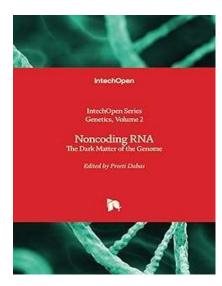


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Noncoding RNA - Dark Matter of Genome



autor Preeti Dabas v pevné vazbě, 202 stran vyd. IntechOpen, VIII/2024 ISBN 9781803567105

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Description

Noncoding RNAs (ncRNAs) are the "dark matter" of the genome, occupying vast regions yet not coding for proteins. Despite their elusive nature, they play a pivotal role in regulating gene expression and cellular processes and participate in chromatin remodeling and signal transduction. Crucial in development and disease, ncRNAs influence embryogenesis, cell differentiation, and cancer progression. Their potential in diagnostics and therapeutics marks a revolutionary frontier in genetic and medical research. This book provides a comprehensive overview of the regulatory and developmental roles of ncRNAs, from gene regulation in plants to their crucial functions in embryogenesis and cancer, and their potential in diagnostics and therapeutics.