

Biology Unit 1 – Section 3.1.1

Microorganisms as Pathogens

To be considered a pathogen it must:

- Gain entry
- Colonise the tissues
- Resist the defences
- Cause damage to the tissues

Pathogens include bacteria, viruses and fungi

How do microorganisms enter the body

- Many pathogens enter through the gas exchange system (including ones that cause flu and TB)
- Food and water can carry pathogens into the stomach and intestines via the mouth and into the digestive system (including ones that cause cholera)

Preventing pathogens entering

- Mucous layer that covers the exchange surfaces and forms a thick sticky barrier that is difficult to penetrate
- Enzymes that break down pathogens
- Stomach acid which kills pathogens

How do pathogens cause disease

- By damaging host tissues – the sheer number of pathogens causes damage and stops tissues functioning properly – e.g. viruses stop DNA and RNA synthesis
- By producing toxins – most bacteria produce toxins which cause damage to the body – e.g. the cholera bacterium produces a toxin which leads to diarrhoea

Correlations and causal relationships

REMEMBER – CORRELATION DOESN'T MEAN CAUSATION

Data that shows there is a correlation between two variables e.g. cancer and smoking can never prove that smoking is the cause of cancer so therefore always look at it critically as it could be that stress is the cause and people smoke to help with stress nothing can be explicitly proved!

Factors that increase the risk of cancer

- Smoking – if they smoke the risk is higher
- Diet – low fat and high fibre rich in fruit and vegetables lowers risk
- Obesity – if someone is overweight the risk is higher
- Physical activity – more of this lowers risk

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AS Biology Unit 1. STUDY. PLAY. α -glucose - carbohydrate \rightarrow C,H,O - monosaccharide - monomer that is used to make polymers - simple sugar - small, soluble and "osmotically active" - respiratory substrate \rightarrow energy released when bonds are broken. How are glycosidic bonds formed? Removal of water in a condensation reaction . Condensation Reaction. Chemical process in which two molecules ...

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AS Biology Unit 1 - Liz's Biology resources

Unit 1 Unit 1 (B): Joining Amino Acids. Posted on March 10, 2015 March 10, 2015 by tylerrj12. Joining Amino Acids. Condensation Reaction. Amino Acids are joined through a condensation reaction which produces water as well as the fusing the amino acids together. When amino acids join together they are called a poly-peptide. This bond can be formed between two or more amino acids is called a ...

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Biology- Unit 1, Topic 1: Cells as the Basis of Life ...

AS Biology Unit 1 page 2 HGS Biology A-level notes NCM/7/11 Biology Unit 1 Specification Biochemistry Biological Molecules Biological molecules such as carbohydrates and proteins are often polymers and are based on a small number of chemical elements. • Proteins have a variety of functions within all living organisms. The general structure of an amino acid.

Unit 1 Notes - Chemstuff

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Unit 2 Notes- https://www.youtube.com/watch?v=H_XtppdVqYo

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biology unit 1. SETS. 6 sets. ibbioteacher. Core Topic 1 Cell Biology | IB Biology Guide. BESTSELLER. 4.5. 17 Reviews. 1.1: Introduction to Cells. 53 Terms. 1.5: The Origin of Cells. 17 Terms. 1.2: Ultrastructure of Cells. 53 Terms. See all 6 sets in this study guide. 3 sets. Pearson UKSchools. Science GCSE Prep - Biology, Chemistry, and Physics . BESTSELLER. 3.9. 7 Reviews. Pearson GCSE (9-1 ...

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Cells are the basic unit of all living organisms i.e. all living things are made of cells. Cells arise from other cells by a process of cell division. The cell contains information that acts as the instructions for growth. This information is passed on to new cells. There 3 types of microscope used to study cells: light microscope, transmission electron microscope (TEM) and Scanning electron ...

OCR AS Biology : Unit 1 (F212) : Cells, exchange and ...

1(c)(i) Circular DNA / smaller/70S ribosomes / no introns / no histones/proteins associated with DNA; 1 Ignore reference to plasmids 1(c)(ii) 1. Able to respire aerobically; 2. So make (more) ATP/ release (more) energy; 2.2.Reject 'producing energy' unqualified . MARK SCHEME - A-LEVEL BIOLOGY - BIOL1 - JUNE 2016 4 Question Marking Guidance Mark Comments 2(a)(i) C; 1 Ignore name of ...

A-level Biology Mark scheme Unit 01 - Biology and disease ...

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A thorough summary of the content covered within the ultrastructure unit in the OCR Biology A level course. These notes have been handwritten digitally on Notability by a student who attained an A in Biology after completing A levels.

Biology a level unit 1 - ultrastructure - Unit 1 - Stuvia

AQA Unit 1 AS Biology 1. Biology AQA Module 1 2. Disease Pathogens enter the body through: Gas-Exchange system Digestive system Skin Damage Bodily Defenses: Mucus, produced by goblet cells, catches the pathogens and cilia move the mucus out of the trachea, then it's removed If skin is damaged pathogens can enter bloodstream, blood clots stop most pathogens entering the body Enzymes can ...

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