



# **Molecular Biophysics of the Extracellular Matrix**

## **(Molecular Biology and Biophysics)**

*Struther Arnott, D. A. Rees, E. R. Morris*

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Biopolymers, such as proteins and nucleic acids have been subjected to a rational succession of structural studies in which the determination of chemical compositions, link ages, and sequences is followed by investigations of molecular architecture and interactions. By the end of the 1960s the covalent structures of glycosaminoglycans and proteoglycans had been defined both within the carbohydrate chains and in respect to their linkages to protein. The scene was therefore set for successful probing of three dimensional shapes and intermolecular associations. Fortunately, during the 1970s appropriate physical methods were themselves greatly increasing in power. Consequently much progress has been made using X-ray diffraction analysis of hydrated films, nuclear magnetic resonance spectroscopy, and chromatographic methods for investigation of molecular interactions in solution. We now have a great deal of information about molecular shapes, their sensitivity to environment (especially associated cations), and their modes of interaction that could be relevant to supermolecular assemblies in biological milieux. For these reasons we judged that it would be timely to distil the main conclusions from this phase of research to prepare for the next, which will involve detailed study of the interplay between biological function and molecular structure. The idea for this volume emerged from a workshop meeting at Colworth sponsored by the Biochemical Society.

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