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List of Contributors; Preface; Contents; Chapter 1: Molecular Regulation of Granulopoiesis Sachin Kumar and Marie-Dominique Filippi; 1.1 Introduction; 1.2 Sequential Steps of PMN Development; 1.2.1 From HSC to granulocytic precursors; 1.2.2 Final stages of granulocytic maturation - Acquisition of granulocyte characteristics; 1.3 Regulation of Steady State Granulopoiesis; 1.3.1 Growth factors; 1.3.1.1 G-CSF: Sources and functions; 1.3.1.2 G-CSFR and downstream signaling pathways; 1.3.1.3 G-CSFR signaling: Instructive or permissive?; 1.3.2 Transcription factors (TF)
1.3.2.1 PU.1 - Generation of CMP from HSC; 1.3.2.2 C/EBP - Generation of GMP from CMP; 1.3.2.3 C/EBP - Terminal stages of differentiation; 1.3.2.4 Gfi-1 - Terminal stages of differentiation; 1.3.2.5 Other transcription factors important for granulopoiesis; 1.3.2.5.1 Retinoic acid receptors; 1.3.2.5.2 HoxA10; 1.3.2.5.3 LEF-1; 1.3.3 MicroRNA; 1.3.4 Cell cycle regulation; 1.4 Emergency Granulopoiesis; 1.5 Conclusion; References; Chapter 2: The Neutrophil Respiratory Burst Oxidase Mark T. Quinn; 2.1 Introduction; 2.2 NADPH Oxidase Components; 2.2.1 Flavocytochrome b; 2.2.2 p47phox; 2.2.3 p67phox
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4.5.5 PECAM-1

This is a third edition of the popular book, which presents an overview of the most recent findings in the biology of neutrophils. These cells are critically important for protection against bacterial and viral infections and have been recently demonstrated to be a major contributor to tumor associated immune suppression. In addition, neutrophils represent a unique model for studying fundamental questions of cellular biochemistry and molecular biology. This monograph provides a detailed description of signal transduction, generation of reactive oxygen, and mechanisms of migration and death of