

Introduction to Microbiology

Why do we want to study Microbiology?

Importance

Uses

Harm

What is Microbiology?

Exceptions

How do the microorganisms arise?

Pasteur's experiment with the "S" shaped flask

(Blow to Spontaneous generation)

What kind of organisms would have survived in Pasteur's experiment.?

Relationship between microorganisms and diseases (Koch's Postulates)

Agar vs. gelatin as solidifying agents in a culture media

What is the composition of the microbial world?

Classification (figs 19.3, 19.4, Table 19.1,

Carl Woese: Use of r RNA sequencing for classification of organisms into 3 domains.

(Ch 19)

Binomial Nomenclature (As proposed by Carolus Linnaeus) Latinized, italicized name consisting of two parts: 1st is the capitalized generic name (genus) &

2nd is not capitalized specific epithet (species name)