

1. Record Nr.	UNINA9910765539103321
Autore	Anil Sukumaran
Titolo	Cytotoxicity : Understanding Cellular Damage and Response / / Sukumaran Anil, Mahmoud Ahmed Mansour
Pubbl/distr/stampa	London, England : , : IntechOpen, , 2023
ISBN	1-80356-246-3
Descrizione fisica	1 online resource (244 pages) : illustrations
Disciplina	615.907
Soggetti	Toxicity testing Cellular immunity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Table of Contents -- 1. Cytotoxicity and Cell Viability Assessment of Biomaterials -- 2. Toxicity Evaluation and Biocompatibility of Nanostructured Biomaterials -- 3. Colorimetric Cytotoxicity Assays -- 4. Cellular Cytotoxicity and Multiple Sclerosis -- 5. Cytotoxicity Studies of Fruit-Extracted Metal Nanostructures -- 6. Cytotoxic Activity of Secondary Metabolite Compounds from Myanmar Medicinal Plants -- 7. Cancer Immunotherapy and Cytotoxicity: Current Advances and Challenges -- 8. Trypan Blue Exclusion Assay, Neutral Red, Acridine Orange and Propidium Iodide -- 9. In Vitro Cytotoxic and Apoptosis Induction Potential of Two Plant Extracts on HeLa Cells -- 10. Non-Encapsulated <i>Trichinella</i> Species: <i>T. pseudo spiralis</i> , <i>T. papuae</i> and <i>T. zimbawensis</i> -- 11. Anticancer Functions of Pyridine Heterocycles -- 12. Comparison of the Pharmacokinetics of Eflornithine after Application of Eflornithine Cream and "Eflornithine: Armenicum" Composition in Rates -- 13. Trending Advancements in Technologies Pertinent to Therapeutic Pharmacodynamics.
Sommario/riassunto	In the dynamic world of cellular biology, the intricate dance of life and death plays out through the lens of cytotoxicity. Delve deep into cellular responses' mysteries, where threats and defenses wage a microscopic war, influencing the broader landscape of health and disease. This authoritative volume on cytotoxicity encapsulates the breadth and depth of current knowledge, illuminating pathways that have been meticulously charted and those yet to be discovered. Each

chapter, penned by experts in the field, unveils the molecular intricacies, external triggers, and translational potential of understanding cellular damage. Key Highlights: •Comprehensive explorations of molecular mechanisms •Cutting-edge methodologies in cytotoxic research •Insight into the profound implications for drug development and disease therapeutics Whether you are a seasoned researcher, an aspiring scientist, or an avid learner, this book promises to challenge, enlighten, and inspire. As the boundary between known territories and uncharted frontiers blurs, *Cytotoxicity - Understanding Cellular Damage and Response* is your definitive guide to a world where cellular responses hold the keys to groundbreaking discoveries. This book is an indispensable resource for anyone eager to navigate the complexities of cell damage and defense. Join us on a journey into the cellular realm, where every page turns a new chapter in understanding, innovation, and hope.
