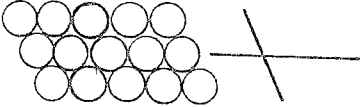
Colony Characteristics

CHARACTERISTICS AND TERMINOLOGY

Cell Morphology

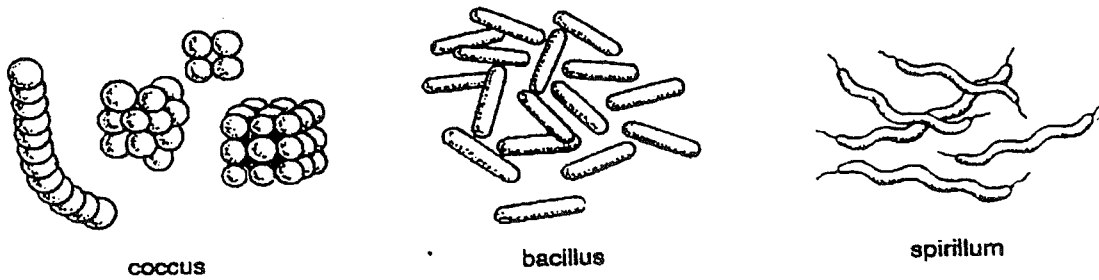
Shape of vegetative cells	Terminology	Description
	bacillary	rod or cylinder
	coccobacillary	rod with tapered ends; short
	coccus	spherical to ovoid may be flat on one side
	vibrio	comma or banana
	spirillum	rigid spiral; long wavelength
	spirochete	flexible spiral, short wavelength; axistyle

Cell Grouping

Cell Grouping	Terminology	Description
	singles	no detectable grouping
	pairs	two attached cells
	chains	more than two cells; one division plane
	tetrad	packages of four cells; two division planes
	sarcina	packages of eight cells; three division planes
	staph	irregular clusters; rows at acute angles

Bacterial Morphology

Bacterial morphology is a result of the cell wall. There are three basic shapes: **cocci** (sust, coccus) are spherical, **bacilli** (bacillus) are rod-shaped, and **spirilla** (spirillum) are spiral or cork-screw shaped. Spirochetes are considered a special type of spirillum. Spirochetes are flexible. Some of the more bizarre forms are waffle-shaped, spindle shaped, and square.



14.1 Basic bacterial morphological shapes

Draw & Label Slides Viewed

