

Janeway Immunobiology Exam Questions

Cortisol "The Humoral Immune Response";. 749–765. When used as medication, it is known as hydrocortisone. New York, NY: Garland Science Taylor & Francis Group. Cortisol is a steroid hormone in the glucocorticoid class of hormones and a stress hormone. Janeway's Immunobiology, 8th ed. Murphy, Kenneth (2012)

Allergic diseases are the conditions that arise as a result of allergic reactions, such as hay fever, allergic conjunctivitis, allergic asthma, atopic dermatitis, food allergies, and anaphylaxis. Symptoms of the above diseases may include red eyes, an itchy rash, sneezing, coughing, a runny nose, shortness of breath, or swelling. Note that food intolerances and food poisoning are separate conditions. Cortisol is produced in many animals, mainly by the zona fasciculata of the adrenal cortex in an adrenal gland. In other tissues, it is produced in lower quantities. By a diurnal cycle, cortisol is released and increases in response to stress and a low blood-glucose concentration. It functions to increase blood sugar through gluconeogenesis, suppress the immune system, and aid in the metabolism of calories. It also decreases bone formation. These stated functions are carried out by cortisol binding to glucocorticoid or mineralocorticoid receptors inside a cell, which then bind to DNA to affect gene expression. Common allergens include pollen and certain foods. Metals and other substances may also cause such problems. Food, insect stings, and medications are common causes of...

Allergy Immunobiology (Fifth ed.). PMID 18608118. 1080/07853890802082096. Janeway C, Travers P, Walport M, Shlomchik M (2001). S2CID 188280. New York and London: Garland An allergy is a specific type of exaggerated immune response where the body mistakenly identifies a ordinarily harmless substance (allergens, like pollen, pet dander, or certain foods) as a threat and launches a defense against it

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