Biological Aspects of Mucopolysaccharide Metabolism

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INTRODUCTION

This afternoon's program provides a pertinent continuation of some of the topics covered this morning, and relates particularly to some aspects of synthesis and degradation of proteinpolysaccharides. The three speakers this afternoon can touch on only selected aspects of some of the following problems: The stimuli that induce differentiation of primitive connective tissue cells into more mature cells; the mechanical apparatus and enzyme systems peculiar to the cell that permit it to synthesize its particular set of extracellular products; the passage of these products from the cell interior to the external environment; the interaction of these products outside the cell to form the matrix characteristic of the whole tissue; and the turnover of these macromolecules, *i.e.* the events leading to their degradation and resynthesis, and the effects of hormones and proteolytic or hydrolytic enzymes on turnover.

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