

Microbiology Study Guide

Microbial growth

PHYSICAL REQUIREMENTS FOR GROWTH

- Growth of population: increase in the number of cells
- Requirements are both *physical and chemical*

PHYSICAL REQUIREMENTS:

- *psychrophiles: cold loving microbes
- *mesophiles: moderate temperature
- *thermophiles: heat loving
- Minimum growth temperature: the lowest temperature that a species will grow
 - Optimum: temperature it grows best
 - Maximum: highest temperature tolerated for growth
- Most bacteria grow at a pH value between 6.5-7.5
- Most microbes undergo plasmolysis (shrinking) in hypertonic solutions; halophiles (microorganisms that require salt to survive) can tolerate higher salt concentrations

CHEMICAL REQUIREMENTS:

- Carbon—all organisms require a carbon source
- *chemoheterotrophs: use an organic molecule (pure carbon)
- *autotrophs: use carbon dioxide
- Nitrogen—needed for protein and nucleic acid synthesis. Obtained from decomposition of proteins, from NH_4 or NO_3 .
- Oxygen—obligate aerobes (require oxygen); facultative anaerobes (will use oxygen if it is present but do not require it); anaerobes (do not use oxygen) – for growth
- Other: sulfur, phosphorus, trace elements, organic growth factors

BIOFILMS

- Microbes adhere to surfaces and accumulate as biofilms on solid surfaces in contact with water
- Most bacteria live in biofilms
- Microbes in biofilms are more resistant to antibiotics than free-swimming microbes

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web the gamma cdf is $p f x a b 1 b a \Gamma a 0 x t a 1 e t b d t$ the result p is the probability that a single observation from a gamma distribution with parameters a and b falls in the interval 0 x the gamma cdf is related to

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web the geometric distribution is discrete existing only on the nonnegative integers the cumulative distribution function cdf

of the geometric distribution is $y = f(x, p) = (1-p)^{x-1} p$ where p is the probability of success and x is the number of failures before the first success

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web description `p_fcdf(x, v1, v2)` computes the f cdf at each of the values in x using the corresponding numerator degrees of freedom $v1$ and denominator degrees of freedom $v2$. x , $v1$ and $v2$ can be vectors, matrices or multidimensional arrays that are all the same size

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web define the input vector x to contain the values at which to calculate the cdf $x = [0, 1, 2, 3, 4]$ compute the cdf values for the poisson distribution at the values in x `y = cdfpd(x, y)` `y = [5, 0, 1353, 0, 4060, 0, 6767, 0, 8571, 0, 9473]` each value in y

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web may 10 2010 read all data from cdf file use the `cdfread` function to read all of the data in the cdf file `data = cdfread('example.cdf')` `whos(data)` `size(data)` `bytes(data)` `class(data)` `attributes(data)` `data` `24x6` `23904` cell `cdfread` returns the data in a cell array the columns of data correspond to the variables the rows correspond to the records associated with a variable

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