







Regulation of cell cycle · The cell cycle is a highly regulated process • Two types of regulatory proteins are involved in cell cycle control: cyclins and cyclindependent kinases (CDKs) · The levels of the four cyclin proteins fluctuate throughout the cell cycle in a predictable pattern · After the cell moves to the next stage of the cell cycle, the cyclins that were active in the previous stage are degraded. Mitotic cyclin-CDKs Cyclin A-CDK Cyclin B-CDK S-phase G. Cyclin Expression Cycle Mid-G1 cyclin-CDKs Cyclin D-CDK4 cyclin-CDK Cyclin A-CDK2 in D-CDK Cvclin A **S-phase** cyclin-CDK Cyclin A-CDK2 S Phase G₂ Phase Mitosi G1 Phase Late-G₁ cyclin-CDK Cyclin E-CDK2 Figure 20-32 Molecular Cell Biology, Shith Edition















