

ANIMAL LECTINS

A Functional View

Lectins and their ligands are under a heavy microscope due to their potential applications to pharmacology, immunology, cancer therapy, and agriculture. With growing interest in the glycobiology field, the body of research related to lectin roles has grown at an explosive rate, particularly in the past 20 years. *Animal Lectins: A Functional View* presents the most up-to-date analysis of these carbohydrate-binding, and potentially lifesaving, proteins in one comprehensive volume.

This standard-setting resource presents new insights into the biological roles of most animal lectins, including their function in infection prevention through innate immunity. It also discusses such lectin behaviors as:

- Glycoprotein folding
- Sorting and targeting
- Cell adhesion
- Embryogenesis
- Cell-cell interactions and signaling

Under the editorial guidance of two leading protein chemistry experts and with contributions from well-recognized field authorities, this book logically and systematically discusses both intracellular and extracellular lectin functions. Describing the structural basis of protein-carbohydrate interactions, this book:

- Examines lectins that participate in glycoprotein folding, sorting and secretion, targeting, degradation, and clearance
- Includes a CD with more than 70 color illustrations
- Studies lectins that are involved in cell-cell interactions, signaling, and transport
- Contains a 16-page color insert
- Addresses lectins that are involved in the recognition and effector functions in innate and adaptive immunity
- Presents recently discovered lectins and lectin families

This text is an essential springboard for future field research and a clear and concise knowledge base that glycobiology, biochemistry, and immunology researchers cannot afford to be without.

9780849372698 生物科学 (ZD-N-BT)



RMB:1229.00

2008-12

教图公司图书进口部



CRC Press
Taylor & Francis Group
an informa business
www.crcpress.com

6000 Broken Sound Parkway, NW
Suite 300, Boca Raton, FL 33487
270 Madison Avenue
New York, NY 10017
2 Park Square, Milton Park
Abingdon, Oxon OX14 4RN, UK

7269

ISBN: 978-0-8493-7269-8



www.crcpress.com