

1. Record Nr.	UNINA9910743276903321
Titolo	Microstructure and Properties in Metals and Alloys
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2023
Descrizione fisica	1 online resource (364 p.)
Soggetti	History of engineering and technology Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Microstructure design is key in targeting the desired material's properties. Contributions related to microstructure design and characterization are collected in this Topic, together with their relation to the mechanical, fatigue, wear and corrosion resistance of different kinds of metals and alloys. The goal of this Topic is to present contributions related to the relationship between the microstructure and properties of metals and alloys for different applications, including aeronautical and aerospace applications. Different process routes are considered (thermo-mechanical routes and additive manufacturing) in this Topic. Contributions related to welding are also included.

2. Record Nr.	UNINA9911049153903321
Autore	M. Hamdy Nadia
Titolo	From (Epi)genetics-to-Precision (E2P) : Non-protein Coding RNAs (ncRNAs) a Step-toward Precision Medicine // edited by Nadia M. Hamdy, Ahmed S. Sultan, John Frederick Kennedy
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-032-08530-6
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (653 pages)
Collana	Subcellular Biochemistry, , 2542-8810 ; ; 114
Disciplina	572.88
Soggetti	Non-coding RNA Epigenetics Molecular biology RNA interference Non-coding RNAs Molecular Biology RNA Interference
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Epigenetic Modulation of Immunity: Mechanisms, Implications, and Emerging Therapeutic Horizons; a Step-toward Epigenetics-to-Precision -- Chapter 2. The intricate interplay of noncoding RNAs and the gut microbiome in gastrointestinal and endocrine-related cancers -- Chapter 3. Mapping the non-coding epimutation in breast cancer; a Step-toward Epigenetics-to-Precision -- Chapter 4. Unlocking the Epigenetic Landscape of Colorectal Cancer; a Step-toward Epigenetics-to-Precision -- Chapter 5. Non-coding RNAs: A Novel Frontier in Various Liver Cancer Research and Therapy; Implications for Precision Oncology -- Chapter 6. The Epigenetics Angle in Precision Medicine Era for Blood Disorders Advancements -- Chapter 7. A Comprehensive Guide on Epigenetics Precision Role for Uncommon "Rare" Cancers Biology and Treatment Frontiers -- Chapter 8. An Overview of Targeting Some Cancer Hallmarks with Plant PolyPhenols; a Step-toward Precision.
Sommario/riassunto	This book explores the intricate world of epigenetics and its pivotal

role in precision medicine and the identification of epigenetic biomarkers for patient stratification, highlighting the importance of non-coding RNAs (ncRNAs), DNA methylation and histone modifications. The book discusses various epigenetic drugs, such as HDAC inhibitors and DNA methyltransferase inhibitors, targeting specific pathways to provide new therapeutic avenues. An important part in each chapter is dedicated to in silico analysis in epigenetics, including genome-wide association studies to identify correlations between genetic variations and epigenetic changes. It also covers computational models that simulate the effects of epigenetic modifications on cellular behaviour, providing insights into clinical trials with prodrugs in various types of cancer. The book focuses on the crucial role of gut microorganisms in hormone metabolism, synthesis of bioactive compounds and maintenance of the immune response, influencing endocrine homeostasis. It explores the interplay between gut microbiota, ncRNAs and endocrine regulation, focusing on endocrine-related cancers. The impact of the gut microbiome on host health through epigenetic changes is examined in depth, with a particular focus on the role of ncRNAs in host-microbe interactions. Advances in liver cell epigenetics are discussed, showing how epigenetic changes contribute to liver disorders and the potential for epigenetic-based therapeutic approaches. The book also addresses the impact of epigenetic modifications in colorectal cancer and breast cancer highlighting their role in inflammation, vascular function and lipid metabolism. Special attention is given to the importance of epigenetics and precision medicine in the context of rare cancers, blood disorders and immune-related diseases. The book reviews current literature, clinical trials and case studies, providing an overview of therapeutic potentials and innovations. It emphasises the importance of patient-centred approaches, collaborative research networks and ethical considerations in advancing the field. This book synthesises findings on the contributions of epigenetics and precision medicine to the treatment of various diseases, advocating interdisciplinary research and continuing education to improve patient care and outcomes.

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