

SOLUTION STRUCTURE OF PROTEIN-RNA COMPLEXES AND GLYCOPROTEINS USING NMR SPECTROSCOPY

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Almost 20% of genetic diseases originate from a post-transcriptional misregulation of gene expression. In this seminar, the three dimensional structures of two protein-RNA complexes involved in post-transcriptional gene regulation, namely RsmE and Vts1p, will be presented. The implications of these structures for translational control will be discussed. A new method to obtain segmentally labeled glycoproteins, together with the application of this method to the determination of glycoprotein structures, will also be described.