
Contents

Preface		vii
Short Communication		
	Regulation of Cell Fate Determination by Jun, a Component of Activator Protein 1 <i>Kenichi Yoshida</i>	1
Research and Review Articles		
Chapter I	Insulin-Like Growth Factor Regulation of Cell Proliferation <i>Francesco Chiappelli, Alberto Angeli, Frank Calzone, Elaina Cajulis, Javier Iribarren, Jackie Kaslow, Yue Liu, Ercolano Manfrini, David Moradi, Negoita Neagos and Paolo Prolo</i>	9
Chapter II	The Beginning of the MicroRNA Era for Cell Cycle Control <i>Kenichi Yoshida</i>	49
Chapter III	Cycles, Systems Science, and Biologic Entities: A Translational View <i>Ivo P. Janecka</i>	71
Chapter IV	TGF β : a Unique and Powerful Negative Regulator of the Cell Cycle in Human Myeloid Leukemia Cells <i>Xiao Tang Hu and Kenneth S. Zuckerman</i>	99
Chapter V	New Directions for CDKs and HDACs Inhibition in Cancer Therapy <i>Graziano Lolli and Stefania Di Marco</i>	125
Chapter VI	Trisomy of Human Chromosome 21 and Cell Cycle Control <i>Mohammed Rachidi, Charles Tetaria and Lopes Carmela</i>	159
Chapter VII	Transforming Growth Factor Beta and Cell Cycle Regulation <i>Ota Fuchs</i>	191

Chapter VIII	Transcription Factor C/EBP α and its Effect on Cell Cycle Regulation <i>Ota Fuchs</i>	215
Chapter IX	The Non-Hemodynamic Effect of Angiotensin II in Renal Fibrogenesis <i>Bi-Cheng Liu and Jian-Dong Zhang</i>	233
Chapter X	Cyclin-Dependent Kinase Inhibitors and Aging <i>Xiangmei Chen and Jianzhong Wang</i>	261
Chapter XI	The Role and Predictive Power of Cell Cycle Checkpoints in Aging, Cardiovascular, Cancer, and Neurodegenerative Diseases <i>Olga Golubnitschaja</i>	291
Chapter XII	The Role of Cell Cycle Control Genes in the Pathogenesis of Human Hematological Neoplasms <i>Luis Vieira and Maria Gomes da Silva</i>	317
Chapter XIII	Cell Cycle Control in <i>Drosophila</i> <i>Zohra Rahmani</i>	339
Chapter XIV	Cell Cycle Control of Mammals During the Embryonic Period and Recent Research <i>Paula Lumy Takeuchi, Christina Vretos and Luis Garcia Alonso</i>	361
Chapter XV	Cell Cycle Arrest by Dietary Chemopreventive Agents <i>Fazlul H. Sarkar and Yiwei Li</i>	391
Chapter XVI	Chromatin: The Biophysical Approach to Elucidating Structure and Function <i>James M. Nicholson, Colin D. Reynolds, Mark J. Dickman, Christopher M. Wood and John P. Baldwin</i>	411
Index		429