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Chemical Diversity in the Sialic Acids and Related α -Keto Acids: An Evolutionary Perspective—*Takashi Angata and Ajit Varki*, University of California at San Diego.

Thermodynamic Studies of Lectin–Carbohydrate Interactions by Isothermal Titration Calorimetry—*Tarun K. Dam and C. Fred Brewer*, Albert Einstein College of Medicine.

The Synthesis of Glycoproteins—*Benjamin G. Davis*, University of Oxford.

Carbohydrate-Based Mimetics in Drug Design: Sugar Amino Acids and Carbohydrate Scaffolds—*Sibylle A. W. Gruner, Elsa Locardi, Elisabeth Lohof, and Horst Kessler*, Technische Universität München.

Recent Advances in the Synthesis of Sialic Acid Derivatives and Sialylmimetics as Biological Probes—*Milton J. Kiefel and Mark von Itzstein*, Griffith University (Gold Coast Campus).

Recent Developments of Transition-State Analogue Glycosidase Inhibitors of Nonnatural Product Origin—*Vinni H. Lillelund, Henrik H. Jensen, Xifu Liang, and Mikael Bols*, Aarhus University.

The Cluster Glycoside Effect—*Joseph J. Lundquist and Eric J. Toone*, Duke University.

Structural Investigations of Glycoconjugates at High Sensitivity—*Yehia Mechref and Milos V. Novotny*, Indiana University.

Glycosylation and the Complement System—*Gayle E. Ritchie, Beryl Moffat, Robert B. Sim, B. Paul Morgan, Raymond A. Dwek, and Pauline M. Rudd*, University of Oxford, and University of Wales.

Protein *N*-Glycosylation along the Secretory Pathway: Relationship to Organelle Topography and Function, Protein Quality Control, and Cell Interactions—*Jürgen Roth*, University of Zurich.

Conformational Studies of Oligosaccharides and Glycopeptides: The Complementarity of NMR, X-ray Crystallography, and Molecular Modeling—*Mark R. Wormald, Andrei J. Petrescu, Ya-Lan Pao, Ann Glithero, Tim Elliott, and Raymond A. Dwek*, Oxford University, Institute of Biochemistry of the Romanian Academy, and John Radcliffe Hospital.

The Emerging Significance of *O*-GlcNAc in Cellular Regulation—*Natasha E. Zachara and Gerald W. Hart*, The Johns Hopkins University Medical School.