



Biology of inositols and phosphoinositides /

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Monografía

This volume describes the current status of the biology of inositols and phosphoinositides with an emphasis on the development in the area since the publication of volume 26 in 1996 in this series. The progress made in dissecting the genetics, structure and evolution of the seminal enzyme for synthesis of inositol in the biological system has driven the understanding of the enzyme forward. With the current genomic and proteomic tools in place the new role of inositols, inositol phosphates and phosphoinositides in cell signaling or stress response has been explored. These advances are described

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Contenido: Structure and Nomenclature of Inositol Phosphates, Phosphoinositides, and Glycosylphosphatidylinositols -- Inositol and Plant Cell Wall Polysaccharide Biogenesis -- Functional Genomics of Inositol Metabolism -- Genetics of Inositol Polyphosphates -- Inositol in Bacteria and Archaea -- Regulation of 1D-myo-Inositol-3-Phosphate Synthase in Yeast -- The Structure and Mechanism of myo-Inositol-1-Phosphate Synthase -- Phosphoinositide Metabolism: Towards an Understanding of Subcellular Signaling -- Cracking the Green Paradigm: Functional Coding of Phosphoinositide Signals in Plant Stress Responses -- Inositols and Their Metabolites in Abiotic and Biotic Stress Responses -- Inositol Phosphates and Phosphoinositides in Health and Disease -- Mammalian Inositol 3-phosphate Synthase: Its Role in the Biosynthesis of Brain Inositol and its Clinical Use as a Psychoactive Agent -- Evolutionary Divergence of L-myo-Inositol 1-Phosphate Synthase: Significance of a "Core Catalytic Structure."

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