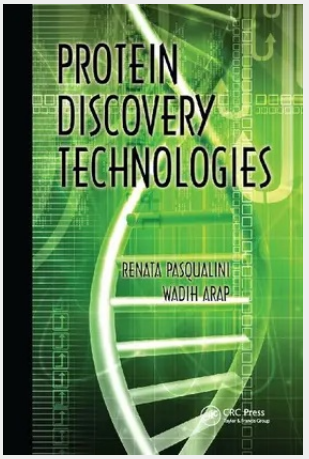
Pasqualini / Arap

Protein Discovery Technologies



A True Insider's Guide to the Field – Then and Now Until now, there has not been a book that effectively addresses the historical basis of protein discovery. Featuring contributions from a distinguished international panel of experts, Protein Discovery Technologies elucidates the principles, techniques, strategies, and broad range of applications of protein discovery by documenting the often untold stories and personal accounts of the contributors' past scientific achievements. Incorporates Short, Personal Discovery Vignettes Rather than an exhaustive field analysis, this globally pertinent resource presents in-depth discussions of various methods for protein discovery, including bioinformatics, interaction cloning, protein purification, phage display, non-primate models, and chemical targeting. It also explores biological themes through the examination of cell death, angiogenesis, hemostasis, development, signal transduction, transcriptional control, cell cycle control, neurobiology, and quality control. This readily accessible resource discusses an array of interesting topics, including: - Tumor necrosis factors - The origin of interferon as an angiogenesis inhibitor - In vivo combinatorial mapping of vascular zip codes - Extracellular matrix degradome as regulators of angiogenesis and tumor growth - A matricellular protein prototype - The use of RING finger proteins as E3 Ubiquitin Ligases Whereas most books tend to be more specialized, this book contains a broad view of the protein discoveries in many different fields, making Protein Discovery Technologies a valuable reference for today's researchers, both the new and more seasoned, who are seeking a newfound perspective or a deeper understanding of this exciting field.

Featuring contributions from leading experts, Protein Discovery Technologies provides comprehensive coverage of the principles, techniques, strategies, and broad range of applications of protein discovery. This volume presents in-depth discussions of various methods for protein discovery, including bioinformatics, interaction cloning, protein purification, phage display, non-primate models, and chemical targeting. It also explores biological themes through the examination of cell death, angiogenesis, hemostasis, development, signal transduction, transcriptional control, cell cycle control, neurobiology, and quality control.

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