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OMICS: Applications in Biomedical, Agricultural, and Environmental Sciences

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With the advent of new technologies and acquired knowledge, the number of fields in omics and their applications in diverse areas are rapidly increasing in the postgenomics era. Such emerging fields—including pharmacogenomics, toxicogenomics, regulomics, spliceomics, metagenomics, and environomics—present budding solutions to combat global challenges in biomedicine, agriculture, and the environment. **OMICS: Applications in Biomedical, Agricultural, and Environmental Sciences** provides valuable insights into the applications of modern omics technologies to real-world problems in the life sciences. Filling a gap in the literature, it offers a broad, multidisciplinary view of current and emerging applications of omics in a single volume.

Written by highly experienced active researchers, each chapter describes a particular area of omics and the associated technologies and applications. Topics covered include:

- Proteomics, epigenomics, and pharmacogenomics
- Toxicogenomics and the assessment of environmental pollutants
- Applications of plant metabolomics
- Nutrigenomics and its therapeutic applications
- Microalgal omics and omics approaches in biofuel production
- Next-generation sequencing and omics technology for transgenic plant analysis
- Omics approaches in crop improvement
- Engineering dark-operative chlorophyll synthesis
- Computational regulomics
- Omics techniques for the analysis of RNA splicing
- New fields, including metagenomics, glycomics, and miRNA
- Breast cancer biomarkers for early detection
- Environomics strategies for environmental sustainability

This timely book explores a wide range of omics application areas in the biomedical, agricultural, and environmental sciences. Throughout, it highlights working solutions as well as open problems and future challenges. Demonstrating the diversity of omics, it introduces readers to state-of-the-art developments and trends in omics-driven research.

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