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Nota di contenuto	Intro -- Contents -- About the Editors -- Functional Biomaterials: Drug Delivery and Biomedical Applications Polymeric Micelle in Drug Delivery Applications -- 1 Introduction -- 2 Types of PMs -- 3 Synthesis Materials, Methods, and Characterization of Polymeric Micelles -- 3.1 Materials for the Synthesis of PMs -- 3.2 Preparation Methods of PMs -- 3.2.1 Direct Dissolution -- 3.2.2 Indirect Dissolution -- 3.3 Characterization of PMs -- 4 Targeting Approaches of PMs -- 4.1 Passive Targeting -- 4.2 Active Targeting -- 5 Stimuli-Based Drug Release -- 5.1 pH-Sensitive PMs -- 5.2 Thermal-Sensitive PMs -- 5.3 Redox-Sensitive PMs -- 5.4 Light-Sensitive PMs -- 6 Drug Delivery Applications -- 6.1 Anticancer Drug Delivery -- 6.2 Gene Delivery -- 6.3 Immuno Micelles -- 6.4 Ocular Drug Delivery -- 6.5 Oral Drug Delivery -- 7 Conclusion -- References -- pH-Responsive Biomaterials in Drug Delivery -- 1 Introduction -- 2 Importance of pH as a Stimulus for Drug Release -- 3 Polymeric Carrier as Biomaterial. -- 3.1 Properties of pH-Responsive Polymers -- 4 Classification of Polymeric Carrier as Biomaterial -- 4.1 Natural Polymers -- 4.1.1 Alginates -- 4.1.2 Chitosan -- 4.1.3 Pullulan -- 4.1.4 Carboxymethylcellulose -- 4.1.5 Hyaluronic Acid -- 4.1.6 Starch and Dextran -- 4.1.7

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