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Sugars are familiar as vital sources of energy. Yet the biological importance of the sugars extends well beyond their value as cellular fuels.

Introduction to Glycobiology reveals the true impact of sugars, or glycans, on biological systems, explaining their function at the molecular, cellular, and organismal level. The two-part structure first leads you through the essential principles and concepts upon which the discipline is grounded, before exploring the diverse roles of sugars throughout biological systems, such as in development, cell signalling, and protein trafficking. The importance of glycobiology to disease is emphasized throughout to demonstrate how an understanding of the link between the two is enabling the development of new therapeutic strategies.

New to this edition:

- Updated content to reflect the current state of the field: new chapter on cell biology of glycosylation, expanded coverage of congenital disorders, proteoglycans, influenza virus, muscular dystrophy, and cancer
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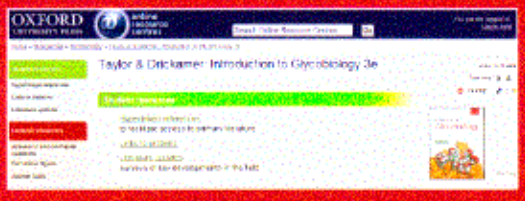

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