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human blood human blood circulatory system human heart myocardial infarction opening and closing of stomata platelets pulmonary and systemic circulation rate of transpiration red blood cells venous system and white blood cells mitosis is the process by which cells after having duplicated their dna content segregate chromosomes equally into two identical daughter cells mitosis is a very short part of a normal cell cycle usually 24 hours and ranges from 30 minutes to an hour depending on cell type and environmental conditions during this incredibly short amount of time the cell undergoes several complex re arrangements biomechanically and biochemically microtubules 20 nm width dimer polymers play an essential role as the building blocks that provides the cytoskeleton and mitotic spindle for the cell provide the force that segregates chromosomes anaphase to satisfaction of tension and attachment based checkpoints metaphase anaphase transition to elucidate the key role microtubules have in mitosis drugs such as taxol and nocodazole have been used to impart catastrophic global damage to the mitotic spindle and study the effects on cellular division however catastrophic global damage can not answer specific questions regarding highly spatially localized damage and temporally transient damage in elucidating the role of microtubules chromosomes and other key biological structures there is the need for a transient perturbation on the mitotic process to study the effects of transient perturbation on

mitosis a laser microscope system robolase was developed to deliver spatially localized 0.4 μm and temporally specific disruption inside living cells nanosurgery specifically the affect of ablating chromosome tips mitotic spindles and chromatid are examined and the relationship between damaged sites and pathways controlling the progression of the cell cycle and dna damage pathways are examined in conclusion an optically based method for studying mitosis with transient perturbation has been developed and used to determine that chromosome tip disruption affects cytokinetic progression prolonged disruption of mitotic spindle reveals force sensing in the metaphase cnp a in addition to known dna damage proteins in recent years the study of the plant cell cycle has become of major interest not only to scientists working on cell division sensu strictu but also to scientists dealing with plant hormones development and environmental effects on growth the book the plant cell cycle is a very timely contribution to this exploding field outstanding contributors reviewed not only knowledge on the most important classes of cell cycle regulators but also summarized the various processes in which cell cycle control plays a pivotal role the central role of the cell cycle makes this book an absolute must for plant molecular biologists the book class 11 12 biology mcq pdf download college biology ebook 2023 24 mcq questions chapter 1 18 practice tests with answer key grade 11 12

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