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number of chromosomes when a cell divides by way of meiosis it produces four cells called gametes gametes are more commonly called sperm in cellular respiration is a set of metabolic reactions and processes that take place in the cells of organisms to convert biochemical energy from nutrients into adenosine triphosphate atp and then release waste products cellular respiration is a set of metabolic processes the cells break down the glucose molecule to convert its stored biochemical energy into energy coin adenosine triphosphate atp it occurs within the cells of all living organisms including both prokaryotes and eukaryotes these food sources enter the metabolic pathways of cellular respiration in several different places although cellular respiration is generally thought of as being a degradative process catabolism it can also be synthetic anabolism the making of biomolecules cellular reproduction is a means of creating new life as we mentioned cell reproduction does not always result in the creation of an entirely distinct organism cell reproduction is also responsible for creating supporting cells in multi cellular organisms cellular respiration is a collection of three unique metabolic pathways glycolysis the citric acid cycle and the electron transport chain glycolysis is an anaerobic process while the other two pathways are aerobic cellular respiration is the process through which cells convert sugars into energy to create atp and other forms of energy to power cellular reactions cells require fuel and an electron acceptor which drives the chemical process of turning energy into a useable form cellular processes happen every day for survival form homeostasis to photosynthesis and anaerobic respiration to aerobic respiration however the complexity of cells has throughout development and adulthood the process of cellular differentiation leads cells to assume their final morphology and physiology differentiation is the process by which unspecialized cells become specialized to carry out distinct functions aerobic respiration is the process of producing cellular energy involving oxygen cells break down food in the mitochondria in a long multistep process that produces roughly 36 atp the first step in is glycolysis the second is the citric acid cycle and the third is the electron transport system cell diffusion cellular respiration is a process that all living things use to convert glucose into energy let s see how well you understand this process practice questions which of the following shows the correct order of cellular respiration glycolysis pyruvate oxidation the citric acid cycle and the electron transport chain in the process of cellular respiration what is consumed and what is produced a atp is consumed and oxygen is produced b glucose is consumed and carbon dioxide is produced c water is consumed and atp is produced d carbon dioxide is consumed and water is produced e oxygen is consumed and glucose is produced the cellular orchestra plays something new choksi and reiter took a closer look at how the multiciliation cycle in lung cells differed from the classic cell cycle in dividing stem cells gene by gene a particular gene called e2f7 stood out its expression was middling in stem cells but notably high in maturing multiciliated cells thyroid hormone is the hormone that controls your body s metabolism the process in which your body transforms the food you eat into energy the two main hormones your thyroid releases thyroxine t4 and triiodothyronine t3 collectively make up thyroid hormone your body controls your thyroid hormone t3 and t4 levels through a 19 1 the process of development 19 1 1 embryonic development 19 2 cell division 19 2 1 cell growth and division 19 2 2 frog embryology 19 2 3 cleavage 19 3 cell differentiation 19 3 1 stem cells 19 3 2 embryonic stem cells 19 4 nuclear reprogramming 19 4 1 the organizer 19 4 2 reproductive cloning 19 5 pattern formation bp biological process mf molecular function cc cellular component extended data fig 5 single cell rna seq analysis of prefrontal cortex reveals 10 major cell type clusters a cellular respiration the process by which organisms combine oxygen with foodstuff molecules diverting the chemical energy in these substances into life sustaining activities and discarding as waste products carbon dioxide and water

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