

# Contents

## Part I Myeloma Molecular Pathways and Cell Signaling

<b>1 Genomic Strategies Determining Progression from MGUS to Multiple Myeloma .....</b>	<b>3</b>
Esteban Braggio and Rafael Fonseca	
<b>2 Prognostic Implication of Genetic Changes (Cytogenetics, and FISH, Gains and Losses of DNA by SNP Array and aCGH) in Risk Stratification in Myeloma.....</b>	<b>25</b>
Jill Corre and Hervé Avet-Loiseau	
<b>3 Advances in Multiple Myeloma Gene-Expression Profiling .....</b>	<b>41</b>
Saad Usmani, B. Barlogie, and J.D. Shaughnessy, Jr.	
<b>4 Growth Factors in Multiple Myeloma .....</b>	<b>65</b>
Jérôme Moreaux, Caroline Bret, Karène Mahtouk, Anne-Catherine Sprynski, Dirk Hose, and Bernard Klein	
<b>5 Role of Wnt Signaling Pathways in Multiple Myeloma Pathogenesis.....</b>	<b>85</b>
Mariateresa Fulciniti and Daniel R. Carrasco	
<b>6 The mTOR Pathway in Multiple Myeloma .....</b>	<b>97</b>
Joseph Gera and Alan Lichtenstein	
<b>7 Jak/STAT Signaling in the Pathogenesis and Treatment of Multiple Myeloma .....</b>	<b>117</b>
Erik A. Nelson, Sarah R. Walker, and David A. Frank	

## Part II Myeloma Microenvironment

<b>8 The Bone Marrow Microenvironment: Novel Targets to Circumvent Minimal Residual Disease and Drug Resistance in Multiple Myeloma.....</b>	<b>141</b>
Kenneth H. Shain and William S. Dalton	
<b>9 Osteoclasts: Potential Target for Blocking Microenvironmental Support of Myeloma.....</b>	<b>169</b>
Deborah L. Galson, Sonia D'Souza, and G. David Roodman	
<b>10 Targeting the BAFF/APRIL Cytokine Network in Multiple Myeloma.....</b>	<b>187</b>
Stephen A. Mihalczik and Diane F. Jelinek	
<b>11 Role of Osteoblast in Myeloma Pathology .....</b>	<b>203</b>
Sonia Vallet and Noopur Raje	
<b>12 Migration and Homing in Multiple Myeloma .....</b>	<b>215</b>
Giada Bianchi and Irene M. Ghobrial	
<b>13 Genes and Proteins of Myeloma Endothelial Cells to Search Specific Targets of the Tumor Vasculature .....</b>	<b>241</b>
Domenico Ribatti and Angelo Vacca	
<b>14 Epigenetic Regulation of Myeloma Within Its Bone Marrow Microenvironment .....</b>	<b>255</b>
Elke De Bruyne, Ken Maes, Sarah Deleu, Els Van Valckenborgh, Eline Menu, Isabelle Vande Broek, Joanna Fraczek, Leo van Grunsven, Vera Rogiers, Helena Jernberg-Wiklund, and Karin Vanderkerken	
<b>15 Targeting Multiple Myeloma Tumor Angiogenesis: Focus on VEGF .....</b>	<b>283</b>
Klaus Podar and Kenneth C. Anderson	
<b>16 Novel In Vivo Models in Myeloma .....</b>	<b>301</b>
Eric Sanchez, Haiming Chen, and James R. Berenson	
<b>Index.....</b>	<b>313</b>

Advances in Biology and Therapy of Multiple Myeloma

Volume 1: Basic Science

Munshi, N.C.; Anderson, K.C. (Eds.)

2013, X, 322 p., Hardcover

ISBN: 978-1-4614-4665-1