
Contents

Chapter one	Vascular endothelial growth factor: pathophysiology and clinical implications.....	1
	<i>Napoleone Ferrara</i>	
Chapter two	Signal transduction of VEGF receptors toward angiogenesis.....	37
	<i>Masabumi Shibuya</i>	
Chapter three	Growth factors and lymphangiogenesis.....	53
	<i>Paula I. Haiko, Marika J. Karkkainen, Marc G. Achen, Steven A. Stacker, and Kari Alitalo</i>	
Chapter four	Notch and vascular development.....	75
	<i>Carrie J. Shawber and Jan Kitajewski</i>	
Chapter five	Neural guidance molecules in vascular development.....	89
	<i>Li Yuan, Pierre Corvol, and Anne Eichmann</i>	
Chapter six	Neuropilins, receptors for the VEGF and semaphorin families, link angiogenesis and axon guidance	111
	<i>Peter Kurschat, Diane Bielenberg, and Michael Klagsbrun</i>	
Chapter seven	Non-angiogenic functions of VEGF.....	133
	<i>Jody J. Haigh, Carmen Ruiz de Almodovar, Martin Schneider, and Peter Carmeliet</i>	
Chapter eight	Contribution of pro-angiogenic hematopoietic cells to vascularization of tumor and ischemic tissue.....	163
	<i>Shahin Rafii, David Lyden, David Jin, and Andrea Hooper</i>	
Chapter nine	Antiangiogenic drugs as broadly effective chemosensitizing agents	181
	<i>Robert S. Kerbel, Francesco Bertolini, Shan Man, Daniel J. Hicklin, Urban Emmenegger, and Yuval Shaked</i>	

Chapter ten	Using an anti-VEGF monoclonal antibody to treat cancer.....	199
	<i>Zev A. Wainberg and Fairouz Kabbinavar</i>	
Chapter eleven	Ocular neovascularization	215
	<i>Peter A. Campochiaro</i>	
Chapter twelve	Targeting VEGF for neovascular age-related macular degeneration and macular edema	229
	<i>Philip J. Rosenfeld and Anne E. Fung</i>	
Chapter thirteen	Therapeutic angiogenesis for cardiovascular disease	253
	<i>Rohit Khurana and Michael Simons</i>	
Index		269