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4.4 Chemokines, Integrins and Concurrency in Leukocyte Recruitment4.5 The Way Ahead; References; 5 Mechanisms of Leukocyte Transmigration: Role of Immunoglobulin Superfamily Molecules; 5.1 Introduction; 5.2 Leukocyte Migration Through Endothelial Cells; 5.3 Endothelial Cell Junctional Molecules; 5.4 Role of Immunoglobulin Superfamily Cell Adhesion Molecules in Leukocyte Transmigration; 5.5 Intercellular Adhesion Molecules; 5.5.1 Structure, Ligands, and Expression Profile; 5.5.2 Role in Leukocyte Transmigration; 5.5.3 Signaling by ICAM-1 and ICAM-2; 5.6 Junctional Adhesion Molecules 5.6.1 Structure, Ligands, and Expression Profile5.6.2 Role in Leukocyte Transmigration; 5.6.3 Signaling by JAMs; 5.7 PECAM-1 (CD31); 5.7.1 Structure, Ligands, and Expression Profile; 5.7.2 Role in Leukocyte Transmigration; 5.7.3 Signaling by PECAM-1; 5.8 Role of Additional Molecules in Regulation of Leukocyte Transmigration; 5.8.1 T Cell Receptor; 5.8.2 CD99; 5.9 Summary and Future Directions; Acknowledgments; References; 6 The Endothelial Cell Basement Membrane and Its Role in Leukocyte Extravasation; 6.1 Introduction; 6.2 Extracellular Matrix of Blood Vessels; 6.2.1 Basement Membranes 6.2.2 Laminins6.3 Function of Endothelial Cell Basement Membranes; 6.3.1 Leukocyte Adhesion and Migration Studies; 6.3.2 Methods of Investigation of Leukocyte Migration on Extracellular Matrix Substrates; 6.3.3 Murine Inflammatory Models; 6.3.4 Role of Proteases; 6.4 Conclusion; Acknowledgment; References; Part II Trafficking in vivo; 7 Control of Homing Receptor Expression during Lymphocyte Differentiation, Activation, and Function; 7.1 Introduction; 7.2 Developing Lymphocytes Undergo Programmed Changes in Homing Receptor Expression
7.3 Control of Homing Receptor Expression During Lymphocyte Activation and Effector Cell Differentiation

Sommario/riassunto

Written by known specialists in the field, this is a comprehensive and timely overview of a central and expanding topic. Simultaneously an introduction and a description of the latest concepts, findings and methods, the handbook provides basic knowledge on technical issues required for those intending to research in the field. It covers the functional role of involved molecules and the cellular mechanisms, and addresses selected examples for their possible application in therapy -- bridging the gap between trafficking mechanisms and novel therapeutic strategies. In addition, it includes select

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