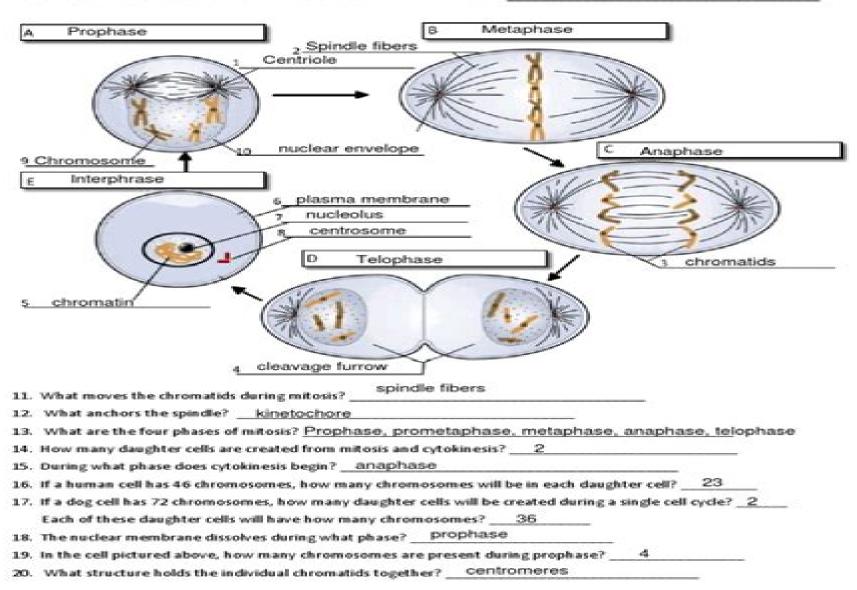
THE CELL CYCLE

Name Jellanah Jaylo



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Mathematical Modelling of the Cell Cycle Stress Response Elahe Radmaneshfar, 2013-10-08 The cell cycle is a sequence of biochemical events that are controlled by complex but robust molecular machinery. This enables cells to achieve accurate self reproduction under a broad range of conditions Environmental changes are transmitted by molecular signaling networks which coordinate their actions with the cell cycle This work presents the first description of two complementary computational models describing the influence of osmotic stress on the entire cell cycle of S cerevisiae Our models condense a vast amount of experimental evidence on the interaction of the cell cycle network components with the osmotic stress pathway Importantly it is only by considering the entire cell cycle that we are able to make a series of novel predictions which emerge from the coupling between the molecular components of different cell cycle phases The model based predictions are supported by experiments in S cerevisiae and moreover have recently been observed in other eukaryotes Furthermore our models reveal the mechanisms that emerge as a result of the interaction between the cell cycle and stress Mathematical Modeling of the Immune System in Homeostasis, Infection and Disease response networks Gennady Bocharov, Burkhard Ludewig, Andreas Meyerhans, Vitaly Volpert, 2020-02-24 The immune system provides the host organism with defense mechanisms against invading pathogens and tumor development and it plays an active role in tissue and organ regeneration Deviations from the normal physiological functioning of the immune system can lead to the development of diseases with various pathologies including autoimmune diseases and cancer Modern research in immunology is characterized by an unprecedented level of detail that has progressed towards viewing the immune system as numerous components that function together as a whole network Currently we are facing significant difficulties in analyzing the data being generated from high throughput technologies for understanding immune system dynamics and functions a problem known as the curse of dimensionality As the mainstream research in mathematical immunology is based on low resolution models a fundamental question is how complex the mathematical models should be To respond to this challenging issue we advocate a hypothesis driven approach to formulate and apply available mathematical modelling technologies for understanding the complexity of the immune system Moreover pure empirical analyses of immune system behavior and the system's response to external perturbations can only produce a static description of the individual components of the immune system and the interactions between them Shifting our view of the immune system from a static schematic perception to a dynamic multi level system is a daunting task It requires the development of appropriate mathematical methodologies for the holistic and quantitative analysis of multi level molecular and cellular networks Their coordinated behavior is dynamically controlled via distributed feedback and feedforward mechanisms which altogether orchestrate immune system functions The molecular regulatory loops inherent to the immune system that mediate cellular behaviors e g exhaustion suppression activation and tuning can be analyzed using mathematical categories such as multi stability switches ultra sensitivity

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Machine learning in radiation oncology Wei Zhao, Ye Zhang, Jia Wu, Xiaomeng Li, Yuming Jiang, 2023-04-05 **The role of immunophenotype in tumor immunotherapy response** Fu Wang, Jian Song, Chuyan Wu, Jimei Wang, 2023-07-03

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Systems Biology of Tumor Dormancy Heiko Enderling, Nava Almog, Lynn Hlatky, 2012-11-09 This volume is based on the Workshop on Systems Biology of Tumor Dormancy meeting held July 25th to July 28th 2011 The first annual CCSB workshop brought together biologists clinicians mathematicians and computer scientists to discuss various aspects of tumor dormancy and develop novel mathematical computational models with the keynote speakers Specific topics included the angiogenic switch immune system interactions cancer stem cells and signaling

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