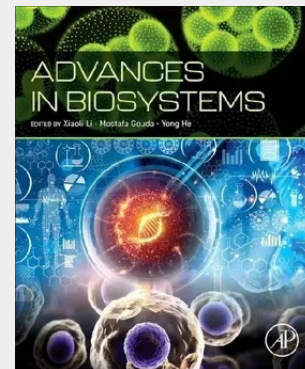


Advances in Biosystems

Advances in Biosystems investigates the latest techniques for evaluating, detecting, measuring, and enhancing the functional bioactivities, chemical composition, and physicochemical characteristics of animal, plant, and environmental biosystems. This comprehensive, interdisciplinary handbook provides detailed explanations for tracking functional molecules during various biological processes, along with practical methodologies for both laboratory and industrial applications. Sections cover cellular biosystems advances, including single-cell microsystems and tissue system biology of plants and animals, alongside biomass microsystems and agricultural biosystems advances, exploring innovations in animal, plant, and crop biosystems, as well as food hydrocolloids and biotechnological advancements. Additional content addresses environmental biosystems, discussing colloidal biosystems, nano and micro-biosystems, chemical toxicology, eco-friendly biosystems, and green chemistry, pharmaceutical biosystems, highlighting medical biosystems, human cellular metabolomics, nutrigenomics, and precision medicine applications. A final section presents in-depth analytical methods for tracking these various biosystems, including high-throughput technologies, deep learning, machine learning, bioinformatics models, and spectroscopic and sensor-based techniques.

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