



In Search of Mechanisms Discoveries across the Life Sciences

By Lindley Darden

University Of Chicago Press. Paperback. Book Condition: New. Paperback. 256 pages. Dimensions: 8.9in. x 6.0in. x 0.7in. Neuroscientists investigate the mechanisms of spatial memory. Molecular biologists study the mechanisms of protein synthesis and the myriad mechanisms of gene regulation. Ecologists study nutrient cycling mechanisms and their devastating imbalances in estuaries such as the Chesapeake Bay. In fact, much of biology and its history involves biologists constructing, evaluating, and revising their understanding of mechanisms. and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; and 160; With In Search of Mechanisms, Carl F. Craver and Lindley Darden offer both a descriptive and an instructional account of how biologists discover mechanisms. Drawing on examples from across the life sciences and through the centuries, Craver and Darden compile an impressive toolbox of strategies that biologists have used and will use again to reveal the mechanisms that produce, underlie, or maintain the phenomena characteristic of living things. They discuss the questions that figure in the search for mechanisms, characterizing the experimental, observational, and conceptual considerations used to answer them, all the while providing examples from the history of biology to highlight the kinds of evidence and...



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