



12 - Excretion

the removal from organisms of the waste products of metabolism, toxic materials and substances in excess of requirement

excretory products: urea, salts, water, carbon dioxide, hormones

nitrogenous waste

formed from excess proteins and amino acids

- amino acids reach the liver
- some are needed, some are in excess
- amino acids contain energy so enzymes divide amino acids and
 - keep the part containing energy, turn it into carbohydrate and store it
 - **deamination:** the removal of the nitrogen-containing part of amino acids to form urea
- urea is dissolved into the blood and excreted

Biology 12 Excretion Study Guide Answers

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