

a2 biology homeostasis coordination pdf

Hey guys, so here are the notes I've written for A2 Biology 2016 papers 4 and 5. There are parts where I've written in pencil so it's fairly hard to read, or other places where I've condensed the words too much with symbols, so it probably isn't easy for other people to understand.

A2 Biology Handwritten Notes 2016 | Biology Notes for A level

Homeostasis in mammals requires complex systems to maintain internal conditions near constant. The kidneys remove wastes from the blood and are the effectors for controlling the water potential of the blood.

#113 The control of blood glucose | Biology Notes for A level

In vertebrates, calcium ions, like many other ions, are of such vital importance to many physiological processes that its concentration is maintained within specific limits to ensure adequate homeostasis. This is evidenced by human plasma calcium, which is one of the most closely regulated physiological variables in the human body. Normal plasma levels vary between 1 and 2% over any given time.

Calcium in biology - Wikipedia

where E_{in} is the calorie of total absorbed energy, E_s is the calorie of stored energy, and E_c is the calorie of consumed energy.. Fats, carbohydrates, and proteins are called energy substances. Proteins serve as carbon and nitrogen sources. Because energy metabolism is essentially a moderate burning process in which CO_2 is generated via decarboxylation under constant temperature and ...

Energy intake, metabolic homeostasis, and human health

Catalytic Bioscavengers Against Toxic Esters, an Alternative Approach for Prophylaxis and Treatments of Poisonings

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PER2 is a protein in mammals encoded by the PER2 gene. PER2 is noted for its major role in circadian rhythms.

PER2 - Wikipedia

The Columbus Instruments Oxymax Economy System is an indirect open circuit calorimeter designed to simultaneously measure metabolic performance of multiple subjects that have similar ventilation needs.

VO2 VCO2 Oxymax Economy - Columbus Instruments International

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The Vascular Endothelium and Human Diseases

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The C. elegans intestine - WormBook

Classification schemes for carcinogenicity based on hazard-identification have become outmoded and serve neither science nor society

Classification schemes for carcinogenicity based on hazard

Human immunodeficiency virus (HIV) is a blood-borne virus typically transmitted via sexual intercourse, shared intravenous drug paraphernalia, and mother-to-child transmission (MTCT), which can occur during the birth process or during breastfeeding.

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