1. Record Nr. UNINA9910984587203321

Autore	Hickey Anthony J
Titolo	Pharmaceutical Powder and Particles / / by Anthony J. Hickey, Stefano Giovagnoli
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031836718 3031836715
Edizione	[2nd ed. 2025.]
Descrizione fisica	1 online resource (167 pages)
Collana	AAPS Introductions in the Pharmaceutical Sciences, , 2522-8358 ; ; 60
Altri autori (Persone)	GiovagnoliStefano
Disciplina	615
Soggetti	Pharmacology Pharmacy Drug delivery systems Drug Delivery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Importance of Finely Divided Solids in Pharmaceutical Dosage Forms -- Solid State Chemistry -- Crystallization -- Physical Properties -- Particle Size and Size Distribution -- Particle Size Characterization -- Fundamental of Particle Interactions -- Powder and Particle Dependent Traditional Manufacturing Processes (unit operations) -- Powder and Particle Dependent Biopharmaceutical Processes -- Recent and Evolving Manufacturing Processes -- Principles of Quality by Design -- General Discussion.
Sommario/riassunto	This book in the AAPS book series concisely reviews important aspects of powder and particle systems and the critical quality attributes that should be used as a guide to future developments intended to maximize the control of product quality and performance. Hickey and Giovagnoli have written an essential book for any scientists involved in powder or particle research and manufacturing. It is appropriate for those just entering the field or as a rapid reference for the experienced pharmaceutical scientist. The authors have both academic and industrial experience, and the coverage includes solid state chemistry; crystallization; physical processes; particle size and distribution; particle interaction; manufacturing processes; quality by design; and a

	general discussion of the industry. Pharmaceutical Powder and Particles is intended to concisely review important aspects of powder and particle systems and the critical quality attributes that should be used as a guide to future developments intended to maximize the control of product quality and performance. Innovation in manufacturing has expanded the range of options available for solid dosage form manufacture while continuing to rely on first principles of solid-state chemistry and characterization methods for powders and particles. In this new edition, the authors have expanded on existing chapters and added sections on new developments in the recent and evolving manufacturing processes including additive manufacturing technologies, controlled crystallization, spray-freeze-drying technology, and more. The editors have also comprehensively updated the references throughout the entire book. .

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Record Nr.	UNINA9910367564903321
Autore	Brosh Robert M
Titolo	DNA Replication Stress / Robert M. Brosh
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2019 Basel, Switzerland : , : MDPI, , 2019
ISBN	9783039213900 3039213903
Descrizione fisica	1 electronic resource (368 p.)
Soggetti	Biology, life sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This Special Issue of International Journal of Molecular Sciences (IJMS) is dedicated to the mechanisms mediated at the molecular and cellular levels in response to adverse genomic perturbations and DNA replication stress. The relevant proteins and processes play paramount roles in nucleic acid transactions to maintain genomic stability and

cellular homeostasis. A total of 18 articles are presented which encompass a broad range of highly relevant topics in genome biology. These include replication fork dynamics, DNA repair processes, DNA damage signaling and cell cycle control, cancer biology, epigenetics, cellular senescence, neurodegeneration, and aging. As Guest Editor for this IJMS Special Issue, I am very pleased to offer this collection of riveting articles centered on the theme of DNA replication stress. The blend of articles builds upon a theme that DNA damage has profound consequences for genomic stability and cellular homeostasis that affect tissue function, disease, cancer, and aging at multiple levels and through unique mechanisms. I thank the authors for their excellent contributions, which provide new insight into this fascinating and highly relevant area of genome biology.