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Titolo	Unravelling Cancer Signaling Pathways: A Multidisciplinary Approach // edited by Kakoli Bose, Pradip Chaudhari
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ISBN	981-329-816-2
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (xviii, 583 pages) : illustrations
Disciplina	572.865
Soggetti	Cancer research Microarrays Gene expression Oncology Proteins Cell biology Cancer Research Gene Expression Oncology Protein-Ligand Interactions Cell Biology Marcadors tumorals Oncologia Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cancer Biology and its Treatment Modalities: A Brief Historical Perspective -- Emerging Peptide Technologies in Cancer Therapy -- Protein Palmitoylation in Cancer -- Advances in Mass Spectrometry-Based Proteomics and its Application in Cancer Research -- Apoptosis in Cancer Cell Signaling and Current Therapeutic Possibilities -- Integration of Evolutionary Theory into Cancer Biology and Caspase Signaling -- Emerging Epigenetic Targets and their Implications in Cancer Therapy -- Anti-cancer Immunotherapy: Prospects and Challenges -- Preclinical Animal Models for Cancer Research and Drug

Discovery -- Dysregulated Signaling Pathways in Cancer: Approaches and Applications -- Analysing Cancer Signalling Pathways: A Structural Bioinformatics Approach -- Targeting Cancer from a Structural Biology Perspective -- Applications of NMR in Cancer Research -- Proteomics for Cancer: Approaches and Challenges -- Applications of Microarray in Cancer Cell Signaling Pathways -- Nanotechnology: The Future for Cancer Treatment -- Preclinical Non-invasive Imaging in Cancer Research and Drug Discovery: An Overview -- Genomic Applications and Insights in Unravelling Cancer Signalling Pathways -- Applications of Computational Systems Biology in Cancer Signaling Pathways -- New Emerging Molecules in Cancer Research Which Hold Promise in Current Era.

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Sommario/riassunto

Unravelling the intricate cell signalling networks and their significance in cancer poses major intellectual challenge. Keeping this in mind, the book aims at understanding the mechanism of action of different proteins and their complexes in the cancer signalling pathways. Hence, the proposed book that comprises 20 chapters provides a comprehensive introduction on cell signalling, its alterations in cancer, molecules that have been popular targets as well as the ones that are emerging as targets. In addition, it discusses different forms of therapy that are coming up for its treatment. Other than that, a major portion of the book is focused on studying different disciplines at the interface of biology and other areas of science that are being used to understand cancer biology in depth.

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