

Biology 1AL Midterm Study Guide

Spectroscopy

- **Absorbance:** spectrometer records the amount of light absorbed or light that passes through the solution, less light passes through a higher concentrated solution
 - Equation: $-\log(I/I_0) = CLZ = \text{Absorbance}$
 - Explanation:
 - I = intensity of light emerging from sample
 - I_0 = intensity of incident light
 - C = concentration of solution (M = moles/L)
 - L = length of light path (cm)
 - Z = molar extinction coefficient
 - $I/I_0 = \text{\% transmittance} = \text{Optical Density (O.D.)}$
 - blank: everything except key color you want to measure

Microscope

- **shorter wavelength = better resolution**
- ocular lens: 10x – total magnification equals 10x times lens
- image: inverted image – upside down and backwards
- **field of view:** smaller equals higher magnification
- **depth of field:** smaller equals higher magnification
- **ruler calibration:** less mm for higher magnification
- inverse relationship

Cells

- Domains: **Prokarya (Eubacteria, Archaea), Eukarya (Eukaryotes)**
- prototroph – can make all cellular compounds from inorganic (from minimal), photoautotrophic (sunlight to make energy), chemoautotrophic (make energy and compounds from inorganic), chemoheterotrophic (use preformed foods to make energy)
- Prokaryotes – live in hypotonic
 - plasma membrane and cell envelope
 - **cell envelope:** glycocalyx (adhesion, prevent dessication, resist phagocytosis), cell wall (passage, pressure), flagella (long, move, rotate), pili (short, more, adhesion)
 - Archaea
 - **introns, 16sRNA different, different phospholipids, different cell wall**
 - Bacteria (Eubacteria) – reproduce 10 rounds equal 1×10^3 bacteria
 - Categorizing by:
 - morphology (shape)
 - **cocci:** spherical
 - **bacilli:** rod shaped
 - **spirilli:** spiral shaped
 - cell wall composition (gram +/-)
 - **gram positive:** stain with violet, thick cell wall retains iodine violet
 - **gram negative:** stain red, thin wall with complex outer, impermeable to hydrophobic, barrier to antibiotics and enzymes
 - oxygenic photosynthesis (release O_2)
 - symbiosis (obligate parasitism)
 - Cyanobacteria: gram negative eubacter that release oxygen during photosynthesis, some do nitrogen fixation

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