

Contents

Preface	v
List of Contributors	ix
I BASIC PRINCIPLES OF IMMUNITY	
1 Humoral Immunity <i>Peter L. Nara</i>	3
2 Some Basic Cellular Immunology Principles Applied to the Pathogenesis of Infectious Diseases <i>R. Pat Bucy and Paul Goepfert</i>	23
3 Immune Defense at Mucosal Surfaces <i>Prosper N. Boyaka and Jerry R. McGhee</i>	39
II MOLECULAR BASIS FOR IMMUNOTHERAPY	
4 Production of Immunoglobulins and Monoclonal Antibodies Targeting Infectious Diseases <i>Renate Kunert and Hermann Katinger</i>	63
5 Dendritic Cells: <i>Their Role in the Immune Response to Infectious Organisms and Their Potential Use in Therapeutic Vaccination</i> <i>Smriti K. Kundu-Raychaudhuri and Edgar G. Engleman</i>	99
6 Cytokines, Cytokine Antagonists, and Growth Factors for Treating Infections <i>Barbara G. Matthews</i>	117
7 Principles of Vaccine Development <i>Constantin A. Bona</i>	129
III IMMUNOTHERAPY FOR HIV INFECTION	
8 Immunopathogenesis of HIV Infection <i>Lawrence M. Fox</i>	151
9 Immune Reconstitution with Antiretroviral Chemotherapy <i>Elizabeth Connick</i>	163
10 Active Immunization as Therapy for HIV Infection <i>Spyros A. Kalams</i>	181

11 Passive Immunotherapy for HIV Infection
Jeffrey M. Jacobson 199

12 Host Cell-Directed Approaches for Treating HIV and Restoring Immune Function
J. Michael Kilby and R. Pat Bucy 221

13 Gene Therapy for HIV-1 Infection
Ralph Dornburg and Roger J. Pomerantz 237

IV IMMUNOTHERAPY FOR INFECTIOUS DISEASES OTHER THAN HIV

14 Immunotherapy for Viral Infections Other than HIV
Michelle Onorato and Richard B. Pollard 251

15 Immunotherapy for Virus-Associated Malignancies
Uluhan Sili, Helen Heslop, and Cliona M. Rooney 259

16 Immunotherapy of Bacterial Infections and Sepsis
Sam T. Donta 275

17 Immunotherapy for Tuberculosis and Other Mycobacterial Infections
Robert S. Wallis and John L. Johnson 283

18 Immunotherapy for Fungal Infections
Arturo Casadevall 303

Index 323



<http://www.springer.com/978-0-89603-669-7>

Immunotherapy for Infectious Diseases

Jacobson, J.M. (Ed.)

2002, 344 p. 42 illus., Hardcover

ISBN: 978-0-89603-669-7

A product of Humana Press