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Biology Brooker 2nd Edition Study Guide

Catherine Kendig



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diagnosis and understanding of disease mechanisms It explores the applications of system biology in infectious diseases including host pathogen interaction and the identification of targets for new therapeutics and intervention strategies It covers the use of system biology for understanding and treating metabolic disorders towards personalized and precision medicine The book further discusses the systems biology approaches for understanding the mechanisms of tumor progression and designing more effective cancer therapies The chapter also reviews the current strategies in autoimmune disease treatment and highlights the opportunity that systems biology represents for the development of better and safer treatments Importantly the book discusses the current state of the systems level understanding of diseases and both the therapeutic and adverse mechanisms of drug actions using system biology approaches Cutting across the disciplines this book is a valuable source for researchers in genetics molecular biology cell biology microbiology and biomedical sciences

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